

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1988



U.S. Department of Labor
Elizabeth H. Dole, Secretary

Mine Safety and Health Administration
David C. O'Neal, Assistant Secretary

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INJURY EXPERIENCE IN NONMETALLIC MINERAL MINING (EXCEPT STONE AND COAL) 1988

by

Staff, Division of Mining Information Systems
Safety and Health Technology Center
Technical Support, Denver, Colorado

ABSTRACT

This Mine Safety and Health Administration (MSHA) informational report reviews in detail the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1988. Data reported by operators of mining establishments concerning work injuries are summarized by work location, accident classification, part of body injured, nature of injury, occupation, and principal type of mineral. Related information on employment, worktime, and operating activity also is presented. Data reported by independent contractors performing certain work at mining locations are depicted separately in this report. For ease of comparison with other metal and nonmetallic mineral mining industries and with coal mining, summary reference tabulations are included at the end of both the operator and the contractor sections of this report.

INTRODUCTION

Data used in compiling this report were reported by operators of nonmetallic mineral mines and preparation plants on a mandatory basis as required under the Federal Mine Safety and Health Act of 1977, Public Law 91-173 as amended by Law 95-164. Since January 1, 1978, operators of mines or preparation plants or both which are subject to the Act have been required under 30 CFR, Part 50, to submit reports of injuries, occupational illnesses, and related data.

Only data reported by the operators and contractors themselves are utilized in this report. No estimates are made of employment, employee-hours, or injuries for nonrespondent operations except as necessary to meet statistical processing requirements by providing minimum employment data for reported unmatched injury data.

Beginning with calendar year 1978, statistical measures for injury experience in mining were changed from the measures used from 1930 through 1977. The statistical measures for injury experience adopted by MSHA in 1978 compare closely with the measures used in the Office of Occupational Safety and Health Statistics, Bureau of Labor Statistics, U. S. Department of Labor. Therefore, beginning with 1978 data, the mining industry can be compared on a standard basis with other United States industries reporting under the Occupational Safety and Health Act of 1970.

Occurrences identified as occupational illnesses by mine operators were reported to MSHA and were processed in accordance with 30 CFR PART 50.20-6. The reported illnesses are summarized in seven categories for each work location, type of mineral, and State. Incidence rates and severity measures are not computed for occupational illnesses.

Because of the modifications in reporting and processing procedures that became effective January 1, 1978, injury rates as currently computed are not precisely comparable to those of previous years, except for fatality rates in which the "incidence rate" (the term used after 1977) is one-fifth of the "frequency rate" (the term used prior to 1978) for otherwise similar groupings of fatal injuries and worktimes. Because of this disparity, MSHA annual publications concerning injuries, illnesses, and operating activity will not contain data for years prior to 1978.

SCOPE OF STATISTICS

The statistical data in this report cover the work experience of all personnel engaged in mine exploration, development, production, maintenance, repair, and construction work, including supervisory and technical personnel, working partners, and onsite officeworkers. The classification of industries is in close general agreement with the Standard Industrial Classification. ^{1/}

It should be noted that amendments to legislation that funded MSHA and other government programs from December 16, 1981, through July 18, 1982, prohibited MSHA from administering or enforcing the Federal Mine Safety and Health Act of 1977 (Mine Act) or MSHA standards and regulations with respect to any person engaged in the surface mining or milling of stone, clay, feldspar, colloidal phosphate, or sand and gravel. They also provided that MSHA could not administer or enforce the Mine Act or MSHA standards and regulations on any State or political subdivision thereof. Further, MSHA could not administer or enforce the Mine Act or MSHA standards or regulations with respect to any independent construction contractor who was engaged by an operator for the construction, repair or alteration of structures, facilities, utilities or private ways or roads located on (or appurtenant to) the surface areas of any coal or other mine, and whose employees worked in a specifically demarcated area, separate from actual mining or extraction activities. No data on exempted activities are included for that period of time in Table 1 of this publication.

MSHA issued guidelines which additionally reduced the reporting requirements of independent contractors. Reporting of employment, hours worked, and injury/illness data by independent contractors is limited to the following types of work performed: mine development, including shaft and slope sinking; construction or reconstruction of mine facilities, including building or rebuilding preparation plants and mining equipment, and building additions to existing facilities; demolition of mine facilities; construction of dams; excavation or earthmoving activities involving mobile equipment; equipment installation, such as crushers and mills; equipment service or repair done underground or in the pit for a period exceeding five

^{1/} Executive Office of the President, Office of Management and Budget. Standard Industrial Classification Manual. 1972 revision.

consecutive days at a particular mine; material handling within mine property, including haulage of coal, ore, refuse, etc., unless for the sole purpose of direct removal from or delivery to mine property; drilling and blasting. Also, data collected for employment and hours worked in those activities reflect the contractor's total metallic/nonmetallic work locations and total coal work locations and not the individual mine sites. For more detailed information concerning these changes, see the guidelines accompanying MSHA Policy Memoranda Nos. 82-6A MM and 81-35A C.

DEFINITION OF TERMS

Occupational Injury.--An occupational injury is an injury to a mine worker which occurs at a mine and for which medical treatment is administered, or which results in death or loss of consciousness, restriction of work or motion, inability to perform all job duties on any day after an injury, lost workdays, temporary assignment to other duties, transfer to another job, or termination. The injury usually results from a recognizable single incident. For example, an explosion of a battery which splattered a worker with sulfuric acid would be a single incident and the worker would be considered to have suffered an injury. Another example would be an injury where a worker was overcome by hydrogen sulfide gas released from an exploding vessel.

Occupational illness.--An occupational illness is an illness or disease of a mine worker which may have resulted from work at a mine or for which an award of compensation is made. To be classified as an occupational illness, the disability must result from repeated exposure to the condition or substance which caused the disability. A classic illness example is a pneumoconiosis disability which may have been induced by repeated exposure to the causative dusty condition. Dermatitis resulting from repeated exposure to lime dust or other material in the work environment also should be reported as an illness. In cases where the time of onset of illness is in doubt, the day of diagnosis of illness will be considered as the first day of illness.

Number of Operations and Associated Work Locations.--Number of operations is the number of individual respondents with a unique Federal identification number that have reported worktime data. The count and kind of operation are based on the lowest numbered (primary) subunit on employment report Form 7000-2 (see figure 2, p. 10) that contains worktime data. An associated work location is a subunit reported with a primary subunit, e.g., an "office" is almost always an associated work location. Independent contractors working on mine property performing the types of work described under "Scope of Statistics" are assigned an identification number, report to MSHA, but are not included in the count of operations. Contractor data are depicted separately in this report.

Worktime.--Worktime includes the number of workers and the number of employee-hours worked. "Average number of workers" is a summary of the average number of persons working at individual establishments during calendar quarters of active operations. "Employee-hours" is a summary of employee-hours reported.

Employment Size Group.--Reporting operations are classified into size groups according to the average number of workers in specified work locations.

Degree of Injury.--Degree of injury indicates the seriousness of injuries. FATAL injuries are those occurrences resulting in death, NFDL (NonFatal with Days Lost) injuries are nonfatal occurrences that result in days away from work, statutory days charged, or days of restricted work activity. NDL (No Days Lost) injuries are occurrences having no lost workdays; that is, nonfatal injury occurrences resulting only in temporary loss of consciousness or medical treatment other than first aid.

A permanent total disability is caused by any work injury or illness other than death that permanently and totally incapacitates a worker from following any gainful occupation, or that results in the loss, or the complete loss of use, of both or any combination of: hands, arms, legs, feet, or eyes.

A permanent partial disability is caused by any work injury or illness other than death or permanent total disability that results in the loss, or the complete loss of use, of any member or part of a member of the body, or any permanent impairment of functions of the body or part thereof, regardless of any preexisting disability of the injured member or impaired body function.

Incidence Rate.--Incidence rate is defined as the number of injuries per 200,000 employee-hours, rounded to two decimal places. The highest rate given is 99.99. If an incidence rate is greater than 99.99, then 99.99 is printed. If no data were reported, then a hyphen is printed. If a computation is less than 0.01 after rounding, then an asterisk inside parentheses (*) is printed. The following is the standard incidence rate formula:

$$IR = \frac{\text{number of injuries} \times 200,000}{\text{number of employee-hours}}$$

Lost Workdays (LWD).--Lost workdays consist of days away from work (DAW) and days of restricted work activity (DRA), or statutory days charged as prescribed from a table of standard charges (see p. 7), e.g., 6,000 days for a fatality or permanent total disability.

Severity Measure.--Severity measure is the number of lost workdays per 200,000 employee-hours, rounded to whole numbers. The highest rate given is 99,999. If the computed rate is greater than 99,999, then 99,999 is printed. If no data were reported, then a hyphen is printed. If the computation results in a zero after rounding, then an asterisk inside parentheses (*) is printed. The following is the standard severity measure formula:

$$SM = \frac{\text{number of lost workdays} \times 200,000}{\text{number of employee-hours}}$$

Average Severity.--Average severity is the average number of lost workdays per injury and is computed only for injuries classified as FATAL or NFDL. Lost workdays are selected on the same basis as that for computing the severity measure. The following is the standard average severity formula:

$$AS = \frac{\text{number of lost workdays}}{\text{number of injuries contributing the lost workdays}}$$

Type of Mineral.--The type of mineral is determined from the Standard Industrial Classification (S.I.C.) code assigned to an operation based on information provided by the mine operator. Data for all work locations in the operation are credited to the assigned S.I.C.

Classification of Accident.--Accident classification identifies circumstances which contributed most directly to the resulting accident. The 21 classifications in the following list are designed to categorize all accidents, whether injury-producing or not.

Electrical.--Accidents in which the electric current is most directly responsible for the resulting accident.

Entrapment.--Accidents involving entrapment of persons.

Exploding Vessels Under Pressure.--Accidents involved with bursting of air hoses, air tanks, hydraulic lines, hydraulic hoses, stand pipes, etc., due to internal pressure.

Explosives and Breaking Agents.--Accidents involving the detonation of manufactured explosives; includes Airdox and Cardox.

Falling, Rolling, or Sliding Rock or Material of Any Kind.--Accidents caused directly by falling material other than material from the roof or face. Or, if material was set in motion by machinery, by haulage, by handtools, or while being handled or disturbed, etc., the force that set the material in motion determines the classification. For example, where a rock was pushed over a highwall by a bulldozer and the rock hit another rock which hit and injured a worker--the accident is classified as machinery. Machinery (a bulldozer) most directly caused the resulting accident.

Fall of Face, Rib, Pillar, Side, or Highwall (from in place).--Accidents in this classification include falls of material while barring down or placing props, also pressure bumps and bursts. Not included are accidents in which the motion of machinery or haulage equipment caused the fall either directly or by knocking out support.

Fall of Roof, Back, or Brow (from in place).--Underground only - Accidents which include falls while barring down or placing props, also pressure bumps and bursts. Not included are accidents in which the motion of machinery or haulage equipment caused the fall either directly or by knocking out support.

Fire.--Accidents related to uncontrolled burning of material or mineral in the mine environment. Not included are fires initiated by electricity or by ignition or explosion of gas or dust.

Handling Material.--Accidents related to handling packaged or loose material while lifting, pulling, pushing, or shoveling.

Handtools.--Accidents related to nonpowered tools.

Nonpowered Haulage.--Accidents related to the motion of nonpowered haulage equipment. Included are accidents involving wheelbarrows, manually pushed mine cars, timber trucks, etc.

Powered Haulage.--Accidents related to the motion of powered haulage equipment. Included are accidents involving conveyors, front-end loaders, forklifts, shuttle cars, load-haul-dump units, locomotives, railroad cars, haulage trucks, pickups, automobiles, and personnel carriers.

Hoisting.--Accidents involving cages, skips, ore buckets, and elevators. The accident results from the action, motion, or failure of the hoisting equipment or mechanism. Included are equipment such as cranes and derricks only when used in shaft sinking; also suspended work platforms in shafts. Not included is equipment such as chain hoists, come-alongs, and winches.

Ignition or Explosion of Gas or Dust.--Accidents resulting as a consequence of the ignition or explosion of gas or dust.

Impoundment.--Accidents caused by an unstable condition or failure of an impoundment, refuse pile, or culm bank requiring emergency preventative action or evacuation of an area.

Inundation.--Accidents caused by inundation of a surface or underground mine by a liquid (or semi-solid) or a gas.

Machinery.--Accidents related to the motion of machinery. Included are all electric and air-powered tools and mining machinery such as drills, tuggers, winches, slushers, draglines, power shovels, loaders, and compressors.

Slip or Fall of Person (from an elevation or on the same level).--Accidents include slips or falls while getting on or off machinery and haulage equipment which is not moving, and slips or falls while servicing or repairing equipment or machinery.

Stepping or Kneeling on Object.--Accidents are classified in this category only where the object stepped or kneeled on contributed most directly to the accident.

Striking or Bumping.--This classification is restricted to those accidents in which an individual, while moving about, strikes or bumps an object but is not handling material, using handtools, or operating equipment.

Other.--Accidents not elsewhere classified.

Abbreviations.--Space limitations in column headings and stub entries of standard-format tabulations require occasional adaptation of terminology. In this report PLNTS should be interpreted as "plants."

Statutory Days Charged.--Some injuries or illnesses are of such a degree of severity that a standard time charge of lost workdays has been adopted by MSHA as follows:

<u>Disability</u>	<u>Lost Workdays</u> <u>Charged</u> 2/
Death	6,000
Permanent total disability	6,000
Dismemberment or total loss of use	
Arm above elbow	4,500
Arm at or below elbow and above wrist	3,600
Hand at wrist	3,000
Leg above knee	4,500
Leg at or below knee and above ankle	3,000
Foot at ankle	2,400
Loss of sight:	
One eye (whether or not there is sight in the other eye)	1,800
Both eyes (in one accident)	6,000
Complete industrial loss of hearing:	
One ear (whether or not there is hearing in the other ear)	600
Both ears (in one accident)	3,000
Unrepaired hernia	50

2/ Not more than 6,000 lost workdays will be charged in a single accident that results in multiple injuries to a mine worker. (See definition of permanent total disability on page 4.)

TABLE REFERENCE GUIDE (OPERATOR DATA)

The following reference guide facilitates locating particular data elements contained in the annual statistical tables for operators. A comparable guide precedes the contractor section of this report. The number appearing in each cell indicates the table number in which that particular element may be found. All elements listed under the stub headings appear as vertical headings in the tables. Elements listed under column headings appear as horizontal headings. The only exception to this is table 1, in which the headings have been reversed.

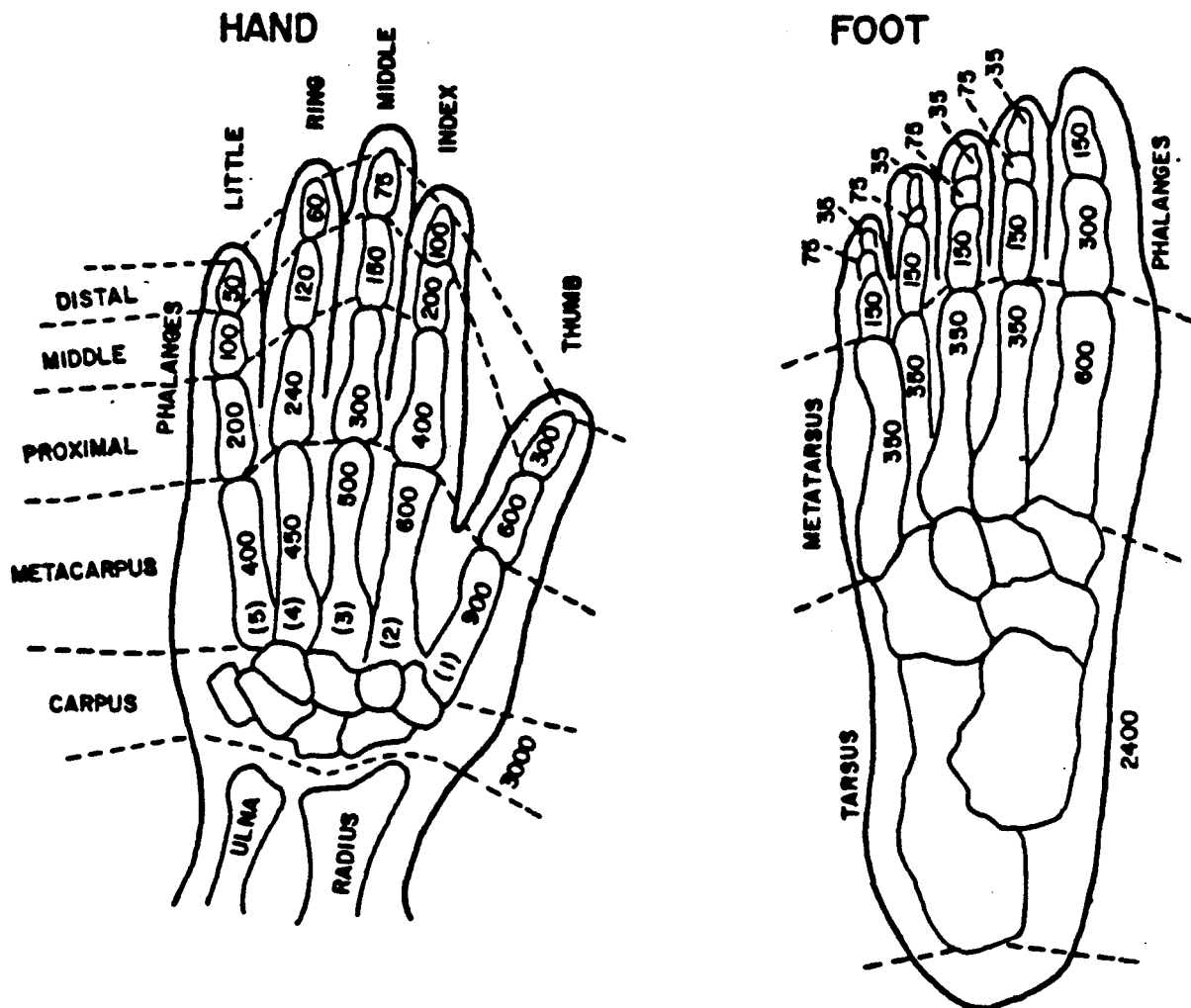
To use this guide, read down or across the elements listed in both the stub and column headings to determine which combinations are of interest. For example, incidence rates by work location appear in seven different tables, numbers 2, 4, 6, 8, 10, 22, and 23. However, only one, table 10, provides a further division by nature of injury as well. The occupation of the injured is found in table 17 and, as seen in the column headings, provides the number of injuries, lost workdays, and average severity.

1988

REFERENCE GUIDE TO NONMETALLIC STATISTICAL TABLES (OPERATOR DATA)

STUB HEADINGS	COLUMN HEADINGS												
	Number of injuries	Incidence rates	Severity measures	Lost workdays	Average severity	Average number of workers	Employee-hours worked	Number of operations	Associated work locations	Average hours per employee per year	Accident classification	Number of occupational illnesses	Coal production (short tons)
Prior year data with and without office ^{1/}	1	1	1		1	1	1	1	1	1			
Work location	2	2	2			2	2	2	2				
	3			3	3								
	4	4	4			4	4	4	4				
	5			5	5								
	6	6	6			6	6	6	6				
	7			7	7								
	8	8	8										
	9			9	9								
	10	10	10										
	11			11	11								
	13										13		
				14							14		
	15										15		
				16							16		
	17			17	17								
	18			18	18								
												21	
	22	22				22	22						
23	23				23	23						23	
Employment size group	4	4	4			4	4	4	4				
Type of mineral	5			5	5								
	6	6	6			6	6	6	6				
	7			7	7								
	15										15		
			16								16		
												21	
State	6	6	6			6	6	6	6				
	7			7	7								
	13										13		
				14							14		
												21	
Part of body injured	8	8	8										
	9			9	9								
	12			12	12								
	19			19	19								
Nature of injury	10	10	10										
	11			11	11								
	12			12	12								
	20			20	20								
Occupation at time of injury	17			17	17								
Accident classification	18			18	18								
	19			19	19								
	20			20	20								
Mineral industry	22	22				22	22						
Type of coal	23	23				23	23						23

^{1/} For table 1 only, the headings have been reversed to simplify this guide; that is, the data elements indicated in the column headings for this table actually appear as vertical headings.



Note:

Numbers shown on diagrams are statutory charges of lost workdays for loss of all or part of bone.

Proportional charges may be computed based on medical determination of percentage loss of use.

FIGURE I. Scheduled charges in lost workdays for loss or loss of use involving hand or foot.

Quarterly Mine Employment
and Coal Production Report

U.S. Department of Labor
Mine Safety and Health Administration



Do Not Write in This Space

O.M.B. Number 1219-0006; Approval Expires July 31, 1988.

This report is required by law (30 U.S.C. § 813; 30 C.F.R. Part 50). Failure to report can result in the institution of a civil action for relief under 30 U.S.C. § 818 respecting an operator of a coal or other mine, and assessment of a civil penalty against an operator of a coal or other mine under 30 U.S.C. § 820(a). An individual who, being subject to the Federal Mine Safety and Health Act of 1977 (30 U.S.C. § 801 *et seq.*) knowingly makes a false statement in any report can be punished by a fine of not more than \$10,000 or by imprisonment for not more than 5 years, or both, under 30 U.S.C. § 820(f). Any individual who knowingly and willfully makes any false, fictitious, or fraudulent statements, conceals a material fact, or makes a false, fictitious, or fraudulent entry, with respect to any matter within the jurisdiction of any agency of the United States can be punished by a fine of not more than \$10,000, or imprisoned for not more than 5 years, or both, under 18 U.S.C. § 1001.

Important:

This form must be completed and mailed within 15 days after the end of each calendar quarter.

1. Fill out this form as completely as possible and return the first sheet of this report to:
2. If it is necessary to make any address changes, indicate corrected information on this form.
3. When preaddressed, this form is only for the operation with I.D. number as shown. Do not use for any other operation.
4. *Sand and Gravel* operators report employment data under code 03 or 06 as appropriate, except for data on office workers which should be reported under code 99.
5. All mine operators and independent contractors reporting as required by 30 C.F.R., Part 50, should show persons working and employee-hours worked; those producing coal show also production data.
6. *Independent Contractors* should complete quarterly only one form for activities at all coal locations, and one form for activities at all metal and nonmetal locations.

MSHA, Health and Safety Analysis Center
P.O. Box 25367
Denver, Colorado 80225

Date Report Completed

Mo. Day Yr.

For Quarter

Mail Before

Check here if this report is
being submitted by a contractor ☐

If Any Information Below Is Incorrect Please
Enter Correct Information Here:

County

Operation Name

Operating Company Name and Mailing Address

MSHA ID Number

Contractor ID

County:

Operation Name

Operating Company Name and Address

Return To MSHA

1. Persons Working, Employee-Hours, and Coal Production				
(1) Operation Sub Unit Code(s) previously reported:	Code	(2) Average number of persons working during quarter	(3) Total employee-hours worked during the quarter	(4) Production of clean coal during quarter, (short tons)
Underground Mine	Underground	01		
	Surface Shops, Yards, Etc.	02		
Surface Mine (including shops and yards)	Strip, Open Pit, or Quarry	03		
	Auger (Coal Mine Only)	04		
	Culm Bank or Refuse Pile (Coal Mine Only)	05		
	Dredge	06		
	Other Surface Mining (Metal/Nonmetal Only)	12		
	Independent Shops or Yards	17		
Mill Operations, Preparation Plant, or Breaker (include associated shops and yards)	30			
Office (professional and clerical workers at the mine or plant)	99			

2. Other Reportable Data			
How many MSHA reportable injuries or illnesses did you have this quarter?			
Name	Title	Phone (incl. Area Code)	
Person to be contacted regarding this report			

MSHA Form 7000-2, May 85 (Revised)

FIGURE 2. Quarterly mine employment and coal production
report form.

Section A—Identification Data

Section B—Complete for Each Reportable Accident Immediately Reported to MSHASection C—Completes for Each Reportable Accident, Injury or Illness

6. Date of Accident

9. Describe Fully the Conditions Contributing to the Accident/Injury/Illness, and Quantify the Damage or Impairment

Section D-Return to Duty Information

Person Completing Form (name)

Date This Report Prepared (month, day, year) Area Code and Phone Number

MSHA Form 7000-1, Feb 60 (revised)

MAIL THIS PAGE TO THE HEALTH AND SAFETY ANALYSIS CENTER, MINE SAFETY
AND HEALTH ADMINISTRATION, P.O. BOX 25367, DENVER, COLORADO 80225

FIGURE 3. Mine accident, injury, and illness report form.

TABLE 1. - GENERAL STATISTICS ON INJURY EXPERIENCE AND WORKTIME, AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

	EXCLUDING OFFICEWORKERS					INCLUDING OFFICEWORKERS				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
NUMBER OF INJURIES:										
FATAL-----	8	2	7	4	3	8	2	7	4	3
NFDL-----	932	854	779	1,001	1,216	938	855	782	1,005	1,222
TOTAL LWD INJURIES-----	940	856	786	1,005	1,219	946	857	789	1,009	1,225
NDL-----	534	541	447	800	1,011	542	544	450	807	1,020
TOTAL INJURIES-----	1,474	1,397	1,233	1,805	2,230	1,488	1,401	1,239	1,816	2,245
INCIDENCE RATES:										
FATAL-----	.03	.01	.03	.01	.01	.02	.01	.02	.01	.01
NFDL-----	2.94	2.83	2.82	3.63	4.23	2.55	2.44	2.44	3.15	3.69
ALL LWD INJURIES-----	2.97	2.84	2.84	3.65	4.24	2.57	2.45	2.46	3.17	3.70
NDL-----	1.69	1.80	1.62	2.90	3.51	1.47	1.55	1.40	2.53	3.08
ALL INJURIES-----	4.65	4.64	4.46	6.55	7.75	4.04	4.00	3.86	5.70	6.78
SEVERITY MEASURES:										
FATAL-----	151	40	152	87	63	130	34	131	75	54
NFDL-----	96	122	109	123	104	83	105	94	108	91
ALL LWD INJURIES-----	247	162	260	210	167	213	140	225	183	145
AVERAGE SEVERITY:										
PERMANENT PARTIAL-----	187	220	378	436	115	187	220	378	436	112
TEMPORARY NFDL-----	26	31	26	21	23	26	31	26	21	23
ALL LWD INJURIES-----	83	57	92	58	39	83	57	91	58	39
AVERAGE NUMBER OF EMPLOYEES----	32,541	31,719	29,327	27,846	28,377	38,078	37,002	34,105	32,426	32,920
EMPLOYEE-HOURS WORKED-----	63,373,108	60,265,067	55,292,085	55,118,399	57,551,893	73,592,874	70,039,537	64,134,829	63,744,595	66,244,078
AVERAGE HOURS PER EMPLOYEE										
PER YEAR-----	1,947	1,900	1,885	1,979	2,028	1,933	1,893	1,881	1,966	2,012
OPERATIONS REPORTED:										
NUMBER OF OPERATIONS-----	1,135	1,136	1,056	989	974	1,157	1,156	1,071	1,000	984
ASSOCIATED WORK LOCATIONS----	308	316	315	297	300	958	973	922	900	914

TABLE 2. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES												
		PERMANENT		TEMPO- RARY	TOTAL NFDL				FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PARTIAL																	
UNDERGROUND MINES:																				
UNDERGROUND-----	2	-	2	153	155	157	149	306	.05	4.26	4.32	4.10	8.41	330	146	476	3,475	7,273,046	77	-
SURFACE AT UNDERGROUND----	-	-	3	34	37	37	29	66	-	5.69	5.69	4.46	10.16	-	172	172	648	1,299,567	3	54
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	.05	4.48	4.53	4.15	8.68	280	150	430	4,123	8,572,613	80	54
SURFACE MINES:																				
OPEN PIT-----	-	-	6	183	189	189	189	378	-	2.90	2.90	2.90	5.80	-	63	63	6,919	13,027,611	668	-
DREDGE-----	-	-	-	5	5	5	4	9	-	3.80	3.80	3.04	6.83	-	14	14	140	263,395	2	-
OTHER SURFACE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	2.92	2.92	2.90	5.82	-	62	62	7,059	13,291,006	670	-
TOTAL OR AVERAGE, MINING-----	2	-	11	375	386	388	371	759	.02	3.53	3.55	3.39	6.94	110	96	206	11,182	21,863,619	750	54
INDEPENDENT SHOPS-----	-	-	-	-	-	-	2	2	-	-	-	11.29	11.29	-	-	-	17	35,439	2	-
PROCESSING PLANTS-----	1	-	16	814	830	831	638	1,469	.01	4.66	4.66	3.58	8.24	34	109	143	17,178	35,652,835	222	246
TOTAL OR AVERAGE, ALL MINES AND PLANTS-----	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167	28,377	57,551,893	974	300
OFFICE-----	-	-	1	5	6	6	9	15	-	.14	.14	.21	.35	-	1	1	4,543	8,692,185	10	614
GRAND TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	.01	3.69	3.70	3.08	6.78	54	91	145	32,920	66,244,078	984	914

TABLE 3. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA-NENT PARTIAL	TEMPO-RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO-RARY	TOTAL NFDL					PERMANENT		TEMPO-RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND-----	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110
SURFACE AT UNDERGROUND----	-	-	3	34	37	37	29	66	-	-	175	942	1,117	1,117	58	28	30
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95
SURFACE MINES:																	
OPEN PIT-----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22
DREDGE-----	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4
OTHER SURFACE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21
TOTAL OR AVERAGE, MINING-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:																	
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS:																	
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39
OFFICE:																	
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	10
GRAND TOTAL OR AVERAGE:																	
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																
		TOTAL	PARTIAL																	
UNDERGROUND MINES (INCLUDES SURFACE AT UNDERGROUND):	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	65,253	22	13	
1 - 4-----	-	-	-	9	9	9	8	17	-	8.77	8.77	7.79	16.56	-	61	61	123	205,344	19	12
5 - 9-----	-	-	-	11	11	11	9	20	-	7.29	7.29	5.96	13.25	-	231	231	145	301,912	10	5
10 - 19-----	-	-	1	6	6	6	8	14	-	5.16	5.16	6.88	12.04	-	85	85	109	232,494	4	2
20 - 34-----	-	-	-	2	2	2	-	2	-	2.47	2.47	-	2.47	-	37	37	93	162,097	2	1
35 - 49-----	-	-	-	17	17	17	13	30	-	3.62	3.62	2.77	6.39	-	146	146	421	938,890	6	4
50 - 99-----	-	-	-	57	59	61	38	99	18	5.21	5.39	3.36	8.74	1,060	141	1,201	1,134	2,264,550	9	9
100 - 149-----	2	-	2	44	45	45	29	74	-	4.49	4.49	2.89	7.38	-	130	130	1,031	2,005,622	5	5
150 - 249-----	-	-	1	42	43	43	73	116	-	3.59	3.59	6.09	9.68	-	190	190	1,003	2,396,451	3	3
250 OR MORE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	.05	4.48	4.53	4.15	8.68	280	150	430	4,123	8,572,613	80	54
SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4-----	-	-	3	32	35	35	21	56	-	5.84	5.84	3.51	9.35	-	163	163	892	1,198,263	376	-
5 - 9-----	-	-	-	15	15	15	19	34	-	1.91	1.91	2.42	4.34	-	23	23	971	1,567,673	148	-
10 - 19-----	-	-	1	22	23	23	23	46	-	2.61	2.61	2.61	5.22	-	94	94	952	1,763,673	75	-
20 - 34-----	-	-	-	21	21	21	16	37	-	2.96	2.96	2.25	5.21	-	71	71	708	1,419,329	29	-
35 - 49-----	-	-	-	9	9	9	12	21	-	1.96	1.96	2.61	4.56	-	18	18	473	920,387	12	-
50 - 99-----	-	-	2	40	42	42	56	98	-	3.21	3.21	4.29	7.50	-	63	63	1,265	2,613,089	17	-
100 - 149-----	-	-	-	16	16	16	22	38	-	1.64	1.64	2.25	3.89	-	39	39	892	1,953,531	7	-
150 - 249-----	-	-	-	13	13	13	16	29	-	2.66	2.66	3.27	5.92	-	42	42	493	979,002	3	-
250 OR MORE-----	-	-	-	15	15	15	4	19	-	4.90	4.90	1.31	6.20	-	37	37	273	612,664	1	-
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	2.90	2.90	2.90	5.80	-	63	63	6,919	13,027,611	668	-
DREDGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 - 19-----	-	-	-	3	3	3	4	7	-	24.88	24.88	33.18	58.06	-	108	108	11	24,112	1	-
100 - 149-----	-	-	-	2	2	2	-	2	-	1.67	1.67	-	1.67	-	5	5	129	239,283	1	-
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	3.80	3.80	3.04	6.83	-	14	14	140	263,395	2	-
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4-----	-	-	3	32	35	35	21	56	-	5.84	5.84	3.51	9.35	-	163	163	892	1,198,263	376	-
5 - 9-----	-	-	-	15	15	15	19	34	-	1.91	1.91	2.42	4.34	-	23	23	971	1,567,673	148	-
10 - 19-----	-	-	1	25	26	26	27	53	-	2.91	2.91	3.02	5.93	-	94	94	963	1,787,785	76	-
20 - 34-----	-	-	-	21	21	21	16	37	-	2.96	2.96	2.25	5.21	-	71	71	708	1,419,329	29	-
35 - 49-----	-	-	-	9	9	9	12	21	-	1.96	1.96	2.61	4.56	-	18	18	473	920,387	12	-
50 - 99-----	-	-	2	40	42	42	56	98	-	3.21	3.21	4.29	7.50	-	63	63	1,265	2,613,089	17	-
100 - 149-----	-	-	-	18	18	18	22	40	-	1.64	1.64	2.01	3.65	-	36	36	1,021	2,192,814	8	-
150 - 249-----	-	-	-	13	13	13	16	29	-	2.66	2.66	3.27	5.92	-	42	42	493	979,002	3	-
250 OR MORE-----	-	-	-	15	15	15	4	19	-	4.90	4.90	1.31	6.20	-	37	37	273	612,664	1	-
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	2.92	2.92	2.90	5.82	-	62	62	7,059	13,291,006	670	-

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NOL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																
		TOTAL	PARTIAL																	
TOTAL OR AVERAGE, MINING:																				
1 - 4-----	-	-	3	32	35	35	21	56	-	5.54	5.54	3.32	8.86	-	154	154	956	1,263,516	398	13
5 - 9-----	-	-	-	24	24	24	27	51	-	2.71	2.71	3.05	5.75	-	27	27	1,094	1,773,017	167	12
10 - 19-----	-	-	2	35	37	37	36	73	-	3.54	3.54	3.45	6.99	-	114	114	1,108	2,089,697	86	5
20 - 34-----	-	-	-	27	27	27	24	51	-	3.27	3.27	2.91	6.17	-	73	73	817	1,651,823	33	2
35 - 49-----	-	-	-	11	11	11	12	23	-	2.03	2.03	2.22	4.25	-	21	21	566	1,082,484	14	1
50 - 99-----	-	-	2	57	59	59	69	128	-	3.32	3.32	3.89	7.21	-	85	85	1,686	3,551,979	23	4
100 - 149-----	2	-	2	75	77	79	60	139	.09	3.45	3.54	2.69	6.24	538	89	628	2,155	4,457,364	17	9
150 - 249-----	-	-	1	57	58	58	45	103	-	3.89	3.89	3.02	6.90	-	101	101	1,524	2,984,624	8	5
250 OR MORE-----	-	-	1	57	58	58	77	135	-	3.85	3.85	5.12	8.97	-	159	159	1,276	3,009,115	4	3
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	.02	3.53	3.55	3.39	6.94	110	96	206	11,182	21,863,619	750	54
INDEPENDENT SHOPS:																				
1 - 4-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,511	1	-
10 - 19-----	-	-	-	-	-	-	2	2	-	-	-	15.43	15.43	-	-	-	13	25,928	1	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	11.29	11.29	-	-	-	17	35,439	2	-
PROCESSING PLANTS:																				
1 - 4-----	-	-	1	12	13	13	14	27	-	5.96	5.96	6.42	12.38	-	122	122	256	436,034	49	54
5 - 9-----	-	-	-	26	26	26	13	39	-	6.00	6.00	3.00	9.00	-	61	61	483	866,676	42	32
10 - 19-----	-	-	-	77	77	77	38	115	-	6.25	6.25	3.08	9.33	-	176	176	1,220	2,464,430	46	41
20 - 34-----	-	-	3	127	130	130	80	210	-	6.33	6.33	3.90	10.23	-	149	149	1,978	4,106,492	36	41
35 - 49-----	-	-	2	101	103	103	58	161	-	6.76	6.76	3.80	10.56	-	167	167	1,460	3,049,261	13	22
50 - 99-----	1	-	5	174	179	180	121	301	.02	4.44	4.46	3.00	7.46	149	119	268	3,869	8,070,057	20	35
100 - 149-----	-	-	1	62	63	63	57	120	-	3.34	3.34	3.03	6.37	-	104	104	1,872	3,768,285	9	7
150 - 249-----	-	-	1	80	81	81	67	148	-	3.95	3.95	3.27	7.21	-	66	66	1,899	4,103,813	4	6
250 OR MORE-----	-	-	3	155	158	158	190	348	-	3.60	3.60	4.32	7.92	-	69	69	4,141	8,787,787	3	8
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	.01	4.66	4.66	3.58	8.24	34	109	143	17,178	35,652,835	222	246

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	4	44	48	48	35	83	-	5.62	5.62	4.10	9.71	-	145	145	1,216	1,709,061	448	67
1 - 4-----	-	-	-	50	50	50	40	90	-	3.79	3.79	3.03	6.82	-	38	38	1,577	2,639,683	209	44
5 - 9-----	-	-	-	112	114	114	76	190	-	4.98	4.98	3.32	8.30	-	147	147	2,341	4,580,055	133	46
10 - 19-----	-	-	2	154	157	157	104	261	-	5.45	5.45	3.61	9.07	-	127	127	2,795	5,758,315	69	43
20 - 34-----	-	-	3	112	114	114	70	184	-	5.52	5.52	3.39	8.91	-	129	129	2,026	4,131,745	27	23
35 - 49-----	1	-	7	231	238	239	190	429	.02	4.10	4.11	3.27	7.38	103	109	212	5,555	11,622,036	43	39
50 - 99-----	2	-	3	137	140	142	117	259	.05	3.40	3.45	2.84	6.30	292	96	388	4,027	8,225,649	26	16
100 - 149-----	-	-	2	137	139	139	112	251	-	3.92	3.92	3.16	7.08	-	81	81	3,423	7,088,437	12	11
150 - 249-----	-	-	4	212	216	216	267	483	-	3.66	3.66	4.53	8.19	-	92	92	5,417	11,796,902	7	11
250 OR MORE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167	28,377	57,551,893	974	300
TOTAL OR AVERAGE-----																				
OFFICE:	-	-	-	1	1	1	3	4	-	.17	.17	.51	.67	-	1	1	793	1,186,213	9	431
1 - 4-----	-	-	-	1	1	1	1	2	-	.18	.18	.18	.36	-	(*)	(*)	574	1,115,318	1	88
5 - 9-----	-	-	-	-	-	-	2	2	-	-	-	.32	.32	-	-	-	634	1,268,982	-	45
10 - 19-----	-	-	1	1	2	2	2	4	-	.30	.30	.30	.60	-	8	8	647	1,341,308	-	26
20 - 34-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	439	895,344	-	11
35 - 49-----	-	-	-	1	1	1	-	1	-	.19	.19	-	.19	-	(*)	(*)	527	1,062,069	-	8
50 - 99-----	-	-	-	1	1	1	-	1	-	.37	.37	-	.37	-	1	1	253	545,979	-	2
100 - 149-----	-	-	-	-	-	-	1	1	-	-	-	.16	.16	-	-	-	676	1,276,972	-	3
150 - 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	.14	.14	.21	.35	-	1	1	4,543	8,692,185	10	614
GRAND TOTAL OR AVERAGE:	-	-	4	45	49	49	38	87	-	3.38	3.38	2.62	6.01	-	86	86	2,009	2,895,274	457	498
1 - 4-----	-	-	-	51	51	51	41	92	-	2.72	2.72	2.18	4.90	-	27	27	2,151	3,755,011	210	132
5 - 9-----	-	-	-	112	114	114	78	192	-	3.90	3.90	2.67	6.57	-	115	115	2,975	5,849,037	133	91
10 - 19-----	-	-	2	155	159	159	106	265	-	4.48	4.48	2.99	7.47	-	104	104	3,442	7,099,623	69	69
20 - 34-----	-	-	4	112	114	114	70	184	-	4.54	4.54	2.78	7.32	-	106	106	2,465	5,027,089	27	34
35 - 49-----	1	-	7	232	239	240	190	430	.02	3.77	3.78	3.00	6.78	95	100	194	6,082	12,684,105	43	47
50 - 99-----	2	-	3	138	141	143	117	260	.05	3.21	3.26	2.67	5.93	274	90	364	4,280	8,771,628	26	18
100 - 149-----	-	-	2	137	139	139	113	252	-	3.32	3.32	2.70	6.02	-	68	68	4,099	8,365,409	12	14
150 - 249-----	-	-	4	212	216	216	267	483	-	3.66	3.66	4.53	8.19	-	92	92	5,417	11,796,902	7	11
250 OR MORE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	.01	3.69	3.70	3.08	6.78	54	91	145	32,920	66,244,078	984	914

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES (INCLUDES SURFACE AT UNDERGROUND):																	
1 - 4-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5 - 9-----	-	-	-	9	9	9	8	17	-	-	63	63	63	-	7	7	
10 - 19-----	-	-	1	10	11	11	9	20	-	-	75	273	348	75	27	32	
20 - 34-----	-	-	-	6	6	6	8	14	-	-	-	99	99	-	16	16	
35 - 49-----	-	-	-	2	2	2	-	2	-	-	-	30	30	-	15	15	
50 - 99-----	-	-	-	17	17	17	13	30	-	-	-	687	687	-	40	40	
100 - 149-----	2	-	2	57	59	61	38	99	12,000	-	100	1,496	1,596	13,596	50	26	223
150 - 249-----	-	-	1	44	45	45	29	74	-	-	50	1,255	1,305	1,305	50	29	29
250 OR MORE-----	-	-	1	42	43	43	73	116	-	-	50	2,232	2,282	2,282	50	53	53
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95
SURFACE MINES: OPEN PIT:																	
1 - 4-----	-	-	3	32	35	35	21	56	-	-	500	474	974	974	167	15	28
5 - 9-----	-	-	-	15	15	15	19	34	-	-	-	179	179	179	-	12	12
10 - 19-----	-	-	1	22	23	23	23	46	-	-	300	531	831	831	300	24	36
20 - 34-----	-	-	-	21	21	21	16	37	-	-	-	501	501	501	-	24	24
35 - 49-----	-	-	-	9	9	9	12	21	-	-	-	84	84	84	-	9	9
50 - 99-----	-	-	2	40	42	42	56	98	-	-	100	728	828	828	50	18	20
100 - 149-----	-	-	-	16	16	16	22	38	-	-	-	385	385	385	-	24	24
150 - 249-----	-	-	-	13	13	13	16	29	-	-	-	206	206	206	-	16	16
250 OR MORE-----	-	-	-	15	15	15	4	19	-	-	-	112	112	112	-	7	7
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22
DREDGE:																	
10 - 19-----	-	-	-	3	3	3	4	7	-	-	-	13	13	13	-	4	4
100 - 149-----	-	-	-	2	2	2	-	2	-	-	-	6	6	6	-	3	3
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4
TOTAL OR AVERAGE, SURFACE:																	
1 - 4-----	-	-	3	32	35	35	21	56	-	-	500	474	974	974	167	15	28
5 - 9-----	-	-	-	15	15	15	19	34	-	-	-	179	179	179	-	12	12
10 - 19-----	-	-	1	25	26	26	27	53	-	-	300	544	844	844	300	22	32
20 - 34-----	-	-	-	21	21	21	16	37	-	-	-	501	501	501	-	24	24
35 - 49-----	-	-	-	9	9	9	12	21	-	-	-	84	84	84	-	9	9
50 - 99-----	-	-	2	40	42	42	56	98	-	-	100	728	828	828	50	18	20
100 - 149-----	-	-	-	18	18	18	22	40	-	-	-	391	391	391	-	22	22
150 - 249-----	-	-	-	13	13	13	16	29	-	-	-	206	206	206	-	16	16
250 OR MORE-----	-	-	-	15	15	15	4	19	-	-	-	112	112	112	-	7	7
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE, MINING:																	
1 - 4-----	-	-	3	32	35	35	21	56	-	-	500	474	974	974	167	15	28
5 - 9-----	-	-	-	24	24	24	27	51	-	-	-	242	242	242	-	10	10
10 - 19-----	-	-	2	35	37	37	36	73	-	-	375	817	1,192	1,192	188	23	32
20 - 34-----	-	-	-	27	27	27	24	51	-	-	-	600	600	600	-	22	22
35 - 49-----	-	-	-	11	11	11	12	23	-	-	-	114	114	114	-	10	10
50 - 99-----	-	-	2	57	59	59	69	128	-	-	100	1,415	1,515	1,515	50	25	26
100 - 149-----	2	-	2	75	77	79	60	139	12,000	-	100	1,887	1,987	13,987	50	25	177
150 - 249-----	-	-	1	57	58	58	45	103	-	-	50	1,461	1,511	1,511	50	26	26
250 OR MORE-----	-	-	1	57	58	58	77	135	-	-	50	2,344	2,394	2,394	50	41	41
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:																	
1 - 4-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 - 19-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS:																	
1 - 4-----	-	-	1	12	13	13	14	27	-	-	50	215	265	265	50	18	20
5 - 9-----	-	-	-	26	26	26	13	39	-	-	-	265	265	265	-	10	10
10 - 19-----	-	-	-	77	77	77	38	115	-	-	-	2,164	2,164	2,164	-	28	28
20 - 34-----	-	-	3	127	130	130	80	210	-	-	625	2,431	3,056	3,056	208	19	24
35 - 49-----	-	-	2	101	103	103	58	161	-	-	150	2,401	2,551	2,551	75	24	25
50 - 99-----	1	-	5	174	179	180	121	301	6,000	-	715	4,086	4,801	10,801	143	23	60
100 - 149-----	-	-	1	62	63	63	57	120	-	-	60	1,908	1,968	1,968	60	31	31
150 - 249-----	-	-	1	80	81	81	67	148	-	-	50	1,304	1,354	1,354	50	16	17
250 OR MORE-----	-	-	3	155	158	158	190	348	-	-	275	2,761	3,036	3,036	92	18	19
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	4	44	48	48	35	83	-	-	550	689	1,239	1,239	138	16	26
1 - 4-----	-	-	-	50	50	50	40	90	-	-	-	507	507	-	-	10	10
5 - 9-----	-	-	2	112	114	114	76	190	-	-	375	2,981	3,356	3,356	188	27	29
10 - 19-----	-	-	3	154	157	157	104	261	-	-	625	3,031	3,656	3,656	208	20	23
20 - 34-----	-	-	2	112	114	114	70	184	-	-	150	2,515	2,665	2,665	75	22	23
35 - 49-----	1	-	7	231	238	239	190	429	6,000	-	815	5,501	6,316	12,316	116	24	52
50 - 99-----	2	-	3	137	140	142	117	259	12,000	-	160	3,795	3,955	15,955	53	28	112
100 - 149-----	-	-	2	137	139	139	112	251	-	-	100	2,765	2,865	2,865	50	20	21
150 - 249-----	-	-	4	212	216	216	267	483	-	-	325	5,105	5,430	5,430	81	24	25
250 OR MORE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4-----	-	-	-	1	1	1	3	4	-	-	-	3	3	3	-	3	3
5 - 9-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
10 - 19-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
20 - 34-----	-	-	1	1	2	2	2	4	-	-	50	2	52	52	50	2	26
35 - 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 - 99-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
100 - 149-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
150 - 249-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	10
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4-----	-	-	4	45	49	49	38	87	-	-	550	692	1,242	1,242	138	15	25
5 - 9-----	-	-	-	51	51	51	41	92	-	-	-	508	508	-	-	10	10
10 - 19-----	-	-	2	112	114	114	78	192	-	-	375	2,981	3,356	3,356	188	27	29
20 - 34-----	-	-	4	155	159	159	106	265	-	-	675	3,033	3,708	3,708	169	20	23
35 - 49-----	-	-	2	112	114	114	70	184	-	-	150	2,515	2,665	2,665	75	22	23
50 - 99-----	1	-	7	232	239	240	190	430	6,000	-	815	5,502	6,317	12,317	116	24	51
100 - 149-----	2	-	3	138	141	143	117	260	12,000	-	160	3,799	3,959	15,959	53	28	112
150 - 249-----	-	-	2	137	139	139	113	252	-	-	100	2,765	2,865	2,865	50	20	21
250 OR MORE-----	-	-	4	212	216	216	267	483	-	-	325	5,105	5,430	5,430	81	24	25
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
APLITE: SURFACE MINES: OPEN PIT: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
TOTAL OR AVERAGE, SURFACE: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
TOTAL OR AVERAGE, MINING: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,436	1	-	
PROCESSING PLANTS: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	31,986	-	1	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	31,986	-	1	
TOTAL OR AVERAGE, ALL MINES AND PLANTS: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	66,422	1	1	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	66,422	1	1	
OFFICE: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,872	-	1	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,872	-	1	
GRAND TOTAL OR AVERAGE: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	75,294	1	2	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	75,294	1	2	
ASBESTOS: SURFACE MINES: OPEN PIT: CALIFORNIA-----	-	-	-	-	-	-	-	-	16.45	16.45	-	16.45	-	-	-	3	4,110	1	-	
VERMONT-----	-	-	-	2	2	2	-	2	-	16.45	-	16.45	-	115	115	11	24,318	1	-	
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	14.07	14.07	-	14.07	-	98	98	14	28,428	2	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL					ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
ASBESTOS-CONTINUED: TOTAL OR AVERAGE, SURFACE: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	2 2 2 -	2 2 2 -	2 2 2 -	- - - -	2 2 2 -	- - - -	16.45 16.45 14.07 -	16.45 16.45 14.07 -	- - - -	16.45 16.45 14.07 -	- - - -	115 115 98 -	115 115 98 -	3 11 14 -	4,110 24,318 28,428 -	1 1 2 -	- - - -
TOTAL OR AVERAGE, MINING: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	2 2 2 -	2 2 2 -	2 2 2 -	- - - -	2 2 2 -	- - - -	16.45 16.45 14.07 -	16.45 16.45 14.07 -	- - - -	16.45 16.45 14.07 -	- - - -	115 115 98 -	115 115 98 -	3 11 14 -	4,110 24,318 28,428 -	1 1 2 -	- - - -
PROCESSING PLANTS: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	4 5 9 -	4 5 9 -	4 5 9 -	- - - -	4 5 9 -	- - - -	12.77 24.03 17.27 -	12.77 24.03 17.27 -	- - - -	12.77 24.03 17.27 -	- - - -	182 91 146 -	182 91 146 -	33 18 51 -	62,628 41,623 104,251 -	1 - 1 -	- 1 1 -
TOTAL OR AVERAGE, ALL MINES AND PLANTS: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	4 7 11 -	4 7 11 -	4 7 11 -	- - - -	4 7 11 -	- - - -	11.99 21.23 16.58 -	11.99 21.23 16.58 -	- - - -	11.99 21.23 16.58 -	- - - -	171 100 136 -	171 100 136 -	36 29 65 -	66,738 65,941 132,679 -	2 1 3 -	- 1 1 -
OFFICE: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	4 15 19 -	8,892 27,259 36,151 -	- - - -	1 1 2 -
GRAND TOTAL OR AVERAGE: CALIFORNIA----- VERMONT----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	4 7 11 -	4 7 11 -	4 7 11 -	- - - -	4 7 11 -	- - - -	10.58 15.02 13.03 -	10.58 15.02 13.03 -	- - - -	10.58 15.02 13.03 -	- - - -	151 71 107 -	151 71 107 -	40 44 84 -	75,630 93,200 168,830 -	2 1 3 -	1 2 3 -

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES													
		PERMANENT		TEMPO- RARY				TOTAL NFDL												
		TOTAL	PARTIAL																	
BARITE:																				
SURFACE MINES:																				
OPEN PIT:																				
GEORGIA-----	-	-	-	1	1	1	4	5	-	4.51	4.51	18.02	22.53	-	59	59	22	44,394	2	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8,168	2	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	19,823	2	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,129	2	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2,880	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	2.46	2.46	9.83	12.29	-	32	32	52	81,394	9	-
TOTAL OR AVERAGE, SURFACE:																				
GEORGIA-----	-	-	-	1	1	1	4	5	-	4.51	4.51	18.02	22.53	-	59	59	22	44,394	2	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8,168	2	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	19,823	2	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,129	2	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2,880	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	2.46	2.46	9.83	12.29	-	32	32	52	81,394	9	-
TOTAL OR AVERAGE, MINING:																				
GEORGIA-----	-	-	-	1	1	1	4	5	-	4.51	4.51	18.02	22.53	-	59	59	22	44,394	2	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8,168	2	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	19,823	2	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,129	2	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2,880	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	2.46	2.46	9.83	12.29	-	32	32	52	81,394	9	-
PROCESSING PLANTS:																				
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,288	1	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,404	1	-
GEORGIA-----	-	-	-	4	4	4	6	10	-	4.53	4.53	6.79	11.32	-	12	12	80	176,731	1	2
LOUISIANA-----	-	-	-	6	6	6	3	9	-	5.78	5.78	2.89	8.68	-	106	106	101	207,441	9	-
MISSOURI-----	-	-	-	-	-	-	3	3	-	-	-	16.34	16.34	-	-	-	30	36,724	2	2
NEVADA-----	-	-	-	1	1	1	-	1	-	2.96	2.96	-	2.96	-	6	6	33	67,472	3	1
NEW YORK-----	-	-	-	3	3	3	-	3	-	17.03	17.03	-	17.03	-	97	97	21	35,228	1	-
OKLAHOMA-----	-	-	1	1	2	2	2	4	-	34.03	34.03	34.03	68.05	-	1,174	1,174	6	11,756	2	-
TEXAS-----	-	-	-	8	8	8	-	8	-	10.56	10.56	-	10.56	-	292	292	79	151,551	8	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,293	1	-
TOTAL OR AVERAGE----	-	-	1	23	24	24	14	38	-	6.88	6.88	4.01	10.89	-	123	123	357	697,888	29	6

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL					ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
BARITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,288	1	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,404	1	-
CALIFORNIA-----	-	-	-	5	5	5	10	15	4.52	4.52	9.04	13.57	-	-	22	22	102	221,125	3	2
GEORGIA-----	-	-	-	-	6	6	3	9	5.78	5.78	2.89	8.68	-	-	106	106	101	207,441	9	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	44,892	4	2
MISSOURI-----	-	-	-	1	1	1	-	1	2.29	2.29	-	2.29	-	-	5	5	43	87,295	5	1
NEVADA-----	-	-	-	3	3	3	-	3	17.03	17.03	-	17.03	-	-	97	97	21	35,228	1	-
NEW YORK-----	-	-	1	1	2	2	2	4	34.03	34.03	34.03	68.05	-	-	1,174	1,174	6	11,756	2	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,129	2	-
TENNESSEE-----	-	-	-	8	8	8	-	8	10.36	10.36	-	10.36	-	-	286	286	85	154,431	9	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,293	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	24	25	25	18	43	6.42	6.42	4.62	11.04	-	-	114	114	409	779,282	38	6
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	35,604	-	3
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	56,987	-	8
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,569	-	3
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	23,540	-	3
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,863	-	1
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,168	-	2
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	47,115	-	8
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	183,846	-	28
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,288	1	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,404	1	-
CALIFORNIA-----	-	-	-	5	5	5	10	15	3.90	3.90	7.79	11.69	-	-	19	19	121	256,729	3	5
GEORGIA-----	-	-	-	6	6	6	3	9	4.54	4.54	2.27	6.81	-	-	83	83	129	264,428	9	8
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	52,461	4	5
MISSOURI-----	-	-	-	1	1	1	-	1	1.80	1.80	-	1.80	-	-	4	4	55	110,835	5	4
NEVADA-----	-	-	-	3	3	3	-	3	14.25	14.25	-	14.25	-	-	81	81	25	42,091	1	1
NEW YORK-----	-	-	-	1	2	2	2	4	22.32	22.32	22.32	44.63	-	-	770	770	9	17,924	2	2
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,129	2	-
TENNESSEE-----	-	-	-	8	8	8	-	8	7.94	7.94	-	7.94	-	-	219	219	118	201,546	9	9
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,293	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	24	25	25	18	43	5.19	5.19	3.74	8.93	-	-	92	92	513	963,128	38	34
BORON:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10,697	2	-
UNDERGROUND MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10,697	2	-
UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10,697	2	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES												
		PERMANENT		TEMPO- RARY	TOTAL NFDL				FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PARTIAL																	
BORON-CONTINUED: SURFACE AT UNDERGROUND: CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,091	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,091	-	1
TOTAL OR AVERAGE, UG: CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12,788	2	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12,788	2	1
SURFACE MINES: OPEN PIT: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	1.72	1.72	-	1.72	-	80	80	164	349,359	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	1.72	1.72	-	1.72	-	80	80	164	349,359	1	-
TOTAL OR AVERAGE, SURFACE: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	1.72	1.72	-	1.72	-	80	80	164	349,359	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	1.72	1.72	-	1.72	-	80	80	164	349,359	1	-
TOTAL OR AVERAGE, MINING: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	1.66	1.66	-	1.66	-	77	77	172	362,147	3	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	1.66	1.66	-	1.66	-	77	77	172	362,147	3	1
PROCESSING PLANTS: CALIFORNIA-----	-	-	-	9	9	9	7	16	-	1.94	1.94	1.51	3.45	-	95	95	519	926,430	-	1
NEVADA-----	-	-	-	1	1	1	-	1	-	5.71	5.71	-	5.71	-	46	46	22	34,997	1	-
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	20.45	20.45	12.27	32.71	-	139	139	24	48,910	1	-
TOTAL OR AVERAGE----	-	-	-	15	15	15	10	25	-	2.97	2.97	1.98	4.95	-	95	95	565	1,010,337	2	1
TOTAL OR AVERAGE, ALL MINES AND PLANTS: CALIFORNIA-----	-	-	-	12	12	12	7	19	-	1.86	1.86	1.09	2.95	-	90	90	691	1,288,577	3	2
NEVADA-----	-	-	-	1	1	1	-	1	-	5.71	5.71	-	5.71	-	46	46	22	34,997	1	-
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	20.45	20.45	12.27	32.71	-	139	139	24	48,910	1	-
TOTAL OR AVERAGE----	-	-	-	18	18	18	10	28	-	2.62	2.62	1.46	4.08	-	90	90	737	1,372,484	5	2

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
BORON-CONTINUED: OFFICE:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	215	435,619	-	2
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,833	-	1
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,320	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	223	451,772	-	4
GRAND TOTAL OR AVERAGE:																				
CALIFORNIA-----	-	-	-	12	12	12	7	19	-	1.39	1.39	.81	2.20	-	67	67	906	1,724,196	3	4
NEVADA-----	-	-	-	1	1	1	-	1	-	4.67	4.67	-	4.67	-	37	37	26	42,830	1	1
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	17.47	17.47	10.48	27.96	-	119	119	28	57,230	1	1
TOTAL OR AVERAGE----	-	-	-	18	18	18	10	28	-	1.97	1.97	1.10	3.07	-	68	68	960	1,824,256	5	6
CLAY:																				
UNDERGROUND MINES:																				
UNDERGROUND:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,720	1	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	365	1	-
OHIO-----	-	-	-	2	2	2	-	2	-	35.61	35.61	-	35.61	-	445	445	6	11,232	1	-
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	28.38	28.38	28.38	56.76	-	28	28	7	7,047	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	340	2	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	24.29	24.29	8.10	32.38	-	210	210	22	24,704	6	-
SURFACE AT UNDERGROUND:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,171	-	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,910	-	1
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,867	-	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	512	-	2
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,460	-	5
TOTAL OR AVERAGE, UG:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,891	1	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,275	1	1
OHIO-----	-	-	-	2	2	2	-	2	-	35.61	35.61	-	35.61	-	445	445	6	11,232	1	-
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	20.17	20.17	20.17	40.35	-	20	20	9	9,914	1	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	852	2	2
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	19.25	19.25	6.42	25.67	-	167	167	29	31,164	6	5

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
CLAY-CONTINUED: SURFACE MINES: OPEN PIT:	-	-	-	4	4	4	1	5	-	5.89	5.89	1.47	7.36	-	37	37	90	135,908	19	-
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	19,352	2	-
ARIZONA-----	-	-	-	1	1	1	1	2	-	5.14	5.14	5.14	10.29	-	5	5	25	38,877	7	-
ARKANSAS-----	-	-	-	6	6	6	-	6	-	9.13	9.13	-	9.13	-	88	88	98	131,437	14	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	16,042	18	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,519	2	-
CONNECTICUT-----	-	-	-	1	1	1	2	3	-	1.82	1.82	3.64	5.46	-	156	156	64	109,960	2	-
FLORIDA-----	-	-	-	16	16	16	30	46	-	1.92	1.92	3.61	5.53	-	34	34	804	1,664,324	34	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	18,534	6	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,173	3	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,551	1	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3,551	1	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	24,112	7	-
KENTUCKY-----	-	-	-	3	3	3	1	4	-	5.06	5.06	1.69	6.75	-	25	25	70	118,586	8	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22,290	6	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,848	2	-
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,395	2	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,468	2	-
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	106	164,847	17	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	10.46	10.46	3.49	13.94	-	77	77	40	57,388	12	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	1,870	2	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12,289	3	-
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	88,792	17	-
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	1.86	1.86	-	-	-	60	107,600	8	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	19,880	7	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,486	2	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	38,114	10	-
SOUTH CAROLINA-----	-	-	-	6	6	6	6	12	-	5.37	5.37	5.37	10.73	-	23	23	116	223,652	18	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	26,374	1	-
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	1.79	1.79	-	-	-	116	224,073	16	-
TEXAS-----	-	-	1	2	3	3	4	7	-	3.31	3.31	4.41	7.72	-	456	456	100	181,383	27	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8,398	3	-
VIRGINIA-----	-	-	1	1	2	2	-	2	-	12.08	12.08	-	12.08	-	344	344	23	33,107	6	-
WASHINGTON-----	-	-	-	1	1	1	-	1	-	15.88	15.88	-	15.88	-	460	460	27	12,596	4	-
WEST VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	-
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	2.18	2.18	-	-	-	107	183,782	6	-
TOTAL OR AVERAGE----	-	-	2	44	46	46	53	99	-	2.45	2.45	2.82	5.27	-	54	54	2,196	3,758,446	297	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES													
		PERMANENT		TEMPO- RARY				TOTAL NFDL												
		TOTAL	PARTIAL																	
CLAY-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	-	4	4	4	1	5	-	5.89	5.89	1.47	7.36	-	37	37	90	135,908	19	-
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	19,352	2	-
ARIZONA-----	-	-	-	1	1	1	1	2	-	5.14	5.14	5.14	10.29	-	5	5	25	38,877	7	-
ARKANSAS-----	-	-	-	6	6	6	-	6	-	9.13	9.13	-	9.13	-	88	88	98	131,437	14	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	16,042	18	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,519	2	-
CONNECTICUT-----	-	-	-	1	1	1	2	3	-	1.82	1.82	3.64	5.46	-	156	156	64	109,960	2	-
FLORIDA-----	-	-	-	16	16	16	30	46	-	1.92	1.92	3.61	5.53	-	34	34	804	1,664,324	34	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	18,534	6	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,173	3	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3,551	1	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	24,112	7	-
KANSAS-----	-	-	-	3	3	3	1	4	-	5.06	5.06	1.69	6.75	-	25	25	70	118,586	8	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22,290	6	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,848	2	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,395	2	-
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,468	2	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	164,847	17	-
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	40	57,388	12	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	10.46	10.46	3.49	13.94	-	77	77	12	1,870	2	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12,289	3	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	88,792	17	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	1.86	1.86	-	-	-	60	107,600	8	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	19,880	7	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,486	2	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	38,114	10	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	223,652	18	-
SOUTH CAROLINA-----	-	-	-	6	6	6	6	12	-	5.37	5.37	5.37	10.73	-	23	23	31	26,374	1	-
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	1.79	1.79	-	-	-	9	8,398	3	-
TENNESSEE-----	-	-	1	2	3	3	4	7	-	3.31	3.31	4.41	7.72	-	456	456	100	181,383	27	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	33,107	6	-
UTAH-----	-	-	1	1	2	2	-	2	-	12.08	12.08	-	12.08	-	344	344	27	12,596	4	-
VIRGINIA-----	-	-	-	1	1	1	-	1	-	15.88	15.88	-	15.88	-	460	460	2	4,316	1	-
WASHINGTON-----	-	-	-	-	-	-	2	2	-	-	-	2.18	2.18	-	-	-	107	183,782	6	-
WEST VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	44	46	46	53	99	-	2.45	2.45	2.82	5.27	-	54	54	2,196	3,758,446	297	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES													
		PERMANENT		TEMPO- RARY				TOTAL NFDL												
		TOTAL	PARTIAL																	
CLAY-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	4	4	4	1	5	-	5.89	5.89	1.47	7.36	-	37	37	90	135,908	19	-
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	19,352	2	-
ARIZONA-----	-	-	-	1	1	1	1	2	-	5.14	5.14	5.14	10.29	-	5	5	25	38,877	7	-
ARKANSAS-----	-	-	-	6	6	6	-	6	-	8.68	8.68	-	8.68	-	84	84	102	138,328	15	1
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	16,042	18	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,519	2	-
CONNECTICUT-----	-	-	-	1	1	1	2	3	-	1.82	1.82	3.64	5.46	-	156	156	64	109,960	2	-
FLORIDA-----	-	-	-	16	16	16	30	46	-	1.92	1.92	3.61	5.53	-	34	34	804	1,664,324	34	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	18,534	6	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,173	3	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3,551	1	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	24,112	7	-
KANSAS-----	-	-	-	3	3	3	1	4	-	5.06	5.06	1.69	6.75	-	25	25	70	118,586	8	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22,290	6	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,848	2	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,395	2	-
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,468	2	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MINNESOTA-----	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	106	164,847	17	-
MISSISSIPPI-----	-	-	-	3	3	3	1	4	-	10.46	10.46	3.49	13.94	-	77	77	40	57,388	12	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	1,870	2	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	14,564	4	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	88,792	17	-
NORTH CAROLINA-----	-	-	-	2	2	2	1	3	-	3.37	3.37	1.68	5.05	-	42	42	66	118,832	9	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	19,880	7	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,486	2	-
OREGON-----	-	-	-	1	1	1	1	2	-	4.16	4.16	4.16	8.33	-	4	4	36	48,028	11	1
PENNSYLVANIA-----	-	-	-	6	6	6	6	12	-	5.37	5.37	5.37	10.73	-	23	23	116	223,652	18	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	26,374	1	-
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	1.79	1.79	-	-	-	116	224,073	16	-
TENNESSEE-----	-	-	1	2	3	3	4	7	-	3.31	3.31	4.41	7.72	-	456	456	100	181,383	27	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	9,250	5	2
UTAH-----	-	-	-	1	2	2	-	2	-	12.08	12.08	-	12.08	-	344	344	23	33,107	6	-
VIRGINIA-----	-	-	1	1	1	1	-	1	-	15.88	15.88	-	15.88	-	460	460	27	12,596	4	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	-
WEST VIRGINIA-----	-	-	-	-	-	-	2	2	-	-	-	2.18	2.18	-	-	-	107	183,782	6	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	2	47	49	49	54	103	-	2.59	2.59	2.85	5.44	-	55	55	2,225	3,789,610	303	5

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
CLAY-CONTINUED: PROCESSING PLANTS:	-	-	-	13	13	13	3	16	-	4.39	4.39	1.01	5.40	-	110	110	285	592,349	4	8
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	85,457	1	3
ARKANSAS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	10	11	11	12	23	-	4.23	4.23	4.62	8.85	-	235	235	272	519,600	4	5
FLORIDA-----	-	-	-	4	4	4	2	6	-	1.87	1.87	.93	2.80	-	58	58	232	428,028	2	-
GEORGIA-----	-	-	2	153	155	155	177	332	-	3.47	3.47	3.96	7.44	-	56	56	3,936	8,929,997	14	18
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,075	1	-
ILLINOIS-----	-	-	-	37	37	37	5	42	-	23.22	23.22	3.14	26.35	-	750	750	162	318,738	2	3
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,564	-	1
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,701	1	1
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	27,573	-	4
KENTUCKY-----	-	-	-	5	5	5	2	7	-	8.32	8.32	3.33	11.65	-	243	243	52	120,220	1	2
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	92,290	-	3
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	10,824	-	1
MISSISSIPPI-----	-	-	-	6	6	6	19	25	-	1.55	1.55	4.92	6.47	-	10	10	362	772,866	4	7
MISSOURI-----	-	-	-	6	6	6	2	8	-	3.47	3.47	1.16	4.63	-	51	51	163	345,633	4	1
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,900	1	-
NEVADA-----	-	-	-	8	8	8	-	8	-	17.72	17.72	-	17.72	-	100	100	48	90,280	-	2
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,120	1	-
NORTH CAROLINA-----	-	-	-	1	1	1	2	3	-	2.60	2.60	5.20	7.80	-	52	52	35	76,952	2	1
OHIO-----	-	-	-	2	2	2	1	3	-	5.39	5.39	2.70	8.09	-	200	200	31	74,172	-	3
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	13,869	1	1
PENNSYLVANIA-----	-	-	-	1	1	1	-	1	-	9.96	9.96	-	9.96	-	80	80	11	20,084	-	1
SOUTH CAROLINA-----	-	-	-	7	7	7	7	14	-	3.23	3.23	3.23	6.46	-	53	53	206	433,421	-	7
SOUTH DAKOTA-----	-	-	1	-	1	1	-	1	-	1.59	1.59	-	1.59	-	699	699	59	125,805	1	-
TENNESSEE-----	-	-	1	29	30	30	15	45	-	8.98	8.98	4.49	13.47	-	116	116	344	668,156	4	8
TEXAS-----	-	-	1	11	12	12	7	19	-	4.70	4.70	2.74	7.45	-	174	174	229	510,345	4	8
UTAH-----	-	-	-	3	3	3	2	5	-	11.43	11.43	7.62	19.05	-	27	27	20	52,493	-	1
VIRGINIA-----	-	-	-	6	6	6	-	6	-	6.71	6.71	-	6.71	-	48	48	87	178,826	1	2
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,360	-	1
WISCONSIN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	18,027	1	-
WYOMING-----	-	-	-	17	17	17	16	33	-	5.66	5.66	5.33	10.99	-	249	249	289	600,805	12	-
TOTAL OR AVERAGE----	-	-	6	319	325	325	272	597	-	4.29	4.29	3.59	7.89	-	97	97	6,988	15,140,530	66	92

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERATIONS	ASSO- CIATED WORK LOCA- TION		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL						
		PERMANENT		TEMPO- RARY																TOTAL NFDL	
		TOTAL	PARTIAL																		
CLAY-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	17	17	17	4	21	-	4.67	4.67	1.10	5.77	-	96	96	375	728,257	23	8	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	19,352	2	-	
ARIZONA-----	-	-	-	1	1	1	1	2	-	1.61	1.61	1.61	3.22	-	2	2	61	124,334	8	3	
ARKANSAS-----	-	-	1	16	17	17	12	29	-	5.17	5.17	3.65	8.82	-	203	203	374	657,928	19	6	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	16,042	18	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,519	2	-	
CONNECTICUT-----	-	-	-	5	5	5	4	9	-	1.86	1.86	1.49	3.35	-	78	78	296	537,988	4	-	
FLORIDA-----	-	-	2	169	171	171	207	378	-	3.23	3.23	3.91	7.14	-	52	52	4,740	10,594,321	48	18	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,075	1	-	
IDAHO-----	-	-	-	37	37	37	5	42	-	21.94	21.94	2.96	24.91	-	709	709	176	337,272	8	3	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	26,737	3	1	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	14,252	2	1	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	51,685	7	4	
KANSAS-----	-	-	-	8	8	8	3	11	-	6.70	6.70	2.51	9.21	-	135	135	122	238,806	9	2	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	114,580	6	3	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,848	2	-	
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,395	2	-	
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	20,292	2	1	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-	
MINNESOTA-----	-	-	-	6	6	6	21	27	-	1.28	1.28	4.48	5.76	-	8	8	468	937,713	21	7	
MISSISSIPPI-----	-	-	-	9	9	9	3	12	-	4.47	4.47	1.49	5.96	-	55	55	203	403,021	16	1	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	1,870	2	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,900	1	-	
NEBRASKA-----	-	-	-	8	8	8	-	8	-	15.26	15.26	-	15.26	-	86	86	60	104,844	4	3	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-	
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,120	1	-	
NEW MEXICO-----	-	-	-	1	1	1	2	3	-	1.21	1.21	2.41	3.62	-	24	24	114	165,744	19	1	
NEW YORK-----	-	-	-	4	4	4	2	6	-	4.14	4.14	2.07	6.22	-	103	103	97	193,004	9	3	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	33,749	8	1	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,486	2	-	
OKLAHOMA-----	-	-	-	2	2	2	1	3	-	5.87	5.87	2.94	8.81	-	26	26	47	68,112	11	2	
OREGON-----	-	-	-	13	13	13	13	26	-	3.96	3.96	3.96	7.91	-	43	43	322	657,073	18	7	
PENNSYLVANIA-----	-	-	1	-	1	1	-	1	-	1.31	1.31	-	1.31	-	578	578	90	152,179	2	-	
SOUTH CAROLINA-----	-	-	-	29	30	30	17	47	-	6.72	6.72	3.81	10.54	-	87	87	460	892,229	20	8	
SOUTH DAKOTA-----	-	-	2	13	15	15	11	26	-	4.34	4.34	3.18	7.52	-	248	248	329	691,728	31	8	
TENNESSEE-----	-	-	-	3	3	3	2	5	-	9.72	9.72	6.48	16.20	-	23	23	36	61,743	5	3	
TEXAS-----	-	-	1	7	8	8	-	8	-	7.55	7.55	-	7.55	-	94	94	110	211,933	7	2	
UTAH-----	-	-	-	1	1	1	-	1	-	11.80	11.80	-	11.80	-	342	342	29	16,956	4	1	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	18,027	1	-	
WEST VIRGINIA-----	-	-	-	17	17	17	18	35	-	4.33	4.33	4.59	8.92	-	190	190	396	784,587	18	-	
WISCONSIN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	8	366	374	374	326	700	-	3.95	3.95	3.44	7.40	-	89	89	9,213	18,930,140	369	97	

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TYPE OF MINERAL WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCATION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
CLAY-CONTINUED: OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	96,095	-	17	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,695	-	1	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	25,231	-	3	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	141,462	-	16	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1,721	1	5	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	132	-	1	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	114,990	-	2	
FLORIDA-----	-	-	-	2	2	2	2	-	.26	.26	-	.26	-	1	1	747	1,554,138	-	30	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,048	-	1	
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	6.84	6.84	-	-	-	19	29,221	-	6	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	412	-	2	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,281	2	1	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,080	-	1	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	66,663	-	6	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	16,001	1	5	
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	39	-	2	
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	32	-	1	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,136	-	1	
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	340	-	1	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	125,502	-	14	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	42,341	-	10	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	118	-	2	
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	80	-	1	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,251	-	3	
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	1	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,080	-	1	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	8,397	-	15	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	23,713	-	5	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4,806	-	5	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	754	-	1	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9,997	-	5	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67	118,356	1	15	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,980	-	2	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	100,376	-	10	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103	192,666	1	22	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,728	-	1	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	45,998	-	6	
WEST VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,472	-	1	
WISCONSIN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,764	-	1	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	109,335	-	14	
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	.14	.14	.07	.21	-	(*)	(*)	1,482	2,881,435	6	237

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																
		TOTAL	PARTIAL		TOTAL NFDL															
CLAY-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	17	17	17	4	21	-	4.12	4.12	.97	5.09	-	85	85	425	824,352	23	25
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	21,047	2	1
ARIZONA-----	-	-	-	1	1	1	1	2	-	1.34	1.34	1.34	2.67	-	1	1	73	149,565	8	6
ARKANSAS-----	-	-	1	16	17	17	12	29	-	4.25	4.25	3.00	7.26	-	167	167	453	799,390	19	22
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	17,763	19	5
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	12,651	2	1
CONNECTICUT-----	-	-	-	5	5	5	4	9	-	1.53	1.53	1.23	2.76	-	65	65	340	652,978	4	2
FLORIDA-----	-	-	2	171	173	173	207	380	-	2.85	2.85	3.41	6.26	-	46	46	5,487	12,148,459	48	48
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,123	1	1
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195	366,493	8	9
ILLINOIS-----	-	-	-	37	37	37	6	43	-	20.19	20.19	3.27	23.47	-	652	652	17	27,149	3	3
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	18,533	4	2
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	55,765	7	5
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	18,533	4	2
KENTUCKY-----	-	-	-	8	8	8	3	11	-	5.24	5.24	1.96	7.20	-	105	105	42	55,765	7	5
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156	305,469	9	8
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	130,581	7	8
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3,887	2	2
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6,427	2	1
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,428	2	2
MISSISSIPPI-----	-	-	-	6	6	6	21	27	-	-	-	-	-	-	-	-	6	3,040	1	1
MISSOURI-----	-	-	-	9	9	9	3	12	-	1.13	1.13	3.95	5.08	-	7	7	530	1,063,215	21	21
MONTANA-----	-	-	-	-	-	-	-	-	-	4.04	4.04	1.35	5.39	-	50	50	232	445,362	16	11
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	1,988	2	2
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	3,980	1	1
NEW HAMPSHIRE-----	-	-	-	8	8	8	-	8	-	13.43	13.43	-	13.43	-	76	76	70	119,095	4	6
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4,427	1	1
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10,200	1	1
OHIO-----	-	-	-	1	1	1	2	3	-	1.15	1.15	2.30	3.45	-	23	23	131	174,141	19	16
OKLAHOMA-----	-	-	-	4	4	4	2	6	-	3.69	3.69	1.85	5.54	-	91	91	110	216,717	9	8
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	38,555	8	6
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4,240	2	1
SOUTH CAROLINA-----	-	-	-	2	2	2	1	3	-	5.12	5.12	2.56	7.68	-	23	23	55	78,109	11	7
SOUTH DAKOTA-----	-	-	-	13	13	13	13	26	-	3.35	3.35	3.35	6.71	-	36	36	389	775,429	19	22
TENNESSEE-----	-	-	1	-	1	1	-	1	-	1.25	1.25	-	1.25	-	549	549	95	160,159	2	2
TEXAS-----	-	-	1	29	30	30	17	47	-	6.04	6.04	3.43	9.47	-	78	78	509	992,605	20	18
UTAH-----	-	-	2	13	15	15	11	26	-	3.39	3.39	2.49	5.88	-	194	194	432	884,394	32	30
VIRGINIA-----	-	-	-	3	3	3	2	5	-	9.16	9.16	6.11	15.27	-	21	21	38	65,471	5	4
WASHINGTON-----	-	-	1	7	8	8	-	8	-	6.20	6.20	-	6.20	-	78	78	134	257,931	7	8
WEST VIRGINIA-----	-	-	-	1	1	1	-	1	-	11.80	11.80	-	11.80	-	342	342	29	16,956	4	1
WISCONSIN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,788	1	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	19,791	1	1
TOTAL OR AVERAGE----	-	-	8	368	376	376	327	703	-	3.80	3.80	4.03	7.83	-	167	167	449	893,922	18	14
TOTAL OR AVERAGE----	-	-	8	368	376	376	327	703	-	3.45	3.45	3.00	6.45	-	77	77	10,695	21,811,575	375	334

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPORARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
FELDSPAR: SURFACE MINES: OPEN PIT: CONNECTICUT----- GEORGIA----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - - - -	- - - - - - -	- 1 - - - -	1 - 2 - - -	1 1 2 - -	1 1 2 - -	- 1 5 - -	1 2 7 - -	- - - - - -	11.60 9.19 4.93 - -	11.60 9.19 4.93 - -	- 9.19 4.93 - -	11.60 18.38 17.27 - -	- - - - -	35 460 69 - -	35 460 69 - -	8 9 34 18 -	17,244 21,760 81,088 8,435 -	2 3 4 5 -	- - - - -
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	6.22	6.22	9.34	15.56	-	126	126	69	128,527	14	-
TOTAL OR AVERAGE, SURFACE: CONNECTICUT----- GEORGIA----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- 1 - - -	1 - 2 - -	1 1 2 - -	1 1 2 - -	- 1 5 - -	1 2 7 - -	- - - -	11.60 9.19 4.93 - -	11.60 9.19 4.93 - -	- 9.19 4.93 - -	11.60 18.38 17.27 - -	- - - -	35 460 69 - -	35 460 69 - -	8 9 34 18 -	17,244 21,760 81,088 8,435 -	2 3 4 5 -	- - - - -
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	6.22	6.22	9.34	15.56	-	126	126	69	128,527	14	-
TOTAL OR AVERAGE, MINING: CONNECTICUT----- GEORGIA----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- 1 - - -	1 - 2 - -	1 1 2 - -	1 1 2 - -	- 1 5 - -	1 2 7 - -	- - - -	11.60 9.19 4.93 - -	11.60 9.19 4.93 - -	- 9.19 4.93 - -	11.60 18.38 17.27 - -	- - - -	35 460 69 - -	35 460 69 - -	8 9 34 18 -	17,244 21,760 81,088 8,435 -	2 3 4 5 -	- - - - -
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	6.22	6.22	9.34	15.56	-	126	126	69	128,527	14	-
PROCESSING PLANTS: CALIFORNIA----- CONNECTICUT----- GEORGIA----- NORTH CAROLINA----- SOUTH CAROLINA----- SOUTH DAKOTA----- TEXAS----- TOTAL OR AVERAGE----	- - - - - - -	- - - - - - -	- 1 - 1 - - -	2 4 2 11 - - 1	2 5 2 12 - - 1	2 5 2 12 - - 1	- - - 21 - - 2	2 5 3 33 1 2 1	- - - - -	33.23 21.22 4.99 4.64 - - 5.70	33.23 21.22 4.99 4.64 - - 5.70	- - 2.50 8.12 - - -	33.23 21.22 7.49 12.76 9.40 20.73 5.70	- - - - -	349 930 72 87 - - 11	349 930 72 87 - - 11	6 21 36 226 14 12 15	12,036 47,117 80,139 517,372 21,275 19,297 35,061	1 - 1 5 1 1 1	- 1 2 1 - - -
TOTAL OR AVERAGE----	-	-	2	20	22	22	25	47	-	6.01	6.01	6.83	12.84	-	135	135	330	732,297	10	4
TOTAL OR AVERAGE, ALL MINES AND PLANTS: CALIFORNIA----- CONNECTICUT----- GEORGIA----- NORTH CAROLINA----- SOUTH CAROLINA----- SOUTH DAKOTA----- TEXAS----- TOTAL OR AVERAGE----	- - - - - - -	- - - - - - -	- 1 - 1 - - -	2 5 2 13 - - 1	2 6 3 14 - - 1	2 6 3 14 - - 1	- - - 26 - - -	2 6 5 40 1 2 1	- - - - -	33.23 18.64 5.89 4.68 - - 5.70	33.23 18.64 5.89 4.68 - - 5.70	- - 3.93 8.69 - - -	33.23 18.64 9.81 13.37 9.40 14.42 5.70	- - - - -	349 690 155 84 - - 11	349 690 155 84 - - 11	6 29 45 260 14 30 15	12,036 64,361 101,899 598,460 21,275 27,732 35,061	1 2 4 9 1 6 1	- 1 2 1 - - -
TOTAL OR AVERAGE----	-	-	3	23	26	26	31	57	-	6.04	6.04	7.20	13.24	-	134	134	399	860,824	24	4

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
FELDSPAR-CONTINUED: OFFICE:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,766	-	1
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,073	-	1
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	14,191	-	4
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67	147,114	-	4
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,528	-	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,776	-	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,744	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	188,192	-	13
GRAND TOTAL OR AVERAGE:																				
CALIFORNIA-----	-	-	-	2	2	2	-	2	-	28.98	28.98	-	28.98	-	304	304	7	13,802	1	1
CONNECTICUT-----	-	-	1	5	6	6	-	6	-	15.70	15.70	-	15.70	-	581	581	35	76,434	2	2
GEORGIA-----	-	-	1	2	3	3	2	5	-	5.17	5.17	3.45	8.61	-	136	136	53	116,090	4	6
NORTH CAROLINA-----	-	-	1	13	14	14	26	40	-	3.76	3.76	6.97	10.73	-	68	68	327	745,574	9	5
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	6.94	6.94	-	-	-	19	28,803	1	1
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	13.11	13.11	-	-	-	32	30,508	6	1
TEXAS-----	-	-	-	1	1	1	-	1	-	5.29	5.29	-	5.29	-	11	11	17	37,805	1	1
TOTAL OR AVERAGE----	-	-	3	23	26	26	31	57	-	4.96	4.96	5.91	10.87	-	110	110	490	1,049,016	24	17
FLUORSPAR: UNDERGROUND MINES:																				
UNDERGROUND:																				
ILLINOIS-----	-	-	-	3	3	3	4	7	-	8.21	8.21	10.94	19.15	-	183	183	39	73,120	3	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,632	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	7.82	7.82	10.42	18.24	-	175	175	41	76,752	4	-
SURFACE AT UNDERGROUND:																				
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,667	1	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	19,387	-	3
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,968	-	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	28,502	2	4
TOTAL OR AVERAGE, UG:																				
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,667	1	-
ILLINOIS-----	-	-	-	3	3	3	4	7	-	6.49	6.49	8.65	15.13	-	145	145	49	92,507	3	3
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,600	1	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	5.70	5.70	7.60	13.30	-	127	127	61	105,254	6	4

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES												
		PERMANENT		TEMPO- RARY	TOTAL NFDL				FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PARTIAL																	
FLUORSPAR-CONTINUED:																				
SURFACE MINES:																				
OPEN PIT:																				
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
TOTAL OR AVERAGE, SURFACE:																				
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
TOTAL OR AVERAGE, MINING:																				
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,667	1	-
ILLINOIS-----	-	-	-	3	3	3	4	7	-	6.49	6.49	8.65	15.13	-	145	145	49	92,507	3	3
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,600	1	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	5.34	5.34	7.11	12.45	-	119	119	68	112,456	8	4
PROCESSING PLANTS:																				
ILLINOIS-----	-	-	-	3	3	3	14	17	-	4.22	4.22	19.71	23.93	-	221	221	56	142,085	3	-
KENTUCKY-----	-	-	-	1	1	1	1	2	-	10.29	10.29	10.29	20.58	-	803	803	16	19,436	1	-
TEXAS-----	-	-	-	1	1	1	-	1	-	16.62	16.62	-	16.62	-	150	150	6	12,032	1	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	15	20	-	5.76	5.76	17.29	23.05	-	281	281	78	173,553	5	-
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																				
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,667	1	-
ILLINOIS-----	-	-	-	6	6	6	18	24	-	5.12	5.12	15.35	20.46	-	191	191	105	234,592	6	3
KENTUCKY-----	-	-	-	1	1	1	1	2	-	10.29	10.29	10.29	20.58	-	803	803	16	19,436	1	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,600	1	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
TEXAS-----	-	-	-	1	1	1	-	1	-	16.62	16.62	-	16.62	-	150	150	6	12,032	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	1	-
TOTAL OR AVERAGE----	-	-	-	8	8	8	19	27	-	5.59	5.59	13.29	18.88	-	217	217	146	286,009	13	4
OFFICE:																				
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	520	-	1
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	46,554	-	2
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,055	-	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,018	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	54,147	-	5

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
FLUORSPAR-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7,187	1	1	
IDAHO-----	-	-	-	6	6	6	18	24	-	4.27	4.27	12.80	17.07	-	159	159	129	281,146	6	5
ILLINOIS-----	-	-	-	1	1	1	1	2	-	8.89	8.89	8.89	17.78	-	694	694	19	22,491	1	1
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,600	1	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,202	2	-
SOUTH DAKOTA-----	-	-	-	1	1	1	-	1	-	12.46	12.46	-	12.46	-	112	112	8	16,050	1	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	8	8	8	19	27	-	4.70	4.70	11.17	15.88	-	183	183	176	340,156	13	9
GEMSTONES: UNDERGROUND MINES: UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,290	1	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,880	1	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5,170	2	-
SURFACE AT UNDERGROUND: MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4,800	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4,800	-	1
TOTAL OR AVERAGE, UG: CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,290	1	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,680	1	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	9,970	2	1
SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,128	1	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	300	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	850	1	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	1	1	1	-	1	-	84.60	84.60	-	84.60	-	1,692	1,692	4	2,364	2	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	7.24	7.24	-	7.24	-	145	145	19	27,642	5	-
TOTAL OR AVERAGE, SURFACE: ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,128	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	300	1	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	850	1	-
MONTANA-----	-	-	-	1	1	1	-	1	-	84.60	84.60	-	84.60	-	1,692	1,692	4	2,364	2	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	7.24	7.24	-	7.24	-	145	145	19	27,642	5	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
GEMSTONES-CONTINUED: TOTAL OR AVERAGE, MINING:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,128	1	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,290	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	300	1	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	850	1	-
MONTANA-----	-	-	-	1	1	1	-	1	-	19.91	19.91	-	19.91	-	398	398	9	10,044	3	1
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	5.32	5.32	-	5.32	-	106	106	26	37,612	7	1
PROCESSING PLANTS:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10,560	-	1
MONTANA-----	-	-	-	1	1	1	-	1	-	99.99	99.99	-	99.99	-	5,936	5,936	1	438	-	1
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	18.19	18.19	-	18.19	-	236	236	6	10,998	-	2
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	34,688	1	1
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,290	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	300	1	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	850	1	-
MONTANA-----	-	-	-	2	2	2	-	2	-	38.16	38.16	-	38.16	-	630	630	10	10,482	3	2
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	8.23	8.23	-	8.23	-	136	136	32	48,610	7	3
OFFICE:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,064	-	1
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,984	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	240	-	1
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	380	-	1
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,130	-	2
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	19,798	1	5
GRAND TOTAL OR AVERAGE:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	42,752	1	2
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,290	1	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,984	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	540	1	1
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,230	1	1
MONTANA-----	-	-	-	2	2	2	-	2	-	34.45	34.45	-	34.45	-	568	568	13	11,612	3	4
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	5.85	5.85	-	5.85	-	96	96	46	68,408	8	8

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES												
		PERMANENT		TEMPO- RARY	TOTAL NFDL				FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PARTIAL																	
GILSONITE: UNDERGROUND MINES: UNDERGROUND: UTAH-----	-	-	-	3	3	3	6	9	-	9.30	9.30	18.59	27.89	-	12	12	35	64,534	8	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	9.30	9.30	18.59	27.89	-	12	12	35	64,534	8	-
SURFACE AT UNDERGROUND: UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,100	-	4
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,100	-	4
TOTAL OR AVERAGE, UG: UTAH-----	-	-	-	3	3	3	6	9	-	8.26	8.26	16.52	24.78	-	11	11	39	72,634	8	4
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	8.26	8.26	16.52	24.78	-	11	11	39	72,634	8	4
TOTAL OR AVERAGE, MINING: UTAH-----	-	-	-	3	3	3	6	9	-	8.26	8.26	16.52	24.78	-	11	11	39	72,634	8	4
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	8.26	8.26	16.52	24.78	-	11	11	39	72,634	8	4
INDEPENDENT SHOPS: UTAH-----	-	-	-	-	-	-	2	2	-	-	-	15.43	15.43	-	-	-	13	25,928	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	15.43	15.43	-	-	-	13	25,928	1	-
PROCESSING PLANTS: UTAH-----	-	-	-	6	6	6	4	10	-	20.73	20.73	13.82	34.55	-	2,035	2,035	28	57,884	2	-
TOTAL OR AVERAGE----	-	-	-	6	6	6	4	10	-	20.73	20.73	13.82	34.55	-	2,035	2,035	28	57,884	2	-
TOTAL OR AVERAGE, ALL MINES AND PLANTS: UTAH-----	-	-	-	9	9	9	12	21	-	11.51	11.51	15.34	26.85	-	758	758	80	156,446	11	4
TOTAL OR AVERAGE----	-	-	-	9	9	9	12	21	-	11.51	11.51	15.34	26.85	-	758	758	80	156,446	11	4
OFFICE: UTAH-----	-	-	-	-	-	-	2	2	-	-	-	8.62	8.62	-	-	-	23	46,398	-	3
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	8.62	8.62	-	-	-	23	46,398	-	3

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
GILSONITE-CONTINUED: GRAND TOTAL OR AVERAGE: UTAH-----	-	-	-	9	9	9	14	23	-	8.87	8.87	13.80	22.68	-	585	585	103	202,844	11	7
TOTAL OR AVERAGE----	-	-	-	9	9	9	14	23	-	8.87	8.87	13.80	22.68	-	585	585	103	202,844	11	7
GYPSUM: UNDERGROUND MINES: UNDERGROUND:																				
INDIANA-----	-	-	-	2	2	2	2	4	-	2.56	2.56	2.56	5.13	-	206	206	66	155,994	2	-
IOWA-----	-	-	-	1	1	1	-	1	-	2.81	2.81	-	2.81	-	132	132	32	71,217	1	-
KANSAS-----	-	-	-	1	1	1	1	2	-	3.83	3.83	3.83	7.67	-	119	119	27	52,179	2	-
MICHIGAN-----	-	-	-	1	1	1	-	1	-	4.21	4.21	-	4.21	-	130	130	19	47,539	2	-
NEW YORK-----	-	-	-	2	2	2	2	4	-	2.62	2.62	2.62	5.24	-	46	46	72	152,576	1	-
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.99	1.99	-	1.99	-	14	14	45	100,284	1	-
TOTAL OR AVERAGE----	-	-	-	8	8	8	5	13	-	2.76	2.76	1.72	4.48	-	108	108	261	579,789	9	-
SURFACE AT UNDERGROUND:																				
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	92,065	-	1
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	46,410	-	1
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,480	-	1
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,854	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	145,809	-	4
TOTAL OR AVERAGE, UG:																				
INDIANA-----	-	-	-	2	2	2	2	4	-	1.61	1.61	1.61	3.23	-	130	130	106	248,059	2	1
IOWA-----	-	-	-	1	1	1	-	1	-	1.70	1.70	-	1.70	-	80	80	55	117,627	1	1
KANSAS-----	-	-	-	1	1	1	1	2	-	3.59	3.59	3.59	7.19	-	111	111	29	55,659	2	1
MICHIGAN-----	-	-	-	1	1	1	-	1	-	3.89	3.89	-	3.89	-	121	121	22	51,393	2	1
NEW YORK-----	-	-	-	2	2	2	2	4	-	2.62	2.62	2.62	5.24	-	46	46	72	152,576	1	-
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.99	1.99	-	1.99	-	14	14	45	100,284	1	-
TOTAL OR AVERAGE----	-	-	-	8	8	8	5	13	-	2.21	2.21	1.38	3.58	-	86	86	329	725,598	9	4

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL					ALL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY	TOTAL NFDL																
		TOTAL	PARTIAL																		
GYPSUM-CONTINUED: SURFACE MINES: OPEN PIT:																					
ARIZONA-----	-	-	-	-	1	1	-	2	3	-	2.79	2.79	5.58	8.37	-	64	64	28	43,794	5	-
ARKANSAS-----	-	-	-	1	1	1	-	2	3	-	2.55	2.55	5.09	7.64	-	79	79	37	71,669	2	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	78,563	4	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	26,528	3	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	760	1	-
IOWA-----	-	-	-	1	1	1	-	1	-	-	1.26	1.26	-	1.26	-	21	21	63	158,569	4	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	26,351	1	-
MICHIGAN-----	-	-	1	1	2	2	-	2	-	-	2.14	2.14	-	2.14	-	332	332	80	186,558	3	-
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	-	4.03	4.03	-	-	-	46	99,239	6	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,928	2	-
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	9.07	9.07	-	-	-	10	22,041	1	-
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	-	4.54	4.54	6.06	10.60	-	100	100	131	264,126	13	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11,510	2	-
TEXAS-----	-	-	-	4	4	4	2	6	-	-	4.45	4.45	2.22	6.67	-	158	158	83	179,877	6	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	29,517	3	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	32,325	3	-
TOTAL OR AVERAGE----	-	-	1	14	15	15	17	32	-	-	2.41	2.41	2.73	5.13	-	105	105	601	1,246,355	59	-
TOTAL OR AVERAGE, SURFACE:																					
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	43,794	5	-
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	2.79	2.79	5.58	8.37	-	64	64	37	71,669	2	-
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	-	2.55	2.55	5.09	7.64	-	79	79	38	78,563	4	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	26,528	3	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	760	1	-
IOWA-----	-	-	-	1	1	1	-	1	-	-	1.26	1.26	-	1.26	-	21	21	63	158,569	4	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	26,351	1	-
MICHIGAN-----	-	-	1	1	2	2	-	2	-	-	2.14	2.14	-	2.14	-	332	332	80	186,558	3	-
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	-	4.03	4.03	-	-	-	46	99,239	6	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,928	2	-
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	9.07	9.07	-	-	-	10	22,041	1	-
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	-	4.54	4.54	6.06	10.60	-	100	100	131	264,126	13	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11,510	2	-
TEXAS-----	-	-	-	4	4	4	2	6	-	-	4.45	4.45	2.22	6.67	-	158	158	83	179,877	6	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	29,517	3	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	32,325	3	-
TOTAL OR AVERAGE----	-	-	1	14	15	15	17	32	-	-	2.41	2.41	2.73	5.13	-	105	105	601	1,246,355	59	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
GYPSUM-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	43,794	5	-	
ARIZONA-----	-	-	-	-	1	1	2	3	-	2.79	2.79	5.58	8.37	-	64	64	37	71,669	2	-
ARKANSAS-----	-	-	-	1	1	1	2	3	-	2.55	2.55	5.09	7.64	-	79	79	38	78,563	4	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	26,528	3	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	760	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	2	4	-	1.61	1.61	1.61	3.23	-	130	130	106	248,059	2	1
IOWA-----	-	-	-	2	2	2	-	2	-	1.45	1.45	-	1.45	-	46	46	118	276,196	5	1
KANSAS-----	-	-	-	1	1	1	1	2	-	2.44	2.44	2.44	4.88	-	76	76	44	82,010	3	1
MICHIGAN-----	-	-	1	2	3	3	-	3	-	2.52	2.52	-	2.52	-	287	287	102	237,951	5	1
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	4.03	4.03	-	-	-	46	99,239	6	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,928	2	-
NEW YORK-----	-	-	-	2	2	2	2	4	-	2.62	2.62	2.62	5.24	-	46	46	72	152,576	1	-
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	9.07	9.07	-	-	-	10	22,041	1	-
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	4.54	4.54	6.06	10.60	-	100	100	131	264,126	13	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11,510	2	-
TEXAS-----	-	-	-	4	4	4	2	6	-	4.45	4.45	2.22	6.67	-	158	158	83	179,877	6	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	29,517	3	-
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.99	1.99	-	1.99	-	14	14	45	100,284	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	32,325	3	-
TOTAL OR AVERAGE----	-	-	1	22	23	23	22	45	-	2.33	2.33	2.23	4.56	-	98	98	930	1,971,953	68	4
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,787	-	1
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	17,669	-	1
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,420	-	2
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,706	1	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	40,414	-	2
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	104,461	1	4
IOWA-----	-	-	-	4	4	4	-	4	-	7.66	7.66	-	7.66	-	146	146	12	22,604	-	3
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	68,579	-	2
MICHIGAN-----	-	-	1	-	1	1	-	1	-	2.92	2.92	-	2.92	-	1,167	1,167	18	43,566	1	2
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,780	-	1
NEW YORK-----	-	-	-	-	-	-	1	1	-	-	-	22.78	22.78	-	-	-	12	37,003	-	1
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	5.40	5.40	-	-	-	57	129,536	1	1
OKLAHOMA-----	-	-	-	1	1	1	1	2	-	1.54	1.54	1.54	3.09	-	8	8	34	71,362	-	3
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,596	-	2
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,712	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	120	1	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,661	-	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	5	6	6	3	9	-	2.05	2.05	1.03	3.08	-	164	164	264	584,976	5	27

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
GYPSUM-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	45,581	5	1	
ARIZONA-----	-	-	-	1	1	1	2	3	-	2.24	2.24	4.48	6.72	-	51	51	46	89,338	2	1
ARKANSAS-----	-	-	-	1	1	1	2	3	-	2.20	2.20	4.40	6.59	-	68	68	44	90,983	4	2
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	29,234	4	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	760	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	2	4	-	1.39	1.39	1.39	2.77	-	112	112	124	288,473	2	3
IOWA-----	-	-	-	6	6	6	-	6	-	3.15	3.15	-	3.15	-	74	74	163	380,657	6	5
KANSAS-----	-	-	-	1	1	1	1	2	-	1.91	1.91	1.91	3.82	-	59	59	56	104,614	3	4
MICHIGAN-----	-	-	2	2	4	4	-	4	-	2.61	2.61	-	2.61	-	483	483	132	306,530	5	3
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	2.80	2.80	-	-	-	64	142,805	7	2
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,928	2	-
NEW YORK-----	-	-	-	2	2	2	3	5	-	2.48	2.48	3.72	6.20	-	43	43	76	161,356	1	1
OHIO-----	-	-	-	-	-	-	2	2	-	-	-	6.77	6.77	-	-	-	22	59,044	1	1
OKLAHOMA-----	-	-	-	7	7	7	9	16	-	3.56	3.56	4.57	8.13	-	70	70	188	393,662	14	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11,510	2	-
TEXAS-----	-	-	-	4	4	4	2	6	-	3.18	3.18	1.59	4.78	-	113	113	117	251,239	6	3
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	42,113	3	2
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.85	1.85	-	1.85	-	13	13	50	107,996	1	1
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	120	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	35,986	3	1
TOTAL OR AVERAGE----	-	-	2	27	29	29	25	54	-	2.27	2.27	1.96	4.22	-	113	113	1,194	2,556,929	73	31
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4,156	-	3
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,320	-	1
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	14,769	-	4
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,233	-	2
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	49,916	-	5
IOWA-----	-	-	-	-	-	-	1	1	-	-	-	4.01	4.01	-	-	-	5	16,967	-	3
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	28,215	-	5
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	22,551	-	6
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,872	-	1
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	60,550	-	10
OKLAHOMA-----	-	-	-	-	-	-	1	1	-	-	-	3.30	3.30	-	-	-	12	14,118	-	6
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	657	-	2
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,300	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	90	-	1
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,632	-	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	1.66	1.66	-	-	-	127	240,346	-	51

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
GYPSUM-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	49,737	5	4	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	97,658	2	2	
ARKANSAS-----	-	-	-	1	1	1	2	3	-	2.05	2.05	4.10	6.14	-	47	53	105,752	4	6	
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	1.89	1.89	3.78	5.67	-	59	59	35,467	4	2	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	1	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	760	1	-	
INDIANA-----	-	-	-	2	2	2	2	4	-	1.39	1.39	1.39	2.77	-	112	112	288,473	2	3	
IOWA-----	-	-	-	6	6	6	1	7	-	2.79	2.79	46	3.25	-	65	65	430,573	6	10	
KANSAS-----	-	-	-	1	1	1	1	2	-	1.64	1.64	1.64	3.29	-	51	51	121,581	3	7	
MICHIGAN-----	-	-	2	2	4	4	-	4	-	2.39	2.39	-	2.39	-	443	443	334,745	5	8	
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	2.42	2.42	-	-	-	165,356	7	8	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,928	2	-	
NEW YORK-----	-	-	-	2	2	2	3	5	-	2.45	2.45	3.68	6.13	-	43	43	163,228	1	2	
OHIO-----	-	-	-	-	-	-	2	2	-	-	-	6.77	6.77	-	-	22	59,044	1	1	
OKLAHOMA-----	-	-	-	7	7	7	10	17	-	3.08	3.08	4.40	7.49	-	60	60	454,212	14	11	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11,510	2	-	
TEXAS-----	-	-	-	4	4	4	2	6	-	3.01	3.01	1.51	4.52	-	107	107	265,357	6	9	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	42,770	3	4	
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.72	1.72	-	1.72	-	12	12	116,296	1	2	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	210	1	1	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	39,618	3	2	
TOTAL OR AVERAGE----	-	-	2	27	29	29	27	56	-	2.07	2.07	1.93	4.00	-	104	104	1,321	2,797,275	73	82
KYANITE:																				
SURFACE MINES:																				
OPEN PIT:																				
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
TOTAL OR AVERAGE, SURFACE:																				
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
TOTAL OR AVERAGE, MINING:																				
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	65,877	2	-	
PROCESSING PLANTS:																				
VIRGINIA-----	-	-	-	7	7	7	1	8	-	5.36	5.36	.77	6.13	-	91	91	109	261,144	1	2
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	5.36	5.36	.77	6.13	-	91	91	109	261,144	1	2

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
KYANITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: VIRGINIA-----	-	-	-	7	7	7	1	8	-	4.28	4.28	.61	4.89	-	73	73	138	327,021	3	2
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	4.28	4.28	.61	4.89	-	73	73	138	327,021	3	2
OFFICE: VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	33,883	-	2
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	33,883	-	2
GRAND TOTAL OR AVERAGE: VIRGINIA-----	-	-	-	7	7	7	1	8	-	3.88	3.88	.55	4.43	-	66	66	155	360,904	3	4
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	3.88	3.88	.55	4.43	-	66	66	155	360,904	3	4
LEONARDITE: SURFACE MINES: OPEN PIT: NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,800	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	705	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,505	2	-
TOTAL OR AVERAGE, SURFACE: NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,800	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	705	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,505	2	-
TOTAL OR AVERAGE, MINING: NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,800	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	705	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,505	2	-
PROCESSING PLANTS: NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	5.37	5.37	-	5.37	-	16	16	19	37,218	1	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,947	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	4.24	4.24	-	4.24	-	13	13	24	47,165	2	1

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES												
		PERMANENT		TEMPO- RARY	TOTAL NFDL				INCIDENCE RATES					SEVERITY MEASURES						
		TOTAL	PARTIAL						FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
LEONARDITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: NORTH DAKOTA----- WYOMING----- TOTAL OR AVERAGE----	- - -	- - -	- - -	1 - 1	1 - 1	1 - 1	- - -	1 - 1	- - -	5.13 - 4.03	5.13 - 4.03	- - -	5.13 - 4.03	- - -	15 - 12	15 - 12	20 8 28	39,018 10,652 49,670	2 2 4	1 - 1
OFFICE: NORTH DAKOTA----- TOTAL OR AVERAGE----	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	2 2	3,925 3,925	- -	2 2
GRAND TOTAL OR AVERAGE: NORTH DAKOTA----- WYOMING----- TOTAL OR AVERAGE----	- - -	- - -	- - -	1 - 1	1 - 1	1 - 1	- - -	1 - 1	- - -	4.66 - 3.73	4.66 - 3.73	- - -	4.66 - 3.73	- - -	14 - 11	14 - 11	22 8 30	42,943 10,652 53,595	2 2 4	3 - 3
LITHIUM: SURFACE MINES: OPEN PIT: NORTH CAROLINA----- TOTAL OR AVERAGE----	- -	- -	- -	- -	- -	- -	1 -	1 1	- -	- -	- -	1.22 1.22	1.22 1.22	- -	- -	- -	86 86	163,264 163,264	2 2	- -
TOTAL OR AVERAGE, SURFACE: NORTH CAROLINA----- TOTAL OR AVERAGE----	- -	- -	- -	- -	- -	- -	1 1	1 1	- -	- -	- -	1.22 1.22	1.22 1.22	- -	- -	- -	86 86	163,264 163,264	2 2	- -
TOTAL OR AVERAGE, MINING: NORTH CAROLINA----- TOTAL OR AVERAGE----	- -	- -	- -	- -	- -	- -	1 1	1 1	- -	- -	- -	1.22 1.22	1.22 1.22	- -	- -	- -	86 86	163,264 163,264	2 2	- -
PROCESSING PLANTS: NORTH CAROLINA----- TOTAL OR AVERAGE----	- -	- -	- -	1 1	1 1	1 1	1 1	2 2	- -	2.13 2.13	2.13 2.13	2.13 2.13	4.25 4.25	- -	134 134	134 134	49 49	94,059 94,059	2 2	- -
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NORTH CAROLINA----- TOTAL OR AVERAGE----	- -	- -	- -	1 1	1 1	1 1	2 2	3 3	- -	.78 .78	.78 .78	1.55 1.55	2.33 2.33	- -	49 49	49 49	135 135	257,323 257,323	4 4	- -

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
LITHIUM-CONTINUED: OFFICE: NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	54,067	-	4
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	54,067	-	4
GRAND TOTAL OR AVERAGE: NORTH CAROLINA-----	-	-	-	1	1	1	2	3	-	.64	.64	1.28	1.93	-	40	40	161	311,390	4	4
TOTAL OR AVERAGE----	-	-	-	1	1	1	2	3	-	.64	.64	1.28	1.93	-	40	40	161	311,390	4	4
MAGNESITE: SURFACE MINES: OPEN PIT: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
TOTAL OR AVERAGE, SURFACE: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
TOTAL OR AVERAGE, MINING: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,521	1	-
PROCESSING PLANTS: NEVADA-----	-	-	-	12	12	12	1	13	-	15.72	15.72	1.31	17.03	-	224	224	75	152,669	1	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	17,595	2	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	14.10	14.10	1.17	15.27	-	201	201	83	170,264	3	-
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NEVADA-----	-	-	-	12	12	12	1	13	-	13.10	13.10	1.09	14.19	-	187	187	90	183,190	2	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	17,595	2	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	11.95	11.95	1.00	12.95	-	170	170	98	200,785	4	-
OFFICE: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	23,988	-	1
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,256	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	30,244	-	2

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
MAGNESITE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	12	12	12	1	13	-	11.58	11.58	.97	12.55	-	165	165	102	207,178	2	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	23,851	2	1
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	10.39	10.39	.87	11.25	-	148	148	113	231,029	4	2
MICA:																				
SURFACE MINES:																				
OPEN PIT:																				
GEORGIA-----	-	-	-	4	4	4	3	7	-	18.64	18.64	13.98	32.63	-	615	615	21	42,911	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,302	1	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	5.53	5.53	-	-	-	16	36,169	3	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,241	1	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,552	2	-
TOTAL OR AVERAGE----	-	-	-	4	4	4	4	8	-	7.91	7.91	7.91	15.81	-	261	261	48	101,175	8	-
TOTAL OR AVERAGE, SURFACE:																				
GEORGIA-----	-	-	-	4	4	4	3	7	-	18.64	18.64	13.98	32.63	-	615	615	21	42,911	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,302	1	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	5.53	5.53	-	-	-	16	36,169	3	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,241	1	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,552	2	-
TOTAL OR AVERAGE----	-	-	-	4	4	4	4	8	-	7.91	7.91	7.91	15.81	-	261	261	48	101,175	8	-
TOTAL OR AVERAGE, MINING:																				
GEORGIA-----	-	-	-	4	4	4	3	7	-	18.64	18.64	13.98	32.63	-	615	615	21	42,911	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,302	1	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	5.53	5.53	-	-	-	16	36,169	3	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,241	1	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,552	2	-
TOTAL OR AVERAGE----	-	-	-	4	4	4	4	8	-	7.91	7.91	7.91	15.81	-	261	261	48	101,175	8	-
PROCESSING PLANTS:																				
GEORGIA-----	-	-	-	10	10	10	5	15	-	19.47	19.47	9.74	29.21	-	440	440	55	102,722	-	1
NEW MEXICO-----	-	-	-	3	3	3	3	6	-	25.36	25.36	25.36	50.72	-	59	59	14	23,658	1	-
NORTH CAROLINA-----	-	-	-	8	8	8	10	18	-	3.21	3.21	4.01	7.21	-	21	21	225	499,207	8	2
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,699	-	1
SOUTH DAKOTA-----	-	-	-	2	2	2	1	3	-	19.85	19.85	9.93	29.78	-	60	60	16	20,151	3	-
TOTAL OR AVERAGE----	-	-	-	23	23	23	19	42	-	7.00	7.00	5.78	12.78	-	89	89	315	657,437	12	4

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
MICA-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	14	14	14	8	22	-	19.23	19.23	10.99	30.21	-	492	492	76	145,633	1	1
GEORGIA-----	-	-	-	3	3	3	3	6	-	20.03	20.03	20.03	40.05	-	47	47	18	29,960	2	-
NEW MEXICO-----	-	-	-	8	8	8	11	19	-	2.99	2.99	4.11	7.10	-	20	20	241	535,376	11	2
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	15,940	1	-
SOUTH CAROLINA-----	-	-	-	2	2	2	1	3	-	12.62	12.62	6.31	18.93	-	38	38	21	31,703	5	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	27	27	27	23	50	-	7.12	7.12	6.06	13.18	-	112	112	363	758,612	20	4
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	44,237	-	1
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,200	-	1
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	62,708	-	6
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,840	-	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,666	-	2
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	119,651	-	11
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	14	14	14	8	22	-	14.75	14.75	8.43	23.17	-	377	377	94	189,870	1	2
NEW MEXICO-----	-	-	-	3	3	3	3	6	-	16.59	16.59	16.59	33.19	-	39	39	21	36,160	2	1
NORTH CAROLINA-----	-	-	-	8	8	8	11	19	-	2.68	2.68	3.68	6.35	-	18	18	270	598,084	11	8
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	19,780	1	2
SOUTH DAKOTA-----	-	-	-	2	2	2	1	3	-	11.64	11.64	5.82	17.46	-	35	35	23	34,369	5	2
TOTAL OR AVERAGE----	-	-	-	27	27	27	23	50	-	6.15	6.15	5.24	11.39	-	97	97	417	878,263	20	15
OIL SAND/SHALE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDERGROUND MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO-----	-	-	-	18	18	18	4	22	-	11.47	11.47	2.55	14.02	-	214	214	179	313,803	4	-
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	9.71	9.71	-	-	-	10	20,606	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,512	1	-
WYOMING-----	-	-	-	1	1	1	-	1	-	54.78	54.78	-	54.78	-	1,698	1,698	3	3,651	2	-
TOTAL OR AVERAGE----	-	-	-	19	19	19	5	24	-	11.19	11.19	2.94	14.14	-	216	216	194	339,572	8	-
SURFACE AT UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO-----	-	-	-	-	-	-	2	2	-	-	-	14.80	14.80	-	-	-	16	27,030	-	4
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3,640	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,512	-	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,744	-	2
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	10.83	10.83	-	-	-	29	36,926	1	7

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																
		TOTAL	PARTIAL																	
OIL SAND/SHALE-CONTINUED: TOTAL OR AVERAGE, UG:	-	-	-	18	18	18	6	24	-	10.56	10.56	3.52	14.08	-	197	197	195	340,833	4	4
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	8.25	8.25	-	-	-	17	24,246	2	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,024	1	1
UTAH-----	-	-	-	1	1	1	-	1	-	23.82	23.82	-	23.82	-	739	739	7	8,395	2	2
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	10.09	10.09	3.72	13.81	-	195	195	223	376,498	9	7
SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,876	1	-
TOTAL OR AVERAGE, MINING:	-	-	-	18	18	18	6	24	-	10.56	10.56	3.52	14.08	-	197	197	195	340,833	4	4
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	8.25	8.25	-	-	-	17	24,246	2	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5,900	2	1
UTAH-----	-	-	-	1	1	1	-	1	-	23.82	23.82	-	23.82	-	739	739	7	8,395	2	2
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	10.02	10.02	3.69	13.71	-	193	193	225	379,374	10	7
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	18	18	18	6	24	-	10.56	10.56	3.52	14.08	-	197	197	195	340,833	4	4
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	8.25	8.25	-	-	-	17	24,246	2	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5,900	2	1
UTAH-----	-	-	-	1	1	1	-	1	-	23.82	23.82	-	23.82	-	739	739	7	8,395	2	2
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	10.02	10.02	3.69	13.71	-	193	193	225	379,374	10	7
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	58,165	1	4
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6,076	-	1
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	891	-	1
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	65,132	1	6

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
OIL SAND/SHALE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	18	18	18	6	24	-	9.02	9.02	3.01	12.03	-	168	168	228	398,998	5	8
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	6.60	6.60	-	-	-	19	30,322	2	1
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5,900	2	1
UTAH-----	-	-	-	1	1	1	-	1	-	21.54	21.54	-	21.54	-	668	668	9	9,286	2	3
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	8.55	8.55	3.15	11.70	-	165	165	262	444,506	11	13
PERLITE: UNDERGROUND MINES: UNDERGROUND: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,179	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,179	1	-
SURFACE AT UNDERGROUND: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,408	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,408	-	1
TOTAL OR AVERAGE, UG: NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,587	1	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,587	1	1
SURFACE MINES: OPEN PIT: ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	20,749	2	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,577	1	-
IDAHO-----	-	-	-	1	1	1	-	1	-	5.99	5.99	-	5.99	-	186	186	16	33,385	1	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7,198	1	-
NEW MEXICO-----	-	-	-	4	4	4	4	8	-	28.14	28.14	28.14	56.28	-	232	232	17	28,427	5	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	-	10.95	10.95	8.76	19.71	-	140	140	46	91,336	10	-
TOTAL OR AVERAGE, SURFACE: ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	20,749	2	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,577	1	-
IDAHO-----	-	-	-	1	1	1	-	1	-	5.99	5.99	-	5.99	-	186	186	16	33,385	1	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7,198	1	-
NEW MEXICO-----	-	-	-	4	4	4	4	8	-	28.14	28.14	28.14	56.28	-	232	232	17	28,427	5	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	-	10.95	10.95	8.76	19.71	-	140	140	46	91,336	10	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
PERLITE-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	20,749	2	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,577	1	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	5.99	5.99	-	5.99	-	-	186	186	16	33,385	1	-
IDAHO-----	-	-	-	1	1	1	-	1	-	-	-	-	-	-	-	3	7,198	1	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,587	1	1	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	4	4	4	4	8	28.14	28.14	28.14	56.28	-	-	232	232	17	28,427	5	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	10.21	10.21	8.17	18.38	-	-	131	131	49	97,923	11	1
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	22,764	1	1	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7,811	-	1	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	120	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	1	1	1	-	1	7.81	7.81	-	7.81	-	-	86	86	10	25,614	1	-
IDAHO-----	-	-	-	2	2	2	-	2	19.01	19.01	-	19.01	-	-	684	684	11	21,040	1	-
KANSAS-----	-	-	-	-	-	-	1	1	-	-	34.42	34.42	-	-	-	-	3	5,811	1	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11,002	1	1	
NEW MEXICO-----	-	-	-	12	12	12	6	18	10.55	10.55	5.27	15.82	-	-	129	129	120	227,546	1	4
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,472	1	-	
TOTAL OR AVERAGE----	-	-	-	15	15	15	7	22	9.23	9.23	4.31	13.53	-	-	141	141	171	325,180	8	7
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	43,513	3	1	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	9,388	1	1	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	120	1	-	
FLORIDA-----	-	-	-	1	1	1	-	1	7.81	7.81	-	7.81	-	-	86	86	10	25,614	1	-
IDAHO-----	-	-	-	3	3	3	-	3	11.02	11.02	-	11.02	-	-	379	379	27	54,425	2	-
KANSAS-----	-	-	-	-	-	-	1	1	-	-	15.37	15.37	-	-	-	-	6	13,009	2	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	17,589	2	2	
NEW MEXICO-----	-	-	-	16	16	16	10	26	12.50	12.50	7.81	20.31	-	-	141	141	137	255,973	6	4
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,472	1	-	
TOTAL OR AVERAGE----	-	-	-	20	20	20	11	31	9.45	9.45	5.20	14.65	-	-	139	139	220	423,103	19	8
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,718	-	2	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,904	-	1	
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,386	-	1	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,029	-	1	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,331	-	1	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	320	-	2	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	42,172	-	5	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	720	-	1	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	66,580	-	14	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
PERLITE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	47,231	3	3	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	11,292	1	2	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	120	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	-	-	1	1	1	-	1	-	6.67	6.67	-	6.67	-	73	73	12	30,000	1	1
IDAHO-----	-	-	-	3	3	3	-	3	-	10.26	10.26	-	10.26	-	352	352	29	58,454	2	1
KANSAS-----	-	-	-	-	-	-	-	1	-	-	-	8.95	8.95	-	-	-	11	22,340	2	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	17,909	2	4
NEW MEXICO-----	-	-	-	16	16	16	10	26	-	10.73	10.73	6.71	17.44	-	121	121	159	298,145	6	9
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4,192	1	1
TOTAL OR AVERAGE----	-	-	-	20	20	20	11	31	-	8.17	8.17	4.49	12.66	-	120	120	258	489,683	19	22
PHOSPHATE: UNDERGROUND MINES: UNDERGROUND:																				
MONTANA-----	2	-	-	3	3	5	16	21	3.33	4.99	8.31	26.60	34.91	19,950	48	19,999	67	120,298	1	-
TOTAL OR AVERAGE----	2	-	-	3	3	5	16	21	3.33	4.99	8.31	26.60	34.91	19,950	48	19,999	67	120,298	1	-
SURFACE AT UNDERGROUND: MONTANA-----	-	-	1	2	3	3	4	7	-	8.62	8.62	11.50	20.12	-	290	290	38	69,579	-	1
TOTAL OR AVERAGE----	-	-	1	2	3	3	4	7	-	8.62	8.62	11.50	20.12	-	290	290	38	69,579	-	1
TOTAL OR AVERAGE, UG: MONTANA-----	2	-	1	5	6	8	20	28	2.11	6.32	8.43	21.07	29.49	12,640	137	12,777	105	189,877	1	1
TOTAL OR AVERAGE----	2	-	1	5	6	8	20	28	2.11	6.32	8.43	21.07	29.49	12,640	137	12,777	105	189,877	1	1
SURFACE MINES: OPEN PIT:																				
FLORIDA-----	-	-	1	57	58	58	59	117	-	3.13	3.13	3.18	6.31	-	50	50	1,736	3,708,849	21	-
IDAHO-----	-	-	1	10	11	11	11	22	-	2.50	2.50	2.50	4.99	-	46	46	427	881,313	9	-
NORTH CAROLINA-----	-	-	-	8	8	8	11	19	-	5.73	5.73	7.88	13.62	-	39	39	161	279,014	1	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	77,625	9	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	70,484	1	-
TOTAL OR AVERAGE----	-	-	2	75	77	77	81	158	-	3.07	3.07	3.23	6.30	-	47	47	2,398	5,017,285	41	-
DREDGE: NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	1.67	1.67	-	1.67	-	5	5	129	239,283	1	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	1.67	1.67	-	1.67	-	5	5	129	239,283	1	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
PHOSPHATE-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	1	57	58	58	59	117	-	3.13	3.13	3.18	6.31	-	50	50	1,736	3,708,849	21	-
FLORIDA-----	-	-	1	10	11	11	11	22	-	2.50	2.50	2.50	4.99	-	46	46	427	881,313	9	-
IDAHO-----	-	-	-	10	10	10	11	21	-	3.86	3.86	4.24	8.10	-	23	23	290	518,297	2	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	77,625	9	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	70,484	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	77	79	79	81	160	-	3.01	3.01	3.08	6.09	-	45	45	2,527	5,256,568	42	-
TOTAL OR AVERAGE, MINING:	-	-	1	57	58	58	59	117	-	3.13	3.13	3.18	6.31	-	50	50	1,736	3,708,849	21	-
FLORIDA-----	-	-	1	10	11	11	11	22	-	2.50	2.50	2.50	4.99	-	46	46	427	881,313	9	-
IDAHO-----	2	-	1	5	6	8	20	28	2.11	6.32	8.43	21.07	29.49	12,640	137	12,777	105	189,877	1	1
MONTANA-----	-	-	-	10	10	10	11	21	-	3.86	3.86	4.24	8.10	-	23	23	290	518,297	2	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	77,625	9	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	70,484	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	2	-	3	82	85	87	101	188	.07	3.12	3.19	3.71	6.90	441	49	489	2,632	5,446,445	43	1
INDEPENDENT SHOPS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,511	1	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,511	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,511	1	-
PROCESSING PLANTS:	-	-	1	33	34	34	41	75	-	1.72	1.72	2.07	3.79	-	32	32	1,979	3,952,650	6	17
FLORIDA-----	-	-	-	6	6	6	2	8	-	6.77	6.77	2.26	9.02	-	47	47	95	177,358	1	2
IDAHO-----	-	-	-	3	3	3	3	6	-	3.00	3.00	3.00	6.00	-	50	50	111	199,859	-	1
NORTH CAROLINA-----	-	-	-	-	-	-	5	5	-	-	-	12.55	12.55	-	-	-	46	79,696	1	2
TENNESSEE-----	1	-	-	2	2	3	1	4	1.77	3.53	5.30	1.77	7.07	10,599	256	10,855	58	113,215	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	1	-	1	44	45	46	52	98	.04	1.99	2.03	2.30	4.33	265	39	304	2,289	4,522,778	9	22
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	2	90	92	92	100	192	-	2.40	2.40	2.61	5.01	-	41	41	3,715	7,661,499	27	17
FLORIDA-----	-	-	1	16	17	17	13	30	-	3.21	3.21	2.46	5.67	-	46	46	522	1,058,671	10	2
IDAHO-----	2	-	1	5	6	8	20	28	2.11	6.32	8.43	21.07	29.49	12,640	137	12,777	105	189,877	1	1
MONTANA-----	-	-	-	13	13	13	14	27	-	3.62	3.62	3.90	7.52	-	31	31	401	718,156	2	1
NORTH CAROLINA-----	-	-	-	-	-	-	5	5	-	-	-	5.99	5.99	-	-	-	86	166,832	11	2
TENNESSEE-----	1	-	-	2	2	3	1	4	1.09	2.18	3.27	1.09	4.35	6,532	158	6,690	96	183,699	2	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	3	-	4	126	130	133	153	286	.06	2.61	2.67	3.07	5.73	361	44	405	4,925	9,978,734	53	23

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
PHOSPHATE-CONTINUED: OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	572	1,192,263	-	23	
FLORIDA-----	-	-	-	1	1	1	-	1	-	1.21	1.21	-	1.21	-	2	2	83	165,873	-	9
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11,060	-	1
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	132,066	-	2
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	19,244	-	3
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	37,176	-	2
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	.13	.13	-	.13	-	(*)	(*)	754	1,557,682	-	40
GRAND TOTAL OR AVERAGE:	-	-	2	90	92	92	100	192	-	2.08	2.08	2.26	4.34	-	35	35	4,287	8,853,762	27	40
FLORIDA-----	-	-	1	17	18	18	13	31	-	2.94	2.94	2.12	5.06	-	40	40	605	1,224,544	10	11
IDAHO-----	2	-	1	5	6	8	20	28	1.99	5.97	7.96	19.91	27.87	11.944	129	12,073	111	200,937	1	2
MONTANA-----	-	-	-	13	13	13	14	27	-	3.06	3.06	3.29	6.35	-	26	26	464	850,222	2	3
NORTH CAROLINA-----	-	-	-	-	-	-	5	5	-	-	-	5.37	5.37	-	-	-	96	186,076	11	5
TENNESSEE-----	1	-	-	2	2	3	1	4	.91	1.81	2.72	.91	3.62	5.433	131	5,564	116	220,875	2	2
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	3	-	4	127	131	134	153	287	.05	2.27	2.32	2.65	4.98	312	38	350	5,679	11,536,416	53	63
PIGMENT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SURFACE MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,339	1	-
PROCESSING PLANTS:	-	-	-	2	2	2	-	2	-	9.83	9.83	-	9.83	-	732	732	21	40,693	1	-
TEXAS-----	-	-	-	1	1	1	-	1	-	5.00	5.00	-	5.00	-	806	806	21	39,963	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	7.44	7.44	-	7.44	-	769	769	42	80,656	1	1

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
PIGMENT-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	2	2	2	-	2	-	9.83	9.83	-	9.83	-	732	732	21	40,693	1	-
TEXAS-----	-	-	-	1	1	1	-	1	-	4.41	4.41	-	4.41	-	711	711	24	45,302	1	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	6.98	6.98	-	6.98	-	721	721	45	85,995	2	1
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	18,524	-	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	17,753	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	36,277	-	2
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	6.75	6.75	-	6.75	-	503	503	30	59,217	1	1
VIRGINIA-----	-	-	-	1	1	1	-	1	-	3.17	3.17	-	3.17	-	511	511	32	63,065	1	2
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	4.91	4.91	-	4.91	-	507	507	62	122,272	2	3
POTASH:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDERGROUND MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	23	23	23	18	41	-	2.48	2.48	1.94	4.43	-	128	128	799	1,851,981	8	-
TOTAL OR AVERAGE----	-	-	-	23	23	23	18	41	-	2.48	2.48	1.94	4.43	-	128	128	799	1,851,981	8	-
SURFACE AT UNDERGROUND:	-	-	1	9	10	10	8	18	-	7.44	7.44	5.95	13.40	-	417	417	109	268,733	-	5
NEW MEXICO-----	-	-	1	9	10	10	8	18	-	7.44	7.44	5.95	13.40	-	417	417	109	268,733	-	5
TOTAL OR AVERAGE----	-	-	1	9	10	10	8	18	-	7.44	7.44	5.95	13.40	-	417	417	109	268,733	-	5
TOTAL OR AVERAGE, UG:	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5
NEW MEXICO-----	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5
TOTAL OR AVERAGE----	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5
TOTAL OR AVERAGE, MINING:	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5
NEW MEXICO-----	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5
TOTAL OR AVERAGE----	-	-	1	32	33	33	26	59	-	3.11	3.11	2.45	5.56	-	165	165	908	2,120,714	8	5

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES													
		PERMANENT		TEMPO- RARY				TOTAL NFDL												
		TOTAL	PARTIAL																	
POTASH-CONTINUED: PROCESSING PLANTS:	-	-	-	10	10	10	13	23	-	1.51	1.51	1.96	3.47	-	46	46	675	1,324,329	2	5
NEW MEXICO-----	-	-	-	2	2	2	1	3	-	4.24	4.24	2.12	6.36	-	23	23	40	94,357	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	14	26	-	1.69	1.69	1.97	3.67	-	45	45	715	1,418,686	3	5
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	1	42	43	43	39	82	-	2.50	2.50	2.26	4.76	-	119	119	1,583	3,445,043	10	10
UTAH-----	-	-	-	2	2	2	1	3	-	4.24	4.24	2.12	6.36	-	23	23	40	94,357	1	-
TOTAL OR AVERAGE----	-	-	1	44	45	45	40	85	-	2.54	2.54	2.26	4.80	-	117	117	1,623	3,539,400	11	10
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144	279,201	-	6
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	31,809	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	311,010	-	7
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	1	42	43	43	39	82	-	2.31	2.31	2.09	4.40	-	110	110	1,727	3,724,244	10	16
UTAH-----	-	-	-	2	2	2	1	3	-	3.17	3.17	1.59	4.76	-	17	17	54	126,166	1	1
TOTAL OR AVERAGE----	-	-	1	44	45	45	40	85	-	2.34	2.34	2.08	4.42	-	107	107	1,781	3,850,410	11	17
PUMICE: SURFACE MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	1	1	-	-	-	3.04	3.04	-	-	-	47	65,700	14	-
CALIFORNIA-----	-	-	-	2	2	2	-	2	-	4.11	4.11	-	4.11	-	64	64	53	97,243	12	-
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	19.22	19.22	-	-	-	6	10,408	2	-
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	26	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	10,664	3	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,115	1	-
NEW MEXICO-----	-	-	-	-	-	-	1	1	-	-	-	7.84	7.84	-	-	-	32	25,515	8	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	80	1	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,609	2	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7,237	3	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	5	-	1.65	1.65	2.47	4.12	-	26	26	173	242,597	47	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
PUMICE-CONTINUED: TOTAL OR AVERAGE, SURFACE:																				
ARIZONA-----	-	-	-	-	-	1	1	-	-	-	3.04	3.04	-	-	-	47	65,700	14	-	
CALIFORNIA-----	-	-	-	2	2	2	2	-	4.11	4.11	-	4.11	-	64	64	53	97,243	12	-	
COLORADO-----	-	-	-	-	-	1	1	-	-	-	19.22	19.22	-	-	-	6	10,408	2	-	
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	26	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	10,664	3	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,115	1	-	
NEW MEXICO-----	-	-	-	-	-	1	1	-	-	-	7.84	7.84	-	-	-	32	25,515	8	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	80	1	-	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,609	2	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7,237	3	-	
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	5	-	1.65	1.65	2.47	4.12	-	26	26	173	242,597	47	-
TOTAL OR AVERAGE, MINING:																				
ARIZONA-----	-	-	-	-	-	1	1	-	-	-	3.04	3.04	-	-	-	47	65,700	14	-	
CALIFORNIA-----	-	-	-	2	2	2	2	-	4.11	4.11	-	4.11	-	64	64	53	97,243	12	-	
COLORADO-----	-	-	-	-	-	1	1	-	-	-	19.22	19.22	-	-	-	6	10,408	2	-	
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	26	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	10,664	3	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,115	1	-	
NEW MEXICO-----	-	-	-	-	-	1	1	-	-	-	7.84	7.84	-	-	-	32	25,515	8	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	80	1	-	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,609	2	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7,237	3	-	
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	5	-	1.65	1.65	2.47	4.12	-	26	26	173	242,597	47	-
PROCESSING PLANTS:																				
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	3.18	3.18	-	3.18	-	111	111	31	62,944	1	2
COLORADO-----	-	-	-	6	6	6	-	6	-	11.41	11.41	-	11.41	-	89	89	66	105,206	1	1
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	577	1	1	
IDAHO-----	-	-	-	1	1	1	-	1	-	5.38	5.38	-	5.38	-	38	38	24	37,187	1	1
NEW MEXICO-----	-	-	-	-	-	-	1	1	-	-	-	23.97	23.97	-	-	-	4	8,343	2	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	20,387	2	-	
TOTAL OR AVERAGE----	-	-	-	8	8	8	1	9	-	6.82	6.82	.85	7.67	-	76	76	136	234,644	8	4

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
PUMICE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	1	1	-	-	-	3.04	3.04	-	-	-	47	65,700	14	-	
ARIZONA-----	-	-	-	-	3	3	3	-	3.75	3.75	-	3.75	-	-	82	82	84	160,187	13	2
CALIFORNIA-----	-	-	-	-	6	6	6	1	10.38	10.38	1.73	12.11	-	-	81	81	72	115,614	3	1
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	603	2	-
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	47,851	4	1
IDAHO-----	-	-	-	1	1	1	-	1	4.18	4.18	-	4.18	-	29	29	29	33	47,851	4	1
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,115	1	-
NEW MEXICO-----	-	-	-	-	-	-	2	2	-	-	11.81	11.81	-	-	-	36	33,858	10	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	80	1	-	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	44,996	4	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7,237	3	-	
TOTAL OR AVERAGE----	-	-	-	10	10	10	4	14	4.19	4.19	1.68	5.87	-	50	50	309	477,241	55	4	
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	8,859	-	5	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	15,382	-	8	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13,727	-	2	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	1	
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2,211	-	1	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3,970	-	6	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	-	1	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,042	-	1	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	48,203	-	25	
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	1	1	-	-	2.68	2.68	-	-	-	54	74,559	14	5	
ARIZONA-----	-	-	-	-	3	3	3	3	3.42	3.42	-	3.42	-	75	75	96	175,569	13	10	
CALIFORNIA-----	-	-	-	-	6	6	6	7	9.28	9.28	1.55	10.82	-	73	73	82	129,341	3	3	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	607	2	1	
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	50,062	4	2	
IDAHO-----	-	-	-	1	1	1	-	1	4.00	4.00	-	4.00	-	28	28	2	1,115	1	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	37,828	10	6	
NEW MEXICO-----	-	-	-	-	-	-	2	2	-	-	10.57	10.57	-	-	-	3	88	1	1	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	49,038	4	1	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7,237	3	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	10	10	10	4	14	3.81	3.81	1.52	5.33	-	46	46	352	525,444	55	29	
PYRITE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	15,330	2	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6,379	1	-	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	21,709	3	-	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
PYRITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: COLORADO----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	11 7	15,330 6,379	2 1	- -		
OFFICE: COLORADO----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	2 1	2,843 560	- -	1 1		
GRAND TOTAL OR AVERAGE: COLORADO----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	13 8	18,173 6,939	2 1	1 1		
SALT: UNDERGROUND MINES: UNDERGROUND: KANSAS----- LOUISIANA----- NEW YORK----- OHIO----- TEXAS----- UTAH----- TOTAL OR AVERAGE----	- - - - - - - -	- - 1 - - - -	- - 1 12 - -	1 11 16 12 - -	1 11 16 12 - -	1 4 9 5 4 -	2 15 25 17 4 -	- 2.10 3.76 6.94 5.62 - -	2.10 3.76 6.94 5.62 - -	2.10 1.37 3.90 2.34 12.29 -	4.20 5.12 10.84 7.96 12.29 -	- - - - - -	15 140 184 138 - -	15 140 184 138 - -	40 284 233 214 32 3	95,235 585,691 461,327 426,907 65,093 5,942	3 3 2 2 2 1	- - - - - -		
SURFACE AT UNDERGROUND: KANSAS----- LOUISIANA----- NEW YORK----- OHIO----- UTAH----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- 2 3 3 10 -	2 3 3 3 10 -	2 3 3 3 10 -	- 3 3 3 2 -	2 6 6 12 12 -	- 3.99 6.56 2.14 12.41 -	3.99 6.56 2.14 2.48 -	- - 6.56 2.14 -	3.99 13.12 4.29 14.89 -	- - - - -	18 243 48 169 -	18 243 48 169 -	46 43 142 87 1	100,129 91,437 279,963 161,196 1,653	- - - - -	2 3 2 2 1		
	-	-	-	18	18	18	8	26	-	5.67	5.67	2.52	8.20	-	102	102	319	634,378	-	10

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
WOLASTNITE-STAUHLIT-CONTINUED:																				
TOTAL OR AVERAGE, MINING:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	74.93	74.93	-	74.93	-	9.367	9.367	8	10,315	3	-	
COLORADO-----	-	-	-	1	1	1	-	1	-	-	-	-	-	-	-	6	2,669	2	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,302	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	612	1	-	
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1,682	1	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21,515	1	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,166	1	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,395	1	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20,201	2	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	584	1	-	
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	2.10	2.10	-	2.10	-	262	262	71	95,441	14	-
PROCESSING PLANTS:																				
COLORADO-----	-	-	-	1	1	1	-	1	-	97.18	97.18	-	97.18	-	583	583	3	2,058	1	-
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	3.95	3.95	-	-	-	24	50,575	-	1
TEXAS-----	-	-	-	2	2	2	-	2	-	70.85	70.85	-	70.85	-	1,559	1,559	2	5,646	-	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	10.30	10.30	3.43	13.73	-	172	172	29	58,279	1	2
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,315	3	-	
COLORADO-----	-	-	-	2	2	2	-	2	-	84.62	84.62	-	84.62	-	5,543	5,543	9	4,727	3	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,302	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	612	1	-	
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1,682	1	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21,515	1	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,166	1	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	3.18	3.18	-	-	30	62,970	1	1	
TEXAS-----	-	-	-	2	2	2	-	2	-	15.48	15.48	-	15.48	-	340	340	12	25,847	2	1
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	584	1	-	
TOTAL OR AVERAGE----	-	-	-	4	4	4	1	5	-	5.20	5.20	1.30	6.51	-	228	228	100	153,720	15	2
OFFICE:																				
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,980	2	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	119	-	1	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,536	-	1	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,964	-	1	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14,599	2	3	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
WOLASTITE-STAUFLIT-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,980	2	-	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,315	3	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	4,727	3	-	
COLORADO-----	-	-	-	2	2	2	-	2	84.62	84.62	-	84.62	-	5,543	5,543	12	24,302	1	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	612	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1,682	1	-	
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21,515	1	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,285	1	1	
PENNSYLVANIA-----	-	-	-	-	-	-	1	1	-	-	2.96	2.96	-	-	-	32	67,506	1	2	
SOUTH CAROLINA-----	-	-	-	2	2	2	-	2	11.83	11.83	-	11.83	-	260	260	16	33,811	2	2	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	584	1	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	4	4	4	1	5	4.75	4.75	1.19	5.94	-	208	208	110	168,319	17	5	
OTHER NONMETAL, NEC: UNDERGROUND MINES: UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10,983	1	-	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	14,115	1	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	464	1	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	25,562	3	-	
SURFACE AT UNDERGROUND:	-	-	1	-	1	1	-	1	25.49	25.49	-	25.49	-	1,912	1,912	4	7,845	-	1	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	397	-	1	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	1	-	1	1	-	1	24.27	24.27	-	24.27	-	1,820	1,820	6	8,242	-	2	
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10,983	1	-	
ILLINOIS-----	-	-	1	-	1	1	-	1	9.11	9.11	-	9.11	-	683	683	11	21,960	1	1	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	861	1	1	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	1	-	1	1	-	1	5.92	5.92	-	5.92	-	444	444	21	33,804	3	2	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
VERMICULITE: SURFACE MINES: OPEN PIT:																				
MONTANA-----	-	-	-	1	1	1	-	1	-	5.68	5.68	-	5.68	-	23	23	22	35,199	1	-
SOUTH CAROLINA-----	-	-	-	1	1	1	1	2	-	2.02	2.02	2.02	4.05	-	2	2	50	98,827	5	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	23,006	1	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	2.55	2.55	1.27	3.82	-	6	6	82	157,032	7	-
TOTAL OR AVERAGE, SURFACE:																				
MONTANA-----	-	-	-	1	1	1	-	1	-	5.68	5.68	-	5.68	-	23	23	22	35,199	1	-
SOUTH CAROLINA-----	-	-	-	1	1	1	1	2	-	2.02	2.02	2.02	4.05	-	2	2	50	98,827	5	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	23,006	1	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	2.55	2.55	1.27	3.82	-	6	6	82	157,032	7	-
TOTAL OR AVERAGE, MINING:																				
MONTANA-----	-	-	-	1	1	1	-	1	-	5.68	5.68	-	5.68	-	23	23	22	35,199	1	-
SOUTH CAROLINA-----	-	-	-	1	1	1	1	2	-	2.02	2.02	2.02	4.05	-	2	2	50	98,827	5	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	23,006	1	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	2.55	2.55	1.27	3.82	-	6	6	82	157,032	7	-
PROCESSING PLANTS:																				
MONTANA-----	-	-	-	2	2	2	-	2	-	4.12	4.12	-	4.12	-	163	163	46	97,191	-	1
SOUTH CAROLINA-----	-	-	-	4	4	4	6	10	-	4.76	4.76	7.14	11.91	-	26	26	80	167,991	-	5
VIRGINIA-----	-	-	-	1	1	1	-	1	-	7.64	7.64	-	7.64	-	153	153	13	26,165	-	1
TOTAL OR AVERAGE----	-	-	-	7	7	7	6	13	-	4.81	4.81	4.12	8.92	-	83	83	139	291,347	-	7
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																				
MONTANA-----	-	-	-	3	3	3	-	3	-	4.53	4.53	-	4.53	-	125	125	68	132,390	1	1
SOUTH CAROLINA-----	-	-	-	5	5	5	7	12	-	3.75	3.75	5.25	8.99	-	17	17	130	266,818	5	5
VIRGINIA-----	-	-	-	1	1	1	-	1	-	4.07	4.07	-	4.07	-	81	81	23	49,171	1	1
TOTAL OR AVERAGE----	-	-	-	9	9	9	7	16	-	4.01	4.01	3.12	7.14	-	56	56	221	448,379	7	7
OFFICE:																				
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11,442	-	1
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	30,033	-	5
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,307	-	1
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	49,782	-	7

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
VERMICULITE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	3	3	3	-	3	-	4.17	4.17	-	4.17	-	115	115	75	143,832	1	2
MONTANA-----	-	-	-	5	5	5	7	12	-	3.37	3.37	4.72	8.08	-	15	15	147	296,851	5	10
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	3.48	3.48	-	3.48	-	70	70	27	57,478	1	2
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	9	9	9	7	16	-	3.61	3.61	2.81	6.42	-	51	51	249	498,161	7	14
WOLLASTONITE-STAUROLITE: SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,315	3	-
COLORADO-----	-	-	-	1	1	1	-	1	-	74.93	74.93	-	74.93	-	9,367	9,367	6	2,669	2	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,302	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	612	1	-
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1,682	1	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21,515	1	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,166	1	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,395	1	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20,201	2	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	584	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	2.10	2.10	-	2.10	-	262	262	71	95,441	14	-
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,315	3	-
COLORADO-----	-	-	-	1	1	1	-	1	-	74.93	74.93	-	74.93	-	9,367	9,367	6	2,669	2	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,302	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	612	1	-
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1,682	1	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21,515	1	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,166	1	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,395	1	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	20,201	2	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	584	1	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	2.10	2.10	-	2.10	-	262	262	71	95,441	14	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: SURFACE AT UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,262	-	2	
CALIFORNIA-----	-	-	-	-	-	-	2	2	-	-	-	14.80	14.80	-	-	16	27,030	-	4	
COLORADO-----	-	-	-	-	-	-	-	-	87.13	87.13	-	-	-	-	87	4	4,591	-	2	
GEORGIA-----	-	-	-	2	2	2	-	2	-	-	-	-	-	-	-	7	6,667	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	23,027	1	3	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	92,065	-	1	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	46,410	-	1	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	103,609	-	3	
KANSAS-----	-	-	-	2	2	2	-	2	3.86	3.86	-	3.86	-	17	17	43	91,437	-	3	
LOUISIANA-----	-	-	-	3	3	3	3	6	6.56	6.56	6.56	13.12	-	243	243	3	3,854	-	1	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	82,731	-	3	
MONTANA-----	-	-	1	2	3	3	6	9	7.25	7.25	14.50	21.76	-	244	244	109	268,733	-	5	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	293,605	-	4	
NEW MEXICO-----	-	-	1	9	10	10	8	18	7.44	7.44	5.95	13.40	-	417	417	87	161,196	-	2	
NEW YORK-----	-	-	1	4	5	5	3	8	3.41	3.41	2.04	5.45	-	98	98	2	2,867	-	1	
OHIO-----	-	-	-	10	10	10	2	12	12.41	12.41	2.48	14.89	-	169	169	14	12,654	1	9	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	67,543	-	7	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	2	2	2	5	7	5.92	5.92	14.81	20.73	-	160	160	648	1,299,567	3	54	
TOTAL OR AVERAGE----	-	-	3	34	37	37	29	66	5.69	5.69	4.46	10.16	-	172	172	648	1,299,567	3	54	
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	22,875	5	2	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195	340,833	4	4	
COLORADO-----	-	-	-	18	18	18	6	24	10.56	10.56	3.52	14.08	-	197	197	21	18,651	3	2	
GEORGIA-----	-	-	-	2	2	2	1	3	21.45	21.45	10.72	32.17	-	21	21	14	6,667	1	-	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	127,736	6	3	
ILLINOIS-----	-	-	-	3	3	3	5	8	4.70	4.70	7.83	12.53	-	105	105	130	248,059	2	1	
INDIANA-----	-	-	-	2	2	2	2	4	1.61	1.61	1.61	3.23	-	130	130	80	117,627	1	1	
IOWA-----	-	-	-	1	1	1	-	1	1.70	1.70	-	1.70	-	80	80	37	251,023	5	3	
KANSAS-----	-	-	-	4	4	4	2	6	3.19	3.19	1.59	4.78	-	37	37	115	677,128	3	3	
LOUISIANA-----	-	-	-	14	14	14	7	21	4.14	4.14	2.07	6.20	-	154	154	22	51,393	2	1	
MICHIGAN-----	-	-	-	1	1	1	-	1	3.89	3.89	-	3.89	-	121	121	180	232,860	3	3	
MONTANA-----	2	-	1	9	10	12	22	34	8.59	10.31	18.90	29.20	10,307	180	10,487	127	14,462	3	3	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	2,120,714	8	5	
NEW MEXICO-----	-	-	1	32	33	33	26	59	3.11	3.11	2.45	5.56	-	165	165	123	984,198	5	4	
NEW YORK-----	-	-	2	23	25	25	18	43	5.08	5.08	3.66	8.74	-	123	123	307	599,335	3	2	
OHIO-----	-	-	-	24	24	24	7	31	8.01	8.01	2.34	10.34	-	152	152	20	9,914	1	1	
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	20.17	20.17	20.17	40.35	-	20	20	32	65,093	2	-	
TEXAS-----	-	-	-	-	-	-	4	4	-	-	12.29	12.29	-	-	-	9	85,446	14	9	
UTAH-----	-	-	-	3	3	3	6	9	7.02	7.02	14.04	21.07	-	9	9	61	19,995	1	-	
VERMONT-----	-	-	-	3	3	3	-	3	30.01	30.01	-	30.01	-	1,560	1,560	14	100,284	1	-	
VIRGINIA-----	-	-	-	1	1	1	-	1	1.99	1.99	-	1.99	-	-	-	-	162	2,478,320	7	7
WYOMING-----	-	-	1	46	47	47	71	118	3.79	3.79	5.73	9.52	-	-	-	1,193	8,572,613	80	54	
TOTAL OR AVERAGE----	2	-	5	187	192	194	178	372	.05	4.48	4.53	4.15	8.68	280	150	430	4,123	8,572,613	80	54

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: SURFACE MINES: OPEN PIT:	-	-	-	4	4	4	1	5	-	4.96	4.96	1.24	6.20	-	31	31	104	161,206	23	-
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139	196,080	27	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	132,473	18	-
ARKANSAS-----	-	-	-	2	2	2	5	7	-	3.02	3.02	7.55	10.57	-	36	36	87	132,473	18	-
CALIFORNIA-----	-	-	-	15	15	15	4	19	-	3.62	3.62	.97	4.58	-	72	72	458	828,938	46	-
COLORADO-----	-	-	-	1	1	1	1	2	-	3.48	3.48	3.48	6.95	-	434	434	82	57,549	27	-
CONNECTICUT-----	-	-	-	1	1	1	-	1	-	5.37	5.37	-	5.37	-	16	16	18	37,266	5	-
FLORIDA-----	-	-	1	58	59	59	62	121	-	3.08	3.08	3.24	6.32	-	53	53	1,807	3,831,001	24	-
GEORGIA-----	-	-	1	21	22	22	38	60	-	2.41	2.41	4.16	6.57	-	52	52	891	1,827,176	45	-
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	1	-
IDAHO-----	-	-	1	11	12	12	13	25	-	2.52	2.52	2.73	5.24	-	49	49	473	953,637	18	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	27,968	8	-
INDIANA-----	-	-	-	1	1	1	-	1	-	5.89	5.89	-	5.89	-	94	94	19	33,954	5	-
IOWA-----	-	-	-	1	1	1	-	1	-	1.23	1.23	-	1.23	-	21	21	68	162,120	5	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	57,661	9	-
KENTUCKY-----	-	-	-	3	3	3	1	4	-	4.71	4.71	1.57	6.28	-	24	24	79	127,352	11	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22,290	6	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,698	3	-
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,759	3	-
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	32.09	32.09	10.70	42.79	-	535	535	9	18,695	3	-
MICHIGAN-----	-	-	1	2	3	3	-	3	-	2.78	2.78	-	2.78	-	294	294	94	215,605	6	-
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	106	164,847	17	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	8.74	8.74	2.91	11.66	-	64	64	51	68,617	15	-
MONTANA-----	-	-	-	7	7	7	-	7	-	4.29	4.29	-	4.29	-	25	25	179	326,411	10	-
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,350	2	-
NEVADA-----	-	-	-	-	-	-	3	3	-	-	-	2.45	2.45	-	-	-	116	245,006	18	-
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,953	1	-
NEW MEXICO-----	-	-	-	4	4	4	5	9	-	9.97	9.97	12.46	22.43	-	82	82	67	80,232	18	-
NEW YORK-----	-	-	-	3	3	3	-	3	-	4.50	4.50	-	4.50	-	432	432	71	133,384	11	-
NORTH CAROLINA-----	-	-	-	12	12	12	18	30	-	3.31	3.31	4.96	8.27	-	33	33	427	725,124	37	-
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,482	2	-
OHIO-----	-	-	-	2	2	2	2	4	-	2.02	2.02	2.02	4.04	-	35	35	112	197,827	18	-
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	4.03	4.03	5.38	9.41	-	89	89	176	297,498	30	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	40,932	7	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	57,736	17	-
SOUTH CAROLINA-----	-	-	-	7	7	7	7	14	-	3.96	3.96	3.96	7.91	-	15	15	183	353,937	27	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	65,073	12	-
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	1.30	1.30	-	-	-	158	307,827	27	-
TEXAS-----	-	-	1	11	12	12	10	22	-	4.31	4.31	3.59	7.90	-	236	236	282	557,140	43	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74	122,446	12	-
VERMONT-----	-	-	-	3	3	3	1	4	-	9.43	9.43	3.14	12.57	-	138	138	34	63,632	5	-
VIRGINIA-----	-	-	1	1	2	2	1	3	-	1.80	1.80	.90	2.70	-	51	51	136	222,117	23	-
WASHINGTON-----	-	-	-	1	1	1	-	1	-	4.17	4.17	-	4.17	-	121	121	47	47,988	7	-
WEST VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	-
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	1.79	1.79	-	-	-	130	223,159	13	-
TOTAL OR AVERAGE----	-	-	6	183	189	189	189	378	-	2.90	2.90	2.90	5.80	-	63	63	6,919	13,027,611	668	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: DREDGE:																				
NEW MEXICO-----	-	-	-	3	3	3	4	7	-	24.88	24.88	33.18	58.06	-	108	108	11	24,112	1	-
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	1.67	1.67	-	1.67	-	5	5	129	239,283	1	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	-	3.80	3.80	3.04	6.83	-	14	14	140	263,395	2	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	-	4	4	4	1	5	-	4.96	4.96	1.24	6.20	-	31	31	104	161,206	23	
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	1.02	1.02	-	-	-	139	196,080	27	
ARIZONA-----	-	-	-	2	2	2	5	7	-	3.02	3.02	7.55	10.57	-	36	36	87	132,473	18	
ARKANSAS-----	-	-	-	15	15	15	4	19	-	3.62	3.62	.97	4.58	-	72	72	458	828,938	46	
CALIFORNIA-----	-	-	-	1	1	1	1	2	-	3.48	3.48	3.48	6.95	-	434	434	82	57,549	27	
COLORADO-----	-	-	-	1	1	1	-	1	-	5.37	5.37	-	5.37	-	16	16	18	37,266	5	
CONNECTICUT-----	-	-	1	58	59	59	62	121	-	3.08	3.08	3.24	6.32	-	53	53	1,807	3,831,001	24	
FLORIDA-----	-	-	1	21	22	22	38	60	-	2.41	2.41	4.16	6.57	-	52	52	891	1,827,176	45	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	26	1	
HAWAII-----	-	-	1	11	12	12	13	25	-	2.52	2.52	2.73	5.24	-	49	49	473	953,637	18	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	27,968	8	
ILLINOIS-----	-	-	-	1	1	1	-	1	-	5.89	5.89	-	5.89	-	94	94	19	33,954	5	
INDIANA-----	-	-	-	1	1	1	-	1	-	1.23	1.23	-	1.23	-	21	21	68	162,120	5	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	57,661	9	
KANSAS-----	-	-	-	3	3	3	1	4	-	4.71	4.71	1.57	6.28	-	24	24	79	127,352	11	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22,290	6	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,698	3	
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,759	3	
MARYLAND-----	-	-	-	3	3	3	1	4	-	32.09	32.09	10.70	42.79	-	535	535	9	18,695	3	
MASSACHUSETTS-----	-	-	1	2	3	3	-	3	-	2.78	2.78	-	2.78	-	294	294	94	215,605	6	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	
MINNESOTA-----	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	106	164,847	17	
MISSISSIPPI-----	-	-	-	3	3	3	1	4	-	8.74	8.74	2.91	11.66	-	64	64	51	68,617	15	
MISSOURI-----	-	-	-	7	7	7	-	7	-	4.29	4.29	-	4.29	-	25	25	179	326,411	10	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,350	2	
NEBRASKA-----	-	-	-	-	-	-	3	3	-	-	-	2.45	2.45	-	-	-	116	245,006	18	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,953	1	
NEW JERSEY-----	-	-	-	7	7	7	9	16	-	13.42	13.42	17.25	30.67	-	88	88	78	104,344	19	
NEW MEXICO-----	-	-	-	3	3	3	-	3	-	4.50	4.50	-	4.50	-	432	432	71	133,384	11	
NEW YORK-----	-	-	-	14	14	14	18	32	-	2.90	2.90	3.73	6.64	-	26	26	556	964,407	38	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,482	2	
NORTH DAKOTA-----	-	-	-	2	2	2	2	4	-	2.02	2.02	2.02	4.04	-	35	35	112	197,827	18	
OHIO-----	-	-	-	6	6	6	8	14	-	4.03	4.03	5.38	9.41	-	89	89	176	297,498	30	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	40,932	7	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	57,736	17	
PENNSYLVANIA-----	-	-	-	7	7	7	7	14	-	3.96	3.96	3.96	7.91	-	15	15	183	353,937	27	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	65,073	12	
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	1.30	1.30	-	-	-	158	307,827	27	
TENNESSEE-----	-	-	1	11	12	12	10	22	-	4.31	4.31	3.59	7.90	-	236	236	282	557,140	43	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74	122,446	12	
UTAH-----	-	-	-	3	3	3	1	4	-	9.43	9.43	3.14	12.57	-	138	138	34	63,632	5	
VERMONT-----	-	-	1	1	2	2	1	3	-	1.80	1.80	.90	2.70	-	51	51	136	222,117	23	
VIRGINIA-----	-	-	-	1	1	1	-	1	-	4.17	4.17	-	4.17	-	121	121	47	47,988	7	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	
WEST VIRGINIA-----	-	-	-	-	-	-	2	2	-	-	-	1.79	1.79	-	-	-	130	223,159	13	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	2.92	2.92	2.90	5.82	-	62	62	7,059	13,291,006	670	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
TALC-SOAPSTONE-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,058	1	-	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	480	1	-	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,698	3	-	
CALIFORNIA-----	-	-	-	5	5	5	-	5	3.49	3.49	-	3.49	-	11	11	140	285,442	4	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,356	1	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	28,305	3	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	119,613	4	-	
TEXAS-----	-	-	-	3	3	3	3	6	5.02	5.02	5.02	10.03	-	157	157	23	39,314	4	-	
VERMONT-----	-	-	-	1	1	1	1	2	5.09	5.09	5.09	10.17	-	153	153	4	4,036	1	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	9	9	9	4	13	3.49	3.49	1.55	5.05	-	54	54	259	515,302	22	-	
TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,058	1	-	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	480	1	-	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8,604	4	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	18,651	3	2	
GEORGIA-----	-	-	-	2	2	2	1	3	21.45	21.45	10.72	32.17	-	21	21	157	321,745	5	1	
MONTANA-----	-	-	-	9	9	9	2	11	5.59	5.59	1.24	6.84	-	60	60	46	92,728	2	1	
NEW YORK-----	-	-	-	3	3	3	4	7	6.47	6.47	8.63	15.10	-	11	11	14	28,305	3	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	119,613	4	-	
TEXAS-----	-	-	-	3	3	3	3	6	5.02	5.02	5.02	10.03	-	157	157	35	59,309	5	-	
VERMONT-----	-	-	-	4	4	4	1	5	13.49	13.49	3.37	16.86	-	627	627	4	4,036	1	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	21	21	21	11	32	6.38	6.38	3.34	9.72	-	116	116	338	658,529	29	4	
PROCESSING PLANTS:	-	-	-	-	-	-	1	1	-	-	-	3.76	3.76	-	-	22	53,244	1	1	
ALABAMA-----	-	-	-	-	-	-	1	1	12.34	12.34	-	12.34	-	37	37	9	16,210	1	-	
ARKANSAS-----	-	-	-	1	1	1	-	1	4.91	4.91	-	4.91	-	44	44	21	40,738	3	-	
CALIFORNIA-----	-	-	-	2	2	2	2	4	10.88	10.88	10.88	21.76	-	87	87	14	36,766	1	-	
GEORGIA-----	-	-	-	2	2	2	2	4	4.26	4.26	5.86	10.12	-	115	115	169	375,549	3	1	
MONTANA-----	-	-	2	6	8	8	11	19	10.16	10.16	5.08	15.24	-	20	20	20	39,379	1	-	
NEBRASKA-----	-	-	-	2	2	2	1	3	-	-	-	-	-	-	-	3	1,320	1	-	
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	7.24	7.24	-	-	-	55	110,475	-	2	
NEW YORK-----	-	-	-	-	-	-	4	4	-	-	2.60	2.60	-	-	-	40	77,034	1	3	
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	55	113,457	2	-	
TEXAS-----	-	-	-	5	5	5	6	11	8.81	8.81	10.58	19.39	-	74	74	81	173,235	5	-	
VERMONT-----	-	-	-	7	7	7	1	8	8.08	8.08	1.15	9.24	-	38	38	24	44,556	-	1	
VIRGINIA-----	-	-	-	3	3	3	3	6	13.47	13.47	13.47	26.93	-	175	175	-	-	-	-	
TOTAL OR AVERAGE----	-	-	2	27	29	29	30	59	5.36	5.36	5.55	10.91	-	67	67	513	1,081,963	19	10	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
TALC-SOAPSTONE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	1	1	-	-	-	3.43	3.43	-	-	-	25	58,302	2	1
ALABAMA-----	-	-	-	-	-	-	-	-	-	11.98	11.98	-	-	-	36	36	10	16,690	2	-
ARKANSAS-----	-	-	-	1	1	1	-	1	-	4.05	4.05	-	4.05	-	36	36	30	49,342	7	-
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	14.44	14.44	10.83	25.26	-	65	65	28	55,417	4	2
GEORGIA-----	-	-	-	4	4	4	3	7	-	4.88	4.88	3.73	8.60	-	89	89	326	697,294	8	2
MONTANA-----	-	-	2	15	17	17	13	30	-	10.16	10.16	5.08	15.24	-	20	20	20	39,379	1	-
NEBRASKA-----	-	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-	3	1,320	1	-
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	203,203	2	3
NEW YORK-----	-	-	-	-	-	-	-	-	-	2.95	2.95	7.87	10.83	-	5	5	54	105,339	4	3
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	1.90	1.90	-	-	-	110	233,070	6	2
TEXAS-----	-	-	-	8	8	8	9	17	-	6.86	6.86	7.72	14.59	-	117	117	116	232,544	10	-
VERMONT-----	-	-	-	11	11	11	2	13	-	9.46	9.46	1.72	11.18	-	188	188	116	232,544	10	-
VIRGINIA-----	-	-	-	3	3	3	3	6	-	12.35	12.35	12.35	24.70	-	161	161	28	48,592	1	1
TOTAL OR AVERAGE----	-	-	2	48	50	50	41	91	-	5.75	5.75	4.71	10.46	-	86	86	851	1,740,492	48	14
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6,900	-	2
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,960	-	1
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	16,367	-	3
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,170	-	1
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	98,255	-	7
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,433	-	1
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1,200	-	1
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	68,877	-	2
NEW YORK-----	-	-	-	-	-	-	1	1	-	-	-	2.90	2.90	-	-	-	13	22,317	-	4
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	12,300	-	5
TEXAS-----	-	-	-	1	1	1	-	1	-	16.26	16.26	-	16.26	-	49	49	18	37,413	-	5
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,864	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	.67	.67	.67	1.34	-	2	2	159	298,056	-	33
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	1	1	-	-	-	3.07	3.07	-	-	-	31	65,202	2	3
ALABAMA-----	-	-	-	-	-	-	-	-	-	9.69	9.69	-	9.69	-	29	29	12	20,650	2	1
ARKANSAS-----	-	-	-	1	1	1	-	1	-	3.04	3.04	-	3.04	-	27	27	37	65,709	7	3
CALIFORNIA-----	-	-	-	1	1	1	3	7	-	12.01	12.01	9.01	21.03	-	54	54	33	66,587	4	3
GEORGIA-----	-	-	-	4	4	4	13	30	-	4.27	4.27	3.27	7.54	-	78	78	376	795,549	8	9
MONTANA-----	-	-	2	15	17	17	13	30	-	8.19	8.19	4.10	12.29	-	16	16	25	48,812	1	1
NEBRASKA-----	-	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-	5	2,520	1	1
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	137	272,080	2	5
NEW YORK-----	-	-	-	3	3	3	9	12	-	2.21	2.21	6.62	8.82	-	4	4	67	127,656	4	7
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	1.57	1.57	-	-	-	113	245,370	6	7
TEXAS-----	-	-	-	9	9	9	9	18	-	7.34	7.34	7.34	14.67	-	113	113	120	245,370	6	7
VERMONT-----	-	-	-	11	11	11	2	13	-	8.15	8.15	1.48	9.63	-	162	162	134	269,957	10	5
VIRGINIA-----	-	-	-	3	3	3	3	6	-	10.26	10.26	10.26	20.53	-	133	133	33	58,456	1	2
TOTAL OR AVERAGE----	-	-	2	49	51	51	42	93	-	5.00	5.00	4.12	9.12	-	73	73	1,010	2,038,548	48	47

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	INCIDENCE RATES					SEVERITY MEASURES							
		PERMANENT		TEMPO- RARY				TOTAL NFDL	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PARTIAL																	
SODIUM COMPOUNDS-CONTINUED: SURFACE MINES: OPEN PIT: WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	880	1	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	880	1	-	
TOTAL OR AVERAGE, SURFACE: WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	880	1	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	880	1	-	
TOTAL OR AVERAGE, MINING: WYOMING-----	-	-	1	45	46	46	71	117	-	3.72	3.72	5.75	9.47	-	160	160	1,187	2,470,805	6	5
TOTAL OR AVERAGE----	-	-	1	45	46	46	71	117	-	3.72	3.72	5.75	9.47	-	160	160	1,187	2,470,805	6	5
PROCESSING PLANTS: WYOMING-----	-	-	-	31	31	31	65	96	-	2.29	2.29	4.80	7.08	-	69	69	1,277	2,710,596	-	5
TOTAL OR AVERAGE----	-	-	-	31	31	31	65	96	-	2.29	2.29	4.80	7.08	-	69	69	1,277	2,710,596	-	5
TOTAL OR AVERAGE, ALL MINES AND PLANTS: WYOMING-----	-	-	1	76	77	77	136	213	-	2.97	2.97	5.25	8.22	-	112	112	2,464	5,181,401	6	10
TOTAL OR AVERAGE----	-	-	1	76	77	77	136	213	-	2.97	2.97	5.25	8.22	-	112	112	2,464	5,181,401	6	10
OFFICE: WYOMING-----	-	-	-	1	1	1	1	2	-	.29	.29	.29	.58	-	(*)	(*)	414	688,958	-	5
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	.29	.29	.29	.58	-	(*)	(*)	414	688,958	-	5
GRAND TOTAL OR AVERAGE: WYOMING-----	-	-	1	77	78	78	137	215	-	2.66	2.66	4.67	7.32	-	99	99	2,878	5,870,359	6	15
TOTAL OR AVERAGE----	-	-	1	77	78	78	137	215	-	2.66	2.66	4.67	7.32	-	99	99	2,878	5,870,359	6	15

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
TALC-SOAPSTONE: UNDERGROUND MINES: UNDERGROUND:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	906	1	
GEORGIA-----	-	-	-	-	-	-	1	1	-	-	-	14.22	14.22	-	-	-	10	14,060	3	
MONTANA-----	-	-	-	4	4	4	-	4	-	29.68	29.68	-	29.68	-	594	594	13	26,951	1	
NEW YORK-----	-	-	-	2	2	2	4	6	-	6.39	6.39	12.78	19.18	-	10	10	31	62,575	1	
VERMONT-----	-	-	-	3	3	3	-	3	-	30.01	30.01	-	30.01	-	1,560	1,560	12	19,995	1	
TOTAL OR AVERAGE----	-	-	-	9	9	9	5	14	-	14.46	14.46	8.03	22.49	-	384	384	68	124,487	7	
SURFACE AT UNDERGROUND:																				
GEORGIA-----	-	-	-	2	2	2	-	2	-	87.13	87.13	-	87.13	-	87	87	4	4,591	-	
MONTANA-----	-	-	-	-	-	-	2	2	-	-	-	47.89	47.89	-	-	-	4	8,352	-	
NEW YORK-----	-	-	-	1	1	1	-	1	-	34.50	34.50	-	34.50	-	69	69	3	5,797	-	
TOTAL OR AVERAGE----	-	-	-	3	3	3	2	5	-	32.02	32.02	21.34	53.36	-	43	43	11	18,740	-	
TOTAL OR AVERAGE, UG:																				
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	906	1	
GEORGIA-----	-	-	-	2	2	2	1	3	-	21.45	21.45	10.72	32.17	-	21	21	14	18,651	3	
MONTANA-----	-	-	-	4	4	4	2	6	-	22.66	22.66	11.33	33.99	-	453	453	17	35,303	1	
NEW YORK-----	-	-	-	3	3	3	4	7	-	8.78	8.78	11.70	20.48	-	15	15	34	68,372	1	
VERMONT-----	-	-	-	3	3	3	-	3	-	30.01	30.01	-	30.01	-	1,560	1,560	12	19,995	1	
TOTAL OR AVERAGE----	-	-	-	12	12	12	7	19	-	16.76	16.76	9.77	26.53	-	339	339	79	143,227	7	
SURFACE MINES: OPEN PIT:																				
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,058	1	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	480	1	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7,698	3	
MONTANA-----	-	-	-	5	5	5	-	5	-	3.49	3.49	-	3.49	-	11	11	140	286,442	4	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	24,356	1	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	28,305	3	
TEXAS-----	-	-	-	3	3	3	3	6	-	5.02	5.02	5.02	10.03	-	157	157	55	119,613	4	
VERMONT-----	-	-	-	1	1	1	1	2	-	5.09	5.09	5.09	10.17	-	153	153	23	39,314	4	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,036	1	
TOTAL OR AVERAGE----	-	-	-	9	9	9	4	13	-	3.49	3.49	1.55	5.05	-	54	54	259	515,302	22	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
SHALE-CONTINUED: OFFICE:																				
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,480	-	1
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,894	-	1
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,080	-	1
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	140	-	1
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	8,240	-	1
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	525	-	1
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9,216	-	1
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	155	-	3
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	448	-	1
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,861	-	1
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,098	-	2
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	48	-	1
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,135	-	1
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	19,372	-	7
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,379	-	3
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	17,772	-	4
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18	-	1
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	42,120	-	1
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	48	-	1
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	27,895	-	3
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,805	-	1
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,727	-	5
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	166,456	-	42

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
SHALE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	2	2	2	3	5	-	5.94	5.94	8.91	14.86	-	92	92	33	67,312	3	2
ALABAMA-----	-	-	-	-	-	-	3	3	-	-	-	4.41	4.41	-	-	-	60	135,917	1	2
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,606	1	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	68,386	1	2
FLORIDA-----	-	-	-	-	-	-	4	4	-	-	-	11.70	11.70	-	-	-	24	29,625	4	1
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60,410	2	2	
INDIANA-----	-	-	-	2	2	2	-	2	-	6.62	6.62	-	6.62	-	66	66	37	5,359	1	1
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	10,193	1	1
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	8,921	3	3
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	2,812	1	1
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	46,707	1	2
MASSACHUSETTS-----	-	-	-	4	4	4	1	5	-	17.13	17.13	4.28	21.41	-	223	223	21	31,145	3	2
MICHIGAN-----	-	-	-	1	1	1	-	1	-	6.42	6.42	-	6.42	-	45	45	16	3,061	1	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	536	1	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,878	2	2
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7,177	1	2
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	40	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	253,126	8	9
NEW YORK-----	-	-	-	17	17	17	2	19	-	13.43	13.43	1.58	15.01	-	672	672	128	26,464	5	3
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	15.11	15.11	-	15.11	-	287	287	28	110,941	8	6
OHIO-----	-	-	-	5	5	5	-	5	-	9.01	9.01	-	9.01	-	186	186	59	25,385	9	1
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	180,140	7	3
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	14,870	2	1
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	222,305	3	5
TEXAS-----	-	-	-	5	5	5	5	10	-	4.50	4.50	4.50	9.00	-	25	25	110	31,159	1	2
UTAH-----	-	-	-	1	1	1	-	1	-	6.42	6.42	-	6.42	-	135	135	17	201,019	11	8
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	.99	.99	-	-	-	120	1,315	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
TOTAL OR AVERAGE----	-	-	-	39	39	39	19	58	-	5.03	5.03	2.45	7.48	-	149	149	870	1,549,809	83	61
SODIUM COMPOUNDS:																				
UNDERGROUND MINES:																				
UNDERGROUND:																				
WYOMING-----	-	-	1	43	44	44	66	110	-	3.66	3.66	5.48	9.14	-	160	160	1,155	2,407,126	5	-
TOTAL OR AVERAGE----	-	-	1	43	44	44	66	110	-	3.66	3.66	5.48	9.14	-	160	160	1,155	2,407,126	5	-
SURFACE AT UNDERGROUND:																				
WYOMING-----	-	-	-	2	2	2	5	7	-	6.37	6.37	15.92	22.29	-	172	172	31	62,799	-	5
TOTAL OR AVERAGE----	-	-	-	2	2	2	5	7	-	6.37	6.37	15.92	22.29	-	172	172	31	62,799	-	5
TOTAL OR AVERAGE, UG:																				
WYOMING-----	-	-	1	45	46	46	71	117	-	3.72	3.72	5.75	9.47	-	160	160	1,186	2,469,925	5	5
TOTAL OR AVERAGE----	-	-	1	45	46	46	71	117	-	3.72	3.72	5.75	9.47	-	160	160	1,186	2,469,925	5	5

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPER- ATIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
SHALE-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	20,240	3	-	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,018	1	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,606	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	12,192	1	-	
FLORIDA-----	-	-	-	-	-	1	1	-	-	-	16.40	16.40	-	-	-	23	29,485	4	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	9,781	2	-	
INDIANA-----	-	-	-	1	1	1	-	1	20.45	20.45	-	20.45	-	327	327	9	8,766	3	-	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,364	1	-	
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,227	1	-	
MASSACHUSETTS-----	-	-	3	3	3	1	4	65.03	65.03	21.68	86.70	6.89	1,084	1,084	14	29,047	3	-		
MICHIGAN-----	-	-	1	1	1	-	1	6.89	6.89	-	-	-	-	-	3	3,061	1	-		
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	536	1	-		
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,350	2	-		
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,953	1	-		
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	40	1	-		
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	69,978	8	-		
NEW YORK-----	-	-	1	1	1	-	1	2.86	2.86	-	2.86	-	817	817	24	24,085	5	-		
NORTH CAROLINA-----	-	-	2	2	2	-	2	16.61	16.61	-	16.61	-	316	316	27	46,671	8	-		
OHIO-----	-	-	2	2	2	-	2	8.57	8.57	-	8.57	-	150	150	25	9,502	8	-		
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	18,456	6	-		
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	14,822	2	-		
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	53,186	3	-		
TEXAS-----	-	-	2	2	2	1	3	7.52	7.52	3.76	11.28	-	26	26	2	3,934	1	-		
UTAH-----	-	-	-	-	-	-	1	-	-	3.55	3.55	-	-	-	49	56,316	11	-		
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,315	1	-		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	12	12	12	4	16	5.52	5.52	1.84	7.36	-	202	202	305	434,931	79	-	
PROCESSING PLANTS:																				
ALABAMA-----	-	-	-	2	2	2	3	5	9.18	9.18	13.76	22.94	-	142	142	21	43,592	-	1	
CALIFORNIA-----	-	-	-	-	-	-	3	3	-	-	4.76	4.76	-	-	-	55	126,005	-	1	
FLORIDA-----	-	-	-	-	-	-	3	3	-	-	11.09	11.09	-	-	-	29	54,114	-	1	
INDIANA-----	-	-	-	1	1	1	-	1	4.72	4.72	-	4.72	-	19	19	27	42,389	-	1	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4,834	1	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	977	1	-	
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	6.33	6.33	-	6.33	-	13	13	14	31,619	-	1	
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	480	-	1	
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,089	-	1	
NEW YORK-----	-	-	-	16	16	16	2	18	19.54	19.54	2.44	21.98	-	690	690	73	163,776	-	2	
OHIO-----	-	-	-	3	3	3	-	3	12.90	12.90	-	12.90	-	292	292	20	46,498	-	2	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	15,865	1	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	119,564	1	2	
TEXAS-----	-	-	-	3	3	3	4	7	4.25	4.25	5.66	9.91	-	30	30	67	141,224	-	2	
UTAH-----	-	-	-	1	1	1	-	1	8.54	8.54	-	8.54	-	179	179	13	23,420	-	1	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	131,976	-	3	
TOTAL OR AVERAGE----	-	-	-	27	27	27	15	42	5.69	5.69	3.16	8.86	-	150	150	458	948,422	4	19	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES													
		PERMANENT		TEMPO- RARY				TOTAL NFDL												
		TOTAL	PARTIAL																	
SHALE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	2	2	2	3	5	-	6.27	6.27	9.40	15.67	-	97	97	32	63,832	3	1
ALABAMA-----	-	-	-	-	-	-	3	3	-	-	-	4.65	4.65	-	-	-	56	129,023	1	1
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,606	1	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	66,306	1	1
FLORIDA-----	-	-	-	-	-	-	4	4	-	-	-	12.07	12.07	-	-	-	23	29,485	4	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	52,170	2	1
INDIANA-----	-	-	-	2	2	2	-	2	-	7.67	7.67	-	7.67	-	77	77	6	4,834	1	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	977	1	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8,766	3	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,364	1	-
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	40,846	1	1
MASSACHUSETTS-----	-	-	-	4	4	4	1	5	-	19.59	19.59	4.90	24.48	-	255	255	14	29,047	3	-
MICHIGAN-----	-	-	-	1	1	1	-	1	-	6.89	6.89	-	6.89	-	48	48	3	3,061	1	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	536	1	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,830	2	1
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,042	1	1
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	40	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114	233,754	8	2
NEW YORK-----	-	-	-	17	17	17	2	19	-	14.55	14.55	1.71	16.26	-	728	728	24	24,085	5	-
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	16.61	16.61	-	16.61	-	316	316	47	93,169	8	2
OHIO-----	-	-	-	5	5	5	-	5	-	10.73	10.73	-	10.73	-	221	221	34	25,367	9	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67	138,020	7	2
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	14,822	2	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	194,410	3	2
TEXAS-----	-	-	-	5	5	5	5	10	-	5.14	5.14	5.14	10.29	-	29	29	15	27,354	1	1
UTAH-----	-	-	-	1	1	1	-	1	-	7.31	7.31	-	7.31	-	154	154	114	188,292	11	3
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	1.06	1.06	-	-	-	1	1,315	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	39	39	39	19	58	-	5.64	5.64	2.75	8.39	-	166	166	763	1,383,353	83	19

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
SHALE: SURFACE MINES: OPEN PIT: ALABAMA----- CALIFORNIA----- COLORADO----- FLORIDA----- GEORGIA----- INDIANA----- KENTUCKY----- MARYLAND----- MASSACHUSETTS----- MICHIGAN----- MISSOURI----- MONTANA----- NEBRASKA----- NEW JERSEY----- NEW MEXICO----- NEW YORK----- NORTH CAROLINA----- OHIO----- OKLAHOMA----- PENNSYLVANIA----- SOUTH CAROLINA----- TEXAS----- UTAH----- VIRGINIA----- WYOMING----- TOTAL OR AVERAGE----	- 																			

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
SHALE-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	20,240	3	-	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3,018	1	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,606	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	12,192	1	-	
FLORIDA-----	-	-	-	-	-	-	1	1	-	-	-	16.40	16.40	-	-	23	29,485	4	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	9,781	2	-	
INDIANA-----	-	-	-	1	1	1	-	1	-	20.45	20.45	-	20.45	-	327	327	9	8,766	3	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2,364	1	-	
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9,227	1	-	
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	65.03	65.03	21.68	86.70	-	1,084	1,084	14	29,047	3	-
MICHIGAN-----	-	-	-	1	1	1	-	1	-	6.89	6.89	-	6.89	-	48	48	3	3,061	1	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	536	1	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,350	2	-	
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,953	1	-	
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	40	1	-	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	69,978	8	-	
NEW YORK-----	-	-	-	1	1	1	-	1	-	2.86	2.86	-	2.86	-	817	817	24	24,085	5	-
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	16.61	16.61	-	16.61	-	316	316	27	46,671	8	-
OHIO-----	-	-	-	2	2	2	-	2	-	8.57	8.57	-	8.57	-	150	150	25	9,502	8	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	18,456	6	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	14,822	2	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	53,186	3	-	
TEXAS-----	-	-	-	2	2	2	1	3	-	7.52	7.52	3.76	11.28	-	26	26	2	3,934	1	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	56,316	11	-	
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	3.55	3.55	-	-	-	1	1,315	1	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	4	16	-	5.52	5.52	1.84	7.36	-	202	202	305	434,931	79	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NOL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
SALT-CONTINUED: TOTAL OR AVERAGE, UG:	-	-	-	3	3	3	1	4	-	3.07	3.07	1.02	4.09	-	16	16	86	195,364	3	2
KANSAS-----	-	-	-	14	14	14	7	21	-	4.14	4.14	2.07	6.20	-	154	154	327	677,128	3	3
LOUISIANA-----	-	-	1	18	19	19	12	31	-	5.13	5.13	3.24	8.36	-	133	133	375	741,290	2	2
NEW YORK-----	-	-	-	22	22	22	7	29	-	7.48	7.48	2.38	9.86	-	146	146	301	588,103	2	2
OHIO-----	-	-	-	-	-	-	4	4	-	-	-	12.29	12.29	-	-	-	32	65,093	2	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,595	1	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	57	58	58	31	89	-	5.10	5.10	2.73	7.83	-	128	128	1,125	2,274,573	13	10
SURFACE MINES: OPEN PIT: NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,020	1	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,020	1	-
DREDGE: NEW MEXICO-----	-	-	-	3	3	3	4	7	-	24.88	24.88	33.18	58.06	-	108	108	11	24,112	1	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	24.88	24.88	33.18	58.06	-	108	108	11	24,112	1	-
TOTAL OR AVERAGE, SURFACE: NEW MEXICO-----	-	-	-	3	3	3	4	7	-	20.60	20.60	27.46	48.06	-	89	89	14	29,132	2	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	20.60	20.60	27.46	48.06	-	89	89	14	29,132	2	-
TOTAL OR AVERAGE, MINING: KANSAS-----	-	-	-	3	3	3	1	4	-	3.07	3.07	1.02	4.09	-	16	16	86	195,364	3	2
LOUISIANA-----	-	-	-	14	14	14	7	21	-	4.14	4.14	2.07	6.20	-	154	154	327	677,128	3	3
NEW MEXICO-----	-	-	-	3	3	3	4	7	-	20.60	20.60	27.46	48.06	-	89	89	14	29,132	2	-
NEW YORK-----	-	-	1	18	19	19	12	31	-	5.13	5.13	3.24	8.36	-	133	133	375	741,290	2	2
OHIO-----	-	-	-	22	22	22	7	29	-	7.48	7.48	2.38	9.86	-	146	146	301	588,103	2	2
TEXAS-----	-	-	-	-	-	-	4	4	-	-	-	12.29	12.29	-	-	-	32	65,093	2	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,595	1	1
TOTAL OR AVERAGE----	-	-	1	60	61	61	35	96	-	5.30	5.30	3.04	8.33	-	128	128	1,139	2,303,705	15	10
PROCESSING PLANTS: KANSAS-----	-	-	-	24	24	24	14	38	-	8.63	8.63	5.03	13.66	-	528	528	269	556,331	1	3
LOUISIANA-----	-	-	-	9	9	9	5	14	-	3.75	3.75	2.08	5.84	-	148	148	266	479,809	-	2
NEW MEXICO-----	-	-	-	-	-	-	1	1	-	-	-	4.15	4.15	-	-	-	25	48,184	1	-
NEW YORK-----	-	-	-	3	3	3	1	4	-	27.09	27.09	9.03	36.12	-	235	235	12	22,150	-	1
OHIO-----	-	-	-	2	2	2	-	2	-	8.04	8.04	-	8.04	-	60	60	31	49,725	-	1
TEXAS-----	-	-	1	1	2	2	5	7	-	1.05	1.05	2.62	3.66	-	57	57	192	382,242	-	2
UTAH-----	-	-	-	3	3	3	-	3	-	19.10	19.10	-	19.10	-	821	821	23	31,407	-	1
TOTAL OR AVERAGE----	-	-	1	42	43	43	26	69	-	5.48	5.48	3.31	8.79	-	268	268	818	1,569,848	2	10

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
SALT-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	27	27	27	15	42	-	7.18	7.18	3.99	11.17	-	395	395	355	751,695	4	5
KANSAS-----	-	-	-	23	23	23	12	35	-	3.98	3.98	2.07	6.05	-	151	151	593	1,156,937	3	5
LOUISIANA-----	-	-	-	3	3	3	5	8	-	7.76	7.76	12.93	20.69	-	34	34	39	77,316	3	-
NEW MEXICO-----	-	-	1	21	22	22	13	35	-	5.76	5.76	3.41	9.17	-	136	136	387	763,440	2	3
NEW YORK-----	-	-	-	24	24	24	7	31	-	7.53	7.53	2.19	9.72	-	140	140	332	637,828	2	3
OHIO-----	-	-	1	1	2	2	9	11	-	.89	.89	4.02	4.92	-	48	48	224	447,335	2	2
TEXAS-----	-	-	-	3	3	3	-	3	-	15.38	15.38	-	15.38	-	662	662	27	39,002	1	2
UTAH-----	-	-	-	3	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	102	104	104	61	165	-	5.37	5.37	3.15	8.52	-	184	184	1,957	3,873,553	17	20
OFFICE:	-	-	-	-	-	-	1	1	-	-	-	1.34	1.34	-	-	-	79	149,652	-	4
KANSAS-----	-	-	1	-	1	1	-	1	-	1.43	1.43	-	1.43	-	71	71	69	140,186	-	3
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11,852	-	2
NEW MEXICO-----	-	-	-	-	-	-	1	1	-	-	-	2.31	2.31	-	-	-	45	86,595	-	2
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	98,079	-	2
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	36,944	-	2
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	11,019	-	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	-	1	1	2	3	-	.37	.37	.75	1.12	-	19	19	279	534,327	-	16
GRAND TOTAL OR AVERAGE:	-	-	-	27	27	27	16	43	-	5.99	5.99	3.55	9.54	-	329	329	434	901,347	4	9
KANSAS-----	-	-	1	23	24	24	12	36	-	3.70	3.70	1.85	5.55	-	143	143	662	1,297,123	3	8
LOUISIANA-----	-	-	-	3	3	3	5	8	-	6.73	6.73	11.21	17.94	-	29	29	45	89,168	3	2
NEW MEXICO-----	-	-	1	21	22	22	14	36	-	5.18	5.18	3.29	8.47	-	122	122	432	850,035	2	5
NEW YORK-----	-	-	-	24	24	24	7	31	-	6.52	6.52	1.90	8.42	-	121	121	385	735,907	2	5
OHIO-----	-	-	1	1	2	2	9	11	-	.83	.83	3.72	4.54	-	45	45	243	484,279	2	4
TEXAS-----	-	-	-	3	3	3	-	3	-	11.99	11.99	-	11.99	-	516	516	35	50,021	1	3
UTAH-----	-	-	-	3	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	3	102	105	105	63	168	-	4.76	4.76	2.86	7.62	-	164	164	2,236	4,407,880	17	36

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
OTHER NONMTLS NEC-CONTINUED:																				
SURFACE MINES:																				
OPEN PIT:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	22,357	3	-
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	18.65	18.65	-	-	-	24	21,447	8	-
CALIFORNIA-----	-	-	-	3	3	3	2	5	-	4.12	4.12	2.75	6.87	-	52	52	85	145,618	6	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	296	1	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,503	1	-
IDAHO-----	-	-	-	-	-	-	2	2	-	-	-	15.04	15.04	-	-	-	15	26,603	2	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,434	2	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	2.44	2.44	-	-	-	34	82,019	5	-
NEW YORK-----	-	-	-	2	2	2	-	2	-	10.24	10.24	-	10.24	-	10	10	18	39,050	2	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,407	2	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,910	1	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,837	3	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	34,808	2	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,152	1	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	7	12	-	2.30	2.30	3.22	5.52	-	18	18	254	434,441	39	-
TOTAL OR AVERAGE, SURFACE:																				
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	22,357	3	-
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	18.65	18.65	-	-	-	24	21,447	8	-
CALIFORNIA-----	-	-	-	3	3	3	2	5	-	4.12	4.12	2.75	6.87	-	52	52	85	145,618	6	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	296	1	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,503	1	-
IDAHO-----	-	-	-	-	-	-	2	2	-	-	-	15.04	15.04	-	-	-	15	26,603	2	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,434	2	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	2.44	2.44	-	-	-	34	82,019	5	-
NEW YORK-----	-	-	-	2	2	2	-	2	-	10.24	10.24	-	10.24	-	10	10	18	39,050	2	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	24,407	2	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,910	1	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12,837	3	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	34,808	2	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,152	1	-
TOTAL OR AVERAGE----	-	-	-	5	5	5	7	12	-	2.30	2.30	3.22	5.52	-	18	18	254	434,441	39	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
OTHER NONMTLS NEC-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	22,357	3	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	21,447	8	-	
ARKANSAS-----	-	-	-	-	-	2	2	-	-	-	18.65	18.65	-	-	-	85	145,618	6	-	
CALIFORNIA-----	-	-	-	3	3	2	5	-	4.12	4.12	2.75	6.87	-	52	52	4	296	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7,503	1	-	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	26,603	2	-	
IDAHO-----	-	-	-	-	-	2	2	-	-	-	15.04	15.04	-	-	-	15	20,417	3	-	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	82,019	5	-	
NEVADA-----	-	-	-	-	-	1	1	-	-	-	2.44	2.44	-	-	-	34	61,010	3	1	
NEW YORK-----	-	-	1	2	3	3	3	-	9.83	9.83	-	9.83	-	252	252	29	24,407	2	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	3,910	1	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	12,837	3	-	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	861	1	1	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	34,808	2	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	4,152	1	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
TOTAL OR AVERAGE----	-	-	1	5	6	6	7	-	2.56	2.56	2.99	5.55	-	49	49	275	468,245	42	2	
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8,600	-	1	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	112,199	3	3	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	975	1,056,892	2	2	
CALIFORNIA-----	-	-	1	65	66	33	99	-	12.49	12.49	6.24	18.73	-	146	146	538	33,225	-	1	
CONNECTICUT-----	-	-	-	6	6	-	6	-	36.12	36.12	-	36.12	-	975	975	15	35,775	1	-	
IDAHO-----	-	-	-	4	4	2	6	-	22.36	22.36	11.18	33.54	-	45	45	20	133,877	2	-	
ILLINOIS-----	-	-	-	7	7	3	10	-	10.46	10.46	4.48	14.94	-	133	133	63	10,053	1	-	
MAINE-----	-	-	-	2	2	1	3	-	39.79	39.79	19.89	59.68	-	139	139	5	380,317	3	2	
NEVADA-----	-	-	-	29	29	9	38	-	15.25	15.25	4.73	19.98	-	512	512	170	100,070	1	-	
NEW JERSEY-----	-	-	-	5	5	-	5	-	9.99	9.99	-	9.99	-	108	108	53	343,247	2	2	
NEW YORK-----	-	-	-	10	10	8	18	-	5.83	5.83	4.66	10.49	-	94	94	170	71,250	3	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	109,676	2	1	
OREGON-----	-	-	-	5	5	-	5	-	9.12	9.12	-	9.12	-	35	35	51	64,075	1	-	
PENNSYLVANIA-----	-	-	-	5	5	-	5	-	15.61	15.61	-	15.61	-	153	153	31	4,195	1	-	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	44,048	1	-	
TEXAS-----	-	-	-	6	6	-	6	-	27.24	27.24	-	27.24	-	881	881	23	106,459	1	1	
WASHINGTON-----	-	-	1	4	5	-	5	-	9.39	9.39	-	9.39	-	122	122	50				
TOTAL OR AVERAGE----	-	-	2	148	150	56	206	-	11.48	11.48	4.28	15.76	-	196	196	1,307	2,613,958	24	13	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
OTHER NONMTLS NEC-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	30,957	3	1	
ARIZONA-----	-	-	-	-	-	-	2	-	-	-	-	2.99	2.99	-	-	-	92	133,646	11	3
ARKANSAS-----	-	-	-	-	-	-	35	11.48	11.48	5.82	17.30	-	-	135	135	623	1,202,510	8	2	
CALIFORNIA-----	-	1	-	68	69	69	-	-	-	-	-	-	-	-	-	4	296	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CONNECTICUT-----	-	-	-	6	6	6	6	29.46	29.46	-	29.46	-	796	796	19	40,728	1	1		
IDAHO-----	-	-	-	4	4	4	4	12.83	12.83	12.83	25.65	-	26	26	35	62,378	3	-		
ILLINOIS-----	-	-	-	7	7	7	3	9.07	9.07	3.89	12.96	-	115	115	73	154,294	5	-		
MAINE-----	-	-	-	2	2	2	1	39.79	39.79	19.89	59.68	-	139	139	5	10,053	1	-		
NEVADA-----	-	-	-	29	29	29	10	12.54	12.54	4.33	16.87	-	421	421	204	462,336	8	2		
NEW JERSEY-----	-	-	-	5	5	5	5	9.99	9.99	-	9.99	-	108	108	53	100,070	1	-		
NEW YORK-----	-	-	1	12	13	13	8	6.43	6.43	3.96	10.39	-	118	118	199	404,257	5	3		
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	95,657	5	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,910	1	-	
OREGON-----	-	-	-	5	5	5	5	8.16	8.16	-	8.16	-	31	31	57	122,513	5	1		
PENNSYLVANIA-----	-	-	-	5	5	5	5	15.61	15.61	-	15.61	-	153	153	31	64,075	1	-		
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4,195	1	-	
TEXAS-----	-	-	-	6	6	6	6	27.24	27.24	-	27.24	-	881	881	23	44,048	1	-		
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	861	1	1	
WASHINGTON-----	-	-	1	4	5	5	5	7.08	7.08	-	7.08	-	92	92	67	141,267	3	1		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,152	1	-	
TOTAL OR AVERAGE----	-	-	3	153	156	156	63	10.12	10.12	4.09	14.21	-	173	173	1,582	3,082,203	66	15		
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4,540	-	2	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	25,050	-	7	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	163,916	-	6	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	11,657	-	1	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2,981	-	1	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	26,038	-	2	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,973	-	1	
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	30,191	-	5	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,640	-	1	
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	113,005	-	4	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11,622	-	3	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,130	-	1	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	17,598	-	3	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	16,039	-	1	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,998	-	1	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	15,506	-	1	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	43,109	-	2	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264	498,993	-	42	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
OTHER NONMTLS NEC-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	35,497	3	3	
ARIZONA-----	-	-	-	-	-	-	2	2	-	-	-	2.52	2.52	-	-	-	111	158,696	11	10
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	8
CALIFORNIA-----	-	-	1	68	69	69	35	104	-	10.10	10.10	5.12	15.22	-	119	119	706	1,366,426	8	8
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	296	-	1	-
CONNECTICUT-----	-	-	-	6	6	6	-	6	-	22.91	22.91	-	22.91	-	618	618	24	52,385	1	2
IDAHO-----	-	-	-	4	4	4	4	8	-	12.24	12.24	12.24	24.48	-	24	24	37	65,359	3	1
ILLINOIS-----	-	-	-	7	7	7	3	10	-	7.76	7.76	3.33	11.09	-	99	99	86	180,332	5	2
MAINE-----	-	-	-	2	2	2	1	3	-	24.96	24.96	12.48	37.44	-	87	87	8	16,026	1	1
NEVADA-----	-	-	-	29	29	29	10	39	-	11.78	11.78	4.06	15.84	-	396	396	220	492,527	8	7
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	9.20	9.20	-	9.20	-	99	99	58	108,710	1	1
NEW YORK-----	-	-	1	12	13	13	8	21	-	5.03	5.03	3.09	8.12	-	92	92	259	517,262	5	7
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	107,279	5	3
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5,040	1	1
OREGON-----	-	-	-	5	5	5	-	5	-	7.14	7.14	-	7.14	-	27	27	66	140,111	5	4
PENNSYLVANIA-----	-	-	-	5	5	5	-	5	-	12.48	12.48	-	12.48	-	122	122	39	80,114	1	1
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6,193	1	1
TEXAS-----	-	-	-	6	6	6	-	6	-	20.15	20.15	-	20.15	-	652	652	29	58,554	1	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	861	1	1
WASHINGTON-----	-	-	1	4	5	5	-	5	-	5.42	5.42	-	5.42	-	71	71	88	184,376	3	3
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,152	1	-
TOTAL OR AVERAGE----	-	-	3	153	156	156	63	219	-	8.71	8.71	3.52	12.23	-	149	149	1,846	3,581,196	66	57
ALL NONMETALLIC MINERALS: UNDERGROUND MINES: UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	19,613	5	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	179	313,803	4	-
COLORADO-----	-	-	-	18	18	18	4	22	-	11.47	11.47	2.55	14.02	-	214	214	10	14,060	3	-
GEORGIA-----	-	-	-	-	-	-	1	1	-	-	-	14.22	14.22	-	-	-	10	-	4	-
ILLINOIS-----	-	-	-	3	3	3	5	8	-	5.73	5.73	9.55	15.28	-	128	128	54	104,709	5	-
INDIANA-----	-	-	-	2	2	2	2	4	-	2.56	2.56	2.56	5.13	-	206	206	66	155,994	2	-
IOWA-----	-	-	-	1	1	1	-	1	-	2.81	2.81	-	2.81	-	132	132	32	71,217	1	-
KANSAS-----	-	-	-	2	2	2	2	4	-	2.71	2.71	2.71	5.43	-	52	52	67	147,414	5	-
LOUISIANA-----	-	-	-	11	11	11	4	15	-	3.76	3.76	1.37	5.12	-	140	140	284	585,691	3	-
MICHIGAN-----	-	-	-	1	1	1	-	1	-	4.21	4.21	-	4.21	-	130	130	19	47,539	2	-
MONTANA-----	2	-	-	7	7	9	16	25	2.66	9.33	11.99	21.32	33.30	15.986	145	16,131	82	150,129	3	-
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6,176	3	-
NEW MEXICO-----	-	-	-	23	23	23	18	41	-	2.48	2.48	1.94	4.43	-	128	128	799	1,851,981	8	-
NEW YORK-----	-	-	1	19	20	20	15	35	-	5.79	5.79	4.34	10.14	-	134	134	343	690,593	5	-
OHIO-----	-	-	-	14	14	14	5	19	-	6.39	6.39	2.28	8.67	-	146	146	220	438,139	3	-
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	28.38	28.38	28.38	56.76	-	28	28	7	7,047	1	-
TEXAS-----	-	-	-	-	-	-	4	4	-	-	-	12.29	12.29	-	-	-	32	65,093	2	-
UTAH-----	-	-	-	3	3	3	6	9	-	8.24	8.24	16.49	24.73	-	11	11	47	72,792	13	-
VERMONT-----	-	-	-	3	3	3	-	3	-	30.01	30.01	-	30.01	-	1,560	1,560	12	19,995	1	-
VIRGINIA-----	-	-	-	1	1	1	-	1	-	1.99	1.99	-	1.99	-	14	14	45	100,284	1	-
WYOMING-----	-	-	1	44	45	45	66	111	-	3.73	3.73	5.48	9.21	-	162	162	1,158	2,410,777	7	-
TOTAL OR AVERAGE----	2	-	2	153	155	157	149	306	.05	4.26	4.32	4.10	8.41	330	146	476	3,475	7,273,046	77	-

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPER- ATIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY												TOTAL NFDL				
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	4	4	4	1	5	-	4.96	4.96	1.24	6.20	-	31	31	104	161,206	23	-
ALABAMA	-	-	-	-	-	-	1	1	-	-	-	1.02	1.02	-	-	-	139	196,080	27	-
ARIZONA	-	-	-	2	2	2	5	7	-	3.02	3.02	7.55	10.57	-	36	36	87	132,473	18	-
ARKANSAS	-	-	-	15	15	15	4	19	-	3.52	3.52	.94	4.46	-	70	70	474	851,813	51	2
CALIFORNIA	-	-	-	19	19	19	7	26	-	9.54	9.54	3.51	13.05	-	231	231	277	398,382	31	4
COLORADO	-	-	-	1	1	1	-	1	-	5.37	5.37	-	5.37	-	16	16	18	37,266	5	-
CONNECTICUT	-	-	-	58	59	59	62	121	-	3.08	3.08	3.24	6.32	-	53	53	1,807	3,831,001	24	-
FLORIDA	-	1	-	23	24	24	39	63	-	2.60	2.60	4.23	6.83	-	52	52	905	1,845,827	48	2
GEORGIA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	26	1	-
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	1	-	11	12	12	13	25	-	2.50	2.50	2.71	5.21	-	49	49	480	960,304	19	-
ILLINOIS	-	-	-	3	3	3	5	8	-	3.85	3.85	6.42	10.28	-	86	86	90	155,704	14	3
INDIANA	-	-	-	3	3	3	2	5	-	2.13	2.13	1.42	3.55	-	126	126	125	282,013	7	1
IOWA	-	-	-	2	2	2	-	2	-	1.43	1.43	-	1.43	-	46	46	123	279,747	6	1
KANSAS	-	-	-	4	4	4	2	6	-	2.59	2.59	1.30	3.89	-	30	30	151	308,684	14	3
KENTUCKY	-	-	-	3	3	3	1	4	-	4.71	4.71	1.57	6.28	-	24	24	79	127,352	11	-
LOUISIANA	-	-	-	14	14	14	7	21	-	4.00	4.00	2.00	6.00	-	149	149	349	699,418	9	3
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4,698	3	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8,759	3	-
MASSACHUSETTS	-	-	-	3	3	3	1	4	-	32.09	32.09	10.70	42.79	-	535	535	9	18,695	3	-
MICHIGAN	-	1	-	3	4	4	-	4	-	3.00	3.00	-	3.00	-	261	261	116	266,998	8	1
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MISSISSIPPI	-	-	-	-	-	-	2	2	-	-	-	2.43	2.43	-	-	-	106	164,847	17	-
MISSOURI	-	-	-	3	3	3	1	4	-	8.74	8.74	2.91	11.66	-	64	64	51	68,617	15	-
MONTANA	2	-	1	16	17	19	22	41	.72	6.08	6.79	7.87	14.66	4,291	89	4,381	306	559,271	13	3
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,350	2	-
NEVADA	-	-	-	-	-	-	3	3	-	-	-	2.31	2.31	-	-	-	125	259,468	21	3
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3,953	1	-
NEW MEXICO	-	-	1	39	40	40	35	75	-	3.60	3.60	3.15	6.74	-	161	161	986	2,225,058	27	5
NEW YORK	-	2	-	26	28	28	18	46	-	5.01	5.01	3.22	8.23	-	160	160	563	1,117,582	16	4
NORTH CAROLINA	-	-	-	14	14	14	18	32	-	2.90	2.90	3.73	6.64	-	26	26	556	964,407	38	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,482	2	-
OHIO	-	-	-	26	26	26	9	35	-	6.52	6.52	2.26	8.78	-	123	123	419	797,162	21	2
OKLAHOMA	-	-	-	6	6	6	8	14	-	4.03	4.03	5.38	9.41	-	89	89	176	297,498	30	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	40,932	7	-
PENNSYLVANIA	-	-	-	1	1	1	1	2	-	2.96	2.96	2.96	5.91	-	3	3	49	67,650	18	1
SOUTH CAROLINA	-	-	-	7	7	7	7	14	-	3.96	3.96	3.96	7.91	-	15	15	183	353,937	27	-
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	65,073	12	-
TENNESSEE	-	-	-	-	-	-	2	2	-	-	-	1.30	1.30	-	-	-	158	307,827	27	-
TEXAS	-	1	-	11	12	12	14	26	-	3.86	3.86	4.50	8.36	-	211	211	314	622,233	45	-
UTAH	-	-	-	3	3	3	6	9	-	2.89	2.89	5.77	8.66	-	4	4	135	207,892	26	9
VERMONT	-	-	-	6	6	6	1	7	-	14.35	14.35	2.39	16.74	-	478	478	46	83,627	6	-
VIRGINIA	-	1	-	2	3	3	1	4	-	1.86	1.86	.62	2.48	-	40	40	181	322,401	24	-
WASHINGTON	-	-	-	1	1	1	-	1	-	4.17	4.17	-	4.17	-	121	121	47	47,988	7	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,316	1	-
WYOMING	-	-	1	46	47	47	73	120	-	3.48	3.48	5.40	8.88	-	149	149	1,323	2,701,479	20	7
TOTAL OR AVERAGE----	2	-	11	375	386	388	371	759	.02	3.53	3.55	3.39	6.94	110	96	206	11,182	21,863,619	750	54

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1968 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: INDEPENDENT SHOPS: TENNESSEE----- UTAH----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	2 - - 2	2 - - 2	- - - -	- - - -	- - - -	15.43 - - 11.29	15.43 - - 11.29	- - - -	- - - -	- - - -	4 13 17	9,511 25,928 35,439	1 1 2	- - -

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: PROCESSING PLANTS:	-	-	-	15	15	15	7	22	-	4.35	4.35	2.03	6.38	-	103	103	328	689,185	5	10
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	43,711	1	4
ARIZONA-----	-	-	-	1	1	1	-	1	-	.86	.86	-	.86	-	3	3	125	233,823	6	7
ARKANSAS-----	-	-	-	-	-	-	-	-	-	6.64	6.64	3.88	10.52	-	137	137	1,489	2,831,908	13	14
CALIFORNIA-----	-	-	2	92	94	94	55	149	-	11.16	11.16	-	11.16	-	85	85	85	125,420	6	1
COLORADO-----	-	-	-	7	7	7	-	7	-	27.38	27.38	-	27.38	-	948	948	36	80,342	-	2
CONNECTICUT-----	-	-	1	10	11	11	-	11	-	1.75	1.75	2.06	3.81	-	35	35	2,250	4,460,406	9	18
FLORIDA-----	-	-	1	38	39	39	46	85	-	3.71	3.71	4.10	7.81	-	60	60	4,121	9,326,355	17	23
GEORGIA-----	-	-	2	171	173	173	191	364	-	-	-	-	-	-	-	-	2	577	1	-
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO-----	-	-	-	13	13	13	4	17	-	9.37	9.37	2.88	12.26	-	93	93	153	277,435	5	3
ILLINOIS-----	-	-	-	47	47	47	22	69	-	15.81	15.81	7.40	23.20	-	485	485	281	594,700	7	3
INDIANA-----	-	-	-	1	1	1	-	1	-	2.34	2.34	-	2.34	-	9	9	47	85,367	-	4
IOWA-----	-	-	-	4	4	4	-	4	-	6.67	6.67	-	6.67	-	127	127	59	119,996	3	5
KANSAS-----	-	-	-	24	24	24	15	39	-	7.83	7.83	4.89	12.72	-	479	479	307	613,296	3	10
KENTUCKY-----	-	-	-	6	6	6	3	9	-	8.59	8.59	4.30	12.89	-	321	321	68	139,656	2	2
LOUISIANA-----	-	-	-	15	15	15	8	23	-	3.85	3.85	2.05	5.90	-	119	119	429	779,540	9	5
MAINE-----	-	-	-	2	2	2	1	3	-	39.79	39.79	19.89	59.68	-	139	139	5	10,053	1	-
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	-	4.71	4.71	-	4.71	-	9	9	20	42,443	-	2
MICHIGAN-----	-	-	1	-	1	1	-	1	-	2.92	2.92	-	2.92	-	1,167	1,167	30	68,579	-	2
MISSISSIPPI-----	-	-	-	6	6	6	19	25	-	1.55	1.55	4.92	6.47	-	10	10	362	772,866	4	7
MISSOURI-----	-	-	-	6	6	6	5	11	-	3.14	3.14	2.62	5.75	-	47	47	193	382,357	6	3
MONTANA-----	-	-	2	9	11	11	11	22	-	4.65	4.65	4.65	9.30	-	130	130	216	473,178	3	3
NEBRASKA-----	-	-	-	2	2	2	1	3	-	9.14	9.14	4.57	13.71	-	18	18	27	43,759	2	1
NEVADA-----	-	-	-	51	51	51	10	61	-	13.07	13.07	2.56	15.63	-	308	308	372	780,303	10	8
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	9.66	9.66	-	9.66	-	104	104	57	103,479	2	1
NEW MEXICO-----	-	-	-	25	25	25	24	49	-	3.04	3.04	2.92	5.96	-	56	56	848	1,644,559	9	9
NEW YORK-----	-	-	-	32	32	32	16	48	-	9.36	9.36	4.68	14.04	-	225	225	335	683,656	3	8
NORTH CAROLINA-----	-	-	1	24	25	25	38	63	-	3.26	3.26	4.95	8.20	-	53	53	722	1,535,733	21	8
NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	5.37	5.37	-	5.37	-	16	16	19	37,218	1	1
OHIO-----	-	-	-	7	7	7	2	9	-	6.75	6.75	1.93	8.68	-	151	151	94	207,398	1	7
OKLAHOMA-----	-	-	1	2	3	3	3	6	-	3.51	3.51	3.51	7.02	-	87	87	79	171,026	5	2
OREGON-----	-	-	-	5	5	5	-	5	-	7.69	7.69	-	7.69	-	29	29	60	130,063	4	1
PENNSYLVANIA-----	-	-	-	6	6	6	-	6	-	5.42	5.42	-	5.42	-	52	52	106	221,318	4	3
SOUTH CAROLINA-----	-	-	-	16	16	16	18	34	-	4.36	4.36	4.91	9.27	-	46	46	353	733,871	2	14
SOUTH DAKOTA-----	-	-	1	2	3	3	3	6	-	3.54	3.54	3.54	7.08	-	526	526	90	169,448	6	-
TENNESSEE-----	-	-	1	29	30	30	20	50	-	8.02	8.02	5.35	13.37	-	104	104	390	747,852	5	10
TEXAS-----	-	-	2	40	42	42	22	64	-	5.56	5.56	2.91	8.47	-	163	163	725	1,511,133	19	19
UTAH-----	1	-	-	17	17	18	8	26	51	8.73	9.24	4.11	13.34	3,080	463	3,543	190	389,665	5	5
VERMONT-----	-	-	-	12	12	12	1	13	-	11.17	11.17	.93	12.10	-	48	48	99	214,858	5	1
VIRGINIA-----	-	-	-	18	18	18	4	22	-	4.98	4.98	1.11	6.09	-	106	106	343	722,328	2	12
WASHINGTON-----	-	-	1	4	5	5	-	5	-	9.01	9.01	-	9.01	-	117	117	53	110,939	2	2
WISCONSIN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	18,027	1	-
WYOMING-----	-	-	-	48	48	48	81	129	-	2.89	2.89	4.87	7.76	-	101	101	1,572	3,325,009	13	6
TOTAL OR AVERAGE----	1	-	16	814	830	831	638	1,469	.01	4.66	4.66	3.58	8.24	34	109	143	17,178	35,652,835	222	246

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	19	19	19	8	27	-	4.47	4.47	1.88	6.35	-	90	90	432	850,391	28	10
ALABAMA	-	-	-	-	-	-	1	1	-	-	-	.83	.83	-	-	-	169	239,791	28	4
ARIZONA	-	-	-	-	-	-	5	8	-	1.64	1.64	2.73	4.37	-	15	15	212	366,296	24	7
ARKANSAS	-	-	3	3	3	3	-	-	-	5.92	5.92	3.20	9.12	-	122	122	1,963	3,683,721	64	16
CALIFORNIA	-	2	107	109	109	59	168	-	-	9.93	9.93	2.67	12.60	-	196	196	362	523,802	37	5
COLORADO	-	-	26	26	26	7	33	-	-	20.41	20.41	-	20.41	-	653	653	54	117,608	5	2
CONNECTICUT	-	1	11	12	12	-	12	-	-	2.36	2.36	2.61	4.97	-	43	43	4,057	8,291,407	33	18
FLORIDA	-	2	96	98	98	108	206	-	-	3.53	3.53	4.12	7.64	-	58	58	5,026	11,172,182	65	25
GEORGIA	-	3	194	197	197	230	427	-	-	-	-	-	-	-	-	-	3	603	2	-
HAWAII	-	-	-	-	-	-	-	-	-	4.04	4.04	2.75	6.79	-	58	58	633	1,237,739	24	3
IDAHO	-	1	24	25	25	17	42	-	-	13.33	13.33	7.20	20.52	-	402	402	371	750,404	21	6
ILLINOIS	-	-	50	50	50	27	77	-	-	2.18	2.18	1.09	3.27	-	99	99	172	367,380	7	5
INDIANA	-	-	4	4	4	2	6	-	-	3.00	3.00	-	3.00	-	70	70	182	399,743	9	6
IOWA	-	-	6	6	6	-	6	-	-	6.07	6.07	3.69	9.76	-	329	329	458	921,980	17	13
KANSAS	-	-	28	28	28	17	45	-	-	6.74	6.74	3.00	9.74	-	179	179	147	267,008	13	2
KENTUCKY	-	-	9	9	9	4	13	-	-	3.92	3.92	2.03	5.95	-	133	133	778	1,478,958	18	8
LOUISIANA	-	-	29	29	29	15	44	-	-	27.12	27.12	13.56	40.68	-	95	95	9	14,751	4	-
MAINE	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-	-	5	8,759	3	-
MARYLAND	-	-	-	-	-	-	-	-	-	13.09	13.09	3.27	16.36	-	170	170	29	61,138	3	2
MASSACHUSETTS	-	-	4	4	4	1	5	-	-	2.98	2.98	-	2.98	-	446	446	146	335,577	8	3
MICHIGAN	-	2	3	5	5	5	5	-	-	-	-	-	-	-	-	-	5	2,700	1	-
MINNESOTA	-	-	-	-	-	-	-	-	-	1.28	1.28	4.48	5.76	-	8	8	468	937,713	21	7
MISSISSIPPI	-	-	6	6	6	21	27	-	-	3.99	3.99	2.66	6.65	-	49	49	244	450,974	21	3
MISSOURI	-	-	9	9	9	6	15	-	.39	5.42	5.81	6.39	12.20	-	108	2,433	522	1,032,449	16	6
MONTANA	2	3	25	28	30	33	63	39	-	8.49	8.49	4.25	12.74	-	17	17	30	47,109	4	1
NEBRASKA	-	-	2	2	2	1	3	-	-	9.81	9.81	2.50	12.31	-	231	231	497	1,039,771	31	11
NEVADA	-	-	51	51	51	13	64	-	-	-	-	-	-	-	-	-	2	4,423	1	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	9.31	9.31	-	9.31	-	101	101	60	107,432	3	1
NEW JERSEY	-	-	5	5	5	-	5	-	-	3.36	3.36	3.05	6.41	-	116	116	1,834	3,869,617	36	14
NEW MEXICO	-	1	64	65	65	59	124	-	-	6.66	6.66	3.78	10.44	-	185	185	898	1,801,238	19	12
NEW YORK	-	2	58	60	60	34	94	-	-	3.12	3.12	4.48	7.60	-	43	43	1,278	2,500,140	59	8
NORTH CAROLINA	-	-	38	39	39	56	95	-	-	4.91	4.91	-	4.91	-	15	15	25	40,700	3	1
NORTH DAKOTA	-	-	1	1	1	-	1	-	-	6.57	6.57	2.19	8.76	-	129	129	513	1,004,560	21	9
OHIO	-	-	33	33	33	11	44	-	-	3.84	3.84	4.70	8.54	-	88	88	255	468,524	35	2
OKLAHOMA	-	1	8	9	9	11	20	-	-	5.85	5.85	-	5.85	-	22	22	82	170,995	11	1
OREGON	-	-	5	5	5	-	5	-	-	4.84	4.84	.69	5.54	-	40	40	195	288,968	22	4
PENNSYLVANIA	-	-	7	7	7	1	8	-	-	4.23	4.23	4.60	8.83	-	36	36	536	1,087,808	29	14
SOUTH CAROLINA	-	-	23	23	23	25	48	-	-	2.56	2.56	2.56	5.12	-	380	380	162	234,521	18	-
SOUTH DAKOTA	-	1	2	3	3	3	6	-	-	5.63	5.63	4.13	9.76	-	73	73	552	1,065,190	33	10
TENNESSEE	-	1	29	30	30	22	52	-	-	5.06	5.06	3.37	8.44	-	177	177	1,039	2,133,366	64	19
TEXAS	-	3	51	54	54	36	90	-	.32	6.42	6.74	5.13	11.87	-	291	2,215	338	623,485	32	14
UTAH	1	-	20	20	21	16	37	-	-	12.06	12.06	1.34	13.40	-	169	169	145	298,485	11	1
VERMONT	-	-	18	18	18	2	20	-	-	4.02	4.02	.96	4.98	-	85	85	524	1,044,729	26	12
VIRGINIA	-	1	20	21	21	5	26	-	-	7.55	7.55	-	7.55	-	118	118	100	158,927	9	2
WASHINGTON	-	1	5	6	6	-	6	-	-	-	-	-	-	-	-	-	2	4,316	1	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	18,027	1	-
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING	-	1	94	95	95	154	249	-	-	3.15	3.15	5.11	8.26	-	122	122	2,895	6,026,488	33	13
TOTAL OR AVERAGE----	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167	28,377	57,551,893	974	300

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION	
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL					
		PERMANENT		TEMPO- RARY																TOTAL NFDL
		TOTAL	PARTIAL																	
ALL NONMETALLIC-CONTINUED: OFFICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	108,455	2	20	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	31,032	-	14	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	62,561	-	12	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415	806,971	-	43	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	92,673	3	14	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	23,862	-	3	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	619	1,313,719	-	27	
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	798	1,659,480	-	40	
GEORGIA-----	-	-	-	2	2	2	-	2	.24	.24	-	.24	-	1	1	1	4	-	1	
HAWAII-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	177,902	-	15	
IDAHO-----	-	-	-	1	1	1	-	1	1.12	1.12	-	1.12	-	2	2	58	107,889	-	11	
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	1.85	1.85	-	-	-	6	8,652	-	3	
INDIANA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	31	54,722	2	7	
IOWA-----	-	-	-	-	-	-	1	1	-	-	3.65	3.65	-	-	-	100	189,246	-	10	
KANSAS-----	-	-	-	-	-	-	1	1	-	-	1.06	1.06	-	-	-	40	69,873	-	10	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	213,174	1	16	
LOUISIANA-----	-	-	1	-	1	1	-	1	.94	.94	-	.94	-	47	47	6	6,392	-	4	
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	480	-	2	
MARYLAND-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,997	-	2	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	30,313	-	7	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	340	-	1	
MINNESOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	125,502	-	14	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	49,910	-	13	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	122,005	-	13	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	9,561	-	3	
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	122,674	-	21	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	1	
NEW HAMPSHIRE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10,975	-	3	
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185	348,035	-	22	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	296,584	-	17	
NEW YORK-----	-	-	-	-	-	-	2	2	-	-	1.35	1.35	-	-	-	226	440,670	-	41	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3,925	-	2	
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	139,564	-	11	
OHIO-----	-	-	-	-	-	-	1	1	-	-	2.75	2.75	-	-	-	38	72,680	-	20	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	22,394	-	5	
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	74,531	-	9	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	172,661	1	25	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	15,420	-	6	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	119,620	-	13	
TENNESSEE-----	-	-	-	1	1	1	-	1	.53	.53	-	.53	-	2	2	216	380,514	1	52	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	134,592	-	11	
UTAH-----	-	-	-	-	-	-	2	2	-	-	2.97	2.97	-	-	-	33	64,672	-	6	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	145,704	-	18	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	43,199	-	3	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4,472	-	1	
WEST VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,764	-	1	
WISCONSIN-----	-	-	-	1	1	1	1	2	.25	.25	.25	.50	-	(*)	(*)	470	802,816	-	21	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	.14	.14	.21	.35	-	1	1	4,543	8,692,185	10	614	

TABLE 6. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR TYPE OF MINERAL, WORK LOCATION, AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE- HOURS	NUMBER OF OPERA- TIONS	ASSO- CIATED WORK LOCA- TION			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL							
		PERMANENT		TEMPO- RARY																TOTAL NFDL		
		TOTAL	PARTIAL																			
ALL NONMETALLIC-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	19	19	19	8	27	-	3.96	3.96	1.67	5.63	-	79	79	492	958,846	30	30		
ALABAMA	-	-	-	-	-	-	1	1	-	-	-	.74	.74	-	-	-	194	270,823	28	18		
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249	428,857	24	19		
ARKANSAS	-	-	-	3	3	3	5	8	-	1.40	1.40	2.33	3.73	-	13	13	2,378	4,490,692	64	59		
CALIFORNIA	-	-	2	107	109	109	59	168	-	4.85	4.85	2.63	7.48	-	100	100	423	616,475	40	19		
COLORADO	-	-	-	26	26	26	7	33	-	8.44	8.44	2.27	10.71	-	167	167	66	141,470	5	5		
CONNECTICUT	-	-	-	11	12	12	-	12	-	16.96	16.96	-	-	-	543	543	37	4,676	9,605,126	33	45	
FLORIDA	-	-	1	96	98	98	108	206	-	2.04	2.04	2.25	4.29	-	37	37	5,824	12,831,662	65	65		
GEORGIA	-	-	3	196	199	199	230	429	-	3.10	3.10	3.58	6.69	-	51	51	4	607	2	1		
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	51	726	1,415,641	24	18
IDAHO	-	-	1	25	26	26	17	43	-	3.67	3.67	2.40	6.07	-	51	51	351	429	858,293	21	17	
ILLINOIS	-	-	-	50	50	50	28	78	-	11.65	11.65	6.52	18.18	-	96	96	178	376,032	7	8		
INDIANA	-	-	-	4	4	4	2	6	-	2.13	2.13	1.06	3.19	-	62	62	213	454,465	11	13		
IOWA	-	-	-	6	6	6	1	7	-	2.64	2.64	.44	3.08	-	273	273	558	1,111,226	17	23		
KANSAS	-	-	-	28	28	28	18	46	-	5.04	5.04	3.24	8.28	-	142	142	187	336,881	13	12		
KENTUCKY	-	-	-	9	9	9	4	13	-	5.34	5.34	2.37	7.72	-	122	122	888	1,692,132	19	24		
LOUISIANA	-	-	1	29	30	30	15	45	-	3.55	3.55	1.77	5.32	-	66	66	15	21,143	4	4		
MAINE	-	-	-	2	2	2	1	3	-	18.92	18.92	9.46	28.38	-	-	-	7	9,239	3	2		
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	71,135	3	4		
MASSACHUSETTS	-	-	-	4	4	4	1	5	-	11.25	11.25	2.81	14.06	-	146	146	162	365,890	8	10		
MICHIGAN	-	-	2	3	5	5	-	5	-	2.73	2.73	-	2.73	-	409	409	6	3,040	1	1		
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	530	1,063,215	21	21	
MISSISSIPPI	-	-	-	6	6	6	21	27	-	1.13	1.13	3.95	5.08	-	44	44	278	500,884	21	16		
MISSOURI	-	-	-	9	9	9	6	15	-	3.59	3.59	2.40	5.99	-	97	97	590	1,154,454	16	19		
MONTANA	2	-	3	25	28	30	33	63	.35	4.85	5.20	5.72	10.91	2.079	14	14	40	56,670	4	4		
NEBRASKA	-	-	-	2	2	2	1	3	-	7.06	7.06	3.53	10.59	-	206	206	565	1,162,445	31	32		
NEVADA	-	-	-	51	51	51	13	64	-	8.77	8.77	2.24	11.01	-	-	-	3	4,427	1	1		
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	91	68	118,407	3	4
NEW JERSEY	-	-	-	5	5	5	-	5	-	8.45	8.45	-	8.45	-	107	107	2,019	4,217,652	36	36		
NEW MEXICO	-	-	1	64	65	65	59	124	-	3.08	3.08	2.80	5.88	-	159	159	1,058	2,097,822	19	29		
NEW YORK	-	-	2	58	60	60	36	96	-	5.72	5.72	3.43	9.15	-	36	36	1,504	2,940,810	59	49		
NORTH CAROLINA	-	-	1	38	39	39	56	95	-	2.65	2.65	3.81	6.46	-	13	13	27	44,625	3	3		
NORTH DAKOTA	-	-	-	1	1	1	-	1	-	4.48	4.48	-	4.48	-	113	113	591	1,144,124	21	20		
OHIO	-	-	-	33	33	33	11	44	-	5.77	5.77	1.92	7.69	-	76	76	293	541,204	35	22		
OKLAHOMA	-	-	1	8	9	9	12	21	-	3.33	3.33	4.43	7.76	-	20	20	94	193,389	11	6		
OREGON	-	-	-	5	5	5	-	5	-	5.17	5.17	-	5.17	-	32	32	195	363,499	22	13		
PENNSYLVANIA	-	-	-	7	7	7	1	8	-	3.85	3.85	.55	4.40	-	31	31	634	1,260,469	30	39		
SOUTH CAROLINA	-	-	-	23	23	23	25	48	-	3.65	3.65	3.97	7.62	-	357	357	172	249,941	18	6		
SOUTH DAKOTA	-	-	1	2	3	3	3	6	-	2.40	2.40	2.40	4.80	-	65	65	611	1,184,810	33	23		
TENNESSEE	-	-	-	29	30	30	22	52	-	5.06	5.06	3.71	8.78	-	151	151	1,255	2,513,880	65	71		
TEXAS	-	-	3	52	55	55	36	91	-	4.38	4.38	2.86	7.24	1.583	239	1,822	409	758,077	32	25		
UTAH	1	-	-	20	20	21	18	39	.26	5.28	5.54	4.75	10.29	-	139	139	178	363,157	11	7		
VERMONT	-	-	-	18	18	18	2	20	-	9.91	9.91	1.10	11.01	-	75	75	597	1,190,433	26	30		
VIRGINIA	-	-	1	20	21	21	5	26	-	3.53	3.53	.84	4.37	-	93	93	122	202,126	9	5		
WASHINGTON	-	-	1	5	6	6	-	6	-	5.94	5.94	-	5.94	-	-	-	4	8,788	1	1		
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	19,791	1	1		
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WYOMING	-	-	1	95	96	96	155	251	-	2.81	2.81	4.54	7.35	-	108	108	3,365	6,829,304	33	34		
TOTAL OR AVERAGE----	3	-	28	1,194	1,222	1,225	1,020	2,245	.01	3.69	3.70	3.08	6.78	54	91	145	32,920	66,244,078	984	914		

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ASBESTOS: SURFACE MINES: OPEN PIT: VERMONT-----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
TOTAL OR AVERAGE, SURFACE: VERMONT-----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
TOTAL OR AVERAGE, MINING: VERMONT-----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	14	14	14	-	7	7
PROCESSING PLANTS: CALIFORNIA-----	-	-	-	4	4	4	-	4	-	-	-	57	57	57	-	14	14
VERMONT-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4
TOTAL OR AVERAGE----	-	-	-	9	9	9	-	9	-	-	-	76	76	76	-	8	8
TOTAL OR AVERAGE, ALL MINES AND PLANTS: CALIFORNIA-----	-	-	-	4	4	4	-	4	-	-	-	57	57	57	-	14	14
VERMONT-----	-	-	-	7	7	7	-	7	-	-	-	33	33	33	-	5	5
TOTAL OR AVERAGE----	-	-	-	11	11	11	-	11	-	-	-	90	90	90	-	8	8
GRAND TOTAL OR AVERAGE: CALIFORNIA-----	-	-	-	4	4	4	-	4	-	-	-	57	57	57	-	14	14
VERMONT-----	-	-	-	7	7	7	-	7	-	-	-	33	33	33	-	5	5
TOTAL OR AVERAGE----	-	-	-	11	11	11	-	11	-	-	-	90	90	90	-	8	8
BARITE: SURFACE MINES: OPEN PIT: GEORGIA-----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE, SURFACE: GEORGIA-----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
BARITE-CONTINUED: TOTAL OR AVERAGE, MINING: GEORGIA-----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE----	-	-	-	1	1	1	4	5	-	-	-	13	13	13	-	13	13
PROCESSING PLANTS:																	
GEORGIA-----	-	-	-	4	4	4	6	10	-	-	-	11	11	11	-	3	3
LOUISIANA-----	-	-	-	6	6	6	3	9	-	-	-	110	110	110	-	18	18
MISSOURI-----	-	-	-	1	1	1	3	3	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NEW YORK-----	-	-	-	3	3	3	-	3	-	-	-	17	17	17	-	6	6
OKLAHOMA-----	-	-	1	1	2	2	2	4	-	-	50	19	69	69	50	19	34
TEXAS-----	-	-	-	8	8	8	-	8	-	-	-	221	221	221	-	28	28
TOTAL OR AVERAGE----	-	-	1	23	24	24	14	38	-	-	50	380	430	430	50	17	18
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
GEORGIA-----	-	-	-	5	5	5	10	15	-	-	-	24	24	24	-	5	5
LOUISIANA-----	-	-	-	6	6	6	3	9	-	-	-	110	110	110	-	18	18
MISSOURI-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NEW YORK-----	-	-	-	3	3	3	-	3	-	-	-	17	17	17	-	6	6
OKLAHOMA-----	-	-	1	1	2	2	2	4	-	-	50	19	69	69	50	19	34
TEXAS-----	-	-	-	8	8	8	-	8	-	-	-	221	221	221	-	28	28
TOTAL OR AVERAGE----	-	-	1	24	25	25	18	43	-	-	50	393	443	443	50	16	18
GRAND TOTAL OR AVERAGE:																	
GEORGIA-----	-	-	-	5	5	5	10	15	-	-	-	24	24	24	-	5	5
LOUISIANA-----	-	-	-	6	6	6	3	9	-	-	-	110	110	110	-	18	18
MISSOURI-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NEW YORK-----	-	-	-	3	3	3	-	3	-	-	-	17	17	17	-	6	6
OKLAHOMA-----	-	-	1	1	2	2	2	4	-	-	50	19	69	69	50	19	34
TEXAS-----	-	-	-	8	8	8	-	8	-	-	-	221	221	221	-	28	28
TOTAL OR AVERAGE----	-	-	1	24	25	25	18	43	-	-	50	393	443	443	50	16	18
BORON: SURFACE MINES: OPEN PIT: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
BORON-CONTINUED: TOTAL OR AVERAGE, SURFACE: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47
TOTAL OR AVERAGE, MINING: CALIFORNIA-----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	140	140	140	-	47	47
PROCESSING PLANTS: CALIFORNIA-----	-	-	-	9	9	9	7	16	-	-	-	438	438	438	-	49	49
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	-	-	34	34	34	-	7	7
TOTAL OR AVERAGE----	-	-	-	15	15	15	10	25	-	-	-	480	480	480	-	32	32
TOTAL OR AVERAGE, ALL MINES AND PLANTS: CALIFORNIA-----	-	-	-	12	12	12	7	19	-	-	-	578	578	578	-	48	48
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	-	-	34	34	34	-	7	7
TOTAL OR AVERAGE----	-	-	-	18	18	18	10	28	-	-	-	620	620	620	-	34	34
GRAND TOTAL OR AVERAGE: CALIFORNIA-----	-	-	-	12	12	12	7	19	-	-	-	578	578	578	-	48	48
NEVADA-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
SOUTH CAROLINA-----	-	-	-	5	5	5	3	8	-	-	-	34	34	34	-	7	7
TOTAL OR AVERAGE----	-	-	-	18	18	18	10	28	-	-	-	620	620	620	-	34	34
CLAY: UNDERGROUND MINES: UNDERGROUND: OHIO-----	-	-	-	2	2	2	-	2	-	-	-	25	25	25	-	12	12
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	26	26	26	-	9	9
TOTAL OR AVERAGE, UG: OHIO-----	-	-	-	2	2	2	-	2	-	-	-	25	25	25	-	12	12
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	26	26	26	-	9	9

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
CLAY-CONTINUED: SURFACE MINES: OPEN PIT:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ARKANSAS-----	-	-	-	6	6	6	-	6	-	-	-	58	58	58	-	10	10
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	-	-	86	86	86	-	86	86
FLORIDA-----	-	-	-	16	16	16	30	46	-	-	-	283	283	283	-	18	18
GEORGIA-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
KENTUCKY-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MISSOURI-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	6	6	6	6	12	-	-	-	26	26	26	-	4	4
SOUTH CAROLINA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	1	2	3	3	4	7	-	-	400	14	414	414	400	7	138
VIRGINIA-----	-	-	1	1	2	2	-	2	-	-	50	7	57	57	50	7	28
WASHINGTON-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	44	46	46	53	99	-	-	450	566	1,016	1,016	225	13	22
TOTAL OR AVERAGE, SURFACE:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ARKANSAS-----	-	-	-	6	6	6	-	6	-	-	-	58	58	58	-	10	10
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	-	-	86	86	86	-	86	86
FLORIDA-----	-	-	-	16	16	16	30	46	-	-	-	283	283	283	-	18	18
GEORGIA-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
KENTUCKY-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MISSOURI-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	6	6	6	6	12	-	-	-	26	26	26	-	4	4
SOUTH CAROLINA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	1	2	3	3	4	7	-	-	400	14	414	414	400	7	138
VIRGINIA-----	-	-	1	1	2	2	-	2	-	-	50	7	57	57	50	7	28
WASHINGTON-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	44	46	46	53	99	-	-	450	566	1,016	1,016	225	13	22

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
CLAY-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ARKANSAS-----	-	-	-	6	6	6	-	6	-	-	-	58	58	58	-	10	10
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	-	-	86	86	86	-	86	86
FLORIDA-----	-	-	-	16	16	16	30	46	-	-	-	283	283	283	-	18	18
GEORGIA-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
KENTUCKY-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MISSOURI-----	-	-	-	2	2	2	1	3	-	-	-	25	25	25	-	12	12
OHIO-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
PENNSYLVANIA-----	-	-	-	6	6	6	6	12	-	-	-	26	26	26	-	4	4
SOUTH CAROLINA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE-----	-	-	1	2	3	3	4	7	-	-	400	14	414	414	400	7	138
TEXAS-----	-	-	1	1	2	2	-	2	-	-	50	7	57	57	50	7	28
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WASHINGTON-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	47	49	49	54	103	-	-	450	592	1,042	1,042	225	13	21
PROCESSING PLANTS:	-	-	-	13	13	13	3	16	-	-	-	325	325	325	-	25	25
ALABAMA-----	-	-	-	10	11	11	12	23	-	-	175	436	611	611	175	44	56
CALIFORNIA-----	-	-	1	4	4	4	2	6	-	-	-	125	125	125	-	31	31
FLORIDA-----	-	-	-	153	155	155	177	332	-	-	225	2,268	2,493	2,493	112	15	16
GEORGIA-----	-	-	2	37	37	37	5	42	-	-	-	1,195	1,195	1,195	-	32	32
ILLINOIS-----	-	-	-	5	5	5	2	7	-	-	-	146	146	146	-	29	29
KENTUCKY-----	-	-	-	6	6	6	19	25	-	-	-	38	38	38	-	6	6
MISSISSIPPI-----	-	-	-	6	6	6	2	8	-	-	-	89	89	89	-	15	15
MISSOURI-----	-	-	-	8	8	8	-	8	-	-	-	45	45	45	-	6	6
NEVADA-----	-	-	-	1	1	1	2	3	-	-	-	20	20	20	-	20	20
NORTH CAROLINA-----	-	-	-	2	2	2	1	3	-	-	-	74	74	74	-	37	37
OHIO-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
PENNSYLVANIA-----	-	-	-	7	7	7	7	14	-	-	-	114	114	114	-	16	16
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	1	-	1	1	-	1	-	-	440	-	440	440	440	-	440
TENNESSEE-----	-	-	1	29	30	30	15	45	-	-	60	328	388	388	60	11	13
TEXAS-----	-	-	1	11	12	12	7	19	-	-	50	395	445	445	50	36	37
UTAH-----	-	-	-	3	3	3	2	5	-	-	-	7	7	7	-	2	2
VIRGINIA-----	-	-	-	6	6	6	-	6	-	-	-	43	43	43	-	7	7
WYOMING-----	-	-	-	17	17	17	16	33	-	-	-	747	747	747	-	44	44
TOTAL OR AVERAGE----	-	-	6	319	325	325	272	597	-	-	950	6,403	7,353	7,353	158	20	23

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL. WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
CLAY-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	17	17	17	4	21	-	-	-	350	350	350	-	21	21
ALABAMA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ARKANSAS-----	-	-	-	16	17	17	12	29	-	-	175	494	669	669	175	31	39
CALIFORNIA-----	-	-	1	5	5	5	4	9	-	-	-	211	211	211	-	42	42
FLORIDA-----	-	-	-	169	171	171	207	378	-	-	225	2,551	2,776	2,776	112	15	16
GEORGIA-----	-	-	2	37	37	37	5	42	-	-	-	1,195	1,195	1,195	-	32	32
ILLINOIS-----	-	-	-	8	8	8	3	11	-	-	-	161	161	161	-	20	20
KENTUCKY-----	-	-	-	6	6	6	21	27	-	-	-	38	38	38	-	6	6
MISSISSIPPI-----	-	-	-	9	9	9	3	12	-	-	-	111	111	111	-	12	12
MISSOURI-----	-	-	-	8	8	8	-	8	-	-	-	45	45	45	-	6	6
NEVADA-----	-	-	-	1	1	1	2	3	-	-	-	20	20	20	-	20	20
NORTH CAROLINA-----	-	-	-	4	4	4	2	6	-	-	-	99	99	99	-	25	25
OHIO-----	-	-	-	2	2	2	1	3	-	-	-	9	9	9	-	4	4
PENNSYLVANIA-----	-	-	-	13	13	13	13	26	-	-	-	140	140	140	-	11	11
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	440	-	440	440	440	-	440
SOUTH DAKOTA-----	-	-	1	29	30	30	17	47	-	-	60	328	388	388	60	11	13
TENNESSEE-----	-	-	-	13	15	15	11	26	-	-	450	409	859	859	225	31	57
TEXAS-----	-	-	2	3	3	3	2	5	-	-	-	7	7	7	-	2	2
UTAH-----	-	-	-	7	8	8	-	8	-	-	50	50	100	100	50	7	12
VIRGINIA-----	-	-	1	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WASHINGTON-----	-	-	-	17	17	17	18	35	-	-	-	747	747	747	-	44	44
WYOMING-----	-	-	-						-	-	-						
TOTAL OR AVERAGE----	-	-	8	366	374	374	326	700	-	-	1,400	6,995	8,395	8,395	175	19	22
OFFICE:																	
GEORGIA-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	-	-	5	5	5	-	2	2

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
CLAY-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	17	17	17	4	21	-	-	-	350	350	350	-	21	21
ALABAMA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ARKANSAS-----	-	-	-	16	17	17	12	29	-	-	175	494	669	669	175	31	39
CALIFORNIA-----	-	-	1	5	5	5	4	9	-	-	-	211	211	211	-	42	42
FLORIDA-----	-	-	-	171	173	173	207	380	-	-	225	2,556	2,781	2,781	112	15	16
GEORGIA-----	-	-	2	37	37	37	6	43	-	-	-	1,195	1,195	1,195	-	32	32
ILLINOIS-----	-	-	-	8	8	8	3	11	-	-	-	161	161	161	-	20	20
KENTUCKY-----	-	-	-	6	6	6	21	27	-	-	-	38	38	38	-	6	6
MISSISSIPPI-----	-	-	-	9	9	9	3	12	-	-	-	111	111	111	-	12	12
MISSOURI-----	-	-	-	8	8	8	-	8	-	-	-	45	45	45	-	6	6
NEVADA-----	-	-	-	1	1	1	2	3	-	-	-	20	20	20	-	20	20
NORTH CAROLINA-----	-	-	-	4	4	4	2	6	-	-	-	99	99	99	-	25	25
OHIO-----	-	-	-	2	2	2	1	3	-	-	-	9	9	9	-	4	4
PENNSYLVANIA-----	-	-	-	13	13	13	13	26	-	-	-	140	140	140	-	11	11
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	440	-	440	440	440	-	440
SOUTH DAKOTA-----	-	-	1	29	30	30	17	47	-	-	60	328	388	388	60	11	13
TENNESSEE-----	-	-	2	13	15	15	11	26	-	-	450	409	859	859	225	31	57
TEXAS-----	-	-	-	3	3	3	2	5	-	-	-	7	7	7	-	2	2
UTAH-----	-	-	-	7	8	8	-	8	-	-	50	50	100	100	50	7	12
VIRGINIA-----	-	-	1	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WASHINGTON-----	-	-	-	17	17	17	18	35	-	-	-	747	747	747	-	44	44
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	8	368	376	376	327	703	-	-	1,400	7,000	8,400	8,400	175	19	22
FELDSPAR: SURFACE MINES: OPEN PIT:	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CONNECTICUT-----	-	-	-	1	1	1	1	2	-	-	50	-	50	50	50	-	50
GEORGIA-----	-	-	1	2	2	2	5	7	-	-	-	28	28	28	-	14	14
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	-	50	31	81	81	50	10	20
TOTAL OR AVERAGE, SURFACE:	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CONNECTICUT-----	-	-	-	1	1	1	1	2	-	-	50	-	50	50	50	-	50
GEORGIA-----	-	-	1	2	2	2	5	7	-	-	-	28	28	28	-	14	14
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	-	50	31	81	81	50	10	20
TOTAL OR AVERAGE, MINING:	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CONNECTICUT-----	-	-	-	1	1	1	1	2	-	-	50	-	50	50	50	-	50
GEORGIA-----	-	-	1	2	2	2	5	7	-	-	-	28	28	28	-	14	14
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	3	4	4	6	10	-	-	50	31	81	81	50	10	20

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDI	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
FELDSPAR-CONTINUED: PROCESSING PLANTS:																	
CALIFORNIA-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
CONNECTICUT-----	-	-	1	4	5	5	-	5	-	-	50	169	219	219	50	42	44
GEORGIA-----	-	-	-	2	2	2	1	3	-	-	-	29	29	29	-	14	14
NORTH CAROLINA-----	-	-	1	11	12	12	21	33	-	-	75	149	224	224	75	14	19
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE----	-	-	2	20	22	22	25	47	-	-	125	370	495	495	62	18	22
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
CALIFORNIA-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
CONNECTICUT-----	-	-	1	5	6	6	-	6	-	-	50	172	222	222	50	34	37
GEORGIA-----	-	-	1	2	3	3	2	5	-	-	50	29	79	79	50	14	26
NORTH CAROLINA-----	-	-	1	13	14	14	26	40	-	-	75	177	252	252	75	14	18
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE----	-	-	3	23	26	26	31	57	-	-	175	401	576	576	58	17	22
GRAND TOTAL OR AVERAGE:																	
CALIFORNIA-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
CONNECTICUT-----	-	-	1	5	6	6	-	6	-	-	50	172	222	222	50	34	37
GEORGIA-----	-	-	1	2	3	3	2	5	-	-	50	29	79	79	50	14	26
NORTH CAROLINA-----	-	-	1	13	14	14	26	40	-	-	75	177	252	252	75	14	18
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE----	-	-	3	23	26	26	31	57	-	-	175	401	576	576	58	17	22
FLUORSPAR: UNDERGROUND MINES:																	
UNDERGROUND:																	
ILLINOIS-----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22
TOTAL OR AVERAGE, UG:																	
ILLINOIS-----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
FLUORSPAR-CONTINUED: TOTAL OR AVERAGE, MINING: ILLINOIS-----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	-	-	67	67	67	-	22	22
PROCESSING PLANTS: ILLINOIS-----	-	-	-	3	3	3	14	17	-	-	-	157	157	157	-	52	52
KENTUCKY-----	-	-	-	1	1	1	1	2	-	-	-	78	78	78	-	78	78
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
TOTAL OR AVERAGE----	-	-	-	5	5	5	15	20	-	-	-	244	244	244	-	49	49
TOTAL OR AVERAGE, ALL MINES AND PLANTS: ILLINOIS-----	-	-	-	6	6	6	18	24	-	-	-	224	224	224	-	37	37
KENTUCKY-----	-	-	-	1	1	1	1	2	-	-	-	78	78	78	-	78	78
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
TOTAL OR AVERAGE----	-	-	-	8	8	8	19	27	-	-	-	311	311	311	-	39	39
GRAND TOTAL OR AVERAGE: ILLINOIS-----	-	-	-	6	6	6	18	24	-	-	-	224	224	224	-	37	37
KENTUCKY-----	-	-	-	1	1	1	1	2	-	-	-	78	78	78	-	78	78
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
TOTAL OR AVERAGE----	-	-	-	8	8	8	19	27	-	-	-	311	311	311	-	39	39
GEMSTONES: SURFACE MINES: OPEN PIT: MONTANA-----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
TOTAL OR AVERAGE, SURFACE: MONTANA-----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
TOTAL OR AVERAGE, MINING: MONTANA-----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GEMSTONES-CONTINUED: PROCESSING PLANTS: MONTANA-----	-	-	-	1	1	1	-	1	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	13	13	13	-	13	13
TOTAL OR AVERAGE, ALL MINES AND PLANTS: MONTANA-----	-	-	-	2	2	2	-	2	-	-	-	33	33	33	-	16	16
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	33	33	33	-	16	16
GRAND TOTAL OR AVERAGE: MONTANA-----	-	-	-	2	2	2	-	2	-	-	-	33	33	33	-	16	16
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	33	33	33	-	16	16
GILSONITE: UNDERGROUND MINES: UNDERGROUND: UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE, UG: UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE, MINING: UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
INDEPENDENT SHOPS: UTAH-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS: UTAH-----	-	-	-	6	6	6	4	10	-	-	-	589	589	589	-	98	98
TOTAL OR AVERAGE----	-	-	-	6	6	6	4	10	-	-	-	589	589	589	-	98	98

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
GILSONITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: UTAH-----	-	-	-	9	9	9	12	21	-	-	-	593	593	593	-	66	66
TOTAL OR AVERAGE----	-	-	-	9	9	9	12	21	-	-	-	593	593	593	-	66	66
OFFICE: UTAH-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
GRAND TOTAL OR AVERAGE: UTAH-----	-	-	-	9	9	9	14	23	-	-	-	593	593	593	-	66	66
TOTAL OR AVERAGE----	-	-	-	9	9	9	14	23	-	-	-	593	593	593	-	66	66
GYP SUM: UNDERGROUND MINES: UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	47	47	47	-	47	47
KANSAS-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
NEW YORK-----	-	-	-	2	2	2	2	4	-	-	-	35	35	35	-	18	18
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE----	-	-	-	8	8	8	5	13	-	-	-	312	312	312	-	39	39
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	47	47	47	-	47	47
KANSAS-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
NEW YORK-----	-	-	-	2	2	2	2	4	-	-	-	35	35	35	-	18	18
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE----	-	-	-	8	8	8	5	13	-	-	-	312	312	312	-	39	39

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
GYPSUM-CONTINUED: SURFACE MINES: OPEN PIT:	-	-	-	1	1	1	2	3	-	-	-	23	23	23	-	23	23
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
IOWA-----	-	-	1	1	2	2	-	2	-	-	300	10	310	310	300	10	155
MICHIGAN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
OKLAHOMA-----	-	-	-	4	4	4	2	6	-	-	-	142	142	142	-	36	36
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	14	15	15	17	32	-	-	300	355	655	655	300	25	44
TOTAL OR AVERAGE, SURFACE:	-	-	-	1	1	1	2	3	-	-	-	23	23	23	-	23	23
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
IOWA-----	-	-	1	1	2	2	-	2	-	-	300	10	310	310	300	10	155
MICHIGAN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
OKLAHOMA-----	-	-	-	4	4	4	2	6	-	-	-	142	142	142	-	36	36
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	14	15	15	17	32	-	-	300	355	655	655	300	25	44
TOTAL OR AVERAGE, MINING:	-	-	-	1	1	1	2	3	-	-	-	23	23	23	-	23	23
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
CALIFORNIA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
INDIANA-----	-	-	-	2	2	2	-	2	-	-	-	64	64	64	-	32	32
IOWA-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
KANSAS-----	-	-	1	2	3	3	-	3	-	-	300	41	341	341	300	20	114
MICHIGAN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	2	2	2	2	4	-	-	-	35	35	35	-	18	18
NEW YORK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
OKLAHOMA-----	-	-	-	4	4	4	2	6	-	-	-	142	142	142	-	36	36
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	22	23	23	22	45	-	-	300	667	967	967	300	30	42
PROCESSING PLANTS:	-	-	-	4	4	4	-	4	-	-	-	76	76	76	-	19	19
IOWA-----	-	-	-	1	1	1	-	1	-	-	400	-	400	400	400	-	400
MICHIGAN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	5	6	6	3	9	-	-	400	81	481	481	400	16	80

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GYPSUM-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	1	1	1	2	3	-	-	-	23	23	23	-	23	23
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
CALIFORNIA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
INDIANA-----	-	-	-	6	6	6	-	6	-	-	-	140	140	140	-	23	23
IOWA-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
KANSAS-----	-	-	2	2	4	4	-	4	-	-	700	41	741	741	350	20	185
MICHIGAN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	2	2	2	3	5	-	-	-	35	35	35	-	18	18
NEW YORK-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	7	7	7	9	16	-	-	-	137	137	137	-	20	20
OKLAHOMA-----	-	-	-	4	4	4	2	6	-	-	-	142	142	142	-	36	36
TEXAS-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	27	29	29	25	54	-	-	700	748	1,448	1,448	350	28	50
OFFICE:																	
IOWA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OKLAHOMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
GRAND TOTAL OR AVERAGE:																	
ARKANSAS-----	-	-	-	1	1	1	2	3	-	-	-	23	23	23	-	23	23
CALIFORNIA-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
INDIANA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
IOWA-----	-	-	-	6	6	6	1	7	-	-	-	140	140	140	-	23	23
KANSAS-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
MICHIGAN-----	-	-	2	2	4	4	-	4	-	-	700	41	741	741	350	20	185
NEVADA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	2	2	2	3	5	-	-	-	35	35	35	-	18	18
OHIO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
OKLAHOMA-----	-	-	-	7	7	7	10	17	-	-	-	137	137	137	-	20	20
TEXAS-----	-	-	-	4	4	4	2	6	-	-	-	142	142	142	-	36	36
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE----	-	-	2	27	29	29	27	56	-	-	700	748	1,448	1,448	350	28	50
KYANITE: PROCESSING PLANTS:																	
VIRGINIA-----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
KYANITE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: VIRGINIA-----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17
GRAND TOTAL OR AVERAGE: VIRGINIA-----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17
TOTAL OR AVERAGE----	-	-	-	7	7	7	1	8	-	-	-	119	119	119	-	17	17
LEONARDITE: PROCESSING PLANTS: NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
GRAND TOTAL OR AVERAGE: NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
LITHIUM: SURFACE MINES: OPEN PIT: NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, SURFACE: NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, MINING: NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
LITHIUM-CONTINUED: PROCESSING PLANTS: NORTH CAROLINA-----	-	-	-	1	1	1	1	2	-	-	-	63	63	63	-	63	63
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	63	63	63	-	63	63
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NORTH CAROLINA-----	-	-	-	1	1	1	2	3	-	-	-	63	63	63	-	63	63
TOTAL OR AVERAGE----	-	-	-	1	1	1	2	3	-	-	-	63	63	63	-	63	63
GRAND TOTAL OR AVERAGE: NORTH CAROLINA-----	-	-	-	1	1	1	2	3	-	-	-	63	63	63	-	63	63
TOTAL OR AVERAGE----	-	-	-	1	1	1	2	3	-	-	-	63	63	63	-	63	63
MAGNESITE: PROCESSING PLANTS: NEVADA-----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NEVADA-----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
GRAND TOTAL OR AVERAGE: NEVADA-----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
TOTAL OR AVERAGE----	-	-	-	12	12	12	1	13	-	-	-	171	171	171	-	14	14
MICA: SURFACE MINES: OPEN PIT: GEORGIA-----	-	-	-	4	4	4	3	7	-	-	-	132	132	132	-	33	33
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	4	4	4	4	8	-	-	-	132	132	132	-	33	33

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
MICA-CONTINUED: TOTAL OR AVERAGE, SURFACE: GEORGIA----- NORTH CAROLINA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	4 - - 4	4 - - 4	4 - - 4	3 1 - 4	7 1 - 8	- - - -	- - - -	- - - -	132 - - 132	132 - - 132	132 - - 132	- - - -	33 - - 33	33 - - 33
TOTAL OR AVERAGE, MINING: GEORGIA----- NORTH CAROLINA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	4 - - 4	4 - - 4	4 - - 4	3 1 - 4	7 1 - 8	- - - -	- - - -	- - - -	132 - - 132	132 - - 132	132 - - 132	- - - -	33 - - 33	33 - - 33
PROCESSING PLANTS: GEORGIA----- NEW MEXICO----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	10 3 8 2 23	10 3 8 2 23	10 3 8 2 23	5 3 10 1 19	15 6 18 3 42	- - - - -	- - - - -	- - - - -	226 7 53 6 292	226 7 53 6 292	226 7 53 6 292	- - - - -	23 2 7 3 13	23 2 7 3 13
TOTAL OR AVERAGE, ALL MINES AND PLANTS: GEORGIA----- NEW MEXICO----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	14 3 8 2 27	14 3 8 2 27	14 3 8 2 27	8 3 11 1 23	22 6 19 3 50	- - - - -	- - - - -	- - - - -	358 7 53 6 424	358 7 53 6 424	358 7 53 6 424	- - - - -	26 2 7 3 16	26 2 7 3 16
GRAND TOTAL OR AVERAGE: GEORGIA----- NEW MEXICO----- NORTH CAROLINA----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	14 3 8 2 27	14 3 8 2 27	14 3 8 2 27	8 3 11 1 23	22 6 19 3 50	- - - - -	- - - - -	- - - - -	358 7 53 6 424	358 7 53 6 424	358 7 53 6 424	- - - - -	26 2 7 3 16	26 2 7 3 16
OIL SAND/SHALE: UNDERGROUND MINES: UNDERGROUND: COLORADO----- ILLINOIS----- WYOMING----- TOTAL OR AVERAGE----	- - - - - - -	- - - - - - -	- - - - - - -	18 - 1 - - - 19	18 - 1 - - - 19	18 - 1 - - - 19	4 1 - - - - 5	22 1 1 - - - 24	- - - - - - -	- - - - - - -	- - - - - - -	336 - 31 - - - 367	336 - 31 - - - 367	336 - 31 - - - 367	- - - - - - -	19 - 31 - - - 19	19 - 31 - - - 19

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
OIL SAND/SHALE-CONTINUED: SURFACE AT UNDERGROUND: COLORADO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, UG: COLORADO-----	-	-	-	18	18	18	6	24	-	-	-	336	336	336	-	19	19
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	-	-	367	367	367	-	19	19
TOTAL OR AVERAGE, MINING: COLORADO-----	-	-	-	18	18	18	6	24	-	-	-	336	336	336	-	19	19
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	-	-	367	367	367	-	19	19
TOTAL OR AVERAGE, ALL MINES AND PLANTS: COLORADO-----	-	-	-	18	18	18	6	24	-	-	-	336	336	336	-	19	19
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	-	-	367	367	367	-	19	19
GRAND TOTAL OR AVERAGE: COLORADO-----	-	-	-	18	18	18	6	24	-	-	-	336	336	336	-	19	19
ILLINOIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
TOTAL OR AVERAGE----	-	-	-	19	19	19	7	26	-	-	-	367	367	367	-	19	19
PERLITE: SURFACE MINES: OPEN PIT: IDAHO-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
NEW MEXICO-----	-	-	-	4	4	4	4	8	-	-	-	33	33	33	-	8	8
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	-	-	-	64	64	64	-	13	13

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
PERLITE-CONTINUED: TOTAL OR AVERAGE, SURFACE: IDAHO----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 4 5	1 4 5	1 4 5	- 4 4	1 8 9	- - -	- - -	- - -	31 33 64	31 33 64	31 33 64	- - -	31 8 13	31 8 13
TOTAL OR AVERAGE, MINING: IDAHO----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 4 5	1 4 5	1 4 5	- 4 4	1 8 9	- - -	- - -	- - -	31 33 64	31 33 64	31 33 64	- - -	31 8 13	31 8 13
PROCESSING PLANTS: FLORIDA----- IDAHO----- KANSAS----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	1 2 - 12 15	1 2 - 12 15	1 2 - 12 15	- - 1 6 7	1 2 1 18 22	- - - - -	- - - - -	- - - - -	11 72 - 147 230	11 72 - 147 230	11 72 - 147 230	- - - - -	11 36 - 12 15	11 36 - 12 15
TOTAL OR AVERAGE, ALL MINES AND PLANTS: FLORIDA----- IDAHO----- KANSAS----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	1 3 - 16 20	1 3 - 16 20	1 3 - 16 20	- - 1 10 11	1 3 1 26 31	- - - - -	- - - - -	- - - - -	11 103 - 180 294	11 103 - 180 294	11 103 - 180 294	- - - - -	11 34 - 11 15	11 34 - 11 15
GRAND TOTAL OR AVERAGE: FLORIDA----- IDAHO----- KANSAS----- NEW MEXICO----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	1 3 - 16 20	1 3 - 16 20	1 3 - 16 20	- - 1 10 11	1 3 1 26 31	- - - - -	- - - - -	- - - - -	11 103 - 180 294	11 103 - 180 294	11 103 - 180 294	- - - - -	11 34 - 11 15	11 34 - 11 15
PHOSPHATE: UNDERGROUND MINES: UNDERGROUND: MONTANA----- TOTAL OR AVERAGE----	- - - 2 2	- - - - -	- - - - -	3 3 3 3	3 3 3 3	5 5 5 5	16 16 16 16	21 21 21 21	12,000 12,000 12,000 12,000	- - - -	- - - -	29 29 29 29	29 29 29 29	12,029 12,029 12,029 12,029	- - - -	10 10 10 10	2,406 2,406 2,406 2,406

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PHOSPHATE-CONTINUED: SURFACE AT UNDERGROUND: MONTANA-----	-	-	1	2	3	3	4	7	-	-	50	51	101	101	50	26	34
TOTAL OR AVERAGE----	-	-	1	2	3	3	4	7	-	-	50	51	101	101	50	26	34
TOTAL OR AVERAGE, UG: MONTANA-----	2	-	1	5	6	8	20	28	12,000	-	50	80	130	12,130	50	16	1,516
TOTAL OR AVERAGE----	2	-	1	5	6	8	20	28	12,000	-	50	80	130	12,130	50	16	1,516
SURFACE MINES: OPEN PIT:																	
FLORIDA-----	-	-	1	57	58	58	59	117	-	-	50	879	929	929	50	15	16
IDAHO-----	-	-	1	10	11	11	11	22	-	-	50	152	202	202	50	15	18
NORTH CAROLINA-----	-	-	-	8	8	8	11	19	-	-	-	54	54	54	-	7	7
TOTAL OR AVERAGE----	-	-	2	75	77	77	81	158	-	-	100	1,085	1,185	1,185	50	14	15
DREDGE: NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	6	6	6	-	3	3
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	6	6	6	-	3	3
TOTAL OR AVERAGE, SURFACE:																	
FLORIDA-----	-	-	1	57	58	58	59	117	-	-	50	879	929	929	50	15	16
IDAHO-----	-	-	1	10	11	11	11	22	-	-	50	152	202	202	50	15	18
NORTH CAROLINA-----	-	-	-	10	10	10	11	21	-	-	-	60	60	60	-	6	6
TOTAL OR AVERAGE----	-	-	2	77	79	79	81	160	-	-	100	1,091	1,191	1,191	50	14	15
TOTAL OR AVERAGE, MINING:																	
FLORIDA-----	-	-	1	57	58	58	59	117	-	-	50	879	929	929	50	15	16
IDAHO-----	-	-	1	10	11	11	11	22	-	-	50	152	202	202	50	15	18
MONTANA-----	2	-	1	5	6	8	20	28	12,000	-	50	80	130	12,130	50	16	1,516
NORTH CAROLINA-----	-	-	-	10	10	10	11	21	-	-	-	60	60	60	-	6	6
TOTAL OR AVERAGE----	2	-	3	82	85	87	101	188	12,000	-	150	1,171	1,321	13,321	50	14	153
PROCESSING PLANTS:																	
FLORIDA-----	-	-	1	33	34	34	41	75	-	-	100	536	636	636	100	16	19
IDAHO-----	-	-	-	6	6	6	2	8	-	-	-	42	42	42	-	7	7
NORTH CAROLINA-----	-	-	-	3	3	3	3	6	-	-	-	50	50	50	-	17	17
TENNESSEE-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
UTAH-----	1	-	-	2	2	3	1	4	6,000	-	-	145	145	6,145	-	72	2,048
TOTAL OR AVERAGE----	1	-	1	44	45	46	52	98	6,000	-	100	773	873	6,873	100	18	149

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PHOSPHATE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	2	90	92	92	100	192	-	-	150	1,415	1,565	1,565	75	16	17
FLORIDA-----	-	-	1	16	17	17	13	30	-	-	50	194	244	244	50	12	14
IDAHO-----	2	-	1	5	6	8	20	28	12,000	-	50	80	130	12,130	50	16	1,516
MONTANA-----	-	-	-	13	13	13	14	27	-	-	-	110	110	110	-	8	8
NORTH CAROLINA-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
TENNESSEE-----	1	-	-	2	2	3	1	4	6,000	-	-	145	145	6,145	-	72	2,048
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	3	-	4	126	130	133	153	286	18,000	-	250	1,944	2,194	20,194	62	15	152
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	2	90	92	92	100	192	-	-	150	1,415	1,565	1,565	75	16	17
IDAHO-----	-	-	1	16	17	17	13	31	-	-	50	196	246	246	50	12	14
MONTANA-----	2	-	1	5	6	8	20	28	12,000	-	50	80	130	12,130	50	16	1,516
NORTH CAROLINA-----	-	-	-	13	13	13	14	27	-	-	-	110	110	110	-	8	8
TENNESSEE-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
UTAH-----	1	-	-	2	2	3	1	4	6,000	-	-	145	145	6,145	-	72	2,048
TOTAL OR AVERAGE----	3	-	4	127	131	134	153	287	18,000	-	250	1,946	2,196	20,196	62	15	151
PIGMENT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	149	149	149	-	74	74
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	161	161	161	-	161	161
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	310	310	310	-	103	103
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	149	149	149	-	74	74
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	161	161	161	-	161	161
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	310	310	310	-	103	103
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	149	149	149	-	74	74
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	161	161	161	-	161	161
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	310	310	310	-	103	103

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL. WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
POTASH: UNDERGROUND MINES: UNDERGROUND: NEW MEXICO-----	-	-	-	23	23	23	18	41	-	-	-	1,187	1,187	1,187	-	52	52
TOTAL OR AVERAGE----	-	-	-	23	23	23	18	41	-	-	-	1,187	1,187	1,187	-	52	52
SURFACE AT UNDERGROUND: NEW MEXICO-----	-	-	1	9	10	10	8	18	-	-	50	510	560	560	50	57	56
TOTAL OR AVERAGE----	-	-	1	9	10	10	8	18	-	-	50	510	560	560	50	57	56
TOTAL OR AVERAGE, UG: NEW MEXICO-----	-	-	1	32	33	33	26	59	-	-	50	1,697	1,747	1,747	50	53	53
TOTAL OR AVERAGE----	-	-	1	32	33	33	26	59	-	-	50	1,697	1,747	1,747	50	53	53
TOTAL OR AVERAGE, MINING: NEW MEXICO-----	-	-	1	32	33	33	26	59	-	-	50	1,697	1,747	1,747	50	53	53
TOTAL OR AVERAGE----	-	-	1	32	33	33	26	59	-	-	50	1,697	1,747	1,747	50	53	53
PROCESSING PLANTS: NEW MEXICO-----	-	-	-	10	10	10	13	23	-	-	-	307	307	307	-	31	31
UTAH-----	-	-	-	2	2	2	1	3	-	-	-	11	11	11	-	6	6
TOTAL OR AVERAGE----	-	-	-	12	12	12	14	26	-	-	-	318	318	318	-	26	26
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NEW MEXICO-----	-	-	1	42	43	43	39	82	-	-	50	2,004	2,054	2,054	50	48	48
UTAH-----	-	-	-	2	2	2	1	3	-	-	-	11	11	11	-	6	6
TOTAL OR AVERAGE----	-	-	1	44	45	45	40	85	-	-	50	2,015	2,065	2,065	50	46	46
GRAND TOTAL OR AVERAGE: NEW MEXICO-----	-	-	1	42	43	43	39	82	-	-	50	2,004	2,054	2,054	50	48	48
UTAH-----	-	-	-	2	2	2	1	3	-	-	-	11	11	11	-	6	6
TOTAL OR AVERAGE----	-	-	1	44	45	45	40	85	-	-	50	2,015	2,065	2,065	50	46	46

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PUMICE:																	
SURFACE MINES:																	
OPEN PIT:																	
ARIZONA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
CALIFORNIA-----	-	-	-	2	2	2	2	-	-	-	31	31	31	-	16		
COLORADO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
NEW MEXICO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	-	-	-	31	31	31	-	16		
TOTAL OR AVERAGE, SURFACE:																	
ARIZONA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
CALIFORNIA-----	-	-	-	2	2	2	2	-	-	-	31	31	31	-	16		
COLORADO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
NEW MEXICO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	-	-	-	31	31	31	-	16		
TOTAL OR AVERAGE, MINING:																	
ARIZONA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
CALIFORNIA-----	-	-	-	2	2	2	2	-	-	-	31	31	31	-	16		
COLORADO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
NEW MEXICO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE----	-	-	-	2	2	2	3	-	-	-	31	31	31	-	16		
PROCESSING PLANTS:																	
CALIFORNIA-----	-	-	-	1	1	1	-	-	-	-	35	35	35	-	35		
COLORADO-----	-	-	-	6	6	6	-	-	-	-	47	47	47	-	8		
IDAHO-----	-	-	-	1	1	1	-	-	-	-	7	7	7	-	7		
NEW MEXICO-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE----	-	-	-	8	8	8	1	-	-	-	89	89	89	-	11		
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
ARIZONA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
CALIFORNIA-----	-	-	-	3	3	3	3	-	-	-	66	66	66	-	22		
COLORADO-----	-	-	-	6	6	6	1	-	-	-	47	47	47	-	8		
IDAHO-----	-	-	-	1	1	1	-	-	-	-	7	7	7	-	7		
NEW MEXICO-----	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE----	-	-	-	10	10	10	4	-	-	-	120	120	120	-	12		

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PUMICE-CONTINUED: GRAND TOTAL OR AVERAGE:-----	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
ARIZONA-----	-	-	-	3	3	3	3	-	-	-	66	66	66	-	22	22	
CALIFORNIA-----	-	-	-	6	6	6	7	-	-	-	47	47	47	-	8	8	
COLORADO-----	-	-	-	1	1	1	1	-	-	-	7	7	7	-	7	7	
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEW MEXICO-----	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	-	10	10	10	14	-	-	-	120	120	120	-	12	12	
SALT: UNDERGROUND MINES: UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	1	1	1	2	-	-	-	7	7	7	-	7	7	
LOUISIANA-----	-	-	-	11	11	11	15	-	-	-	411	411	411	-	37	37	
NEW YORK-----	-	-	1	15	16	16	25	-	-	50	375	425	425	50	25	27	
OHIO-----	-	-	-	12	12	12	17	-	-	-	294	294	294	-	24	24	
TEXAS-----	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	1	39	40	40	63	-	-	50	1,087	1,137	1,137	50	28	28	
SURFACE AT UNDERGROUND:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	2	2	2	2	-	-	-	9	9	9	-	4	4	
LOUISIANA-----	-	-	-	3	3	3	6	-	-	-	111	111	111	-	37	37	
NEW YORK-----	-	-	-	3	3	3	6	-	-	-	67	67	67	-	22	22	
OHIO-----	-	-	-	10	10	10	12	-	-	-	136	136	136	-	14	14	
TOTAL OR AVERAGE-----	-	-	-	18	18	18	26	-	-	-	323	323	323	-	18	18	
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	3	3	3	4	-	-	-	16	16	16	-	5	5	
LOUISIANA-----	-	-	-	14	14	14	21	-	-	-	522	522	522	-	37	37	
NEW YORK-----	-	-	1	18	19	19	31	-	-	50	442	492	492	50	25	26	
OHIO-----	-	-	-	22	22	22	29	-	-	-	430	430	430	-	20	20	
TEXAS-----	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	1	57	58	58	89	-	-	50	1,410	1,460	1,460	50	25	25	
SURFACE MINES: DREDGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEW MEXICO-----	-	-	-	3	3	3	7	-	-	-	13	13	13	-	4	4	
TOTAL OR AVERAGE-----	-	-	-	3	3	3	7	-	-	-	13	13	13	-	4	4	
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEW MEXICO-----	-	-	-	3	3	3	7	-	-	-	13	13	13	-	4	4	
TOTAL OR AVERAGE-----	-	-	-	3	3	3	7	-	-	-	13	13	13	-	4	4	

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
SALT-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	3	3	3	1	4	-	-	-	16	16	16	-	5	5
KANSAS-----	-	-	-	14	14	14	7	21	-	-	-	522	522	522	-	37	37
LOUISIANA-----	-	-	-	3	3	3	4	7	-	-	-	13	13	13	-	4	4
NEW MEXICO-----	-	-	1	18	19	19	12	31	-	-	50	442	492	492	50	25	26
NEW YORK-----	-	-	-	22	22	22	7	29	-	-	-	430	430	430	-	20	20
OHIO-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	60	61	61	35	96	-	-	50	1,423	1,473	1,473	50	24	24
PROCESSING PLANTS:	-	-	-	24	24	24	14	38	-	-	-	1,468	1,468	1,468	-	61	61
KANSAS-----	-	-	-	9	9	9	5	14	-	-	-	354	354	354	-	39	39
LOUISIANA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	3	3	3	1	4	-	-	-	26	26	26	-	9	9
NEW YORK-----	-	-	-	2	2	2	-	2	-	-	-	15	15	15	-	8	8
OHIO-----	-	-	1	1	2	2	5	7	-	-	50	58	108	108	50	58	54
TEXAS-----	-	-	-	3	3	3	-	3	-	-	-	129	129	129	-	43	43
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	42	43	43	26	69	-	-	50	2,050	2,100	2,100	50	49	49
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	27	27	27	15	42	-	-	-	1,484	1,484	1,484	-	55	55
KANSAS-----	-	-	-	23	23	23	12	35	-	-	-	876	876	876	-	38	38
LOUISIANA-----	-	-	-	3	3	3	5	8	-	-	-	13	13	13	-	4	4
NEW MEXICO-----	-	-	-	21	22	22	13	35	-	-	50	468	518	518	50	22	24
NEW YORK-----	-	-	1	24	24	24	7	31	-	-	-	445	445	445	-	19	19
OHIO-----	-	-	-	1	2	2	9	11	-	-	50	58	108	108	50	58	54
TEXAS-----	-	-	-	3	3	3	-	3	-	-	-	129	129	129	-	43	43
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	2	102	104	104	61	165	-	-	100	3,473	3,573	3,573	50	34	34
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOUISIANA-----	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
NEW YORK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	1	-	1	1	2	3	-	-	50	-	50	50	50	-	50

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SALT-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	27	27	27	16	43	-	-	-	1,484	1,484	1,484	-	55	55
KANSAS-----	-	-	-	23	24	24	12	36	-	-	50	876	926	926	50	38	39
LOUISIANA-----	-	-	1	3	3	3	5	8	-	-	-	13	13	13	-	4	4
NEW MEXICO-----	-	-	-	21	22	22	14	36	-	-	50	468	518	518	50	22	24
NEW YORK-----	-	-	1	24	24	24	7	31	-	-	-	445	445	445	-	19	19
OHIO-----	-	-	-	1	2	2	9	11	-	-	50	58	108	108	50	58	54
TEXAS-----	-	-	-	3	3	3	-	3	-	-	-	129	129	129	-	43	43
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	3	102	105	105	63	168	-	-	150	3,473	3,623	3,623	50	34	35
SHALE: SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
INDIANA-----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	286	286	286	-	286	286
NEW YORK-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19	19
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	35	35	35	-	18	18
OHIO-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
TEXAS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	4	16	-	-	-	439	439	439	-	37	37
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
INDIANA-----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	286	286	286	-	286	286
NEW YORK-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19	19
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	35	35	35	-	18	18
OHIO-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
TEXAS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	4	16	-	-	-	439	439	439	-	37	37

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
SHALE-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	-	-	-	-	-	1	1	-	-	-	16	16	16	-	16
INDIANA-----	-	-	-	1	1	1	-	1	-	-	-	50	50	50	-	17
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	-	-	7	7	7	-	7
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	286	286	286	-	286
NEW YORK-----	-	-	-	1	1	1	-	1	-	-	-	38	38	38	-	19
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	35	35	35	-	18
OHIO-----	-	-	-	2	2	2	-	2	-	-	-	7	7	7	-	4
TEXAS-----	-	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	12	12	12	4	16	-	-	-	439	439	439	-	37
PROCESSING PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALABAMA-----	-	-	-	2	2	2	3	5	-	-	-	31	31	31	-	16
CALIFORNIA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2
NEW YORK-----	-	-	-	16	16	16	2	18	-	-	-	565	565	565	-	35
OHIO-----	-	-	-	3	3	3	-	3	-	-	-	68	68	68	-	23
TEXAS-----	-	-	-	3	3	3	4	7	-	-	-	21	21	21	-	7
UTAH-----	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21
TOTAL OR AVERAGE----	-	-	-	27	27	27	15	42	-	-	-	712	712	712	-	26
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALABAMA-----	-	-	-	2	2	2	3	5	-	-	-	31	31	31	-	16
CALIFORNIA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	-	2	-	-	-	20	20	20	-	10
MASSACHUSETTS-----	-	-	-	4	4	4	1	5	-	-	-	52	52	52	-	13
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7
NEW YORK-----	-	-	-	17	17	17	2	19	-	-	-	851	851	851	-	50
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19
OHIO-----	-	-	-	5	5	5	-	5	-	-	-	103	103	103	-	21
TEXAS-----	-	-	-	5	5	5	5	10	-	-	-	28	28	28	-	6
UTAH-----	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	39	39	39	19	58	-	-	-	1,151	1,151	1,151	-	30

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SHALE-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	2	2	2	3	5	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA-----	-	-	-	2	2	2	-	2	-	-	-	20	20	20	-	10	10
MASSACHUSETTS-----	-	-	-	4	4	4	1	5	-	-	-	52	52	52	-	13	13
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
NEW YORK-----	-	-	-	17	17	17	2	19	-	-	-	851	851	851	-	50	50
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19	19
OHIO-----	-	-	-	5	5	5	-	5	-	-	-	103	103	103	-	21	21
TEXAS-----	-	-	-	5	5	5	5	10	-	-	-	28	28	28	-	6	6
UTAH-----	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21	21
VIRGINIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	39	39	39	19	58	-	-	-	1,151	1,151	1,151	-	30	30
SODIUM COMPOUNDS: UNDERGROUND MINES: UNDERGROUND:																	
WYOMING-----	-	-	1	43	44	44	66	110	-	-	50	1,875	1,925	1,925	50	44	44
TOTAL OR AVERAGE----	-	-	1	43	44	44	66	110	-	-	50	1,875	1,925	1,925	50	44	44
SURFACE AT UNDERGROUND: WYOMING-----	-	-	-	2	2	2	5	7	-	-	-	54	54	54	-	27	27
TOTAL OR AVERAGE----	-	-	-	2	2	2	5	7	-	-	-	54	54	54	-	27	27
TOTAL OR AVERAGE, UG: WYOMING-----	-	-	1	45	46	46	71	117	-	-	50	1,929	1,979	1,979	50	43	43
TOTAL OR AVERAGE----	-	-	1	45	46	46	71	117	-	-	50	1,929	1,979	1,979	50	43	43
TOTAL OR AVERAGE, MINING: WYOMING-----	-	-	1	45	46	46	71	117	-	-	50	1,929	1,979	1,979	50	43	43
TOTAL OR AVERAGE----	-	-	1	45	46	46	71	117	-	-	50	1,929	1,979	1,979	50	43	43
PROCESSING PLANTS: WYOMING-----	-	-	-	31	31	31	65	96	-	-	-	930	930	930	-	30	30
TOTAL OR AVERAGE----	-	-	-	31	31	31	65	96	-	-	-	930	930	930	-	30	30

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SODIUM COMPOUNDS-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: WYOMING-----	-	-	1	76	77	77	136	213	-	-	50	2,859	2,909	2,909	50	38	38
TOTAL OR AVERAGE----	-	-	1	76	77	77	136	213	-	-	50	2,859	2,909	2,909	50	38	38
OFFICE: WYOMING-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
GRAND TOTAL OR AVERAGE: WYOMING-----	-	-	1	77	78	78	137	215	-	-	50	2,860	2,910	2,910	50	37	37
TOTAL OR AVERAGE----	-	-	1	77	78	78	137	215	-	-	50	2,860	2,910	2,910	50	37	37
TALC-SOAPSTONE: UNDERGROUND MINES: UNDERGROUND:																	
GEORGIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	4	4	4	-	4	-	-	-	80	80	80	-	20	20
NEW YORK-----	-	-	-	2	2	2	4	6	-	-	-	3	3	3	-	2	2
VERMONT-----	-	-	-	3	3	3	-	3	-	-	-	156	156	156	-	52	52
TOTAL OR AVERAGE----	-	-	-	9	9	9	5	14	-	-	-	239	239	239	-	27	27
SURFACE AT UNDERGROUND:																	
GEORGIA-----	-	-	-	2	2	2	-	2	-	-	-	2	2	2	-	1	1
MONTANA-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE----	-	-	-	3	3	3	2	5	-	-	-	4	4	4	-	1	1
TOTAL OR AVERAGE, UG:																	
GEORGIA-----	-	-	-	2	2	2	1	3	-	-	-	2	2	2	-	1	1
MONTANA-----	-	-	-	4	4	4	2	6	-	-	-	80	80	80	-	20	20
NEW YORK-----	-	-	-	3	3	3	4	7	-	-	-	5	5	5	-	2	2
VERMONT-----	-	-	-	3	3	3	-	3	-	-	-	156	156	156	-	52	52
TOTAL OR AVERAGE----	-	-	-	12	12	12	7	19	-	-	-	243	243	243	-	20	20

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1968 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TALC-SOAPSTONE-CONTINUED:																	
SURFACE MINES:																	
OPEN PIT:																	
MONTANA-----	-	-	-	5	5	5	-	5	-	-	-	16	16	16	-	3	3
TEXAS-----	-	-	-	3	3	3	3	6	-	-	-	94	94	94	-	31	31
VERMONT-----	-	-	-	1	1	1	1	2	-	-	-	30	30	30	-	30	30
TOTAL OR AVERAGE----	-	-	-	9	9	9	4	13	-	-	-	140	140	140	-	16	16
TOTAL OR AVERAGE, SURFACE:																	
MONTANA-----	-	-	-	5	5	5	-	5	-	-	-	16	16	16	-	3	3
TEXAS-----	-	-	-	3	3	3	3	6	-	-	-	94	94	94	-	31	31
VERMONT-----	-	-	-	1	1	1	1	2	-	-	-	30	30	30	-	30	30
TOTAL OR AVERAGE----	-	-	-	9	9	9	4	13	-	-	-	140	140	140	-	16	16
TOTAL OR AVERAGE, MINING:																	
GEORGIA-----	-	-	-	2	2	2	1	3	-	-	-	2	2	2	-	1	1
MONTANA-----	-	-	-	9	9	9	2	11	-	-	-	96	96	96	-	11	11
NEW YORK-----	-	-	-	3	3	3	4	7	-	-	-	5	5	5	-	2	2
TEXAS-----	-	-	-	3	3	3	3	6	-	-	-	94	94	94	-	31	31
VERMONT-----	-	-	-	4	4	4	1	5	-	-	-	186	186	186	-	46	46
TOTAL OR AVERAGE----	-	-	-	21	21	21	11	32	-	-	-	383	383	383	-	18	18
PROCESSING PLANTS:																	
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARKANSAS-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
GEORGIA-----	-	-	-	2	2	2	2	4	-	-	-	16	16	16	-	8	8
MONTANA-----	-	-	2	6	8	8	11	19	-	-	150	66	216	216	75	11	27
NEBRASKA-----	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2
NEW YORK-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	5	5	5	6	11	-	-	-	42	42	42	-	8	8
VERMONT-----	-	-	-	7	7	7	1	8	-	-	-	33	33	33	-	5	5
VIRGINIA-----	-	-	-	3	3	3	3	6	-	-	-	39	39	39	-	13	13
TOTAL OR AVERAGE----	-	-	2	27	29	29	30	59	-	-	150	212	362	362	75	8	12

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
TALC-SOAPSTONE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ALABAMA-----	-	-	-	1	1	1	1	-	-	-	3	3	3	-	3	3
ARKANSAS-----	-	-	-	1	1	1	1	-	-	-	9	9	9	-	9	9
CALIFORNIA-----	-	-	-	4	4	4	3	-	-	-	18	18	18	-	4	4
GEORGIA-----	-	-	-	4	4	4	3	-	-	-	18	18	18	-	4	4
MONTANA-----	-	-	2	15	17	17	13	-	-	150	162	312	312	75	11	18
NEBRASKA-----	-	-	-	2	2	2	1	-	-	-	4	4	4	-	2	2
NEW YORK-----	-	-	-	3	3	3	8	-	-	-	5	5	5	-	2	2
NORTH CAROLINA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	8	8	8	9	-	-	-	136	136	136	-	17	17
VERMONT-----	-	-	-	11	11	11	2	-	-	-	219	219	219	-	20	20
VIRGINIA-----	-	-	-	3	3	3	3	-	-	-	39	39	39	-	13	13
TOTAL OR AVERAGE----	-	-	2	48	50	50	41	-	-	150	595	745	745	75	12	15
OFFICE:	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	1	1	1	-	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	-	-	-	3	3	3	-	3	3
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
ALABAMA-----	-	-	-	1	1	1	-	-	-	-	3	3	3	-	3	3
ARKANSAS-----	-	-	-	1	1	1	-	-	-	-	9	9	9	-	9	9
CALIFORNIA-----	-	-	-	4	4	4	3	-	-	-	18	18	18	-	4	4
GEORGIA-----	-	-	-	4	4	4	3	-	-	-	18	18	18	-	4	4
MONTANA-----	-	-	2	15	17	17	13	-	-	150	162	312	312	75	11	18
NEBRASKA-----	-	-	-	2	2	2	1	-	-	-	4	4	4	-	2	2
NEW YORK-----	-	-	-	3	3	3	9	-	-	-	5	5	5	-	2	2
NORTH CAROLINA-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	9	9	9	9	-	-	-	139	139	139	-	15	15
VERMONT-----	-	-	-	11	11	11	2	-	-	-	219	219	219	-	20	20
VIRGINIA-----	-	-	-	3	3	3	3	-	-	-	39	39	39	-	13	13
TOTAL OR AVERAGE----	-	-	2	49	51	51	42	-	-	150	598	748	748	75	12	15
VERMICULITE: SURFACE MINES: OPEN PIT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	1	1	1	-	-	-	-	4	4	4	-	4	4
SOUTH CAROLINA-----	-	-	-	1	1	1	1	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	-	-	-	5	5	5	-	2	2

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
VERMICULITE-CONTINUED: TOTAL OR AVERAGE, SURFACE: MONTANA----- SOUTH CAROLINA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- 1 - 1	1 2 - 3	- - - -	- - - -	- 4 1 5	4 1 - 5	4 1 - 5	- - - -	4 1 - 2	4 1 - 2	
TOTAL OR AVERAGE, MINING: MONTANA----- SOUTH CAROLINA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- 1 - 1	1 2 - 3	- - - -	- - - -	- 4 1 5	4 1 - 5	4 1 - 5	- - - -	4 1 - 2	4 1 - 2	
PROCESSING PLANTS: MONTANA----- SOUTH CAROLINA----- VIRGINIA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	2 4 1 7	2 4 1 7	2 4 1 7	- 6 - 6	2 10 1 13	- - - -	- - - -	- 79 22 20 121	79 22 20 121	79 22 20 121	- - - -	40 6 20 17	40 6 20 17	
TOTAL OR AVERAGE, ALL MINES AND PLANTS: MONTANA----- SOUTH CAROLINA----- VIRGINIA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	3 5 1 9	3 5 1 9	3 5 1 9	- 7 - 7	3 12 1 16	- - - -	- - - -	- 83 23 20 126	83 23 20 126	83 23 20 126	- - - -	28 5 20 14	28 5 20 14	
GRAND TOTAL OR AVERAGE: MONTANA----- SOUTH CAROLINA----- VIRGINIA----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	3 5 1 9	3 5 1 9	3 5 1 9	- 7 - 7	3 12 1 16	- - - -	- - - -	- 83 23 20 126	83 23 20 126	83 23 20 126	- - - -	28 5 20 14	28 5 20 14	
HOLLASTONITE-STAUROLITE: SURFACE MINES: OPEN PIT: COLORADO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 1	1 1 - 1	1 1 - 1	- - - -	1 1 - 1	- - - -	- - - -	- 125 - 125	125 - 125	125 - 125	- - - -	125 - 125	125 - 125	
TOTAL OR AVERAGE, SURFACE: COLORADO----- TOTAL OR AVERAGE----	- - -	- - -	- - -	1 1 -	1 1 -	1 1 -	- - -	1 1 -	- - -	- - -	- 125 -	125 -	125 -	- - -	125 -	125 -	

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
WOLASTITE-STAUHLIT-CONTINUED: TOTAL OR AVERAGE, MINING: COLORADO-----	-	-	-	1	1	1	-	1	-	-	-	125	125	125	-	125	125
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	125	125	125	-	125	125
PROCESSING PLANTS: COLORADO-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
TOTAL OR AVERAGE, ALL MINES AND PLANTS: COLORADO-----	-	-	-	2	2	2	-	2	-	-	-	131	131	131	-	66	66
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE----	-	-	-	4	4	4	1	5	-	-	-	175	175	175	-	44	44
GRAND TOTAL OR AVERAGE: COLORADO-----	-	-	-	2	2	2	-	2	-	-	-	131	131	131	-	66	66
SOUTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE----	-	-	-	4	4	4	1	5	-	-	-	175	175	175	-	44	44
OTHER NONMETAL, NEC: UNDERGROUND MINES: SURFACE AT UNDERGROUND: NEW YORK-----	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75
TOTAL OR AVERAGE----	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75
TOTAL OR AVERAGE, UG: NEW YORK-----	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75
TOTAL OR AVERAGE----	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
OTHER NONMTLS NEC-CONTINUED:																
SURFACE MINES:																
OPEN PIT:																
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	3	3	3	2	5	-	-	-	38	38	38	-	13
IDAHO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	2	2	2	-	2	-	-	-	2	2	2	-	1
TOTAL OR AVERAGE----	-	-	-	5	5	5	7	12	-	-	-	40	40	40	-	8
TOTAL OR AVERAGE, SURFACE:																
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	3	3	3	2	5	-	-	-	38	38	38	-	13
IDAHO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	2	2	2	-	2	-	-	-	2	2	2	-	1
TOTAL OR AVERAGE----	-	-	-	5	5	5	7	12	-	-	-	40	40	40	-	8
TOTAL OR AVERAGE, MINING:																
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	3	3	3	2	5	-	-	-	38	38	38	-	13
IDAHO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
NEVADA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	1	2	3	3	-	3	-	-	75	2	77	77	75	1
TOTAL OR AVERAGE----	-	-	1	5	6	6	7	13	-	-	75	40	115	115	75	8
PROCESSING PLANTS:																
CALIFORNIA-----	-	-	1	65	66	66	33	99	-	-	50	723	773	773	50	11
CONNECTICUT-----	-	-	-	6	6	6	-	6	-	-	-	162	162	162	-	27
IDAHO-----	-	-	-	4	4	4	2	6	-	-	-	8	8	8	-	2
ILLINOIS-----	-	-	-	7	7	7	3	10	-	-	-	89	89	89	-	13
MAINE-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4
NEVADA-----	-	-	-	29	29	29	9	38	-	-	-	974	974	974	-	34
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11
NEW YORK-----	-	-	-	10	10	10	8	18	-	-	-	162	162	162	-	16
OREGON-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4
PENNSYLVANIA-----	-	-	-	5	5	5	-	5	-	-	-	49	49	49	-	10
TEXAS-----	-	-	-	6	6	6	-	6	-	-	-	194	194	194	-	32
WASHINGTON-----	-	-	1	4	5	5	-	5	-	-	50	15	65	65	50	4
TOTAL OR AVERAGE----	-	-	2	148	150	150	56	206	-	-	100	2,456	2,556	2,556	50	17

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS							AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
OTHER NONMTLS NEC-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	1	68	69	69	35	104	-	-	50	761	811	811	50	11	12
CONNECTICUT-----	-	-	-	6	6	6	-	6	-	-	-	162	162	162	-	27	27
IDAHO-----	-	-	-	4	4	4	4	8	-	-	-	8	8	8	-	2	2
ILLINOIS-----	-	-	-	7	7	7	3	10	-	-	-	89	89	89	-	13	13
MAINE-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
NEVADA-----	-	-	-	29	29	29	10	39	-	-	-	974	974	974	-	34	34
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11	11
NEW YORK-----	-	-	1	12	13	13	8	21	-	-	75	164	239	239	75	14	18
OREGON-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4
PENNSYLVANIA-----	-	-	-	5	5	5	-	5	-	-	-	49	49	49	-	10	10
TEXAS-----	-	-	-	6	6	6	-	6	-	-	-	194	194	194	-	32	32
WASHINGTON-----	-	-	1	4	5	5	-	5	-	-	50	15	65	65	50	4	13
TOTAL OR AVERAGE----	-	-	3	153	156	156	63	219	-	-	175	2,496	2,671	2,671	58	16	17
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
ARKANSAS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	1	68	69	69	35	104	-	-	50	761	811	811	50	11	12
CONNECTICUT-----	-	-	-	6	6	6	-	6	-	-	-	162	162	162	-	27	27
IDAHO-----	-	-	-	4	4	4	4	8	-	-	-	8	8	8	-	2	2
ILLINOIS-----	-	-	-	7	7	7	3	10	-	-	-	89	89	89	-	13	13
MAINE-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
NEVADA-----	-	-	-	29	29	29	10	39	-	-	-	974	974	974	-	34	34
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11	11
NEW YORK-----	-	-	1	12	13	13	8	21	-	-	75	164	239	239	75	14	18
OREGON-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4
PENNSYLVANIA-----	-	-	-	5	5	5	-	5	-	-	-	49	49	49	-	10	10
TEXAS-----	-	-	-	6	6	6	-	6	-	-	-	194	194	194	-	32	32
WASHINGTON-----	-	-	1	4	5	5	-	5	-	-	50	15	65	65	50	4	13
TOTAL OR AVERAGE----	-	-	3	153	156	156	63	219	-	-	175	2,496	2,671	2,671	58	16	17

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC MINERALS: UNDERGROUND MINES: UNDERGROUND:																	
COLORADO-----	-	-	-	18	18	18	4	22	-	-	-	336	336	336	-	19	19
GEORGIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ILLINOIS-----	-	-	-	3	3	3	5	8	-	-	-	67	67	67	-	22	22
INDIANA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	47	47	47	-	47	47
KANSAS-----	-	-	-	2	2	2	2	4	-	-	-	38	38	38	-	19	19
LOUISIANA-----	-	-	-	11	11	11	4	15	-	-	-	411	411	411	-	37	37
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
MONTANA-----	2	-	-	7	7	9	16	25	12,000	-	-	109	109	12,109	-	16	1,345
NEW MEXICO-----	-	-	-	23	23	23	18	41	-	-	-	1,187	1,187	1,187	-	52	52
NEW YORK-----	-	-	1	19	20	20	15	35	-	-	50	413	463	463	50	22	23
OHIO-----	-	-	-	14	14	14	5	19	-	-	-	319	319	319	-	23	23
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TEXAS-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
VERMONT-----	-	-	-	3	3	3	-	3	-	-	-	156	156	156	-	52	52
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
WYOMING-----	-	-	1	44	45	45	66	111	-	-	50	1,906	1,956	1,956	50	43	43
TOTAL OR AVERAGE----	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110
SURFACE AT UNDERGROUND:																	
COLORADO-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	2	2	2	-	2	-	-	-	2	2	2	-	1	1
KANSAS-----	-	-	-	2	2	2	-	2	-	-	-	9	9	9	-	4	4
LOUISIANA-----	-	-	-	3	3	3	3	6	-	-	-	-	-	-	-	37	37
MONTANA-----	-	-	1	2	3	3	6	9	-	-	50	51	101	101	50	26	34
NEW MEXICO-----	-	-	1	9	10	10	8	18	-	-	-	510	560	560	50	57	56
NEW YORK-----	-	-	1	4	5	5	3	8	-	-	75	69	144	144	75	17	29
OHIO-----	-	-	-	10	10	10	2	12	-	-	-	136	136	136	-	14	14
WYOMING-----	-	-	-	2	2	2	5	7	-	-	-	54	54	54	-	27	27
TOTAL OR AVERAGE----	-	-	3	34	37	37	29	66	-	-	175	942	1,117	1,117	58	28	30

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, UG:																	
COLORADO-----	-	-	-	18	18	18	6	24	-	-	-	336	336	336	-	19	19
GEORGIA-----	-	-	-	2	2	2	1	3	-	-	-	2	2	2	-	1	1
ILLINOIS-----	-	-	-	3	3	3	5	8	-	-	-	67	67	67	-	22	22
INDIANA-----	-	-	-	2	2	2	2	4	-	-	-	161	161	161	-	80	80
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	47	47	47	-	47	47
KANSAS-----	-	-	-	4	4	4	2	6	-	-	-	47	47	47	-	12	12
LOUISIANA-----	-	-	-	14	14	14	7	21	-	-	-	522	522	522	-	37	37
MICHIGAN-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
MONTANA-----	2	-	1	9	10	12	22	34	12,000	-	50	160	210	12,210	50	18	1,018
NEW MEXICO-----	-	-	1	32	33	33	26	59	-	-	50	1,697	1,747	1,747	50	53	53
NEW YORK-----	-	-	2	23	25	25	18	43	-	-	125	482	607	607	62	21	24
OHIO-----	-	-	-	24	24	24	7	31	-	-	-	455	455	455	-	19	19
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TEXAS-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
VERMONT-----	-	-	-	3	3	3	-	3	-	-	-	156	156	156	-	52	52
VIRGINIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
WYOMING-----	-	-	1	46	47	47	71	118	-	-	50	1,960	2,010	2,010	50	43	43
TOTAL OR AVERAGE----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC-CONTINUED: SURFACE MINES: OPEN PIT:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	5	7	-	-	-	24	24	24	-	12	12
ARKANSAS-----	-	-	-	2	2	2	4	19	-	-	-	298	298	298	-	20	20
CALIFORNIA-----	-	-	-	15	15	15	1	2	-	-	-	125	125	125	-	125	125
COLORADO-----	-	-	-	1	1	1	-	-	-	-	-	3	3	3	-	3	3
CONNECTICUT-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FLORIDA-----	-	-	1	58	59	59	62	121	-	-	50	965	1,015	1,015	50	17	17
GEORGIA-----	-	-	1	21	22	22	38	60	-	-	50	428	478	478	50	20	22
IDAHO-----	-	-	1	11	12	12	13	25	-	-	50	183	233	233	50	17	19
INDIANA-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
KENTUCKY-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
MICHIGAN-----	-	-	1	2	3	3	-	3	-	-	300	17	317	317	300	8	106
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MONTANA-----	-	-	-	7	7	7	-	7	-	-	-	40	40	40	-	6	6
NEVADA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	4	4	4	5	9	-	-	-	33	33	33	-	8	8
NEW YORK-----	-	-	-	3	3	3	-	3	-	-	-	288	288	288	-	96	96
NORTH CAROLINA-----	-	-	-	12	12	12	18	30	-	-	-	120	120	120	-	10	10
OHIO-----	-	-	-	2	2	2	2	4	-	-	-	35	35	35	-	18	18
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
SOUTH CAROLINA-----	-	-	-	7	7	7	7	14	-	-	-	27	27	27	-	4	4
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	1	11	12	12	10	22	-	-	400	257	657	657	400	23	55
VERMONT-----	-	-	-	3	3	3	1	4	-	-	-	44	44	44	-	15	15
VIRGINIA-----	-	-	1	1	2	2	1	3	-	-	50	7	57	57	50	7	28
WASHINGTON-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22
DREDGE:																	
NEW MEXICO-----	-	-	-	3	3	3	4	7	-	-	-	13	13	13	-	4	4
NORTH CAROLINA-----	-	-	-	2	2	2	-	2	-	-	-	6	6	6	-	3	3
TOTAL OR AVERAGE----	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS							AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, SURFACE:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARKANSAS-----	-	-	-	2	2	2	5	7	-	-	-	24	24	24	-	12	12
CALIFORNIA-----	-	-	-	15	15	15	4	19	-	-	-	298	298	298	-	20	20
COLORADO-----	-	-	-	1	1	1	1	2	-	-	-	125	125	125	-	125	125
CONNECTICUT-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FLORIDA-----	-	-	1	58	59	59	62	121	-	-	50	965	1,015	1,015	50	17	17
GEORGIA-----	-	-	1	21	22	22	38	60	-	-	50	428	478	478	50	20	22
IDAHO-----	-	-	1	11	12	12	13	25	-	-	50	183	233	233	50	17	19
INDIANA-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
IOWA-----	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
KENTUCKY-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
MICHIGAN-----	-	-	1	2	3	3	-	3	-	-	300	17	317	317	300	8	106
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MONTANA-----	-	-	-	7	7	7	-	7	-	-	-	40	40	40	-	6	6
NEVADA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	7	7	7	9	16	-	-	-	46	46	46	-	7	7
NEW YORK-----	-	-	-	3	3	3	-	3	-	-	-	288	288	288	-	96	96
NORTH CAROLINA-----	-	-	-	14	14	14	18	32	-	-	-	126	126	126	-	9	9
OHIO-----	-	-	-	2	2	2	2	4	-	-	-	35	35	35	-	18	18
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
SOUTH CAROLINA-----	-	-	-	7	7	7	7	14	-	-	-	27	27	27	-	4	4
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	1	11	12	12	10	22	-	-	400	257	657	657	400	23	55
VERMONT-----	-	-	-	3	3	3	1	4	-	-	-	44	44	44	-	15	15
VIRGINIA-----	-	-	1	1	2	2	1	3	-	-	50	7	57	57	50	7	28
WASHINGTON-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WYOMING-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	4	4	4	1	5	-	-	-	25	25	25	-	6	6
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	5	7	-	-	-	24	24	24	-	12	12
ARKANSAS-----	-	-	-	2	2	2	-	-	-	-	-	298	298	298	-	20	20
CALIFORNIA-----	-	-	-	15	15	15	4	19	-	-	-	461	461	461	-	24	24
COLORADO-----	-	-	-	19	19	19	7	26	-	-	-	-	-	-	-	-	-
CONNECTICUT-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FLORIDA-----	-	-	1	58	59	59	62	121	-	-	50	965	1,015	1,015	50	17	17
GEORGIA-----	-	-	1	23	24	24	39	63	-	-	50	430	480	480	50	19	20
IDAHO-----	-	-	1	11	12	12	13	25	-	-	50	183	233	233	50	17	19
ILLINOIS-----	-	-	-	3	3	3	5	8	-	-	-	67	67	67	-	22	22
INDIANA-----	-	-	-	3	3	3	2	5	-	-	-	177	177	177	-	59	59
IOWA-----	-	-	-	2	2	2	-	2	-	-	-	64	64	64	-	32	32
KANSAS-----	-	-	-	4	4	4	2	6	-	-	-	47	47	47	-	12	12
KENTUCKY-----	-	-	-	3	3	3	1	4	-	-	-	15	15	15	-	5	5
LOUISIANA-----	-	-	-	14	14	14	7	21	-	-	-	522	522	522	-	37	37
MASSACHUSETTS-----	-	-	-	3	3	3	1	4	-	-	-	50	50	50	-	17	17
MICHIGAN-----	-	-	1	3	4	4	-	4	-	-	300	48	348	348	300	16	87
MISSISSIPPI-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	3	3	3	1	4	-	-	-	22	22	22	-	7	7
MONTANA-----	2	-	1	16	17	19	22	41	12,000	-	50	200	250	12,250	50	12	645
NEVADA-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	1	39	40	40	35	75	-	-	50	1,743	1,793	1,793	50	45	45
NEW YORK-----	-	-	2	26	28	28	18	46	-	-	125	770	895	895	62	30	32
NORTH CAROLINA-----	-	-	-	14	14	14	18	32	-	-	-	126	126	126	-	9	9
OHIO-----	-	-	-	26	26	26	9	35	-	-	-	490	490	490	-	19	19
OKLAHOMA-----	-	-	-	6	6	6	8	14	-	-	-	132	132	132	-	22	22
PENNSYLVANIA-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SOUTH CAROLINA-----	-	-	-	7	7	7	7	14	-	-	-	27	27	27	-	4	4
TENNESSEE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	1	11	12	12	14	26	-	-	400	257	657	657	400	23	55
UTAH-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
VERMONT-----	-	-	-	6	6	6	1	7	-	-	-	200	200	200	-	33	33
VIRGINIA-----	-	-	1	2	3	3	1	4	-	-	50	14	64	64	50	7	21
WASHINGTON-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
WYOMING-----	-	-	1	46	47	47	73	120	-	-	50	1,960	2,010	2,010	50	43	43
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:																	
UTAH-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC-CONTINUED: PROCESSING PLANTS:																	
ALABAMA-----	-	-	-	15	15	15	7	22	-	-	-	356	356	356	-	24	24
ARKANSAS-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CALIFORNIA-----	-	-	2	92	94	94	55	149	-	-	225	1,719	1,944	1,944	112	19	21
COLORADO-----	-	-	-	7	7	7	-	7	-	-	-	53	53	53	-	8	8
CONNECTICUT-----	-	-	1	10	11	11	-	11	-	-	50	331	381	381	50	33	35
FLORIDA-----	-	-	1	38	39	39	46	85	-	-	100	672	772	772	100	18	20
GEORGIA-----	-	-	2	171	173	173	191	364	-	-	225	2,550	2,775	2,775	112	15	16
IDAHO-----	-	-	-	13	13	13	4	17	-	-	-	129	129	129	-	10	10
ILLINOIS-----	-	-	-	47	47	47	22	69	-	-	-	1,441	1,441	1,441	-	31	31
INDIANA-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
IOWA-----	-	-	-	4	4	4	-	4	-	-	-	76	76	76	-	19	19
KANSAS-----	-	-	-	24	24	24	15	39	-	-	-	1,468	1,468	1,468	-	61	61
KENTUCKY-----	-	-	-	6	6	6	3	9	-	-	-	224	224	224	-	37	37
LOUISIANA-----	-	-	-	15	15	15	8	23	-	-	-	464	464	464	-	31	31
MAINE-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
MASSACHUSETTS-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
MICHIGAN-----	-	-	1	-	1	1	-	1	-	-	400	-	400	400	400	-	400
MISSISSIPPI-----	-	-	-	6	6	6	19	25	-	-	-	38	38	38	-	6	6
MISSOURI-----	-	-	-	6	6	6	5	11	-	-	-	89	89	89	-	15	15
MONTANA-----	-	-	2	9	11	11	11	22	-	-	150	158	308	308	75	18	28
NEBRASKA-----	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2
NEVADA-----	-	-	-	51	51	51	10	61	-	-	-	1,200	1,200	1,200	-	24	24
NEW JERSEY-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11	11
NEW MEXICO-----	-	-	-	25	25	25	24	49	-	-	-	461	461	461	-	18	18
NEW YORK-----	-	-	-	32	32	32	16	48	-	-	-	770	770	770	-	24	24
NORTH CAROLINA-----	-	-	1	24	25	25	38	63	-	-	75	335	410	410	75	14	16
NORTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
OHIO-----	-	-	-	7	7	7	2	9	-	-	-	157	157	157	-	22	22
OKLAHOMA-----	-	-	1	2	3	3	3	6	-	-	50	24	74	74	50	12	25
OREGON-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4
PENNSYLVANIA-----	-	-	-	6	6	6	-	6	-	-	-	57	57	57	-	10	10
SOUTH CAROLINA-----	-	-	-	16	16	16	18	34	-	-	-	170	170	170	-	11	11
SOUTH DAKOTA-----	-	-	1	2	3	3	3	6	-	-	440	6	446	446	440	3	149
TENNESSEE-----	-	-	1	29	30	30	20	50	-	-	60	328	388	388	60	11	13
TEXAS-----	-	-	2	40	42	42	22	64	-	-	100	1,135	1,235	1,235	50	28	29
UTAH-----	1	-	-	17	17	18	8	26	6,000	-	-	902	902	6,902	-	53	383
VERMONT-----	-	-	-	12	12	12	1	13	-	-	-	52	52	52	-	4	4
VIRGINIA-----	-	-	-	18	18	18	4	22	-	-	-	382	382	382	-	21	21
WASHINGTON-----	-	-	1	4	5	5	-	5	-	-	50	15	65	65	50	4	13
WYOMING-----	-	-	-	48	48	48	81	129	-	-	-	1,677	1,677	1,677	-	35	35
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS							AVERAGE SEVERITY				
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL						
		TOTAL	PARTIAL		TOTAL					PARTIAL	TOTAL		PARTIAL						
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	19	19	19	8	27	-	-	-	381	381	381	-	20	20		
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-		
ARIZONA-----	-	-	-	3	3	3	5	8	-	-	-	27	27	27	-	9	9		
ARKANSAS-----	-	-	2	107	109	109	59	168	-	-	225	2,017	2,242	2,242	112	19	21		
CALIFORNIA-----	-	-	-	26	26	26	7	33	-	-	-	514	514	514	-	20	20		
COLORADO-----	-	-	1	11	12	12	-	12	-	-	50	334	384	384	50	30	32		
CONNECTICUT-----	-	-	2	96	98	98	108	206	-	-	150	1,637	1,787	1,787	75	17	18		
FLORIDA-----	-	-	3	194	197	197	230	427	-	-	275	2,980	3,255	3,255	92	15	17		
GEORGIA-----	-	-	1	24	25	25	17	42	-	-	50	312	362	362	50	13	14		
IDAHO-----	-	-	-	50	50	50	27	77	-	-	-	1,508	1,508	1,508	-	30	30		
ILLINOIS-----	-	-	-	4	4	4	2	6	-	-	-	181	181	181	-	45	45		
INDIANA-----	-	-	-	6	6	6	-	6	-	-	-	140	140	140	-	23	23		
IOWA-----	-	-	-	28	28	28	17	45	-	-	-	1,515	1,515	1,515	-	54	54		
KANSAS-----	-	-	-	9	9	9	4	13	-	-	-	239	239	239	-	27	27		
KENTUCKY-----	-	-	-	29	29	29	15	44	-	-	-	986	986	986	-	34	34		
LOUISIANA-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4		
MAINE-----	-	-	-	4	4	4	1	5	-	-	-	52	52	52	-	13	13		
MASSACHUSETTS-----	-	-	2	3	5	5	-	5	-	-	700	48	748	748	350	16	150		
MICHIGAN-----	-	-	-	6	6	6	21	27	-	-	-	38	38	38	-	6	6		
MISSISSIPPI-----	-	-	-	9	9	9	6	15	-	-	-	111	111	111	-	12	12		
MISSOURI-----	2	-	3	25	28	30	33	63	12,000	-	200	358	558	12,558	67	14	419		
MONTANA-----	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2		
NEBRASKA-----	-	-	-	51	51	51	13	64	-	-	-	1,200	1,200	1,200	-	24	24		
NEVADA-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11	11		
NEW JERSEY-----	-	-	1	64	65	65	59	124	-	-	50	2,204	2,254	2,254	50	34	35		
NEW MEXICO-----	-	-	2	58	60	60	34	94	-	-	125	1,540	1,665	1,665	62	27	28		
NEW YORK-----	-	-	1	38	39	39	56	95	-	-	75	461	536	536	75	12	14		
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3		
NORTH DAKOTA-----	-	-	-	33	33	33	11	44	-	-	-	647	647	647	-	20	20		
OHIO-----	-	-	1	8	9	9	11	20	-	-	50	156	206	206	50	20	23		
OKLAHOMA-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4		
OREGON-----	-	-	-	7	7	7	1	8	-	-	-	58	58	58	-	8	8		
PENNSYLVANIA-----	-	-	-	23	23	23	25	48	-	-	-	197	197	197	-	9	9		
SOUTH CAROLINA-----	-	-	-	2	3	3	3	6	-	-	440	6	446	446	440	3	149		
SOUTH DAKOTA-----	-	-	1	29	30	30	22	52	-	-	60	328	388	388	60	11	13		
TENNESSEE-----	-	-	3	51	54	54	36	90	-	-	500	1,392	1,892	1,892	167	27	35		
TEXAS-----	-	-	-	20	20	21	16	37	6,000	-	-	906	906	6,906	-	45	329		
UTAH-----	1	-	-	18	18	18	2	20	-	-	-	252	252	252	-	14	14		
VERMONT-----	-	-	-	20	21	21	5	26	-	-	50	396	446	446	50	20	21		
VIRGINIA-----	-	-	1	5	6	6	-	6	-	-	50	44	94	94	50	9	16		
WASHINGTON-----	-	-	1	94	95	95	154	249	-	-	50	3,637	3,687	3,687	50	39	39		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39		

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
ALL NONMETALLIC-CONTINUED: OFFICE: GEORGIA----- IDAHO----- ILLINOIS----- IOWA----- KANSAS----- LOUISIANA----- NEW YORK----- OKLAHOMA----- TEXAS----- UTAH----- WYOMING----- TOTAL OR AVERAGE--	- - - - - - - - - - - - -	- - - - - - - - - - - - -	- - - - - - - - - - - - -	2 1 - - - - - - - 1 - 1 -	2 1 - - - - - - - 1 - 1 -	2 1 - - - 1 - 2 1 - 1 - 1 -	- - 1 1 1 1 - 2 1 2 1 - -	- - - - - - - - - - - - -	- - - - - - - - - - - - -	5 2 - - - - - - - - - - -	5 2 - - - - 50 - - - 3 - 1 -	5 2 - - - - 50 - - 3 - 1 61	- - - - - - 50 - - - - - 50	2 2 - - - - - - - 3 - 1 2	2 2 - - - - 50 - 3 - 1 10	

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ALL NONMETALLIC-CONTINUED: GRAND TOTAL OR AVERAGE:	-	-	-	19	19	19	8	27	-	-	-	381	381	381	-	20	20
ALABAMA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	3	3	3	5	8	-	-	-	27	27	27	-	9	9
ARKANSAS-----	-	-	2	107	109	109	59	168	-	-	225	2,017	2,242	2,242	112	19	21
CALIFORNIA-----	-	-	-	26	26	26	7	33	-	-	-	514	514	514	-	20	20
COLORADO-----	-	-	-	11	12	12	-	12	-	-	50	334	384	384	50	30	32
CONNECTICUT-----	-	-	2	96	98	98	108	206	-	-	150	1,637	1,787	1,787	75	17	18
FLORIDA-----	-	-	3	196	199	199	230	429	-	-	275	2,985	3,260	3,260	92	15	16
GEORGIA-----	-	-	1	25	26	26	17	43	-	-	50	314	364	364	50	13	14
IDAHO-----	-	-	-	50	50	50	28	78	-	-	-	1,508	1,508	1,508	-	30	30
ILLINOIS-----	-	-	-	4	4	4	2	6	-	-	-	181	181	181	-	45	45
INDIANA-----	-	-	-	6	6	6	1	7	-	-	-	140	140	140	-	23	23
IOWA-----	-	-	-	28	28	28	18	46	-	-	-	1,515	1,515	1,515	-	54	54
KANSAS-----	-	-	-	9	9	9	4	13	-	-	-	239	239	239	-	27	27
KENTUCKY-----	-	-	1	29	30	30	15	45	-	-	50	986	1,036	1,036	50	34	35
LOUISIANA-----	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
MAINE-----	-	-	-	4	4	4	1	5	-	-	-	52	52	52	-	13	13
MASSACHUSETTS-----	-	-	2	3	5	5	-	5	-	-	700	48	748	748	350	16	150
MICHIGAN-----	-	-	-	6	6	6	21	27	-	-	-	38	38	38	-	6	6
MISSISSIPPI-----	-	-	-	9	9	9	6	15	-	-	-	111	111	111	-	12	12
MISSOURI-----	2	-	3	25	28	30	33	63	12,000	-	200	358	558	12,558	67	14	419
MONTANA-----	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2
NEBRASKA-----	-	-	-	51	51	51	13	64	-	-	-	1,200	1,200	1,200	-	24	24
NEVADA-----	-	-	-	5	5	5	-	5	-	-	-	54	54	54	-	11	11
NEW JERSEY-----	-	-	1	64	65	65	59	124	-	-	50	2,204	2,254	2,254	50	34	35
NEW MEXICO-----	-	-	2	58	60	60	36	96	-	-	125	1,540	1,665	1,665	62	27	28
NEW YORK-----	-	-	1	38	39	39	56	95	-	-	75	461	536	536	75	12	14
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
NORTH DAKOTA-----	-	-	-	33	33	33	11	44	-	-	-	647	647	647	-	20	20
OHIO-----	-	-	1	8	9	9	12	21	-	-	50	156	206	206	50	20	23
OKLAHOMA-----	-	-	-	5	5	5	-	5	-	-	-	19	19	19	-	4	4
OREGON-----	-	-	-	7	7	7	1	8	-	-	-	58	58	58	-	8	8
PENNSYLVANIA-----	-	-	-	23	23	23	25	48	-	-	-	197	197	197	-	9	9
SOUTH CAROLINA-----	-	-	1	2	3	3	3	6	-	-	440	6	446	446	440	3	149
SOUTH DAKOTA-----	-	-	-	29	30	30	22	52	-	-	60	328	388	388	60	11	13
TENNESSEE-----	-	-	3	52	55	55	36	91	-	-	500	1,395	1,895	1,895	167	27	34
TEXAS-----	1	-	-	20	20	21	18	39	6,000	-	-	906	906	6,906	-	45	329
UTAH-----	-	-	-	18	18	18	2	20	-	-	-	252	252	252	-	14	14
VERMONT-----	-	-	1	20	21	21	5	26	-	-	50	396	446	446	50	20	21
VIRGINIA-----	-	-	1	5	6	6	-	6	-	-	50	44	94	94	50	9	16
WASHINGTON-----	-	-	1	95	96	96	155	251	-	-	50	3,638	3,688	3,688	50	38	38
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
UNDERGROUND MINES:																
UNDERGROUND:																
EAR-----	-	-	-	-	-	-	1	1	-	-	-	.03	.03	-	-	-
EYE-----	-	-	-	6	6	6	6	12	-	.16	.16	.16	.33	-	2	2
JAW-----	-	-	-	-	-	-	1	1	-	-	-	.03	.03	-	-	-
MOUTH/TEETH/TONGUE----	-	-	-	1	1	1	5	6	-	.03	.03	.14	.16	-	1	1
SCALP-----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
SKULL-----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	5	5
FACE, NEC-----	-	-	-	-	-	-	4	4	-	-	-	.11	.11	-	-	-
HEAD, NEC-----	-	-	-	4	4	4	2	6	-	.11	.11	.05	.16	-	1	1
NECK-----	-	-	-	4	4	4	6	10	-	.11	.11	.16	.27	-	8	8
ELBOW-----	-	-	-	2	2	2	2	4	-	.05	.05	.05	.11	-	1	1
FOREARM-----	-	-	-	2	2	2	5	7	-	.05	.05	.14	.19	-	3	3
WRIST-----	-	-	-	2	2	2	3	5	-	.05	.05	.08	.14	-	1	1
HAND-----	-	-	-	11	11	11	5	16	-	.30	.30	.14	.44	-	7	7
FINGER(S)-----	-	-	-	15	15	15	43	58	-	.41	.41	1.18	1.59	-	7	7
UPPER EXTREMITIES, NEC--	-	-	-	1	1	1	3	4	-	.03	.03	.08	.11	-	(*)	(*)
BACK-----	-	-	-	36	36	36	21	57	-	.99	.99	.58	1.57	-	33	33
CHEST-----	-	-	-	5	5	5	4	9	-	.14	.14	.11	.25	-	2	2
PELVIC REGION-----	-	-	2	3	5	5	1	6	-	.14	.14	.03	.16	-	3	3
SHOULDER(S)-----	-	-	-	6	6	6	6	12	-	.16	.16	.16	.33	-	7	7
TRUNK, NEC-----	-	-	-	3	3	3	1	4	-	.08	.08	.03	.11	-	5	5
THIGH-----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
KNEE-----	-	-	-	16	16	16	7	23	-	.44	.44	.19	.63	-	21	21
LOWER LEG-----	-	-	-	1	1	1	1	2	-	.03	.03	.03	.05	-	1	1
ANKLE-----	-	-	-	9	9	9	4	13	-	.25	.25	.11	.36	-	8	8
FOOT-----	-	-	-	7	7	7	5	12	-	.19	.19	.14	.33	-	9	9
TOE(S)-----	-	-	-	1	1	1	1	2	-	.03	.03	.03	.05	-	(*)	(*)
LOWER EXTREMITIES, NEC--	-	-	-	4	4	4	6	10	-	.11	.11	.16	.27	-	2	2
BODY SYSTEMS-----	2	-	-	2	2	4	-	4	.05	.05	.11	-	.11	330	1	331
MULTIPLE PARTS OF BODY--	-	-	-	9	9	9	6	15	-	.25	.25	.16	.41	-	15	15
TOTAL OR AVERAGE-----	2	-	2	153	155	157	149	306	.05	4.26	4.32	4.10	8.41	330	146	476

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
SURFACE AT UNDERGROUND:																
EAR-----	-	-	-	-	-	-	1	1	-	-	-	.15	.15	-	-	-
EYE-----	-	-	-	1	1	1	2	3	-	.15	.15	.31	.46	-	(*)	(*)
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	1	1	-	-	-	.15	.15	-	-	-
FACE, NEC-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	(*)	(*)
HEAD, NEC-----	-	-	-	1	1	1	2	3	-	.15	.15	.31	.46	-	2	2
NECK-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	1	1
ELBOW-----	-	-	-	-	-	-	2	2	-	-	-	.31	.31	-	-	-
FOREARM-----	-	-	-	1	1	1	2	3	-	.15	.15	.31	.46	-	(*)	(*)
WRIST-----	-	-	-	3	3	3	2	5	-	.46	.46	.31	.77	-	10	10
HAND-----	-	-	-	1	1	1	5	6	-	.15	.15	.77	.92	-	(*)	(*)
FINGER(S)-----	-	-	1	-	1	1	7	8	-	.15	.15	1.08	1.23	-	12	12
BACK-----	-	-	-	9	9	9	2	11	-	1.39	1.39	.31	1.69	-	53	53
PELVIC REGION-----	-	-	2	1	3	3	-	3	-	.46	.46	-	.46	-	17	17
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	.15	.15	-	-	-
KNEE-----	-	-	-	2	2	2	1	3	-	.31	.31	.15	.46	-	5	5
LOWER LEG-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	3	8
ANKLE-----	-	-	-	1	1	1	1	2	-	.15	.15	.15	.31	-	(*)	(*)
FOOT-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	8	8
TOE(S)-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	(*)	(*)
LOWER EXTREMITIES, NEC--	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	2	2
BODY SYSTEMS-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	(*)	(*)
MULTIPLE PARTS OF BODY--	-	-	-	7	7	7	-	7	-	1.08	1.08	-	1.08	-	54	54
TOTAL OR AVERAGE-----	-	-	3	34	37	37	29	66	-	5.69	5.69	4.46	10.16	-	172	172

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
EAR-----	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
EYE-----	-	-	-	7	7	7	8	15	-	.16	.16	.19	.35	-	2	2
JAW-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
MOUTH/TEETH/TONGUE----	-	-	-	1	1	1	6	7	-	.02	.02	.14	.16	-	1	1
SCALP-----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(*)	(*)
SKULL-----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	5	5
FACE, NEC-----	-	-	-	1	1	1	4	5	-	.02	.02	.09	.12	-	(*)	(*)
HEAD, NEC-----	-	-	-	5	5	5	4	9	-	.12	.12	.09	.21	-	1	1
NECK-----	-	-	-	5	5	5	6	11	-	.12	.12	.14	.26	-	7	7
ELBOW-----	-	-	-	2	2	2	4	6	-	.05	.05	.09	.14	-	1	1
FOREARM-----	-	-	-	3	3	3	7	10	-	.07	.07	.16	.23	-	3	3
WRIST-----	-	-	-	5	5	5	5	10	-	.12	.12	.12	.23	-	2	2
HAND-----	-	-	-	12	12	12	10	22	-	.28	.28	.23	.51	-	6	6
FINGER(S)-----	-	-	1	15	16	16	50	66	-	.37	.37	1.17	1.54	-	8	8
UPPER EXTREMITIES, NEC----	-	-	-	1	1	1	3	4	-	.02	.02	.07	.09	-	(*)	(*)
BACK-----	-	-	-	45	45	45	23	68	-	1.05	1.05	.54	1.59	-	36	36
CHEST-----	-	-	-	5	5	5	4	9	-	.12	.12	.09	.21	-	2	2
PELVIC REGION-----	-	-	4	4	8	8	1	9	-	.19	.19	.02	.21	-	5	5
SHOULDER(S)-----	-	-	-	6	6	6	7	13	-	.14	.14	.16	.30	-	6	6
TRUNK, NEC-----	-	-	-	3	3	3	1	4	-	.07	.07	.02	.09	-	4	4
THIGH-----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(*)	(*)
KNEE-----	-	-	-	18	18	18	8	26	-	.42	.42	.19	.61	-	19	19
LOWER LEG-----	-	-	-	2	2	2	1	3	-	.05	.05	.02	.07	-	2	2
ANKLE-----	-	-	-	10	10	10	5	15	-	.23	.23	.12	.35	-	7	7
FOOT-----	-	-	-	8	8	8	5	13	-	.19	.19	.12	.30	-	8	8
TOE(S)-----	-	-	-	2	2	2	1	3	-	.05	.05	.02	.07	-	(*)	(*)
LOWER EXTREMITIES, NEC----	-	-	-	5	5	5	6	11	-	.12	.12	.14	.26	-	2	2
BODY SYSTEMS-----	2	-	-	3	3	5	-	5	.05	.07	.12	-	.12	280	1	281
MULTIPLE PARTS OF BODY----	-	-	-	16	16	16	6	22	-	.37	.37	.14	.51	-	21	21
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	.05	4.48	4.53	4.15	8.68	280	150	430

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
SURFACE MINES:																
OPEN PIT:																
EAR-----	-	-	-	-	-	-	2	2	-	-	-	.03	.03	-	-	-
EYE-----	-	-	-	4	4	4	31	35	-	.06	.06	.48	.54	-	(*)	(*)
JAW-----	-	-	-	-	-	-	3	3	-	-	-	.05	.05	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	3	4	-	.02	.02	.05	.06	-	(*)	(*)
FACE, NEC-----	-	-	-	-	-	-	6	6	-	-	-	.09	.09	-	-	-
HEAD, NEC-----	-	-	-	1	1	1	5	6	-	.02	.02	.08	.09	-	(*)	(*)
NECK-----	-	-	-	4	4	4	2	6	-	.06	.06	.03	.09	-	1	1
UPPER ARM-----	-	-	-	2	2	2	1	3	-	.03	.03	.02	.05	-	2	2
ELBOW-----	-	-	-	1	1	1	5	6	-	.02	.02	.08	.09	-	(*)	(*)
FOREARM-----	-	-	-	2	2	2	5	7	-	.03	.03	.08	.11	-	3	3
WRIST-----	-	-	-	2	2	2	4	6	-	.03	.03	.06	.09	-	(*)	(*)
HAND-----	-	-	-	5	5	5	9	14	-	.08	.08	.14	.21	-	(*)	(*)
FINGER(S)-----	-	-	2	13	15	15	45	60	-	.23	.23	.69	.92	-	13	13
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	5	7	-	.03	.03	.08	.11	-	(*)	(*)
ABDOMEN-----	-	-	-	1	1	1	3	4	-	.02	.02	.05	.06	-	1	1
BACK-----	-	-	-	54	54	54	11	65	-	.83	.83	.17	1.00	-	14	14
CHEST-----	-	-	-	3	3	3	3	6	-	.05	.05	.05	.09	-	1	1
PELVIC REGION-----	-	-	4	4	8	8	-	8	-	.12	.12	-	.12	-	4	4
SHOULDER(S)-----	-	-	-	7	7	7	4	11	-	.11	.11	.06	.17	-	1	1
TRUNK, NEC-----	-	-	-	2	2	2	1	3	-	.03	.03	.02	.05	-	(*)	(*)
THIGH-----	-	-	-	2	2	2	3	5	-	.03	.03	.05	.08	-	(*)	(*)
KNEE-----	-	-	-	19	19	19	9	28	-	.29	.29	.14	.43	-	5	5
LOWER LEG-----	-	-	-	3	3	3	4	7	-	.05	.05	.06	.11	-	(*)	(*)
ANKLE-----	-	-	-	14	14	14	3	17	-	.21	.21	.05	.26	-	2	2
FOOT-----	-	-	-	8	8	8	5	13	-	.12	.12	.08	.20	-	1	1
TOE(S)-----	-	-	-	3	3	3	-	3	-	.05	.05	-	.05	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	3	6	-	.05	.05	.05	.09	-	2	2
BODY SYSTEMS-----	-	-	-	-	-	-	5	5	-	-	-	.08	.08	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	-	23	23	23	9	32	-	.35	.35	.14	.49	-	12	12
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	2.90	2.90	2.90	5.80	-	63	63
DREDGE:																
EYE-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
ELBOW-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	.76	.76	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
ABDOMEN-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	6	6
BACK-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
KNEE-----	-	-	-	-	-	-	1	1	-	-	-	.76	.76	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	.76	.76	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	-	-	-	-	1	1	-	-	-	.76	.76	-	-	-
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	3.80	3.80	3.04	6.83	-	14	14

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	-	2	2	-	-	-	.03	.03	-	-	-
EAR-----	-	-	-	-	-	-	31	36	-	.08	.08	.47	.54	-	(*)	(*)
EYE-----	-	-	-	5	5	5	3	3	-	-	-	.05	.05	-	-	-
JAW-----	-	-	-	-	-	-	6	6	-	-	-	.09	.09	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	3	4	-	.02	.02	.05	.06	-	(*)	(*)
FACE, NEC-----	-	-	-	-	-	-	5	6	-	-	-	.09	.09	-	-	-
HEAD, NEC-----	-	-	-	1	1	1	5	6	-	.02	.02	.08	.09	-	(*)	(*)
NECK-----	-	-	-	4	4	4	2	6	-	.06	.06	.03	.09	-	1	1
UPPER ARM-----	-	-	-	2	2	2	1	3	-	.03	.03	.02	.05	-	2	2
ELBOW-----	-	-	-	2	2	2	5	7	-	.03	.03	.08	.11	-	(*)	(*)
FOREARM-----	-	-	-	2	2	2	5	7	-	.03	.03	.08	.11	-	3	3
WRIST-----	-	-	-	2	2	2	4	6	-	.03	.03	.06	.09	-	(*)	(*)
HAND-----	-	-	-	5	5	5	9	14	-	.08	.08	.14	.21	-	(*)	(*)
FINGER(S)-----	-	-	2	13	15	15	46	61	-	.23	.23	.69	.92	-	13	13
UPPER EXTREMITIES, NEC-----	-	-	-	3	3	3	5	8	-	.05	.05	.08	.12	-	(*)	(*)
ABDOMEN-----	-	-	-	2	2	2	3	5	-	.03	.03	.05	.08	-	1	1
BACK-----	-	-	-	55	55	55	11	66	-	.83	.83	.17	.99	-	14	14
CHEST-----	-	-	-	3	3	3	3	6	-	.05	.05	.05	.09	-	1	1
PELVIC REGION-----	-	-	4	4	8	8	-	8	-	.12	.12	-	.12	-	4	4
SHOULDER(S)-----	-	-	-	7	7	7	4	11	-	.11	.11	.06	.17	-	1	1
TRUNK, NEC-----	-	-	-	2	2	2	1	3	-	.03	.03	.02	.05	-	(*)	(*)
THIGH-----	-	-	-	2	2	2	3	5	-	.03	.03	.05	.08	-	(*)	(*)
KNEE-----	-	-	-	19	19	19	10	29	-	.29	.29	.15	.44	-	5	5
LOWER LEG-----	-	-	-	3	3	3	4	7	-	.05	.05	.06	.11	-	(*)	(*)
ANKLE-----	-	-	-	14	14	14	3	17	-	.21	.21	.05	.26	-	2	2
FOOT-----	-	-	-	8	8	8	5	13	-	.12	.12	.08	.20	-	1	1
TOE(S)-----	-	-	-	3	3	3	-	3	-	.05	.05	-	.05	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	4	7	-	.05	.05	.06	.11	-	1	1
BODY SYSTEMS-----	-	-	-	-	-	-	5	5	-	-	-	.08	.08	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	-	23	23	23	10	33	-	.35	.35	.15	.50	-	11	11
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	2.92	2.92	2.90	5.82	-	62	62

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, MINING:																
EAR-----	-	-	-	-	-	-	4	4	-	-	-	.04	.04	-	-	-
EYE-----	-	-	-	12	12	12	39	51	-	.11	.11	.36	.47	-	1	1
JAW-----	-	-	-	-	-	-	4	4	-	-	-	.04	.04	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	2	2	2	9	11	-	.02	.02	.08	.10	-	1	1
SCALP-----	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
SKULL-----	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	2	2
FACE, NEC-----	-	-	-	1	1	1	10	11	-	.01	.01	.09	.10	-	(*)	(*)
HEAD, NEC-----	-	-	-	6	6	6	9	15	-	.05	.05	.08	.14	-	(*)	(*)
NECK-----	-	-	-	9	9	9	8	17	-	.08	.08	.07	.16	-	3	3
UPPER ARM-----	-	-	-	2	2	2	1	3	-	.02	.02	.01	.03	-	1	1
ELBOW-----	-	-	-	4	4	4	9	13	-	.04	.04	.08	.12	-	(*)	(*)
FOREARM-----	-	-	-	5	5	5	12	17	-	.05	.05	.11	.16	-	3	3
WRIST-----	-	-	-	7	7	7	9	16	-	.06	.06	.08	.15	-	1	1
HAND-----	-	-	-	17	17	17	19	36	-	.16	.16	.17	.33	-	3	3
FINGER(S)-----	-	-	3	28	31	31	96	127	-	.28	.28	.88	1.16	-	11	11
UPPER EXTREMITIES, NEC-----	-	-	-	4	4	4	8	12	-	.04	.04	.07	.11	-	(*)	(*)
ABDOMEN-----	-	-	-	2	2	2	3	5	-	.02	.02	.03	.05	-	1	1
BACK-----	-	-	-	100	100	100	34	134	-	.91	.91	.31	1.23	-	23	23
CHEST-----	-	-	-	8	8	8	7	15	-	.07	.07	.06	.14	-	1	1
PELVIC REGION-----	-	-	8	8	16	16	1	17	-	.15	.15	.01	.16	-	4	4
SHOULDER(S)-----	-	-	-	13	13	13	11	24	-	.12	.12	.10	.22	-	3	3
TRUNK, NEC-----	-	-	-	5	5	5	2	7	-	.05	.05	.02	.06	-	2	2
THIGH-----	-	-	-	3	3	3	3	6	-	.03	.03	.03	.05	-	(*)	(*)
KNEE-----	-	-	-	37	37	37	18	55	-	.34	.34	.16	.50	-	10	10
LOWER LEG-----	-	-	-	5	5	5	5	10	-	.05	.05	.05	.09	-	1	1
ANKLE-----	-	-	-	24	24	24	8	32	-	.22	.22	.07	.29	-	4	4
FOOT-----	-	-	-	16	16	16	10	26	-	.15	.15	.09	.24	-	4	4
TOE(S)-----	-	-	-	5	5	5	1	6	-	.05	.05	.01	.05	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	8	8	8	10	18	-	.07	.07	.09	.16	-	2	2
BODY SYSTEMS-----	2	-	-	3	3	5	5	10	.02	.03	.05	.05	.09	110	(*)	110
MULTIPLE PARTS OF BODY-----	-	-	-	39	39	39	16	55	-	.36	.36	.15	.50	-	15	15
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	.02	3.53	3.55	3.39	6.94	110	96	206
INDEPENDENT SHOPS:																
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	5.64	5.64	-	-	-
KNEE-----	-	-	-	-	-	-	1	1	-	-	-	5.64	5.64	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	11.29	11.29	-	-	-

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
PROCESSING PLANTS:																
EAR-----	-	-	-	-	-	-	7	7	-	-	-	.04	.04	-	-	-
EYE-----	-	-	-	39	39	39	97	136	-	.22	.22	.54	.76	-	1	1
JAW-----	-	-	-	3	3	3	2	5	-	.02	.02	.01	.03	-	(*)	(*)
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	13	14	-	.01	.01	.07	.08	-	(*)	(*)
NOSE-----	-	-	-	1	1	1	2	3	-	.01	.01	.01	.02	-	(*)	(*)
SCALP-----	-	-	-	1	1	1	2	3	-	.01	.01	.01	.02	-	(*)	(*)
FACE, NEC-----	-	-	-	5	5	5	11	16	-	.03	.03	.06	.09	-	(*)	(*)
HEAD, NEC-----	1	-	-	7	7	8	22	30	.01	.04	.04	.12	.17	34	1	35
NECK-----	-	-	-	16	16	16	11	27	-	.09	.09	.06	.15	-	1	1
UPPER ARM-----	-	-	-	5	5	5	-	5	-	.03	.03	-	.03	-	1	1
ELBOW-----	-	-	-	15	15	15	19	34	-	.08	.08	.11	.19	-	1	1
FOREARM-----	-	-	-	9	9	9	11	20	-	.05	.05	.06	.11	-	2	2
WRIST-----	-	-	-	21	21	21	17	38	-	.12	.12	.10	.21	-	2	2
HAND-----	-	-	-	29	29	29	38	67	-	.16	.16	.21	.38	-	2	2
FINGER(S)-----	-	-	8	65	73	73	147	220	-	.41	.41	.82	1.23	-	14	14
UPPER EXTREMITIES, NEC-----	-	-	-	19	19	19	21	40	-	.11	.11	.12	.22	-	2	2
ABDOMEN-----	-	-	-	4	4	4	3	7	-	.02	.02	.02	.04	-	(*)	(*)
BACK-----	-	-	-	244	244	244	81	325	-	1.37	1.37	.45	1.82	-	37	37
CHEST-----	-	-	-	19	19	19	11	30	-	.11	.11	.06	.17	-	2	2
PELVIC REGION-----	-	-	8	17	25	25	7	32	-	.14	.14	.04	.18	-	4	4
SHOULDER(S)-----	-	-	-	51	51	51	22	73	-	.29	.29	.12	.41	-	8	8
TRUNK, NEC-----	-	-	-	11	11	11	6	17	-	.06	.06	.03	.10	-	2	2
THIGH-----	-	-	-	1	1	1	3	4	-	.01	.01	.02	.02	-	(*)	(*)
KNEE-----	-	-	-	70	70	70	23	93	-	.39	.39	.13	.52	-	9	9
LOWER LEG-----	-	-	-	7	7	7	5	12	-	.04	.04	.03	.07	-	1	1
ANKLE-----	-	-	-	53	53	53	8	61	-	.30	.30	.04	.34	-	6	6
FOOT-----	-	-	-	31	31	31	18	49	-	.17	.17	.10	.27	-	3	3
TOE(S)-----	-	-	-	6	6	6	-	6	-	.03	.03	-	.03	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	16	16	16	13	29	-	.09	.09	.07	.16	-	3	3
BODY SYSTEMS-----	-	-	-	9	9	9	6	15	-	.05	.05	.03	.08	-	(*)	(*)
MULTIPLE PARTS OF BODY-----	-	-	-	39	39	39	12	51	-	.22	.22	.07	.29	-	7	7
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	.01	4.66	4.66	3.58	8.24	34	109	143

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES						
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPO- RARY												TOTAL NFDL			
		TOTAL	PARTIAL																
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	-	-	-	11	11	-	-	-	.04	.04	-	-	-			
EAR-----	-	-	-	-	-	-	11	187	-	.18	.18	.47	.65	-	1	1			
EYE-----	-	-	-	51	51	51	136	9	-	.01	.01	.02	.03	-	(*)	(*)			
JAW-----	-	-	-	3	3	3	6	25	-	.01	.01	.08	.09	-	(*)	(*)			
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)			
NOSE-----	-	-	-	2	2	2	2	4	-	.01	.01	.01	.01	-	(*)	(*)			
SCALP-----	-	-	-	1	1	1	1	1	-	(*)	(*)	-	-	-	1	1			
SKULL-----	-	-	-	6	6	6	21	27	-	.02	.02	.07	.09	-	(*)	(*)			
FACE, NEC-----	1	-	-	13	13	14	31	45	(*)	.05	.05	.11	.16	21	1	22			
HEAD, NEC-----	-	-	-	25	25	25	19	44	-	.09	.09	.07	.15	-	2	2			
NECK-----	-	-	-	7	7	7	1	8	-	.02	.02	(*)	.03	-	1	1			
UPPER ARM-----	-	-	-	19	19	19	28	47	-	.07	.07	.10	.16	-	1	1			
ELBOW-----	-	-	-	14	14	14	23	37	-	.05	.05	.08	.13	-	2	2			
FOREARM-----	-	-	-	28	28	28	26	54	-	.10	.10	.09	.19	-	1	1			
WRIST-----	-	-	-	46	46	46	57	103	-	.16	.16	.20	.36	-	2	2			
HAND-----	-	-	-	93	104	104	244	348	-	.36	.36	.85	1.21	-	13	13			
FINGER(S)-----	-	-	11	23	23	23	29	52	-	.08	.08	.10	.18	-	2	2			
UPPER EXTREMITIES, NEC-----	-	-	-	6	6	6	6	12	-	.02	.02	.02	.04	-	(*)	(*)			
ABDOMEN-----	-	-	-	344	344	344	115	459	-	1.20	1.20	.40	1.60	-	31	31			
BACK-----	-	-	-	27	27	27	18	45	-	.09	.09	.06	.16	-	2	2			
CHEST-----	-	-	-	25	41	41	8	49	-	.14	.14	.03	.17	-	4	4			
PELVIC REGION-----	-	-	16	64	64	64	33	97	-	.22	.22	.11	.34	-	6	6			
SHOULDER(S)-----	-	-	-	16	16	16	8	24	-	.06	.06	.03	.08	-	2	2			
TRUNK, NEC-----	-	-	-	4	4	4	6	10	-	.01	.01	.02	.03	-	(*)	(*)			
THIGH-----	-	-	-	107	107	107	42	149	-	.37	.37	.15	.52	-	10	10			
KNEE-----	-	-	-	12	12	12	10	22	-	.04	.04	.03	.08	-	1	1			
LOWER LEG-----	-	-	-	77	77	77	16	93	-	.27	.27	.06	.32	-	5	5			
ANKLE-----	-	-	-	47	47	47	28	75	-	.16	.16	.10	.26	-	4	4			
FOOT-----	-	-	-	11	11	11	1	12	-	.04	.04	(*)	.04	-	1	1			
TOE(S)-----	-	-	-	24	24	24	23	47	-	.08	.08	.08	.16	-	3	3			
LOWER EXTREMITIES, NEC-----	-	-	-	12	12	14	11	25	.01	.04	.05	.04	.09	42	(*)	42			
BODY SYSTEMS-----	2	-	-	78	78	78	28	106	-	.27	.27	.10	.37	-	10	10			
MULTIPLE PARTS OF BODY-----	-	-	-	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167			
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EYE-----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(*)	(*)	-	-	-
ELBOW-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	3	3	-	-	-	.07	.07	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-	-	-	-
BACK-----	-	-	-	1	1	1	1	2	-	.02	.02	.02	.05	-	(*)	(*)	-	-	-
PELVIC REGION-----	-	-	1	-	1	1	-	1	-	.02	.02	-	.02	-	1	1	-	-	-
KNEE-----	-	-	-	1	1	1	1	1	-	.02	.02	-	.02	-	(*)	(*)	-	-	-
ANKLE-----	-	-	-	1	1	1	1	2	-	.02	.02	.02	.05	-	(*)	(*)	-	-	-
FOOT-----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(*)	(*)	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	.14	.14	.21	.35	-	1	1	-	-	-

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	11	11	-	-	-	.03	.03	-	-	-
EAR-----	-	-	-	-	-	-	11	11	-	-	-	.03	.03	-	-	-
EYE-----	-	-	-	52	52	52	136	188	-	.16	.16	.41	.57	-	1	1
JAW-----	-	-	-	3	3	3	6	9	-	.01	.01	.02	.03	-	(*)	(*)
MOUTH/TEETH/TONGUE-----	-	-	-	3	3	3	22	25	-	.01	.01	.07	.08	-	(*)	(*)
NOSE-----	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)
SCALP-----	-	-	-	2	2	2	2	4	-	.01	.01	.01	.01	-	(*)	(*)
SKULL-----	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	1	1
FACE, NEC-----	-	-	-	6	6	6	21	27	-	.02	.02	.06	.08	-	(*)	(*)
HEAD, NEC-----	1	-	-	13	13	14	31	45	(*)	.04	.04	.09	.14	18	1	19
NECK-----	-	-	-	25	25	25	19	44	-	.08	.08	.06	.13	-	1	1
UPPER ARM-----	-	-	-	7	7	7	1	8	-	.02	.02	(*)	.02	-	1	1
ELBOW-----	-	-	-	19	19	19	29	48	-	.06	.06	.09	.14	-	1	1
FOREARM-----	-	-	-	14	14	14	23	37	-	.04	.04	.07	.11	-	2	2
WRIST-----	-	-	-	28	28	28	26	54	-	.08	.08	.08	.16	-	1	1
HAND-----	-	-	-	46	46	46	57	103	-	.14	.14	.17	.31	-	2	2
FINGER(S)-----	-	-	11	93	104	104	247	351	-	.31	.31	.75	1.06	-	11	11
UPPER EXTREMITIES, NEC-----	-	-	-	23	23	23	30	53	-	.07	.07	.09	.16	-	1	1
ABDOMEN-----	-	-	-	6	6	6	6	12	-	.02	.02	.02	.04	-	(*)	(*)
BACK-----	-	-	-	345	345	345	116	461	-	1.04	1.04	.35	1.39	-	27	27
CHEST-----	-	-	-	27	27	27	18	45	-	.08	.08	.05	.14	-	1	1
PELVIC REGION-----	-	-	17	25	42	42	8	50	-	.13	.13	.02	.15	-	4	4
SHOULDER(S)-----	-	-	-	64	64	64	33	97	-	.19	.19	.10	.29	-	5	5
TRUNK, NEC-----	-	-	-	16	16	16	8	24	-	.05	.05	.02	.07	-	2	2
THIGH-----	-	-	-	4	4	4	6	10	-	.01	.01	.02	.03	-	(*)	(*)
KNEE-----	-	-	-	108	108	108	42	150	-	.33	.33	.13	.45	-	8	8
LOWER LEG-----	-	-	-	12	12	12	10	22	-	.04	.04	.03	.07	-	1	1
ANKLE-----	-	-	-	78	78	78	17	95	-	.24	.24	.05	.29	-	4	4
FOOT-----	-	-	-	48	48	48	28	76	-	.14	.14	.08	.23	-	3	3
TOE(S)-----	-	-	-	11	11	11	1	12	-	.03	.03	(*)	.04	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	24	24	24	23	47	-	.07	.07	.07	.14	-	2	2
BODY SYSTEMS-----	2	-	-	12	12	14	11	25	.01	.04	.04	.03	.08	36	(*)	37
MULTIPLE PARTS OF BODY-----	-	-	-	78	78	78	30	108	-	.24	.24	.09	.33	-	9	9
TOTAL OR AVERAGE-----	3	-	28	1, 194	1, 222	1, 225	1, 020	2, 245	.01	3. 69	3. 70	3. 08	6. 78	54	91	145

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES: UNDERGROUND:																	
EAR-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	6	6	6	6	12	-	-	-	86	86	86	-	14	14
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	5	6	-	-	-	47	47	47	-	47	47
SCALP-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	
HEAD, NEC-----	-	-	-	4	4	4	2	6	-	-	-	19	19	19	-	5	5
NECK-----	-	-	-	4	4	4	6	10	-	-	-	299	299	299	-	75	75
ELBOW-----	-	-	-	2	2	2	2	4	-	-	-	30	30	30	-	15	15
FOREARM-----	-	-	-	2	2	2	5	7	-	-	-	118	118	118	-	59	59
WRIST-----	-	-	-	2	2	2	3	5	-	-	-	27	27	27	-	14	14
HAND-----	-	-	-	11	11	11	5	16	-	-	-	252	252	252	-	23	23
FINGER(S)-----	-	-	-	15	15	15	43	58	-	-	-	270	270	270	-	18	18
UPPER EXTREMITIES, NEC--	-	-	-	1	1	1	3	4	-	-	-	12	12	12	-	12	12
BACK-----	-	-	-	36	36	36	21	57	-	-	-	1,217	1,217	1,217	-	34	34
CHEST-----	-	-	-	5	5	5	4	9	-	-	-	90	90	90	-	18	18
PELVIC REGION-----	-	-	2	3	5	5	1	6	-	-	100	7	107	107	50	2	21
SHOULDER(S)-----	-	-	-	6	6	6	6	12	-	-	-	268	268	268	-	45	45
TRUNK, NEC-----	-	-	-	3	3	3	1	4	-	-	-	165	165	165	-	55	55
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
KNEE-----	-	-	-	16	16	16	7	23	-	-	-	769	769	769	-	48	48
LOWER LEG-----	-	-	-	1	1	1	1	2	-	-	-	36	36	36	-	36	36
ANKLE-----	-	-	-	9	9	9	4	13	-	-	-	292	292	292	-	32	32
FOOT-----	-	-	-	7	7	7	5	12	-	-	-	312	312	312	-	45	45
TOE(S)-----	-	-	-	1	1	1	1	2	-	-	-	17	17	17	-	17	17
LOWER EXTREMITIES, NEC--	-	-	-	4	4	4	6	10	-	-	-	58	58	58	-	14	14
BODY SYSTEMS-----	2	-	-	2	2	4	-	4	12,000	-	-	39	39	12,039	-	20	3,010
MULTIPLE PARTS OF BODY--	-	-	-	9	9	9	6	15	-	-	-	559	559	559	-	62	62
TOTAL OR AVERAGE-----	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY
		TOTAL	PARTIAL							TOTAL	PARTIAL					
SURFACE AT UNDERGROUND:																
EAR-----	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	1	1	1	2	-	-	-	2	2	2	-	2	
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
FACE, NEC-----	-	-	-	1	1	1	1	-	-	-	2	2	2	-	2	
HEAD, NEC-----	-	-	-	1	1	1	2	-	-	-	10	10	10	-	10	
NECK-----	-	-	-	1	1	1	-	-	-	-	5	5	5	-	5	
ELBOW-----	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
FOREARM-----	-	-	-	1	1	1	2	-	-	-	1	1	1	-	1	
WRIST-----	-	-	-	3	3	3	5	-	-	-	67	67	67	-	22	
HAND-----	-	-	-	1	1	1	5	-	-	-	2	2	2	-	2	
FINGER(S)-----	-	-	1	-	1	1	7	-	-	75	-	75	75	75	-	
BACK-----	-	-	-	9	9	9	2	-	-	-	342	342	342	-	38	
PELVIC REGION-----	-	-	2	1	3	3	-	-	-	100	10	110	110	50	10	
SHOULDER(S)-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
KNEE-----	-	-	-	2	2	2	1	-	-	-	34	34	34	-	17	
LOWER LEG-----	-	-	-	1	1	1	-	-	-	-	52	52	52	-	52	
ANKLE-----	-	-	-	1	1	1	1	-	-	-	2	2	2	-	2	
FOOT-----	-	-	-	1	1	1	-	-	-	-	50	50	50	-	50	
TOE(S)-----	-	-	-	1	1	1	-	-	-	-	1	1	1	-	1	
LOWER EXTREMITIES, NEC--	-	-	-	1	1	1	-	-	-	-	12	12	12	-	12	
BODY SYSTEMS-----	-	-	-	1	1	1	-	-	-	-	1	1	1	-	1	
MULTIPLE PARTS OF BODY--	-	-	-	7	7	7	-	-	-	-	349	349	349	-	50	
TOTAL OR AVERAGE-----	-	-	3	34	37	37	29	66	-	-	175	942	1,117	58	28	

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE, UG:	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
EAR-----	-	-	-	-	-	-	8	15	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	7	7	7	1	1	-	-	-	88	88	-	13	13	
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	6	7	-	-	-	47	47	-	47	47	
SCALP-----	-	-	-	1	1	1	-	1	-	-	-	3	3	-	3	3	
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	-	194	194	
FACE, NEC-----	-	-	-	1	1	1	4	5	-	-	-	2	2	-	2	2	
HEAD, NEC-----	-	-	-	5	5	5	4	9	-	-	-	29	29	-	6	6	
NECK-----	-	-	-	5	5	5	6	11	-	-	-	304	304	-	61	61	
ELBOW-----	-	-	-	2	2	2	4	6	-	-	-	30	30	-	15	15	
FOREARM-----	-	-	-	3	3	3	7	10	-	-	-	119	119	-	40	40	
WRIST-----	-	-	-	5	5	5	5	10	-	-	-	94	94	-	19	19	
HAND-----	-	-	-	12	12	12	10	22	-	-	-	254	254	-	21	21	
FINGER(S)-----	-	-	1	15	16	16	50	66	-	-	75	270	345	75	18	22	
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	3	4	-	-	-	12	12	-	12	12	
BACK-----	-	-	-	45	45	45	23	68	-	-	-	1,559	1,559	-	35	35	
CHEST-----	-	-	-	5	5	5	4	9	-	-	-	90	90	-	18	18	
PELVIC REGION-----	-	-	4	4	8	8	1	9	-	-	200	17	217	50	4	27	
SHOULDER(S)-----	-	-	-	6	6	6	7	13	-	-	-	268	268	-	45	45	
TRUNK, NEC-----	-	-	-	3	3	3	1	4	-	-	-	165	165	-	55	55	
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	7	7	-	7	7	
KNEE-----	-	-	-	18	18	18	8	26	-	-	-	803	803	-	45	45	
LOWER LEG-----	-	-	-	2	2	2	1	3	-	-	-	88	88	-	44	44	
ANKLE-----	-	-	-	10	10	10	5	15	-	-	-	294	294	-	29	29	
FOOT-----	-	-	-	8	8	8	5	13	-	-	-	362	362	-	45	45	
TOE(S)-----	-	-	-	2	2	2	1	3	-	-	-	18	18	-	9	9	
LOWER EXTREMITIES, NEC-----	-	-	-	5	5	5	6	11	-	-	-	70	70	-	14	14	
BODY SYSTEMS-----	2	-	-	3	3	5	-	5	12,000	-	-	40	40	12,040	-	13	2,408
MULTIPLE PARTS OF BODY-----	-	-	-	16	16	16	6	22	-	-	-	908	908	-	57	57	
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
SURFACE MINES: OPEN PIT:																	
EAR-----	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	4	4	4	31	35	-	-	13	13	13	-	3	3	
JAW-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	3	4	-	-	8	8	8	-	8	8	
FACE, NEC-----	-	-	-	-	-	-	6	6	-	-	-	-	-	-	-	-	
HEAD, NEC-----	-	-	-	1	1	1	5	6	-	-	-	1	1	-	1	1	
NECK-----	-	-	-	4	4	4	2	6	-	-	41	41	41	-	10	10	
UPPER ARM-----	-	-	-	2	2	2	1	3	-	-	113	113	113	-	56	56	
ELBOW-----	-	-	-	1	1	1	5	6	-	-	4	4	4	-	4	4	
FOREARM-----	-	-	-	2	2	2	5	7	-	-	190	190	190	-	95	95	
WRIST-----	-	-	-	2	2	2	4	6	-	-	18	18	18	-	9	9	
HAND-----	-	-	-	5	5	5	9	14	-	-	22	22	22	-	4	4	
FINGER(S)-----	-	-	2	13	15	15	45	60	-	700	163	863	863	350	13	58	
UPPER EXTREMITIES, NEC--	-	-	-	2	2	2	5	7	-	-	12	12	12	-	6	6	
ABDOMEN-----	-	-	-	1	1	1	3	4	-	-	52	52	52	-	52	52	
BACK-----	-	-	-	54	54	54	11	65	-	-	930	930	930	-	17	17	
CHEST-----	-	-	-	3	3	3	3	6	-	-	40	40	40	-	13	13	
PELVIC REGION-----	-	-	4	4	8	8	-	8	-	200	49	249	249	50	12	31	
SHOULDER(S)-----	-	-	-	7	7	7	4	11	-	-	47	47	47	-	7	7	
TRUNK, NEC-----	-	-	-	2	2	2	1	3	-	-	31	31	31	-	16	16	
THIGH-----	-	-	-	2	2	2	3	5	-	-	19	19	19	-	10	10	
KNEE-----	-	-	-	19	19	19	9	28	-	-	306	306	306	-	16	16	
LOWER LEG-----	-	-	-	3	3	3	4	7	-	-	14	14	14	-	5	5	
ANKLE-----	-	-	-	14	14	14	3	17	-	-	146	146	146	-	10	10	
FOOT-----	-	-	-	8	8	8	5	13	-	-	53	53	53	-	7	7	
TOE(S)-----	-	-	-	3	3	3	-	3	-	-	76	76	76	-	25	25	
LOWER EXTREMITIES, NEC--	-	-	-	3	3	3	3	6	-	-	99	99	99	-	33	33	
BODY SYSTEMS-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	
MULTIPLE PARTS OF BODY--	-	-	-	23	23	23	9	32	-	-	753	753	753	-	33	33	
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22
DREDGE:																	
EYE-----	-	-	-	1	1	1	-	1	-	-	2	2	2	-	2	2	
ELBOW-----	-	-	-	1	1	1	-	1	-	-	3	3	3	-	3	3	
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
UPPER EXTREMITIES, NEC--	-	-	-	1	1	1	-	1	-	-	3	3	3	-	3	3	
ABDOMEN-----	-	-	-	1	1	1	-	1	-	-	8	8	8	-	8	8	
BACK-----	-	-	-	1	1	1	-	1	-	-	3	3	3	-	3	3	
KNEE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
LOWER EXTREMITIES, NEC--	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
MULTIPLE PARTS OF BODY--	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	-	19	19	19	-	4	4	

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, SURFACE:	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-		
EAR-----	-	-	-	-	-	31	36	-	-	-	15	15	15	-	3		
EYE-----	-	-	-	5	5	3	3	-	-	-	-	-	-	-	-		
JAW-----	-	-	-	-	-	3	4	-	-	-	-	-	-	-	-		
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	3	4	-	-	-	8	8	8	-	8		
FACE, NEC-----	-	-	-	-	-	6	6	-	-	-	-	-	-	-	-		
HEAD, NEC-----	-	-	-	1	1	5	6	-	-	-	1	1	1	-	1		
NECK-----	-	-	-	4	4	2	6	-	-	-	41	41	41	10	10		
UPPER ARM-----	-	-	-	2	2	1	3	-	-	-	113	113	113	56	56		
ELBOW-----	-	-	-	2	2	2	7	-	-	-	7	7	7	4	4		
FOREARM-----	-	-	-	2	2	2	5	-	-	-	190	190	190	95	95		
WRIST-----	-	-	-	2	2	4	6	-	-	-	18	18	18	9	9		
HAND-----	-	-	-	5	5	9	14	-	-	-	22	22	22	4	4		
FINGER(S)-----	-	-	2	13	15	46	61	-	700	-	163	863	863	350	58		
UPPER EXTREMITIES, NEC-----	-	-	-	3	3	5	8	-	-	-	15	15	15	5	5		
ABDOMEN-----	-	-	-	2	2	3	5	-	-	-	60	60	60	30	30		
BACK-----	-	-	-	55	55	11	66	-	-	-	933	933	933	17	17		
CHEST-----	-	-	-	3	3	3	6	-	-	-	40	40	40	13	13		
PELVIC REGION-----	-	-	4	4	8	8	8	-	200	-	49	249	249	50	31		
SHOULDER(S)-----	-	-	-	7	7	4	11	-	-	-	47	47	47	7	7		
TRUNK, NEC-----	-	-	-	2	2	1	3	-	-	-	31	31	31	16	16		
THIGH-----	-	-	-	2	2	3	5	-	-	-	19	19	19	10	10		
KNEE-----	-	-	-	19	19	10	29	-	-	-	306	306	306	16	16		
LOWER LEG-----	-	-	-	3	3	3	7	-	-	-	14	14	14	5	5		
ANKLE-----	-	-	-	14	14	3	17	-	-	-	146	146	146	10	10		
FOOT-----	-	-	-	8	8	5	13	-	-	-	53	53	53	7	7		
TOE(S)-----	-	-	-	3	3	3	7	-	-	-	76	76	76	25	25		
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	7	-	-	-	99	99	99	33	33		
BODY SYSTEMS-----	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-		
MULTIPLE PARTS OF BODY-----	-	-	-	23	23	10	33	-	-	-	753	753	753	33	33		
TOTAL OR AVERAGE-----	-	-	6	188	194	193	387	-	-	900	3,219	4,119	4,119	150	21		

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE, MINING:	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	
EAR-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	12	12	12	39	51	-	-	-	103	103	103	-	9	9
JAW-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	
MOUTH/TEETH/TONGUE-----	-	-	-	2	2	2	9	11	-	-	-	55	55	55	-	28	28
SCALP-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	1	1	1	10	11	-	-	-	2	2	2	-	2	2
HEAD, NEC-----	-	-	-	6	6	6	9	15	-	-	-	30	30	30	-	5	5
NECK-----	-	-	-	9	9	9	8	17	-	-	-	345	345	345	-	38	38
UPPER ARM-----	-	-	-	2	2	2	1	3	-	-	-	113	113	113	-	56	56
ELBOW-----	-	-	-	4	4	4	9	13	-	-	-	37	37	37	-	9	9
FOREARM-----	-	-	-	5	5	5	12	17	-	-	-	309	309	309	-	62	62
WRIST-----	-	-	-	7	7	7	9	16	-	-	-	112	112	112	-	16	16
HAND-----	-	-	-	17	17	17	19	36	-	-	-	276	276	276	-	16	16
FINGER(S)-----	-	-	3	28	31	31	96	127	-	-	775	433	1,208	1,208	258	15	39
UPPER EXTREMITIES, NEC-----	-	-	-	4	4	4	8	12	-	-	-	27	27	27	-	7	7
ABDOMEN-----	-	-	-	2	2	2	3	5	-	-	-	60	60	60	-	30	30
BACK-----	-	-	-	100	100	100	34	134	-	-	-	2,492	2,492	2,492	-	25	25
CHEST-----	-	-	-	8	8	8	7	15	-	-	-	130	130	130	-	16	16
PELVIC REGION-----	-	-	8	8	16	16	1	17	-	-	400	66	466	466	50	8	29
SHOULDER(S)-----	-	-	-	13	13	13	11	24	-	-	-	315	315	315	-	24	24
TRUNK, NEC-----	-	-	-	5	5	5	2	7	-	-	-	196	196	196	-	39	39
THIGH-----	-	-	-	3	3	3	3	6	-	-	-	26	26	26	-	9	9
KNEE-----	-	-	-	37	37	37	18	55	-	-	-	1,109	1,109	1,109	-	30	30
LOWER LEG-----	-	-	-	5	5	5	5	10	-	-	-	102	102	102	-	20	20
ANKLE-----	-	-	-	24	24	24	8	32	-	-	-	440	440	440	-	18	18
FOOT-----	-	-	-	16	16	16	10	26	-	-	-	415	415	415	-	26	26
TOE(S)-----	-	-	-	5	5	5	1	6	-	-	-	94	94	94	-	19	19
LOWER EXTREMITIES, NEC-----	-	-	-	8	8	8	10	18	-	-	-	169	169	169	-	21	21
BODY SYSTEMS-----	2	-	-	3	3	5	5	10	12,000	-	-	40	40	12,040	-	13	2,408
MULTIPLE PARTS OF BODY-----	-	-	-	39	39	39	16	55	-	-	-	1,661	1,661	1,661	-	43	43
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
KNEE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PROCESSING PLANTS:																	
EAR-----	-	-	-	-	-	-	7	7	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	39	39	39	97	136	-	-	-	98	98	98	-	3	
JAW-----	-	-	-	3	3	3	2	5	-	-	-	4	4	4	-	1	
MOUTH/TEETH/TONGUE-----	-	-	-	1	1	1	13	14	-	-	-	1	1	1	-	1	
NOSE-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	
SCALP-----	-	-	-	1	1	1	2	3	-	-	-	9	9	9	-	9	
FACE, NEC-----	-	-	-	5	5	5	11	16	-	-	-	21	21	21	-	4	
HEAD, NEC-----	1	-	-	7	7	8	22	30	6,000	-	-	207	207	6,207	-	30	
NECK-----	-	-	-	16	16	16	11	27	-	-	-	102	102	102	-	6	
UPPER ARM-----	-	-	-	5	5	5	-	5	-	-	-	105	105	105	-	21	
ELBOW-----	-	-	-	15	15	15	19	34	-	-	-	183	183	183	-	12	
FOREARM-----	-	-	-	9	9	9	11	20	-	-	-	369	369	369	-	41	
WRIST-----	-	-	-	21	21	21	17	38	-	-	-	305	305	305	-	15	
HAND-----	-	-	-	29	29	29	38	67	-	-	-	347	347	347	-	12	
FINGER(S)-----	-	-	8	65	73	73	147	220	-	-	1,525	896	2,421	2,421	191	14	
UPPER EXTREMITIES, NEC-----	-	-	-	19	19	19	21	40	-	-	-	418	418	418	-	22	
ABDOMEN-----	-	-	-	4	4	4	3	7	-	-	-	49	49	49	-	12	
BACK-----	-	-	-	244	244	244	81	325	-	-	-	6,543	6,543	6,543	-	27	
CHEST-----	-	-	-	19	19	19	11	30	-	-	-	340	340	340	-	18	
PELVIC REGION-----	-	-	8	17	25	25	7	32	-	-	400	325	725	725	50	19	
SHOULDER(S)-----	-	-	-	51	51	51	22	73	-	-	-	1,397	1,397	1,397	-	27	
TRUNK, NEC-----	-	-	-	11	11	11	6	17	-	-	-	344	344	344	-	31	
THIGH-----	-	-	-	1	1	1	3	4	-	-	-	10	10	10	-	10	
KNEE-----	-	-	-	70	70	70	23	93	-	-	-	1,668	1,668	1,668	-	24	
LOWER LEG-----	-	-	-	7	7	7	5	12	-	-	-	179	179	179	-	26	
ANKLE-----	-	-	-	53	53	53	8	61	-	-	-	1,025	1,025	1,025	-	19	
FOOT-----	-	-	-	31	31	31	18	49	-	-	-	613	613	613	-	20	
TOE(S)-----	-	-	-	6	6	6	-	6	-	-	-	124	124	124	-	21	
LOWER EXTREMITIES, NEC-----	-	-	-	16	16	16	13	29	-	-	-	566	566	566	-	35	
BODY SYSTEMS-----	-	-	-	9	9	9	6	15	-	-	-	53	53	53	-	6	
MULTIPLE PARTS OF BODY-----	-	-	-	39	39	39	12	51	-	-	-	1,232	1,232	1,232	-	32	
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL												
		TOTAL	PARTIAL		TOTAL					PARTIAL							
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
EAR-----	-	-	-	-	-	-	11	11	-	-	-	-	-	-	-	-	-
EYE-----	-	-	-	51	51	51	136	187	-	-	-	201	201	201	-	4	4
JAW-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
MOUTH/TEETH/TONGUE-----	-	-	-	3	3	3	22	25	-	-	-	56	56	56	-	19	19
NOSE-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
SCALP-----	-	-	-	2	2	2	2	4	-	-	-	12	12	12	-	6	6
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	6	6	6	21	27	-	-	-	23	23	23	-	4	4
HEAD, NEC-----	1	-	-	13	13	14	31	45	6,000	-	-	237	237	6,237	-	18	446
NECK-----	-	-	-	25	25	25	19	44	-	-	-	447	447	447	-	18	18
UPPER ARM-----	-	-	-	7	7	7	1	8	-	-	-	218	218	218	-	31	31
ELBOW-----	-	-	-	19	19	19	28	47	-	-	-	220	220	220	-	12	12
FOREARM-----	-	-	-	14	14	14	23	37	-	-	-	678	678	678	-	48	48
WRIST-----	-	-	-	28	28	28	26	54	-	-	-	417	417	417	-	15	15
HAND-----	-	-	-	46	46	46	57	103	-	-	-	623	623	623	-	14	14
FINGER(S)-----	-	-	11	93	104	104	244	348	-	-	2,300	1,329	3,629	3,629	209	14	35
UPPER EXTREMITIES, NEC-----	-	-	-	23	23	23	29	52	-	-	-	445	445	445	-	19	19
ABDOMEN-----	-	-	-	6	6	6	6	12	-	-	-	109	109	109	-	18	18
BACK-----	-	-	-	344	344	344	115	459	-	-	-	9,035	9,035	9,035	-	26	26
CHEST-----	-	-	-	27	27	27	18	45	-	-	-	470	470	470	-	17	17
PELVIC REGION-----	-	-	16	25	41	41	8	49	-	-	800	391	1,191	1,191	50	16	29
SHOULDER(S)-----	-	-	-	64	64	64	33	97	-	-	-	1,712	1,712	1,712	-	27	27
TRUNK, NEC-----	-	-	-	16	16	16	8	24	-	-	-	540	540	540	-	34	34
THIGH-----	-	-	-	4	4	4	6	10	-	-	-	36	36	36	-	9	9
KNEE-----	-	-	-	107	107	107	42	149	-	-	-	2,777	2,777	2,777	-	26	26
LOWER LEG-----	-	-	-	12	12	12	10	22	-	-	-	281	281	281	-	23	23
ANKLE-----	-	-	-	77	77	77	16	93	-	-	-	1,465	1,465	1,465	-	19	19
FOOT-----	-	-	-	47	47	47	28	75	-	-	-	1,028	1,028	1,028	-	22	22
TOE(S)-----	-	-	-	11	11	11	1	12	-	-	-	218	218	218	-	20	20
LOWER EXTREMITIES, NEC-----	-	-	-	24	24	24	23	47	-	-	-	735	735	735	-	31	31
BODY SYSTEMS-----	2	-	-	12	12	14	11	25	12,000	-	-	93	93	12,093	-	8	864
MULTIPLE PARTS OF BODY-----	-	-	-	78	78	78	28	106	-	-	-	2,893	2,893	2,893	-	37	37
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39
OFFICE:																	
EYE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
ELBOW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	1	1	1	1	-	1	-	-	50	-	50	50	50	-	50
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
ANKLE-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
FOOT-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
MULTIPLE PARTS OF BODY-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	10

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	11	11	-	-	-	-	-	-	-	-	-
EAR-----	-	-	-	-	-	-	136	188	-	-	-	204	204	204	-	4	4
EYE-----	-	-	-	52	52	52	6	9	-	-	-	4	4	4	-	1	1
JAW-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
MOUTH/TEETH/TONGUE-----	-	-	-	3	3	3	22	25	-	-	-	56	56	56	-	19	19
NOSE-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
SCALP-----	-	-	-	2	2	2	2	4	-	-	-	12	12	12	-	6	6
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	6	6	6	21	27	-	-	-	23	23	23	-	4	4
HEAD, NEC-----	1	-	-	13	13	14	31	45	6,000	-	-	237	237	6,237	-	18	446
NECK-----	-	-	-	25	25	25	19	44	-	-	-	447	447	447	-	18	18
UPPER ARM-----	-	-	-	7	7	7	1	8	-	-	-	218	218	218	-	31	31
ELBOW-----	-	-	-	19	19	19	29	48	-	-	-	220	220	220	-	12	12
FOREARM-----	-	-	-	14	14	14	23	37	-	-	-	678	678	678	-	48	48
WRIST-----	-	-	-	28	28	28	26	54	-	-	-	417	417	417	-	15	15
HAND-----	-	-	-	46	46	46	57	103	-	-	-	623	623	623	-	14	14
FINGER(S)-----	-	-	11	93	104	104	247	351	-	-	2,300	1,329	3,629	3,629	209	14	35
UPPER EXTREMITIES, NEC-----	-	-	-	23	23	23	30	53	-	-	-	445	445	445	-	19	19
ABDOMEN-----	-	-	-	6	6	6	6	12	-	-	-	109	109	109	-	18	18
BACK-----	-	-	-	345	345	345	116	461	-	-	-	9,036	9,036	9,036	-	26	26
CHEST-----	-	-	-	27	27	27	18	45	-	-	-	470	470	470	-	17	17
PELVIC REGION-----	-	-	17	25	42	42	8	50	-	-	850	391	1,241	1,241	50	16	30
SHOULDER(S)-----	-	-	-	64	64	64	33	97	-	-	-	1,712	1,712	1,712	-	27	27
TRUNK, NEC-----	-	-	-	16	16	16	8	24	-	-	-	540	540	540	-	34	34
THIGH-----	-	-	-	4	4	4	6	10	-	-	-	36	36	36	-	9	9
KNEE-----	-	-	-	108	108	108	42	150	-	-	-	2,781	2,781	2,781	-	26	26
LOWER LEG-----	-	-	-	12	12	12	10	22	-	-	-	281	281	281	-	23	23
ANKLE-----	-	-	-	78	78	78	17	95	-	-	-	1,467	1,467	1,467	-	19	19
FOOT-----	-	-	-	48	48	48	28	76	-	-	-	1,029	1,029	1,029	-	21	21
TOE(S)-----	-	-	-	11	11	11	1	12	-	-	-	218	218	218	-	20	20
LOWER EXTREMITIES, NEC-----	-	-	-	24	24	24	23	47	-	-	-	735	735	735	-	31	31
BODY SYSTEMS-----	2	-	-	12	12	14	11	25	12,000	-	-	93	93	12,093	-	8	864
MULTIPLE PARTS OF BODY-----	-	-	-	78	78	78	30	108	-	-	-	2,893	2,893	2,893	-	37	37
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
UNDERGROUND MINES:																
UNDERGROUND:																
ASPHYXIATION/DROWNING----	2	-	-	-	-	2	-	2	.05	-	.05	-	.05	330	-	330
BURN/SCALD (NOT CHEM.)----	-	-	-	4	4	4	4	8	-	.11	.11	.11	.22	-	5	5
CHEMICAL BURN-----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
CONTUSION OR BRUISE----	-	-	-	16	16	16	21	37	-	.44	.44	.58	1.02	-	14	14
CUT OR PUNCTURE-----	-	-	-	20	20	20	40	60	-	.55	.55	1.10	1.65	-	11	11
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
DISLOCATION-----	-	-	-	1	1	1	-	-	-	.03	.03	-	.03	-	(*)	(*)
DUST IN EYE-----	-	-	-	2	2	2	3	5	-	.05	.05	.08	.14	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
FRACTURE-----	-	-	-	17	17	17	14	31	-	.47	.47	.38	.85	-	21	21
HERNIA (NOT DISC)-----	-	-	2	-	2	2	-	2	-	.05	.05	-	.05	-	3	3
POISONING (SYSTEMIC)----	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	1	1
SCRATCH/ABRASION-----	-	-	-	1	1	1	3	4	-	.03	.03	.08	.11	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	-	60	60	60	38	98	-	1.65	1.65	1.04	2.69	-	65	65
MULTIPLE INJURIES-----	-	-	-	17	17	17	12	29	-	.47	.47	.33	.80	-	17	17
OTHER INJURY, NEC-----	-	-	-	3	3	3	2	5	-	.08	.08	.05	.14	-	(*)	(*)
UNCLASSIFIED (NO DATA)---	-	-	-	9	9	9	10	19	-	.25	.25	.27	.52	-	8	8
TOTAL OR AVERAGE-----	2	-	2	153	155	157	149	306	.05	4.26	4.32	4.10	8.41	330	146	476
SURFACE AT UNDERGROUND:																
AMPUTATION/ENUCLEATION----	-	-	1	-	1	1	-	1	-	.15	.15	-	.15	-	12	12
BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	1	2	-	.15	.15	.15	.31	-	10	10
CONTUSION OR BRUISE----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	2	2
CUT OR PUNCTURE-----	-	-	-	1	1	1	14	15	-	.15	.15	2.15	2.31	-	(*)	(*)
DUST IN EYE-----	-	-	-	-	-	-	1	1	-	-	-	.15	.15	-	-	-
ELECT. BURN (CONTACT)----	-	-	-	-	-	-	1	1	-	-	-	.15	.15	-	-	-
FRACTURE-----	-	-	-	5	5	5	4	9	-	.77	.77	.62	1.39	-	48	48
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	.15	.15	-	.15	-	8	8
POISONING (SYSTEMIC)----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	(*)	(*)
SCRATCH/ABRASION-----	-	-	-	1	1	1	-	1	-	.15	.15	-	.15	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	1	17	18	18	6	24	-	2.77	2.77	.92	3.69	-	61	61
MULTIPLE INJURIES-----	-	-	-	4	4	4	1	5	-	.62	.62	.15	.77	-	30	30
UNCLASSIFIED (NO DATA)---	-	-	-	3	3	3	1	4	-	.46	.46	.15	.62	-	2	2
TOTAL OR AVERAGE-----	-	-	3	34	37	37	29	66	-	5.69	5.69	4.46	10.16	-	172	172

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, UG:	-	-	1	-	1	1	-	1	-	.02	.02	-	.02	-	2	2
AMPUTATION/ENUCLEATION----	-	-	-	-	-	2	-	2	.05	-	.05	-	.05	280	-	280
ASPHYXIATION/DROWNING----	2	-	-	-	5	5	5	10	-	.12	.12	.12	.23	-	6	6
BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(*)	(*)
CHEMICAL BURN-----	-	-	-	17	17	17	21	38	-	.40	.40	.49	.89	-	12	12
CONCUSSION OR BRUISE----	-	-	-	21	21	21	54	75	-	.49	.49	1.26	1.75	-	9	9
CUT OR PUNCTURE-----	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
DERMATITIS-----	-	-	-	1	1	1	1	1	-	.02	.02	-	.02	-	(*)	(*)
DISLOCATION-----	-	-	-	2	2	2	4	6	-	.05	.05	.09	.14	-	(*)	(*)
DUST IN EYE-----	-	-	-	1	1	1	1	1	-	.02	.02	-	.02	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
ELECT. BURN (CONTACT)----	-	-	-	22	22	22	18	40	-	.51	.51	.42	.93	-	25	25
FRACTURE-----	-	-	3	-	3	3	3	3	-	.07	.07	-	.07	-	3	3
HERNIA (NOT DISC)-----	-	-	-	2	2	2	-	2	-	.05	.05	-	.05	-	1	1
POISONING (SYSTEMIC)-----	-	-	-	2	2	2	3	5	-	.05	.05	.07	.12	-	(*)	(*)
SCRATCH/ABRASION-----	-	-	1	77	78	78	44	122	-	1.82	1.82	1.03	2.85	-	64	64
STRAIN/SPRAIN-----	-	-	-	21	21	21	13	34	-	.49	.49	.30	.79	-	19	19
MULTIPLE INJURIES-----	-	-	-	3	3	3	2	5	-	.07	.07	.05	.12	-	(*)	(*)
OTHER INJURY, NEC-----	-	-	-	12	12	12	11	23	-	.28	.28	.26	.54	-	7	7
UNCLASSIFIED (NO DATA)----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	.05	4.48	4.53	4.15	8.68	280	150	430
SURFACE MINES:																
OPEN PIT:																
AMPUTATION/ENUCLEATION--	-	-	2	-	2	2	-	2	-	.03	.03	-	.03	-	11	11
BURN/SCALD (NOT CHEM.)--	-	-	-	3	3	3	7	10	-	.05	.05	.11	.15	-	(*)	(*)
CHEMICAL BURN-----	-	-	-	-	-	-	4	4	-	-	-	.06	.06	-	-	-
CONCUSSION (CEREBRAL)---	-	-	-	1	1	1	1	2	-	.02	.02	.02	.03	-	(*)	(*)
CONCUSSION OR BRUISE---	-	-	-	17	17	17	16	33	-	.26	.26	.25	.51	-	2	2
CUT OR PUNCTURE-----	-	-	-	18	18	18	72	90	-	.28	.28	1.11	1.38	-	3	3
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	.03	.03	-	-	-
DISLOCATION-----	-	-	-	2	2	2	2	2	-	.03	.03	-	.03	-	(*)	(*)
DUST IN EYE-----	-	-	-	4	4	4	15	19	-	.06	.06	.23	.29	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
ELECT. BURN (CONTACT)----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
FRACTURE-----	-	-	-	7	7	7	8	15	-	.11	.11	.12	.23	-	5	5
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
HERNIA (NOT DISC)-----	-	-	4	-	4	4	-	4	-	.06	.06	-	.06	-	3	3
POISONING (SYSTEMIC)-----	-	-	-	-	-	-	3	3	-	-	-	.05	.05	-	-	-
RADIATION/ULTRA VIOLET---	-	-	-	-	-	-	2	2	-	-	-	.03	.03	-	-	-
SCRATCH/ABRASION-----	-	-	1	95	95	95	6	7	-	.02	.02	.09	.11	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	-	13	13	13	18	31	-	1.46	1.46	.41	1.87	-	24	24
MULTIPLE INJURIES-----	-	-	-	1	1	1	1	2	-	.20	.20	.28	.48	-	5	5
OTHER INJURY, NEC-----	-	-	-	21	21	21	4	25	-	.02	.02	.02	.03	-	(*)	(*)
UNCLASSIFIED (NO DATA)----	-	-	-	-	-	-	-	-	-	.32	.32	.06	.38	-	11	11
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	2.90	2.90	2.90	5.80	-	63	63

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
DREDGE:																
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
CUT OR PUNCTURE-----	-	-	-	1	1	1	2	3	-	.76	.76	1.52	2.28	-	2	2
RADIATION/ULTRA VIOLET--	-	-	-	1	1	1	-	1	-	.76	.76	-	.76	-	2	2
STRAIN/SPRAIN-----	-	-	-	2	2	2	-	2	-	1.52	1.52	-	1.52	-	8	8
MULTIPLE INJURIES-----	-	-	-	-	-	-	2	2	-	-	-	1.52	1.52	-	-	-
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	3.80	3.80	3.04	6.83	-	14	14
TOTAL OR AVERAGE, SURFACE:																
AMPUTATION/ENUCLEATION---	-	-	2	-	2	2	-	2	-	.03	.03	-	.03	-	11	11
BURN/SCALD (NOT CHEM.)----	-	-	-	3	3	3	7	10	-	.05	.05	.11	.15	-	(*)	(*)
CHEMICAL BURN-----	-	-	-	-	-	-	4	4	-	-	-	.06	.06	-	-	-
CONCUSSION (CEREBRAL)---	-	-	-	1	1	1	1	2	-	.02	.02	.02	.03	-	(*)	(*)
CONTUSION OR BRUISE-----	-	-	-	18	18	18	16	34	-	.27	.27	.24	.51	-	2	2
CUT OR PUNCTURE-----	-	-	-	19	19	19	74	93	-	.29	.29	1.11	1.40	-	3	3
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	.03	.03	-	-	-
DISLOCATION-----	-	-	-	2	2	2	-	2	-	.03	.03	-	.03	-	(*)	(*)
DUST IN EYE-----	-	-	-	4	4	4	15	19	-	.06	.06	.23	.29	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
ELECT. BURN (CONTACT)---	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
FRACTURE-----	-	-	-	7	7	7	8	15	-	.11	.11	.12	.23	-	5	5
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
HERNIA (NOT DISC)-----	-	-	4	-	4	4	-	4	-	.06	.06	-	.06	-	3	3
POISONING (SYSTEMIC)---	-	-	-	-	-	-	3	3	-	-	-	.05	.05	-	-	-
RADIATION/ULTRA VIOLET---	-	-	-	1	1	1	2	3	-	.02	.02	.03	.05	-	(*)	(*)
SCRATCH/ABRASION-----	-	-	-	1	1	1	6	7	-	.02	.02	.09	.11	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	-	97	97	97	27	124	-	1.46	1.46	.41	1.87	-	24	24
MULTIPLE INJURIES-----	-	-	-	13	13	13	20	33	-	.20	.20	.30	.50	-	5	5
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	.02	.02	.02	.03	-	(*)	(*)
UNCLASSIFIED (NO DATA)---	-	-	-	21	21	21	4	25	-	.32	.32	.06	.38	-	10	10
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	2.92	2.92	2.90	5.82	-	62	62

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY	TOTAL NFDL												
		TOTAL	PARTIAL														
TOTAL OR AVERAGE, MINING:-----	-	-	3	-	3	3	-	3	-	.03	.03	-	.03	-	7	-	
AMPUTATION/ENUCLATION-----	-	-	-	-	-	2	-	2	.02	-	.02	-	.02	110	-	110	
ASPHYXIATION/DROWNING-----	2	-	-	-	8	8	8	12	20	.07	.07	.11	.18	-	2	-	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	1	1	1	4	5	.01	.01	.04	.05	-	(*)	(*)	
CHEMICAL BURN-----	-	-	-	-	1	1	1	1	2	.01	.01	.01	.02	-	(*)	(*)	
CONCUSSION (CEREBRAL)-----	-	-	-	-	35	35	35	37	72	.32	.32	.34	.66	-	6	-	
CONTUSION OR BRUISE-----	-	-	-	-	40	40	40	128	168	.37	.37	1.17	1.54	-	5	-	
CUT OR PUNCTURE-----	-	-	-	-	-	-	-	4	4	-	-	.04	.04	-	-	-	
DERMATITIS-----	-	-	-	-	3	3	3	-	3	.03	.03	-	.03	-	(*)	(*)	
DISLOCATION-----	-	-	-	-	6	6	6	19	25	.05	.05	.17	.23	-	(*)	(*)	
DUST IN EYE-----	-	-	-	-	1	1	1	1	2	.01	.01	.01	.02	-	(*)	(*)	
ELECTRIC SHOCK-----	-	-	-	-	-	-	-	2	2	-	-	.02	.02	-	-	-	
ELECT. BURN (CONTACT)-----	-	-	-	-	29	29	29	26	55	.27	.27	.24	.50	-	13	1	
FRACTURE-----	-	-	-	-	-	-	-	1	1	-	-	.01	.01	-	-	-	
HEAT/SUNSTROKE-----	-	-	-	-	7	7	7	-	7	.06	.06	-	.06	-	3	-	
HERNIA (NOT DISC)-----	-	-	7	-	-	-	-	3	5	.02	.02	.03	.05	-	(*)	(*)	
POISONING (SYSTEMIC)-----	-	-	-	-	2	2	2	3	5	.01	.01	.02	.03	-	(*)	(*)	
RADIATION/ULTRA VIOLET-----	-	-	-	-	1	1	1	2	3	.01	.01	.02	.03	-	(*)	(*)	
SCRATCH/ABRASION-----	-	-	-	-	3	3	3	9	12	.03	.03	.08	.11	-	(*)	(*)	
STRAIN/SPRAIN-----	-	-	1	-	174	175	175	71	246	1.60	1.60	.65	2.25	-	40	4	
MULTIPLE INJURIES-----	-	-	-	-	34	34	34	33	67	.31	.31	.30	.61	-	10	1	
OTHER INJURY, NEC-----	-	-	-	-	4	4	4	3	7	.04	.04	.03	.06	-	(*)	(*)	
UNCLASSIFIED (NO DATA)-----	-	-	-	-	33	33	33	15	48	.30	.30	.14	.44	-	9	-	
TOTAL OR AVERAGE-----	2	-	11	-	375	386	388	371	759	.02	3.53	3.55	3.39	6.94	110	96	206
INDEPENDENT SHOPS:																	
CUT OR PUNCTURE-----	-	-	-	-	-	-	-	2	2	-	-	-	11.29	11.29	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	-	2	2	-	-	-	11.29	11.29	-	-	-

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
PROCESSING PLANTS:																
AMPUTATION/ENUCLEATION----	-	-	8	-	8	8	-	8	-	.04	.04	-	.04	-	9	9
ASPHYXIATION/DROWNING----	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
BURN/SCALD (NOT CHEM.)----	-	-	-	18	18	18	22	40	-	.10	.10	.12	.22	-	2	2
CHEMICAL BURN-----	-	-	-	8	8	8	26	34	-	.04	.04	.15	.19	-	(*)	(*)
CONCUSSION (CEREBRAL)----	-	-	-	-	-	-	1	1	-	-	-	.01	.01	-	-	-
CONTUSION OR BRUISE-----	1	-	-	93	93	94	85	179	.01	.52	.53	.48	1.00	34	5	38
CUT OR PUNCTURE-----	-	-	-	67	67	67	189	256	-	.38	.38	1.06	1.44	-	5	5
DERMATITIS-----	-	-	-	1	1	1	2	3	-	.01	.01	.01	.02	-	(*)	(*)
DISLOCATION-----	-	-	-	4	4	4	3	7	-	.02	.02	.02	.04	-	(*)	(*)
DUST IN EYE-----	-	-	-	17	17	17	47	64	-	.10	.10	.26	.36	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	3	3	3	-	3	-	.02	.02	-	.02	-	(*)	(*)
ELECT. BURN (CONTACT)----	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
FRACTURE-----	-	-	-	58	58	58	26	84	-	.33	.33	.15	.47	-	13	13
HERNIA (NOT DISC)-----	-	-	8	-	8	8	-	8	-	.04	.04	-	.04	-	2	2
POISONING (SYSTEMIC)-----	-	-	-	5	5	5	6	11	-	.03	.03	.03	.06	-	(*)	(*)
RADIATION/ULTRA VIOLET-----	-	-	-	8	8	8	4	12	-	.04	.04	.02	.07	-	(*)	(*)
SCRATCH/ABRASION-----	-	-	-	4	4	4	18	22	-	.02	.02	.10	.12	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	-	433	433	433	156	589	-	2.43	2.43	.88	3.30	-	56	56
MULTIPLE INJURIES-----	-	-	-	42	42	42	35	77	-	.24	.24	.20	.43	-	8	8
OTHER INJURY, NEC-----	-	-	-	8	8	8	6	14	-	.04	.04	.03	.08	-	2	2
UNCLASSIFIED (NO DATA)----	-	-	-	43	43	43	12	55	-	.24	.24	.07	.31	-	7	7
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	.01	4.66	4.66	3.58	8.24	34	109	143

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							INCIDENCE RATES					SEVERITY MEASURES			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY												TOTAL NFDL
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																
AMPUTATION/ENUCLEATION-----	-	-	11	-	11	11	-	11	-	.04	.04	-	.04	-	8	8
ASPHYXIATION/DROWNING-----	2	-	-	1	1	3	-	3	.01	(*)	.01	-	.01	42	(*)	42
BURN/SCALD (NOT CHEM.)-----	-	-	-	26	26	26	34	60	-	.09	.09	.12	.21	-	2	2
CHEMICAL BURN-----	-	-	-	9	9	9	30	39	-	.03	.03	.10	.14	-	(*)	(*)
CONCUSSION (CEREBRAL)-----	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)
CONTUSION OR BRUISE-----	1	-	-	128	128	129	122	251	(*)	.44	.45	.42	.87	21	5	26
CUT OR PUNCTURE-----	-	-	-	107	107	107	319	426	-	.37	.37	1.11	1.48	-	5	5
DERMATITIS-----	-	-	-	1	1	1	6	7	-	(*)	(*)	.02	.02	-	(*)	(*)
DISLOCATION-----	-	-	-	7	7	7	3	10	-	.02	.02	.01	.03	-	(*)	(*)
DUST IN EYE-----	-	-	-	23	23	23	66	89	-	.08	.08	.23	.31	-	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	4	4	4	1	5	-	.01	.01	(*)	.02	-	(*)	(*)
ELECT. BURN (CONTACT)-----	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)
FRACTURE-----	-	-	-	87	87	87	52	139	-	.30	.30	.18	.48	-	13	13
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	-	-
HERNIA (NOT DISC)-----	-	-	15	-	15	15	-	15	-	.05	.05	-	.05	-	3	3
POISONING (SYSTEMIC)-----	-	-	-	7	7	7	9	16	-	.02	.02	.03	.06	-	(*)	(*)
RADIATION/ULTRA VIOLET-----	-	-	-	9	9	9	6	15	-	.03	.03	.02	.05	-	(*)	(*)
SCRATCH/ABRASION-----	-	-	-	7	7	7	27	34	-	.02	.02	.09	.12	-	(*)	(*)
STRAIN/SPRAIN-----	-	-	1	607	608	608	227	835	-	2.11	2.11	.79	2.90	-	50	50
MULTIPLE INJURIES-----	-	-	-	76	76	76	68	144	-	.26	.26	.24	.50	-	9	9
OTHER INJURY, NEC-----	-	-	-	12	12	12	9	21	-	.04	.04	.03	.07	-	1	1
UNCLASSIFIED (NO DATA)-----	-	-	-	76	76	76	27	103	-	.26	.26	.09	.36	-	8	8
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	.01	4.23	4.24	3.51	7.75	63	104	167
OFFICE:																
CONTUSION OR BRUISE-----	-	-	-	2	2	2	-	2	-	.05	.05	-	.05	-	(*)	(*)
CUT OR PUNCTURE-----	-	-	-	1	1	1	2	3	-	.02	.02	.05	.07	-	(*)	(*)
DERMATITIS-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
FRACTURE-----	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	.02	.02	-	.02	-	1	1
STRAIN/SPRAIN-----	-	-	-	2	2	2	3	5	-	.05	.05	.07	.12	-	(*)	(*)
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	.02	.02	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	.14	.14	.21	.35	-	1	1

TABLE 10. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJU- RIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL											
		TOTAL	PARTIAL													
GRAND TOTAL OR AVERAGE:-----	-	-	11	-	11	11	-	11	-	.03	.03	-	.03	-	7	7
AMPUTATION/ENUCLEATION-----	-	-	-	1	1	3	-	3	.01	(*)	.01	-	.01	36	(*)	36
ASPHYXIATION/DROWNING-----	2	-	-	-	26	26	34	60	-	.08	.08	.10	.18	-	2	2
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	9	9	9	30	39	-	.03	.03	.09	.12	(*)	(*)
CHEMICAL BURN-----	-	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	(*)	(*)
CONCUSSION (CEREBRAL)-----	-	-	-	-	130	130	131	122	253	(*)	.39	.40	.37	.76	18	4
CONTUSION OR BRUISE-----	1	-	-	-	108	108	108	321	429	-	.33	.33	.97	1.30	-	4
CUT OR PUNCTURE-----	-	-	-	-	1	1	1	7	8	-	(*)	(*)	.02	.02	(*)	(*)
DERMATITIS-----	-	-	-	-	7	7	7	3	10	-	.02	.02	.01	.03	(*)	(*)
DISLOCATION-----	-	-	-	-	23	23	23	66	89	-	.07	.07	.20	.27	(*)	(*)
DUST IN EYE-----	-	-	-	-	4	4	4	1	5	-	.01	.01	(*)	.02	(*)	(*)
ELECTRIC SHOCK-----	-	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	(*)	(*)
ELECT. BURN (CONTACT)-----	-	-	-	-	87	87	87	54	141	-	.26	.26	.16	.43	-	11
FRACTURE-----	-	-	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	-
HEAT/SUNSTROKE-----	-	-	-	-	16	16	16	-	16	-	.05	.05	-	.05	-	2
HERNIA (NOT DISC)-----	-	-	16	-	7	7	7	9	16	-	.02	.02	.03	.05	(*)	(*)
POISONING (SYSTEMIC)-----	-	-	-	-	7	7	7	9	16	-	.03	.03	.02	.05	(*)	(*)
RADIATION/ULTRA VIOLET-----	-	-	-	-	9	9	9	6	15	-	.03	.03	.02	.05	(*)	(*)
SCRATCH/ABRASION-----	-	-	-	-	7	7	7	27	34	-	.02	.02	.08	.10	(*)	(*)
STRAIN/SPRAIN-----	-	-	1	-	609	610	610	230	840	-	1.84	1.84	.69	2.54	-	43
MULTIPLE INJURIES-----	-	-	-	-	76	76	76	69	145	-	.23	.23	.21	.44	-	8
OTHER INJURY, NEC-----	-	-	-	-	12	12	12	9	21	-	.04	.04	.03	.06	-	1
UNCLASSIFIED (NO DATA)-----	-	-	-	-	76	76	76	27	103	-	.23	.23	.08	.31	-	7
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	.01	3.69	3.70	3.08	6.78	54	91	145

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
UNDERGROUND MINES:																	
UNDERGROUND:																	
ASPHYXIATION/DROWNING----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
BURN/SCALD (NOT CHEM.)----	-	-	-	4	4	4	4	8	-	-	-	182	182	182	-	46	46
CHEMICAL BURN-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
CONTUSION OR BRUISE-----	-	-	-	16	16	16	21	37	-	-	-	519	519	519	-	32	32
CUT OR PUNCTURE-----	-	-	-	20	20	20	40	60	-	-	-	402	402	402	-	20	20
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
DUST IN EYE-----	-	-	-	2	2	2	3	5	-	-	-	6	6	6	-	3	3
ELECTRIC SHOCK-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
FRACTURE-----	-	-	-	17	17	17	14	31	-	-	-	752	752	752	-	44	44
HERNIA (NOT DISC)-----	-	-	2	-	2	2	-	2	-	-	100	-	100	100	50	-	50
POISONING (SYSTEMIC)----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
SCRATCH/ABRASION-----	-	-	-	1	1	1	3	4	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	60	60	60	38	98	-	-	-	2,359	2,359	2,359	-	39	39
MULTIPLE INJURIES-----	-	-	-	17	17	17	12	29	-	-	-	611	611	611	-	36	36
OTHER INJURY, NEC-----	-	-	-	3	3	3	2	5	-	-	-	12	12	12	-	4	4
UNCLASSIFIED (NO DATA)----	-	-	-	9	9	9	10	19	-	-	-	302	302	302	-	34	34
TOTAL OR AVERAGE-----	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110
SURFACE AT UNDERGROUND:																	
AMPUTATION/ENUCLEATION----	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75
BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	1	2	-	-	-	62	62	62	-	62	62
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
CUT OR PUNCTURE-----	-	-	-	1	1	1	14	15	-	-	-	2	2	2	-	2	2
DUST IN EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECT. BURN (CONTACT)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	5	5	5	4	9	-	-	-	310	310	310	-	62	62
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
POISONING (SYSTEMIC)----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
SCRATCH/ABRASION-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	1	17	18	18	6	24	-	-	50	348	398	398	50	20	22
MULTIPLE INJURIES-----	-	-	-	4	4	4	1	5	-	-	-	193	193	193	-	48	48
UNCLASSIFIED (NO DATA)----	-	-	-	3	3	3	1	4	-	-	-	12	12	12	-	4	4
TOTAL OR AVERAGE-----	-	-	3	34	37	37	29	66	-	-	175	942	1,117	1,117	58	28	30

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, UG:	-	-	1	-	1	1	-	1	-	-	75	-	75	75	75	-	75
AMPUTATION/ENUCLEATION----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
ASPHYXIATION/DROWNING----	-	-	-	5	5	5	5	10	-	-	-	244	244	-	49	49	-
BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	-	1	-	-	-	2	2	-	2	2	-
CHEMICAL BURN-----	-	-	-	17	17	17	21	38	-	-	-	531	531	-	31	31	-
CONTUSION OR BRUISE-----	-	-	-	21	21	21	54	75	-	-	-	404	404	-	19	19	-
CUT OR PUNCTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
DERMATITIS-----	-	-	-	1	1	1	-	1	-	-	-	5	5	-	5	5	-
DISLOCATION-----	-	-	-	2	2	2	4	6	-	-	-	6	6	-	3	3	-
DUST IN EYE-----	-	-	-	1	1	1	-	1	-	-	-	8	8	-	8	8	-
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECT. BURN (CONTACT)-----	-	-	-	22	22	22	18	40	-	-	-	1,062	1,062	-	48	48	-
FRACTURE-----	-	-	3	-	3	3	-	3	-	-	150	-	150	50	-	50	-
HERNIA (NOT DISC)-----	-	-	-	2	2	2	-	2	-	-	-	32	32	-	16	16	-
POISONING (SYSTEMIC)-----	-	-	-	2	2	2	3	5	-	-	-	4	4	-	2	2	-
SCRATCH/ABRASION-----	-	-	1	77	78	78	44	122	-	-	50	2,707	2,757	50	35	35	-
STRAIN/SPRAIN-----	-	-	-	21	21	21	13	34	-	-	-	804	804	-	38	38	-
MULTIPLE INJURIES-----	-	-	-	3	3	3	2	5	-	-	-	12	12	-	4	4	-
OTHER INJURY, NEC-----	-	-	-	12	12	12	11	23	-	-	-	314	314	-	26	26	-
UNCLASSIFIED (NO DATA)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	55	33	95	-
SURFACE MINES:																	
OPEN PIT:																	
AMPUTATION/ENUCLEATION--	-	-	2	-	2	2	-	2	-	-	700	-	700	700	350	-	350
BURN/SCALD (NOT CHEM.)--	-	-	-	3	3	3	7	10	-	-	-	14	14	-	5	5	-
CHEMICAL BURN-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
CONCUSSION (CEREBRAL)---	-	-	-	1	1	1	1	2	-	-	-	1	1	-	1	1	-
CONTUSION OR BRUISE-----	-	-	-	17	17	17	16	33	-	-	-	107	107	-	6	6	-
CUT OR PUNCTURE-----	-	-	-	18	18	18	72	90	-	-	-	181	181	-	10	10	-
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	2	2	2	-	2	-	-	-	9	9	-	4	4	-
DUST IN EYE-----	-	-	-	4	4	4	15	19	-	-	-	13	13	-	3	3	-
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECT. BURN (CONTACT)---	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	7	7	7	8	15	-	-	-	319	319	-	46	46	-
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	4	-	4	4	-	4	-	-	200	-	200	50	-	50	-
POISONING (SYSTEMIC)---	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
RADIATION/ULTRA VIOLET---	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
SCRATCH/ABRASION-----	-	-	-	1	1	1	6	7	-	-	-	7	7	-	7	7	-
STRAIN/SPRAIN-----	-	-	-	95	95	95	27	122	-	-	-	1,553	1,553	-	16	16	-
MULTIPLE INJURIES-----	-	-	-	13	13	13	18	31	-	-	-	309	309	-	24	24	-
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	-	-	2	2	-	2	2	-
UNCLASSIFIED (NO DATA)---	-	-	-	21	21	21	4	25	-	-	-	685	685	-	33	33	-
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
DREDGE:																	
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CUT OR PUNCTURE-----	-	-	-	1	1	1	2	3	-	-	-	3	3	3	-	3	3
RADIATION/ULTRA VIOLET--	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	2	2	2	-	2	-	-	-	11	11	11	-	6	6
MULTIPLE INJURIES-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4
TOTAL OR AVERAGE, SURFACE:																	
AMPUTATION/ENUCLEATION----	-	-	2	-	2	2	-	2	-	-	700	-	700	700	350	-	350
BURN/SCALD (NOT CHEM.)----	-	-	-	3	3	3	7	10	-	-	-	14	14	14	-	5	5
CHEMICAL BURN-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
CONCUSSION (CEREBRAL)----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	-	-	-	18	18	18	16	34	-	-	-	110	110	110	-	6	6
CUT OR PUNCTURE-----	-	-	-	19	19	19	74	93	-	-	-	184	184	184	-	10	10
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	2	2	2	-	2	-	-	-	9	9	9	-	4	4
DUST IN EYE-----	-	-	-	4	4	4	15	19	-	-	-	13	13	13	-	3	3
ELECTRIC SHOCK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECT. BURN (CONTACT)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	7	7	7	8	15	-	-	-	319	319	319	-	46	46
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	4	-	4	4	-	4	-	-	200	-	200	200	50	-	50
POISONING (SYSTEMIC)-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
RADIATION/ULTRA VIOLET----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
SCRATCH/ABRASION-----	-	-	-	1	1	1	6	7	-	-	-	7	7	7	-	7	7
STRAIN/SPRAIN-----	-	-	-	97	97	97	27	124	-	-	-	1,564	1,564	1,564	-	16	16
MULTIPLE INJURIES-----	-	-	-	13	13	13	20	33	-	-	-	309	309	309	-	24	24
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
UNCLASSIFIED (NO DATA)----	-	-	-	21	21	21	4	25	-	-	-	685	685	685	-	33	33
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:	-	-	3	-	3	3	-	3	-	-	775	-	775	775	258	-	258
AMPUTATION/ENUCLEATION----	-	-	-	-	-	2	-	2	-	-	-	-	-	12,000	-	-	6,000
ASPHYXIATION/DROWNING----	2	-	-	-	-	8	12	20	12,000	-	-	-	-	-	-	32	32
BURN/SCALD (NOT CHEM.)----	-	-	-	8	8	8	-	-	-	-	-	258	258	258	-	-	-
CHEMICAL BURN-----	-	-	-	1	1	1	4	5	-	-	-	2	2	2	-	2	2
CONCUSSION (CEREBRAL)----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	-	-	-	35	35	35	37	72	-	-	-	641	641	641	-	18	18
CUT OR PUNCTURE-----	-	-	-	40	40	40	128	168	-	-	-	588	588	588	-	15	15
DERMATITIS-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	3	3	3	-	3	-	-	-	14	14	14	-	5	5
DUST IN EYE-----	-	-	-	6	6	6	19	25	-	-	-	19	19	19	-	3	3
ELECTRIC SHOCK-----	-	-	-	1	1	1	1	2	-	-	-	8	8	8	-	8	8
ELECT. BURN (CONTACT)----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	29	29	29	26	55	-	-	-	1,381	1,381	1,381	-	48	48
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	7	-	7	7	-	7	-	-	350	-	350	350	50	-	50
POISONING (SYSTEMIC)-----	-	-	-	2	2	2	3	5	-	-	-	32	32	32	-	16	16
RADIATION/ULTRA VIOLET----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
SCRATCH/ABRASION-----	-	-	-	3	3	3	9	12	-	-	-	11	11	11	-	4	4
STRAIN/SPRAIN-----	-	-	1	174	175	175	71	246	-	-	50	4,271	4,321	4,321	50	25	25
MULTIPLE INJURIES-----	-	-	-	34	34	34	33	67	-	-	-	1,113	1,113	1,113	-	33	33
OTHER INJURY, NEC-----	-	-	-	4	4	4	3	7	-	-	-	14	14	14	-	4	4
UNCLASSIFIED (NO DATA)----	-	-	-	33	33	33	15	48	-	-	-	999	999	999	-	30	30
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
PROCESSING PLANTS:																	
AMPUTATION/ENUCLEATION----	-	-	8	-	8	8	-	8	-	-	1,525	-	1,525	1,525	191	-	191
ASPHYXIATION/DROWNING----	-	-	-	1	1	1	-	1	-	-	-	19	19	19	-	19	19
BURN/SCALD (NOT CHEM.)----	-	-	-	18	18	18	22	40	-	-	-	274	274	274	-	15	15
CHEMICAL BURN----	-	-	-	8	8	8	26	34	-	-	-	48	48	48	-	6	6
CONCUSSION (CEREBRAL)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE----	1	-	-	93	93	94	85	179	6,000	-	-	842	842	6,842	-	9	73
CUT OR PUNCTURE----	-	-	-	67	67	67	189	256	-	-	-	869	869	869	-	13	13
DERMATITIS----	-	-	-	1	1	1	2	3	-	-	-	24	24	24	-	24	24
DISLOCATION----	-	-	-	4	4	4	3	7	-	-	-	58	58	58	-	14	14
DUST IN EYE----	-	-	-	17	17	17	47	64	-	-	-	25	25	25	-	1	1
ELECTRIC SHOCK----	-	-	-	3	3	3	-	3	-	-	-	21	21	21	-	7	7
ELECT. BURN (CONTACT)----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
FRACTURE----	-	-	-	58	58	58	26	84	-	-	-	2,317	2,317	2,317	-	40	40
HERNIA (NOT DISC)----	-	-	8	-	8	8	-	8	-	-	400	-	400	400	50	-	50
POISONING (SYSTEMIC)----	-	-	-	5	5	5	6	11	-	-	-	13	13	13	-	3	3
RADIATION/ULTRA VIOLET----	-	-	-	8	8	8	4	12	-	-	-	47	47	47	-	6	6
SCRATCH/ABRASION----	-	-	-	4	4	4	18	22	-	-	-	12	12	12	-	3	3
STRAIN/SPRAIN----	-	-	-	433	433	433	156	589	-	-	-	10,025	10,025	10,025	-	23	23
MULTIPLE INJURIES----	-	-	-	42	42	42	35	77	-	-	-	1,395	1,395	1,395	-	33	33
OTHER INJURY, NEC----	-	-	-	8	8	8	6	14	-	-	-	287	287	287	-	36	36
UNCLASSIFIED (NO DATA)----	-	-	-	43	43	43	12	55	-	-	-	1,230	1,230	1,230	-	29	29
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	11	-	11	11	-	11	-	-	2,300	-	2,300	2,300	209	-	209
AMPUTATION/ENUCLEATION-----	2	-	-	1	1	3	-	3	12,000	-	-	19	19	12,019	-	19	4,006
ASPHYXIATION/DROWNING-----	-	-	-	26	26	26	34	60	-	-	-	532	532	532	-	20	20
BURN/SCALD (NOT CHEM.)-----	-	-	-	9	9	9	30	39	-	-	-	50	50	50	-	6	6
CHEMICAL BURN-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONCUSSION (CEREBRAL)-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	1	-	-	128	128	129	122	251	6,000	-	-	1,483	1,483	7,483	-	12	58
CUT OR PUNCTURE-----	-	-	-	107	107	107	319	426	-	-	-	1,457	1,457	1,457	-	14	14
DERMATITIS-----	-	-	-	1	1	1	6	7	-	-	-	24	24	24	-	24	24
DISLOCATION-----	-	-	-	7	7	7	3	10	-	-	-	72	72	72	-	10	10
DUST IN EYE-----	-	-	-	23	23	23	66	89	-	-	-	44	44	44	-	2	2
ELECTRIC SHOCK-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
ELECT. BURN (CONTACT)-----	-	-	-	1	1	1	2	3	-	-	-	29	29	29	-	29	29
FRACTURE-----	-	-	-	87	87	87	52	139	-	-	-	3,698	3,698	3,698	-	43	43
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	15	-	15	15	-	15	-	-	750	-	750	750	50	-	50
POISONING (SYSTEMIC)-----	-	-	-	7	7	7	9	16	-	-	-	45	45	45	-	6	6
RADIATION/ULTRA VIOLET-----	-	-	-	9	9	9	6	15	-	-	-	49	49	49	-	5	5
SCRATCH/ABRASION-----	-	-	-	7	7	7	27	34	-	-	-	23	23	23	-	3	3
STRAIN/SPRAIN-----	-	-	1	607	608	608	227	835	-	-	50	14,296	14,346	14,346	50	24	24
MULTIPLE INJURIES-----	-	-	-	76	76	76	68	144	-	-	-	2,508	2,508	2,508	-	33	33
OTHER INJURY, NEC-----	-	-	-	12	12	12	9	21	-	-	-	301	301	301	-	25	25
UNCLASSIFIED (NO DATA)-----	-	-	-	76	76	76	27	103	-	-	-	2,229	2,229	2,229	-	29	29
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
CUT OR PUNCTURE-----	-	-	-	1	1	1	2	3	-	-	-	3	3	3	-	3	3
DERMATITIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
STRAIN/SPRAIN-----	-	-	-	2	2	2	3	5	-	-	-	3	3	3	-	2	2
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	10

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:-----	-	-	11	-	11	11	-	11	-	-	2,300	-	2,300	2,300	209	-	209
AMPUTATION/ENUCLEATION-----	2	-	-	1	1	3	-	3	12,000	-	-	19	19	12,019	-	19	4,006
ASPHYXIATION/DROWNING-----	-	-	-	26	26	26	34	60	-	-	-	532	532	532	-	20	20
BURN/SCALD (NOT CHEM.)-----	-	-	-	9	9	9	30	39	-	-	-	50	50	50	-	6	6
CHEMICAL BURN-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONCUSSION (CEREBRAL)-----	1	-	-	130	130	131	122	253	6,000	-	-	1,488	1,488	7,488	-	11	57
CONTUSION OR BRUISE-----	-	-	-	108	108	108	321	429	-	-	-	1,460	1,460	1,460	-	14	14
CUT OR PUNCTURE-----	-	-	-	1	1	1	7	8	-	-	-	24	24	24	-	24	24
DERMATITIS-----	-	-	-	7	7	7	3	10	-	-	-	72	72	72	-	10	10
DISLOCATION-----	-	-	-	23	23	23	66	89	-	-	-	44	44	44	-	2	2
DUST IN EYE-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
ELECTRIC SHOCK-----	-	-	-	1	1	1	2	3	-	-	-	29	29	29	-	29	29
ELECT. BURN (CONTACT)-----	-	-	-	87	87	87	54	141	-	-	-	3,698	3,698	3,698	-	43	43
FRACTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HEAT/SUNSTROKE-----	-	-	16	-	16	16	-	16	-	-	800	-	800	800	50	-	50
HERNIA (NOT DISC)-----	-	-	7	7	7	7	9	16	-	-	-	45	45	45	-	6	6
POISONING (SYSTEMIC)-----	-	-	-	9	9	9	6	15	-	-	-	49	49	49	-	5	5
RADIATION/ULTRA VIOLET-----	-	-	-	7	7	7	27	34	-	-	-	23	23	23	-	3	3
SCRATCH/ABRASION-----	-	-	1	609	610	610	230	840	-	-	50	14,299	14,349	14,349	50	23	24
STRAIN/SPRAIN-----	-	-	-	76	76	76	69	145	-	-	-	2,508	2,508	2,508	-	33	33
MULTIPLE INJURIES-----	-	-	-	12	12	12	9	21	-	-	-	301	301	301	-	25	25
OTHER INJURY, NEC-----	-	-	-	76	76	76	27	103	-	-	-	2,229	2,229	2,229	-	29	29
UNCLASSIFIED (NO DATA)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
EAR:																
BURN/SCALD (NOT CHEM.)----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
SCRATCH/ABRASION-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
OTHER INJURY, NEC-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	11	11	-	-	-	-	-	-	-	-
EYE:																
BURN/SCALD (NOT CHEM.)----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
CHEMICAL BURN-----	-	-	-	4	4	4	11	15	-	-	-	10	10	10	-	2
CONTUSION OR BRUISE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	11	11	11	28	39	-	-	-	98	98	98	-	9
DUST IN EYE-----	-	-	-	23	23	23	66	89	-	-	-	44	44	44	-	2
RADIATION/ULTRA VIOLET-----	-	-	-	6	6	6	6	12	-	-	-	10	10	10	-	2
SCRATCH/ABRASION-----	-	-	-	4	4	4	18	22	-	-	-	8	8	8	-	2
MULTIPLE INJURIES-----	-	-	-	1	1	1	2	3	-	-	-	22	22	22	-	22
OTHER INJURY, NEC-----	-	-	-	1	1	1	2	3	-	-	-	7	7	7	-	7
UNCLASSIFIED (NO DATA)----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2
TOTAL OR AVERAGE-----	-	-	-	52	52	52	136	188	-	-	-	204	204	204	-	4
JAW:																
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2
CUT OR PUNCTURE-----	-	-	-	2	2	2	5	7	-	-	-	2	2	2	-	1
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1
MOUTH/TEETH/TONGUE:																
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	1	1	1	14	15	-	-	-	8	8	8	-	8
FRACTURE-----	-	-	-	2	2	2	7	9	-	-	-	48	48	48	-	24
TOTAL OR AVERAGE-----	-	-	-	3	3	3	22	25	-	-	-	56	56	56	-	19
NOSE:																
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2
SCALP:																
CUT OR PUNCTURE-----	-	-	-	2	2	2	2	4	-	-	-	12	12	12	-	6
TOTAL OR AVERAGE-----	-	-	-	2	2	2	2	4	-	-	-	12	12	12	-	6

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
SKULL: FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
TOTAL OR AVERAGE-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC: BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
CHEMICAL BURN-----	-	-	-	2	2	2	1	3	-	-	-	13	13	13	-	6	6
CONTUSION OR BRUISE-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	1	1	1	10	11	-	-	-	2	2	2	-	2	2
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
MULTIPLE INJURIES-----	-	-	-	1	1	1	3	4	-	-	-	2	2	2	-	2	2
UNCLASSIFIED (NO DATA)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	6	6	6	21	27	-	-	-	23	23	23	-	4	4
HEAD, NEC: CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONCUSSION (CEREBRAL)-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	1	-	-	1	1	2	2	4	6,000	-	-	3	3	6,003	-	3	3,002
CUT OR PUNCTURE-----	-	-	-	6	6	6	20	26	-	-	-	198	198	198	-	33	33
MULTIPLE INJURIES-----	-	-	-	3	3	3	6	9	-	-	-	23	23	23	-	8	8
UNCLASSIFIED (NO DATA)----	-	-	-	2	2	2	-	2	-	-	-	12	12	12	-	6	6
TOTAL OR AVERAGE-----	1	-	-	13	13	14	31	45	6,000	-	-	237	237	6,237	-	18	446
NECK: BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE-----	-	-	-	1	1	1	2	3	-	-	-	7	7	7	-	7	7
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	19	19	19	14	33	-	-	-	395	395	395	-	21	21
MULTIPLE INJURIES-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
OTHER INJURY, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)----	-	-	-	2	2	2	1	3	-	-	-	33	33	33	-	16	16
TOTAL OR AVERAGE-----	-	-	-	25	25	25	19	44	-	-	-	447	447	447	-	18	18
UPPER ARM: CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
CUT OR PUNCTURE-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	5	5	5	-	5	-	-	-	215	215	215	-	43	43
TOTAL OR AVERAGE-----	-	-	-	7	7	7	1	8	-	-	-	218	218	218	-	31	31

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ELBOW:																	
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
CONTUSION OR BRUISE-----	-	-	-	5	5	5	8	13	-	-	-	14	14	14	-	3	3
CUT OR PUNCTURE-----	-	-	-	1	1	1	4	5	-	-	-	63	63	63	-	63	63
FRACTURE-----	-	-	-	3	3	3	2	5	-	-	-	39	39	39	-	13	13
STRAIN/SPRAIN-----	-	-	-	7	7	7	9	16	-	-	-	100	100	100	-	14	14
MULTIPLE INJURIES-----	-	-	-	2	2	2	2	4	-	-	-	3	3	3	-	2	2
OTHER INJURY, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE-----	-	-	-	19	19	19	29	48	-	-	-	220	220	220	-	12	12
FOREARM:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	3	3	3	12	15	-	-	-	117	117	117	-	39	39
FRACTURE-----	-	-	-	3	3	3	-	3	-	-	-	265	265	265	-	88	88
RADIATION/ULTRA VIOLET-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SCRATCH/ABRASION-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	4	4	4	1	5	-	-	-	169	169	169	-	42	42
MULTIPLE INJURIES-----	-	-	-	2	2	2	2	4	-	-	-	122	122	122	-	61	61
UNCLASSIFIED (NO DATA)-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE-----	-	-	-	14	14	14	23	37	-	-	-	678	678	678	-	48	48
WRIST:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CHEMICAL BURN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	2	2	2	-	2	-	-	-	8	8	8	-	4	4
CUT OR PUNCTURE-----	-	-	-	2	2	2	4	6	-	-	-	24	24	24	-	12	12
FRACTURE-----	-	-	-	4	4	4	3	7	-	-	-	239	239	239	-	60	60
STRAIN/SPRAIN-----	-	-	-	18	18	18	13	31	-	-	-	117	117	117	-	6	6
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OTHER INJURY, NEC-----	-	-	-	1	1	1	-	1	-	-	-	27	27	27	-	27	27
UNCLASSIFIED (NO DATA)-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE-----	-	-	-	28	28	28	26	54	-	-	-	417	417	417	-	15	15
HAND:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	5	5	5	3	8	-	-	-	26	26	26	-	5	5
CHEMICAL BURN-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	-	-	-	11	11	11	9	20	-	-	-	70	70	70	-	6	6
CUT OR PUNCTURE-----	-	-	-	18	18	18	37	55	-	-	-	254	254	254	-	14	14
ELECT. BURN (CONTACT)-----	-	-	-	1	1	1	1	2	-	-	-	29	29	29	-	29	29
FRACTURE-----	-	-	-	5	5	5	-	5	-	-	-	134	134	134	-	27	27
SCRATCH/ABRASION-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	2	2	2	1	3	-	-	-	23	23	23	-	12	12
MULTIPLE INJURIES-----	-	-	-	2	2	2	2	4	-	-	-	84	84	84	-	42	42
UNCLASSIFIED (NO DATA)-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	46	46	46	57	103	-	-	-	623	623	623	-	14	14

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
FINGER(S):	-	-	11	-	11	11	-	11	-	-	2,300	-	2,300	2,300	209	-	209
AMPUTATION/ENUCLEATION-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CHEMICAL BURN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	10	10	10	35	45	-	-	-	68	68	68	-	7	7
CUT OR PUNCTURE-----	-	-	-	39	39	39	141	180	-	-	-	551	551	551	-	14	14
DERMATITIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	15	15	15	31	46	-	-	-	276	276	276	-	18	18
STRAIN/SPRAIN-----	-	-	-	9	9	9	2	11	-	-	-	150	150	150	-	17	17
MULTIPLE INJURIES-----	-	-	-	16	16	16	27	43	-	-	-	246	246	246	-	15	15
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
UNCLASSIFIED (NO DATA)-----	-	-	-	3	3	3	4	7	-	-	-	36	36	36	-	12	12
TOTAL OR AVERAGE-----	-	-	11	93	104	104	247	351	-	-	2,300	1,329	3,629	3,629	209	14	35
UPPER EXTREMITIES, NEC:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	8	8	-	-	-	-	-	-	-	-	-
CHEMICAL BURN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	1	1	1	4	5	-	-	-	1	1	1	-	1	1
CUT OR PUNCTURE-----	-	-	-	2	2	2	10	12	-	-	-	8	8	8	-	4	4
DERMATITIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	14	14	14	2	16	-	-	-	237	237	237	-	17	17
MULTIPLE INJURIES-----	-	-	-	3	3	3	1	4	-	-	-	115	115	115	-	38	38
OTHER INJURY, NEC-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
UNCLASSIFIED (NO DATA)-----	-	-	-	2	2	2	-	2	-	-	-	80	80	80	-	40	40
TOTAL OR AVERAGE-----	-	-	-	23	23	23	30	53	-	-	-	445	445	445	-	19	19
ABDOMEN:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	4	4	4	2	6	-	-	-	53	53	53	-	13	13
MULTIPLE INJURIES-----	-	-	-	1	1	1	1	2	-	-	-	52	52	52	-	52	52
TOTAL OR AVERAGE-----	-	-	-	6	6	6	6	12	-	-	-	109	109	109	-	18	18
BACK:																	
CONTUSION OR BRUISE-----	-	-	-	9	9	9	4	13	-	-	-	101	101	101	-	11	11
FRACTURE-----	-	-	-	3	3	3	2	5	-	-	-	167	167	167	-	56	56
SCRATCH/ABRASION-----	-	-	-	1	1	1	1	2	-	-	-	7	7	7	-	7	7
STRAIN/SPRAIN-----	-	-	-	301	301	301	106	407	-	-	-	7,960	7,960	7,960	-	26	26
MULTIPLE INJURIES-----	-	-	-	3	3	3	1	4	-	-	-	31	31	31	-	10	10
OTHER INJURY, NEC-----	-	-	-	3	3	3	1	4	-	-	-	32	32	32	-	11	11
UNCLASSIFIED (NO DATA)-----	-	-	-	25	25	25	1	26	-	-	-	738	738	738	-	30	30
TOTAL OR AVERAGE-----	-	-	-	345	345	345	116	461	-	-	-	9,036	9,036	9,036	-	26	26

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
CHEST:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	3	3	3	-	3	-	-	-	25	25	25	-	8	8
CONTUSION OR BRUISE-----	-	-	-	4	4	4	8	12	-	-	-	7	7	7	-	2	2
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	8	8	8	5	13	-	-	-	213	213	213	-	27	27
STRAIN/SPRAIN-----	-	-	-	5	5	5	4	9	-	-	-	57	57	57	-	11	11
MULTIPLE INJURIES-----	-	-	-	2	2	2	-	2	-	-	-	102	102	102	-	51	51
UNCLASSIFIED (NO DATA)-----	-	-	-	5	5	5	-	5	-	-	-	66	66	66	-	13	13
TOTAL OR AVERAGE-----	-	-	-	27	27	27	18	45	-	-	-	470	470	470	-	17	17
PELVIC REGION:																	
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	9	9	9	2	11	-	-	-	135	135	135	-	15	15
HERNIA (NOT DISC)-----	-	-	16	-	16	16	-	16	-	-	800	-	800	800	50	-	50
STRAIN/SPRAIN-----	-	-	1	12	13	13	4	17	-	-	50	108	158	158	50	9	12
MULTIPLE INJURIES-----	-	-	-	1	1	1	-	1	-	-	-	90	90	90	-	90	90
UNCLASSIFIED (NO DATA)-----	-	-	-	3	3	3	1	4	-	-	-	58	58	58	-	19	19
TOTAL OR AVERAGE-----	-	-	17	25	42	42	8	50	-	-	850	391	1,241	1,241	50	16	30
SHOULDER(S):																	
CONTUSION OR BRUISE-----	-	-	-	8	8	8	3	11	-	-	-	254	254	254	-	32	32
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DISLOCATION-----	-	-	-	5	5	5	2	7	-	-	-	60	60	60	-	12	12
ELECT. BURN (CONTACT)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	43	43	43	22	65	-	-	-	953	953	953	-	22	22
MULTIPLE INJURIES-----	-	-	-	3	3	3	2	5	-	-	-	169	169	169	-	56	56
UNCLASSIFIED (NO DATA)-----	-	-	-	5	5	5	2	7	-	-	-	276	276	276	-	55	55
TOTAL OR AVERAGE-----	-	-	-	64	64	64	33	97	-	-	-	1,712	1,712	1,712	-	27	27
TRUNK, NEC:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	3	3	3	-	3	-	-	-	163	163	163	-	54	54
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	4	4	4	2	6	-	-	-	62	62	62	-	16	16
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	38	38	38	-	38	38
STRAIN/SPRAIN-----	-	-	-	4	4	4	4	8	-	-	-	162	162	162	-	40	40
MULTIPLE INJURIES-----	-	-	-	2	2	2	1	3	-	-	-	83	83	83	-	42	42
UNCLASSIFIED (NO DATA)-----	-	-	-	2	2	2	-	2	-	-	-	32	32	32	-	16	16
TOTAL OR AVERAGE-----	-	-	-	16	16	16	8	24	-	-	-	540	540	540	-	34	34
THIGH:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	3	3	3	4	7	-	-	-	26	26	26	-	9	9
STRAIN/SPRAIN-----	-	-	-	1	1	1	1	2	-	-	-	10	10	10	-	10	10
TOTAL OR AVERAGE-----	-	-	-	4	4	4	6	10	-	-	-	36	36	36	-	9	9

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
KNEE: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- DISLOCATION----- FRACTURE----- SCRATCH/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	30 5 1 2 - 58 4 3 5	30 5 1 2 - 58 4 3 5	30 5 1 2 - 58 4 3 5	13 4 - - 1 17 3 1 3	43 9 1 2 1 75 7 4 8	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	316 36 10 50 - 2,018 84 127 140	316 36 10 50 - 2,018 84 127 140	316 36 10 50 - 2,018 84 127 140	- - - - - - - - - - -	11 7 10 25 - 35 21 42 28	11 7 10 25 - 35 21 42 28
LOWER LEG: BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- SCRATCH/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	1 - 2 1 3 1 4 -	1 - 2 1 3 1 4 -	1 - 2 1 3 1 4 -	- 1 3 4 - 1 - 1	1 1 5 5 3 2 4 1	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -	61 - - 4 5 166 6 39 -	61 - - 4 5 166 6 39 -	61 - - 4 5 166 6 39 -	- - - - - - - - - -	61 - - 2 5 55 6 10 -	61 - - 2 5 55 6 10 -
ANKLE: BURN/SCALD (NOT CHEM.)----- CONTUSION OR BRUISE----- FRACTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	- - - - - - -	1 2 10 64 1 -	1 2 10 64 1 -	1 2 10 64 1 -	1 1 - 14 1 1	2 3 10 78 1 1	- - - - - - -	- - - - - - -	- - - - - - -	7 4 761 669 26 -	7 4 761 669 26 -	7 4 761 669 26 -	- - - - - - -	7 2 76 10 26 -	7 2 76 10 26 -
FOOT: BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	4 1 19 1 12 8 1 2	4 1 19 1 12 8 1 2	4 1 19 1 12 8 1 2	3 1 12 5 13 6 1 -	7 1 31 6 13 14 2 2	- - - - - - - -	- - - - - - - -	- - - - - - - -	119 25 334 4 444 41 46 16	119 25 334 4 444 41 46 16	119 25 334 4 444 41 46 16	- - - - - - - -	30 25 18 4 37 5 46 8	30 25 18 4 37 5 46 8
TOE(S): FRACTURE----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	9 2	9 2	9 2	1 -	10 2	- - -	- - -	- - -	188 30	188 30	188 30	- - -	21 15	21 15
	-	-	-	11	11	11	1	12	-	-	-	218	218	218	-	20	20

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
LOWER EXTREMITIES, NEC: BURN/SCALD (NOT CHEM.)----	-	-	-	1	1	1	1	2	-	-	-	8	8	8	-	8	8
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	5	5	5	2	7	-	-	-	81	81	81	-	16	16
CUT OR PUNCTURE-----	-	-	-	6	6	6	10	16	-	-	-	41	41	41	-	7	7
DERMATITIS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	3	3	3	-	3	-	-	-	378	378	378	-	126	126
SCRATCH/ABRASION-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	6	6	6	2	8	-	-	-	60	60	60	-	10	10
MULTIPLE INJURIES-----	-	-	-	2	2	2	3	5	-	-	-	165	165	165	-	82	82
UNCLASSIFIED (NO DATA)----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE-----	-	-	-	24	24	24	23	47	-	-	-	735	735	735	-	31	31
BODY SYSTEMS:																	
ASPHYXIATION/DROWNING-----	2	-	-	1	1	3	-	3	12,000	-	-	19	19	12,019	-	19	4,006
ELECTRIC SHOCK-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
POISONING (SYSTEMIC)-----	-	-	-	7	7	7	9	16	-	-	-	45	45	45	-	6	6
TOTAL OR AVERAGE-----	2	-	-	12	12	14	11	25	12,000	-	-	93	93	12,093	-	8	864
MULTIPLE PARTS OF BODY:																	
BURN/SCALD (NOT CHEM.)----	-	-	-	6	6	6	1	7	-	-	-	113	113	113	-	19	19
CHEMICAL BURN-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	-	-	-	4	4	4	6	10	-	-	-	12	12	12	-	3	3
CUT OR PUNCTURE-----	-	-	-	2	2	2	2	4	-	-	-	7	7	7	-	4	4
DERMATITIS-----	-	-	-	1	1	1	2	3	-	-	-	24	24	24	-	24	24
FRACTURE-----	-	-	-	2	2	2	-	2	-	-	-	97	97	97	-	48	48
RADIATION/ULTRA VIOLET-----	-	-	-	2	2	2	-	2	-	-	-	35	35	35	-	18	18
STRAIN/SPRAIN-----	-	-	-	21	21	21	6	27	-	-	-	763	763	763	-	36	36
MULTIPLE INJURIES-----	-	-	-	25	25	25	8	33	-	-	-	1,038	1,038	1,038	-	42	42
OTHER INJURY, NEC-----	-	-	-	2	2	2	-	2	-	-	-	102	102	102	-	51	51
UNCLASSIFIED (NO DATA)----	-	-	-	12	12	12	3	15	-	-	-	701	701	701	-	58	58
TOTAL OR AVERAGE-----	-	-	-	78	78	78	30	108	-	-	-	2,893	2,893	2,893	-	37	37

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE:-----	-	-	11	-	11	11	-	11	-	-	2,300	-	2,300	2,300	209	-	209
AMPUTATION/ENUCLEATION-----	2	-	-	1	1	3	-	3	12,000	-	-	19	19	12,019	-	19	4,006
ASPHYXIATION/DROWNING-----	-	-	-	26	26	26	34	60	-	-	-	532	532	532	-	20	20
BURN/SCALD (NOT CHEM.)-----	-	-	-	9	9	9	30	39	-	-	-	50	50	50	-	6	6
CHEMICAL BURN-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONCUSSION (CEREBRAL)-----	1	-	-	130	130	131	122	253	6,000	-	-	1,488	1,488	7,488	-	11	57
CONTUSION OR BRUISE-----	-	-	-	108	108	108	321	429	-	-	-	1,460	1,460	1,460	-	14	14
CUT OR PUNCTURE-----	-	-	-	1	1	1	7	8	-	-	-	24	24	24	-	24	24
DERMATITIS-----	-	-	-	7	7	7	3	10	-	-	-	72	72	72	-	10	10
DISLOCATION-----	-	-	-	23	23	23	66	89	-	-	-	44	44	44	-	2	2
DUST IN EYE-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
ELECTRIC SHOCK-----	-	-	-	1	1	1	2	3	-	-	-	29	29	29	-	29	29
ELECT. BURN (CONTACT)-----	-	-	-	87	87	87	54	141	-	-	-	3,698	3,698	3,698	-	43	43
FRACTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HEAT/SUNSTROKE-----	-	-	-	16	16	16	-	16	-	-	800	-	800	800	50	-	50
HERNIA (NOT DISC)-----	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POISONING (SYSTEMIC)-----	-	-	-	7	7	7	9	16	-	-	-	45	45	45	-	6	6
RADIATION/ULTRA VIOLET-----	-	-	-	9	9	9	6	15	-	-	-	49	49	49	-	5	5
SCRATCH/ABRASION-----	-	-	-	7	7	7	27	34	-	-	-	23	23	23	-	3	3
STRAIN/SPRAIN-----	-	-	1	609	610	610	230	840	-	-	50	14,299	14,349	14,349	50	23	24
MULTIPLE INJURIES-----	-	-	-	76	76	76	69	145	-	-	-	2,508	2,508	2,508	-	33	33
OTHER INJURY, NEC-----	-	-	-	12	12	12	9	21	-	-	-	301	301	301	-	25	25
UNCLASSIFIED (NO DATA)-----	-	-	-	76	76	76	27	103	-	-	-	2,229	2,229	2,229	-	29	29
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	
UNDERGROUND MINES:																																		
UNDERGROUND:																																		
COLORADO-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	6	2	-	1	-	-	-	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	1	-	-	-	-	-	-	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6	-	1	2	-	-	-	-	-	
NEW MEXICO-----	-	1	-	-	-	-	-	-	-	1	-	-	-	-	2	1	-	-	1	-	-	-	-	8	7	-	1	4	-	-	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	3	4	-	6	6	-	-	-	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	3	-	1	-	-	-	-	-	-	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	2	-	1	1	-	-	-	-	-	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	-	15	22	-	2	10	-	-	-	-	-	-	
TOTAL-----	-	2	-	-	-	-	-	-	-	2	-	1	-	2	5	2	-	5	7	-	3	1	-	42	56	-	16	24	-	-	-	-	-	
SURFACE AT UG:																																		
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	-	-	-	-	-	-	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	-	1	1	-	-	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	-	-	-	-	-	-	
WYOMING-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	
TOTAL-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14	-	5	3	-	-	-	-	-	-	
TOTAL UNDERGROUND:																																		
COLORADO-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	6	2	-	1	-	-	-	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	1	-	-	-	-	-	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	1	-	-	-	-	-	-	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	-	1	3	-	-	-	-	-	
NEW MEXICO-----	-	1	-	-	-	-	-	-	-	1	-	1	-	-	2	1	-	-	1	-	-	-	-	12	12	-	2	5	-	-	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6	-	7	6	-	-	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	4	1	-	-	-	-	-	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	2	-	1	1	-	-	-	-	-	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	15	26	-	2	10	-	-	-	-	-	
TOTAL-----	-	2	1	-	-	-	-	-	-	2	-	1	-	2	5	2	-	5	7	-	3	1	-	52	70	-	21	27	-	-	-	-	-	-

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
COLORADO-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	-	-	-	-	-	-	-	-	-	1	-	18	4		
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
ILLINOIS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	1	-	-	3	5	2		
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2		
IOWA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
LOUISIANA-----	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	-	-	-	1	-	-	-	-	-	11	1	4		
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MONTANA-----	-	1	3	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	-	-	-	-	-	-	-	1	2	7	16	7	16		
NEW MEXICO-----	-	4	3	-	-	-	-	-	-	-	-	-	-	-	3	1	-	2	2	-	2	-	-	-	-	1	-	23	18	23	18		
NEW YORK-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	5	2	-	3	1	-	-	-	-	-	-	-	-	20	15	20	15		
OHIO-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	-	2	1	-	-	-	-	-	-	14	5	14	5		
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	1	1		
TEXAS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	3	6		
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-		
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
WYOMING-----	-	7	8	-	1	-	-	-	-	-	-	-	-	-	5	7	-	7	2	-	2	6	-	-	1	1	2	45	66	45	66		
TOTAL-----	-	20	19	-	1	-	-	-	-	-	-	-	-	-	23	17	-	26	9	-	6	7	-	1	1	-	4	3	2	155	149	155	
SURFACE AT UG:																																	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2		
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
LOUISIANA-----	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
NEW MEXICO-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	10	8	10		
NEW YORK-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	5	3	5		
OHIO-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-	10	2	10		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	5		
TOTAL-----	-	8	1	-	-	-	-	-	-	-	-	-	-	-	2	5	-	10	4	-	1	-	-	1	-	-	-	-	37	29	37	29	
TOTAL UNDERGROUND:																																	
COLORADO-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	2	-	-	-	-	-	-	-	1	-	18	6	18		
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2		
ILLINOIS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	1	-	-	-	3	5		
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
IOWA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
LOUISIANA-----	-	2	2	-	-	-	-	-	-	-	-	-	-	-	2	1	-	6	-	-	-	-	-	-	-	-	-	-	14	1	7		
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MONTANA-----	-	1	3	-	-	-	-	-	-	-	-	-	-	-	2	5	-	1	2	-	-	-	-	-	-	-	-	-	10	22	10		
NEW MEXICO-----	-	7	3	-	-	-	-	-	-	-	-	-	-	-	3	2	-	2	3	-	3	-	-	-	-	1	-	-	33	26	33		
NEW YORK-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	5	2	-	5	2	-	-	-	-	-	-	-	-	-	25	18	25		
OHIO-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	6	-	2	1	-	-	-	-	-	-	-	24	7	24		
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		
TEXAS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	3	6		
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
WYOMING-----	-	7	8	-	1	-	-	-	-	-	-	-	-	-	5	7	-	9	2	-	2	6	-	-	1	1	2	47	71	47	71		
TOTAL-----	-	28	20	-	1	-	-	-	-	-	-	-	-	-	25	22	-	36	13	-	7	7	-	2	1	-	4	3	2	192	178	192	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	
SURFACE MINES:																																		
OPEN PIT:																																		
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	24	-	10	8	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	15	-	4	5	-	-	-	
IDAHO-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	7	-	-	-	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	-	2	3	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	-	-	-	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	-	4	-	-	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
TOTAL-----	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	70	-	22	31	-	-	-	-
DREDGE:																																		
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
SURFACE MINES:																																	
OPEN PIT:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4	1	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5
ARKANSAS-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	
CALIFORNIA-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	1	-	-	-	-	-	-	-	-	2	-	15	4	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	7	11	-	14	11	-	2	1	-	1	-	-	1	-	1	59	62	
GEORGIA-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	4	9	-	-	-	-	1	-	-	1	-	22	38		
IDAHO-----	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	1	3	-	1	-	-	-	-	-	-	1	-	12	13	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
IOWA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3	1	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	1	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	
MONTANA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	7	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
NEW MEXICO-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	1	1	-	4	5	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	
NORTH CAROLINA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	4	2	-	-	-	-	-	-	-	-	1	-	12	18	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	2	
OKLAHOMA-----	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	6	8	
SOUTH CAROLINA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	1	-	-	-	-	-	-	-	-	-	-	7	7	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
TEXAS-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	5	-	-	-	-	1	-	-	-	-	-	12	10		
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	3	1	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
TOTAL-----	-	24	11	-	-	-	-	1	-	-	-	-	-	-	-	23	33	-	51	28	-	6	2	-	1	2	-	1	8	-	189	189	
DREDGE:																																	
NEW MEXICO-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	3	4	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
TOTAL-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	5	4	-	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	
TOTAL SURFACE:																																		
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	24	-	10	8	-	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	15	-	4	5	-	-	-	-	
IDAHO-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	7	-	-	-	-	-	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	-	2	3	-	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	1	-	-	-	-	-	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	-	4	-	-	-	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
TOTAL-----	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	70	-	22	31	-	-	-	-	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
TOTAL SURFACE:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	1		
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	2	5		
ARKANSAS-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	1	-	-	-	-	-	-	1	-	-	15	4		
CALIFORNIA-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-		
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	7	11	-	14	11	-	2	1	-	1	-	-	1	-	-	59	62	
GEORGIA-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	4	9	-	1	-	-	1	-	-	1	-	-	22	38	
IDAHO-----	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	1	3	-	-	-	-	-	-	-	-	-	-	12	13	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
IOWA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3	1	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	
MONTANA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	7	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
NEW MEXICO-----	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	-	1	-	-	-	-	-	1	2	-	-	7	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3	
NORTH CAROLINA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	4	2	-	-	-	-	-	-	-	1	-	-	14	18	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	
OKLAHOMA-----	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	6	
SOUTH CAROLINA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	7	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
TEXAS-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	5	-	-	-	-	1	-	-	-	-	-	-	12	10	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	3	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
TOTAL-----	-	25	13	-	-	-	-	1	-	-	-	-	-	-	-	24	33	-	51	29	-	6	2	-	1	2	-	1	9	-	194	193	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RTB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
TOTAL MINING:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	-	-	-	-	-	-	
COLORADO-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	6	3	-	-	1	-	-	-	-	
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	24	-	10	8	-	-	-	-	
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	16	-	4	5	-	-	-	-	-	
IDAHO-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	7	-	-	-	-	-	
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	1	-	-	-	-	
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	1	-	-	-	-	-	
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	4	7	-	1	3	-	-	-	2	
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
NEW MEXICO-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	13	14	-	2	1	-	-	-	-	
NEW YORK-----	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	4	6	-	8	6	-	-	-	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	-	2	3	-	-	-	-	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	4	5	-	4	2	-	-	-	-	
OKLAHOMA-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	1	-	-	-	-	-	
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	-	-	4	-	-	-	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	2	-	1	1	-	-	-	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	-	
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	-	-	15	27	-	2	10	-	-	-	-	
TOTAL-----	-	2	3	-	-	-	-	-	2	-	-	2	-	1	2	5	2	5	7	-	3	1	-	115	140	-	43	58	-	-	-	2	
INDEPENDENT SHOPS:																																	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
TOTAL MINING:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4		
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
ARKANSAS-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	15		
CALIFORNIA-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	5	2	-	-	-	-	-	-	-	-	-	-	19		
COLORADO-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5	-	-	-	-	-	-	-	-	-	-	-	1		
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	7	11	-	14	11	-	2	1	-	-	1	-	-	-	-	59		
GEORGIA-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	5	9	-	-	-	1	-	-	-	-	-	-	24		
IDAHO-----	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	1	3	-	-	-	-	-	-	-	-	-	-	12		
ILLINOIS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	1	-	-	-	3		
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
IOWA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3		
LOUISIANA-----	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	6	-	-	-	-	1	-	-	-	-	-	-	14		
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	4		
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
MONTANA-----	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	5	5	-	3	2	-	-	-	-	-	-	-	1	-	2	17		
NEVADA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEW MEXICO-----	-	8	6	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-	4	4	-	4	-	-	1	-	-	2	2	-	40		
NEW YORK-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	7	2	-	-	-	-	-	-	-	-	-	-	28		
NORTH CAROLINA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	4	2	-	-	-	-	-	-	-	-	-	-	14		
OHIO-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	7	-	-	2	1	-	-	-	-	-	-	-	26		
OKLAHOMA-----	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	6		
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	1		
SOUTH CAROLINA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	7		
TENNESSEE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TEXAS-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	5	-	-	-	-	-	1	-	-	-	-	-	12		
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	3		
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	6		
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
WYOMING-----	-	7	8	-	1	-	-	-	-	-	-	-	-	-	-	5	8	-	9	2	-	2	6	-	1	-	1	2	-	-	47		
TOTAL-----	-	53	33	-	1	-	-	1	-	-	-	-	-	-	-	49	55	-	87	42	-	13	9	-	3	3	-	5	12	2	386		
INDEPENDENT SHOPS:																																	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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[illegible]

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
PROCESSING PLANTS:																																	
ALABAMA-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	-	-	-	-	-	-	-	-	15	7		
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
CALIFORNIA-----	-	10	2	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-	19	3	-	5	1	-	1	-	-	2	6	94	55		
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	7	-		
CONNECTICUT-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	11	-		
FLORIDA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	-	10	8	-	2	-	-	-	-	-	-	1	39	46		
GEORGIA-----	-	10	7	-	-	-	-	-	-	-	-	-	-	-	-	12	18	-	30	-	-	3	7	-	-	2	-	1	7	173	191		
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	53	4	-	-	-	-	-	-	-	-	-	13	4		
ILLINOIS-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	2	10	-	9	2	-	1	-	-	1	-	-	-	-	47	22		
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	4	-		
KANSAS-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	2	-	1	-	-	-	-	-	-	-	24	15		
KENTUCKY-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	-	-	1	-	-	-	-	6	3		
LOUISIANA-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	3	-	-	-	-	-	-	-	-	-	15	8		
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MISSISSIPPI-----	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	7	-	-	-	-	1	-	-	-	1	6	19		
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	2	6	5		
MONTANA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1	-	-	-	1	-	-	-	-	-	11	11		
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-		
NEVADA-----	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	5	2	-	8	-	-	1	-	-	-	2	1	-	-	51	10		
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	5	-		
NEW MEXICO-----	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	9	5	-	-	-	-	-	-	-	-	3	25	24		
NEW YORK-----	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	3	3	-	8	1	-	-	-	-	1	-	-	-	-	32	16		
NORTH CAROLINA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	9	-	10	6	-	-	-	-	-	-	-	-	1	25	38		
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
OHIO-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	7	2		
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	3	3		
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-		
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	6	-		
SOUTH CAROLINA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	7	2	-	-	-	-	-	-	-	-	-	16	18		
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-																				

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HAND TOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
TOTAL MINES AND PLNTS:																																	
ALABAMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	9	4	-	1	-	-	-	-	-	
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CALIFORNIA	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	-	7	11	-	-	-	-	
COLORADO	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	8	3	-	1	-	-	-	-	-	
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	
FLORIDA	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	38	44	-	13	16	-	2	-	-	
GEORGIA	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	85	105	-	18	34	-	1	-	-	
IDAHO	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	3	9	-	-	-	-	
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	29	8	-	2	1	-	-	-	1	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	-	-	-	-	-	-	-	
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	11	-	2	3	-	-	-	-	-	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	1	-	-	-	-	-	
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	1	4	-	-	-	-	-	
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	-	-	1	-	-	-	-	-	
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	1	-	-	-	-	-	-	
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	-	-	-	-	-	10	12	-	1	5	-	-	-	2	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	
NEVADA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	4	-	3	4	-	2	-	-	-	
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
NEW MEXICO	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	22	22	-	4	11	-	-	-	-	-	
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	17	12	-	10	11	-	-	-	-	-	
NORTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	20	-	6	9	-	-	-	-	
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	8	6	-	4	2	-	-	-	-	-	
OKLAHOMA	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTH CAROLINA	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13	-	1	3	-	-	-	-	-	
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	-	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	16	7	-	2	3	-	-	-	-	-	
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	16	-	4	8	-	1	-	-	-	
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	8	6	-	3	4	-	-	-	-	1	
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	1	-	-	-	-	-	-	
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	1	-	2	2	-	-	-	-	-	
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
WYOMING	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	3	-	3	6	-	1	-	37	62	-	3	30	-	-	-	1	-	
TOTAL	-	11	4	-	-	-	-	-	4	-	-	2	-	3	1	2	5	3	-	5	7	-	6	4	-	500	405	-	96	173	-	6	7
OFFICE:																																	
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
TOTAL MINES AND PLNTS:																																	
ALABAMA	-	2	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	4	-	-	-	-	-	-	-	-	-	-	19	8			
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1		
ARKANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	1	-	3	5			
CALIFORNIA	-	14	2	-	-	-	-	-	-	-	-	-	-	-	10	9	-	24	4	-	5	1	-	-	2	8	-	109	59				
COLORADO	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	7	2	-	2	-	-	-	-	-	-	26	7				
CONNECTICUT	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	12	-			
FLORIDA	-	5	6	-	-	-	-	-	-	-	-	-	-	-	12	14	-	24	19	-	4	1	-	-	3	-	2	98	108				
GEORGIA	-	13	8	-	-	-	-	-	-	-	-	-	-	-	13	25	-	58	39	-	4	7	-	1	2	-	1	8	197	230			
IDAHO	-	2	1	-	-	-	-	-	1	-	-	-	-	-	6	3	-	5	5	-	-	-	-	-	-	-	-	25	17				
ILLINOIS	-	3	2	-	-	-	-	-	-	-	-	-	-	-	3	11	-	9	3	-	1	-	-	1	-	2	-	50	27				
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4	2			
IOWA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	6	-			
KANSAS	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	2	-	1	-	-	-	-	-	-	28	17				
KENTUCKY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	9	4				
LOUISIANA	-	6	2	-	-	-	-	-	-	-	-	-	-	-	2	2	-	14	3	-	-	-	1	-	1	-	-	29	15				
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1			
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	4	1			
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	5	-			
MISSISSIPPI	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	7	-	-	-	-	1	-	-	2	-	6	21			
MISSOURI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	9	6				
MONTANA	-	2	4	-	-	-	-	-	-	-	-	-	-	-	6	6	-	5	3	-	-	-	1	-	1	1	2	28	33				
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-			
NEVADA	-	-	1	-	1	-	-	-	-	-	-	-	-	-	5	3	-	8	-	-	1	-	-	2	-	1	-	51	13				
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	5	-	-			
NEW MEXICO	-	12	7	-	-	-	-	-	-	-	-	-	-	-	4	4	-	13	9	-	4	-	-	2	5	-	65	59					
NEW YORK	-	5	2	-	-	-	-	-	1	-	-	-	-	-	8	5	-	15	3	-	-	-	-	2	-	-	60	34					
NORTH CAROLINA	-	4	-	-	-	-	-	-	-	-	-	-	-	-	2	16	-	14	8	-	-	-	-	1	2	-	39	56					
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-			
OHIO	-	5	1	-	-	-	-	-	-	-	-	-	-	-	3	1	-	10	-	-	2	1	-	-	-	-	-	33	11				
OKLAHOMA	-	3	3	-	-	-	-	-	-	-	-	-	-	-	1	3	-	3	2	-	-	-	-	-	-	-	-	9	11				
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-			
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	1	-	-	-	7	1	-			
SOUTH CAROLINA	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	3	-	10	3	-	-	-	-	-	-	-	-	23	3	-			
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	3	3	-			
TENNESSEE	-	2	1	-	1	-	-	-	-	-	-	-	-	-	2	7	-	4	4	-	-	-	2	-	-	-	-	30	22	-			
TEXAS	-	3	2	-	-	-	-	-	-	-	-	-	-	-	7	2	-	11	4	-	1	-	2	-	1	-	-	54	36	-			
UTAH	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	3	-	6	1	-	1	-	-	-	-	1	-	20	16	-			
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	1	1	-	-	-	-	-	18	2	-			
VIRGINIA	-	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	1	-	-	-	21	5	-			
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	6	-			
WYOMING	-	13	9	-	1	-	-	-	-	-	-	-	-	-	9	16	-	22	15	-	3	7	-	1	-	2	3	95	154				
TOTAL	-	114	57	-	3	-	-	2	-	-	-	-	-	-	111	141	-	296	136	-	31	19	-	9	11	1	18	37	3	1,216	1,011		
OFFICE:																																	
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-		
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-		
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-		
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-		
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-		
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3	-	-	-	-	-	-	-	2	-	6	9	-		

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RTB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HAND TOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL
GRAND TOTAL:																																	
ALABAMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	9	4	-	1	-	-	-	-	-	
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CALIFORNIA	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	7	11	-	-	-	-	-	
COLORADO	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	8	3	1	-	-	-	-	-	-	
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	
FLORIDA	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	38	44	13	16	-	2	-	-	-	
GEORGIA	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	86	105	18	34	-	1	1	-	-	-	
IDAHO	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	3	9	-	-	-	-	-	-	
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	29	8	2	1	-	-	-	-	-	-	
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	-	-	-	-	-	-	-	
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	-	-	-	-	-	
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	11	2	3	-	-	-	-	-	-	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	-	-	-	-	-	-	
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4	1	4	-	-	-	-	-	-	
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	-	1	-	-	-	-	-	-	
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	1	1	-	-	-	-	-	-	
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-	-	-	-	-	10	12	-	5	-	-	-	-	-	-	
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	
NEVADA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	4	3	4	-	2	-	-	-	-	
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
NEW MEXICO	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	22	22	4	11	-	-	-	-	-	
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NORTH CAROLINA	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	17	13	10	11	-	-	-	-	-	-	
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	20	6	9	-	-	-	-	-	-	
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
OKLAHOMA	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	8	6	4	2	-	-	-	-	-	-	
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	-	-	-	-	-	-	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
SOUTH CAROLINA	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	10	13	1	3	-	-	-	-	-	-	
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	16	7	2	3	-	-	-	-	-	-	
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	16	7	4	8	-	1	-	-	-	
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	3	4	-	-	-	-	-	-	
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	1	-	-	-	-	-	-	-	
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	1	2	2	-	-	-	-	-	-	
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
WYOMING	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	3	6	-	1	-	38	63	3	30	-	-	-	-	-
TOTAL	-	11	4	-	-	-	-	-	4	-	-	2	-	3	1	2	5	3	-	5	7	-	6	4	-	503	408	-	96	174	-	6	7

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
GRAND TOTAL:																																	
ALABAMA	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	4	-	-	-	-	-	-	-	-	-	-	19	8		
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
ARKANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	3		
CALIFORNIA	-	14	2	-	-	-	-	-	-	-	-	-	-	-	-	10	9	-	24	4	-	1	-	-	-	-	-	-	8	-	109		
COLORADO	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	7	2	-	-	-	-	-	-	-	-	1	-	26		
CONNECTICUT	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	12		
FLORIDA	-	5	6	-	-	-	-	-	-	-	-	-	-	-	-	12	14	-	24	19	-	4	1	-	-	-	-	-	2	-	98		
GEORGIA	-	13	8	-	-	-	-	-	-	-	-	-	-	-	-	13	25	-	59	39	-	4	7	-	1	2	-	1	8	-	199		
IDAHO	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	6	3	-	6	3	-	-	-	-	-	-	-	-	-	-	26		
ILLINOIS	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	3	11	-	9	4	-	1	-	-	1	-	-	2	-	-	50		
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
IOWA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	6		
KANSAS	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	3	-	1	-	-	-	-	-	-	-	-	28		
KENTUCKY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	1	-	-	-	-	-	9		
LOUISIANA	-	6	2	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	14	3	-	-	-	1	-	-	1	-	-	-	30		
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5		
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	9		
MISSISSIPPI	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	7	-	-	-	-	-	-	-	-	2	-	6		
MISSOURI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	9		
MONTANA	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	6	6	-	5	3	-	-	-	1	-	-	-	1	1	2	28		
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
NEVADA	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	5	3	-	8	-	-	1	-	-	-	-	2	-	-	-	51		
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5		
NEW MEXICO	-	12	7	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	13	9	-	4	-	1	-	-	2	5	-	65			
NEW YORK	-	5	2	-	-	-	-	1	-	-	-	-	-	-	-	8	5	-	15	4	-	-	-	1	-	-	2	-	-	60			
NORTH CAROLINA	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	16	-	14	8	-	-	-	-	-	-	-	-	1	2	39		
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
OHIO	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	10	-	-	2	1	-	-	-	-	-	-	-	33		
OKLAHOMA	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	3	2	-	-	-	-	-	-	-	1	-	-	9		
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5		
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-	7		
SOUTH CAROLINA	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	10	3	-	-	-	-	-	-	-	-	-	-	23		
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	3		
TENNESSEE	-	2	1	-	1	-	-	-	-	-	-	-	-	-	-	2	7	-	4	4	-	-	-	2	-	-	-	-	-	-	30		
TEXAS	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	8	2	-	11	4	-	1	-	-	2	-	-	-	-	-	55		
UTAH	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	6	1	-	1	-	-	-	1	-	-	-	-	20		
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	1	-	-	-	-	-	-	-	18		
VIRGINIA	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	1	-	-	-	-	-	21		
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6		
WYOMING	-	13	9	-	1	-	-	-	-	-	-	-	-	-	-	9	16	-	22	15	-	3	7	-	1	-	2	3	-	-	96		
TOTAL	-	114	57	-	3	-	-	2	-	-	-	-	-	-	-	112	141	-	298	139	-	31	19	-	9	11	1	18	39	3	1,222		

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
COLORADO-----	-	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	15	-	2	-	-	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	-	-	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	31	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	8	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	3	-	44	-	-	-
NEW MEXICO-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	430	-	41	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	54	-	32	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	30	-	16	-	-	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	3	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	995	-	95	-	-	-
TOTAL-----	-	15	-	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	1,581	-	275	-	-
SURFACE AT UG:																						
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245	-	31	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	354	-	93	-	-	-
TOTAL UNDERGROUND:																						
COLORADO-----	-	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	15	-	2	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	-	-	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	31	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	8	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	99	-	44	-	-	-
NEW MEXICO-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	675	-	72	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	56	-	34	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	30	-	76	-	-	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	3	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	995	-	95	-	-	-
TOTAL-----	-	15	-	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	1,935	-	368	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
COLORADO-----	-	30	-	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	336
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	3	-	67
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161
IOWA-----	-	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
LOUISIANA-----	-	8	-	-	-	-	-	-	-	-	-	113	-	189	-	-	-	88	-	-	-	411
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
MONTANA-----	-	3	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	4	12,000	109
NEW MEXICO-----	-	389	-	-	-	-	-	-	-	-	-	240	-	26	-	39	-	-	-	12	-	1,187
NEW YORK-----	-	5	-	-	-	-	-	-	-	-	-	150	-	221	-	-	-	-	-	-	-	463
OHIO-----	-	139	-	-	-	-	-	-	-	-	-	35	-	71	-	19	-	-	-	-	-	319
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	156
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
WYOMING-----	-	122	-	4	-	-	-	-	-	-	-	66	-	235	-	182	-	-	-	30	-	1,956
TOTAL-----	-	743	-	4	-	-	-	-	-	-	-	761	-	986	-	240	-	88	-	49	12,000	5,293
SURFACE AT UG:																						
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	2
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
LOUISIANA-----	-	10	-	-	-	-	-	-	-	-	-	-	-	99	-	-	-	-	-	-	-	111
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	101
NEW MEXICO-----	-	250	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	5	-	-	-	560
NEW YORK-----	-	75	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-	-	-	144
OHIO-----	-	62	-	-	-	-	-	-	-	-	-	1	-	13	-	-	-	-	-	-	-	136
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	54
TOTAL-----	-	397	-	-	-	-	-	-	-	-	-	2	-	237	-	29	-	5	-	-	-	1,117
TOTAL UNDERGROUND:																						
COLORADO-----	-	30	-	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	336
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	2
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	3	-	67
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161
IOWA-----	-	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
LOUISIANA-----	-	18	-	-	-	-	-	-	-	-	-	113	-	288	-	-	-	88	-	-	-	522
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
MONTANA-----	-	3	-	-	-	-	-	-	-	-	-	54	-	5	-	-	-	-	-	4	12,000	210
NEW MEXICO-----	-	639	-	-	-	-	-	-	-	-	-	240	-	26	-	68	-	5	-	12	-	1,747
NEW YORK-----	-	80	-	-	-	-	-	-	-	-	-	150	-	286	-	-	-	-	-	-	-	607
OHIO-----	-	201	-	-	-	-	-	-	-	-	-	36	-	84	-	19	-	-	-	-	-	455
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	156
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
WYOMING-----	-	122	-	4	-	-	-	-	-	-	-	66	-	289	-	182	-	-	-	30	-	2,010
TOTAL-----	-	1,140	-	4	-	-	-	-	-	-	-	763	-	1,223	-	269	-	93	-	49	12,000	6,410

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
SURFACE MINES:																						
OPEN PIT:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	-	28	-	-	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	694	-	120	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	-	231	-	-	-
IDAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	-	37	-	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	17	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	2	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	7	-	-	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,330	-	443	-	-	-
DREDGE:																						
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
SURFACE MINES:																						
OPEN PIT:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25
ARKANSAS-----	-	23	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	24
CALIFORNIA-----	-	51	-	-	-	-	-	-	-	-	-	51	-	75	-	-	-	-	-	-	-	298
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	125
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
FLORIDA-----	-	15	-	-	-	-	-	-	-	-	-	44	-	100	-	42	-	-	-	-	-	1,015
GEORGIA-----	-	18	-	-	-	-	-	-	-	-	-	-	-	50	-	-	6	-	-	-	-	478
IDAH-----	-	17	-	-	-	5	-	-	-	-	-	64	-	4	-	-	-	-	-	-	-	233
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
IOWA-----	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	15
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	50
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	10	-	-	-	-	-	317
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	22
MONTANA-----	-	7	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-	-	-	40
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	25	-	-	-	5	-	33
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	287	-	-	-	-	-	-	-	288
NORTH CAROLINA-----	-	8	-	-	-	-	-	-	-	-	-	4	-	72	-	-	-	-	-	-	-	120
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	35
OKLAHOMA-----	-	68	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	132
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	27
TEXAS-----	-	452	-	-	-	-	-	-	-	-	-	43	-	133	-	-	-	-	-	-	-	657
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	44
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
TOTAL-----	-	677	-	-	-	5	-	-	-	-	-	562	-	992	-	80	-	6	-	5	-	4,100
DREDGE:																						
NEW MEXICO-----	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	13
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	19

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL SURFACE:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	-	28	-	-	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	694	-	120	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	-	231	-	-	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	-	37	-	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	17	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	2	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	7	-	-	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,344	-	443	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL SURFACE:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25
ARKANSAS-----	-	23	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	24
CALIFORNIA-----	-	51	-	-	-	-	-	-	-	-	-	51	-	75	-	-	-	-	-	-	-	298
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	125
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
FLORIDA-----	-	15	-	-	-	-	-	-	-	-	-	44	-	100	-	42	-	-	-	-	-	1,015
GEORGIA-----	-	18	-	-	-	-	-	-	-	-	-	-	-	50	-	1	-	6	-	-	-	478
IDAHO-----	-	17	-	-	-	5	-	-	-	-	-	64	-	4	-	-	-	-	-	-	-	233
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
IOWA-----	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	15
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	50
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	10	-	-	-	-	-	317
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	22
MONTANA-----	-	7	-	-	-	-	-	-	-	-	-	26	-	2	-	-	-	-	-	-	-	40
NEW MEXICO-----	-	3	-	-	-	-	-	-	-	-	-	2	-	3	-	25	-	-	-	5	-	46
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	287	-	-	-	-	-	-	-	288
NORTH CAROLINA-----	-	8	-	-	-	-	-	-	-	-	-	4	-	72	-	-	-	-	-	-	-	126
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	35
OKLAHOMA-----	-	68	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	132
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	27
TEXAS-----	-	452	-	-	-	-	-	-	-	-	-	43	-	133	-	-	-	-	-	-	-	657
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	44
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
TOTAL-----	-	680	-	-	-	5	-	-	-	-	-	564	-	992	-	80	-	6	-	5	-	4,119

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	-	28	-	-	-
COLORADO	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	15	-	2	-	-	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	694	-	120	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	-	231	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	-	37	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	16	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	31	-	-	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	8	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	104	-	44	-	-	-
NEW MEXICO	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	683	-	72	-	-	-
NEW YORK	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	56	-	35	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	17	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	50	-	76	-	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	2	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-
VERMONT	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	45	-	-	-	-	-
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	7	-	-	-
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	995	-	95	-	-	-
TOTAL	-	15	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	3,279	-	811	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25
ARKANSAS-----	-	23	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	24
CALIFORNIA-----	-	51	-	-	-	-	-	-	-	-	-	51	-	75	-	-	-	-	-	-	-	298
COLORADO-----	-	30	-	-	-	-	-	-	-	-	-	43	-	363	-	-	-	-	-	-	-	461
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
FLORIDA-----	-	15	-	-	-	-	-	-	-	-	-	44	-	100	-	42	-	-	-	-	-	1,015
GEORGIA-----	-	18	-	-	-	-	-	-	-	-	-	1	-	51	-	1	-	6	-	-	-	480
IDAHO-----	-	17	-	-	-	5	-	-	-	-	-	64	-	4	-	-	-	-	-	-	-	233
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	3	-	67
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177
IOWA-----	-	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	15
LOUISIANA-----	-	18	-	-	-	-	-	-	-	-	-	113	-	288	-	-	-	88	-	-	-	522
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	50
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	10	-	-	-	-	-	348
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	22
MONTANA-----	-	10	-	-	-	-	-	-	-	-	-	80	-	7	-	-	-	-	-	4	12,000	250
NEW MEXICO-----	-	642	-	-	-	-	-	-	-	-	-	242	-	29	-	93	-	5	-	17	-	1,793
NEW YORK-----	-	80	-	-	-	-	-	-	-	-	-	150	-	573	-	-	-	-	-	-	-	895
NORTH CAROLINA-----	-	8	-	-	-	-	-	-	-	-	-	4	-	72	-	-	-	-	-	-	-	126
OHIO-----	-	201	-	-	-	-	-	-	-	-	-	36	-	99	-	19	-	-	-	-	-	490
OKLAHOMA-----	-	68	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	132
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	27
TEXAS-----	-	452	-	-	-	-	-	-	-	-	-	43	-	133	-	-	-	-	-	-	-	657
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	2	-	-	-	-	-	200
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
WYOMING-----	-	122	-	4	-	-	-	-	-	-	-	66	-	289	-	182	-	-	-	30	-	2,010
TOTAL-----	-	1,820	-	4	-	5	-	-	-	-	-	1,327	-	2,215	-	349	-	99	-	54	12,000	10,529

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ALABAMA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	8	-	93	-	4	-	-	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	646	-	176	-	-	-
COLORADO-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	311	-	15	-	7	-
GEORGIA-----	-	33	-	-	-	-	-	-	-	-	-	-	-	-	2	-	926	-	322	-	1	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108	-	1	-	-	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,092	-	8	-	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,107	-	82	-	-	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	4	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	65	-	-	-	-	-
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-
NEVADA-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	931	-	47	-	5	-
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	25	-	-	-	-	-
NEW MEXICO-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	23	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	-	139	-	-	-
NORTH CAROLINA-----	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	-	21	-	-	-
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	3	-	-	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
SOUTH CAROLINA-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
TENNESSEE-----	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	198	-	6	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	829	-	205	-	3	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	-	32	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	3	-	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	1	-	-	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	676	-	34	-	-	-
TOTAL-----	-	94	-	-	-	-	-	-	53	-	-	-	-	-	15	-	8,253	-	1,529	-	16	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ALABAMA-----	-	9	-	-	-	-	-	-	-	-	3	-	237	-	-	-	-	-	-	-	-	356
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
CALIFORNIA-----	-	522	-	-	-	-	-	-	-	-	209	-	263	-	51	-	65	-	9	-	-	1,944
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	12	-	5	-	-	-	-	-	-	53
CONNECTICUT-----	-	10	-	-	-	-	-	-	-	-	-	-	161	-	-	-	-	-	-	-	-	381
FLORIDA-----	-	12	-	-	-	-	-	-	-	-	44	-	365	-	18	-	-	-	-	-	-	772
GEORGIA-----	-	375	-	-	-	-	-	-	-	-	212	-	865	-	37	-	-	-	2	-	-	2,775
IDAHO-----	-	-	-	-	-	-	-	-	-	-	3	-	17	-	-	-	-	-	-	-	-	129
ILLINOIS-----	-	36	-	-	-	-	-	-	-	-	12	-	267	-	8	-	3	-	15	-	-	1,441
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	76
KANSAS-----	-	94	-	-	-	-	-	-	-	-	-	-	182	-	3	-	-	-	-	-	-	1,468
KENTUCKY-----	-	19	-	-	-	-	-	-	-	-	-	-	179	-	-	-	-	-	9	-	-	224
LOUISIANA-----	-	131	-	-	-	-	-	-	-	-	-	-	323	-	-	-	-	-	1	-	-	464
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400
MISSISSIPPI-----	-	19	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	38
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	3	-	67	-	-	-	-	-	-	-	-	89
MONTANA-----	-	-	-	-	-	-	-	-	-	-	100	-	88	-	-	-	4	-	-	-	-	308
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
NEVADA-----	-	-	-	1	-	-	-	-	-	-	48	-	125	-	2	-	-	-	27	-	-	1,200
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	54
NEW MEXICO-----	-	98	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-	-	461
NEW YORK-----	-	105	-	-	-	16	-	-	-	-	77	-	162	-	-	-	4	-	107	-	-	770
NORTH CAROLINA-----	-	109	-	-	-	-	-	-	-	-	22	-	130	-	-	-	-	-	8	-	-	410
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	-	157
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	74
OREGON-----	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	19
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	1	-	-	57
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	30	-	63	-	-	-	-	-	-	-	-	170
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	440	-	2	-	-	-	-	-	-	-	-	446
TENNESSEE-----	-	24	-	7	-	-	-	-	-	-	105	-	41	-	-	-	5	-	-	-	-	388
TEXAS-----	-	13	-	-	-	-	-	-	-	-	98	-	87	-	-	-	-	-	-	-	-	1,235
UTAH-----	-	-	-	-	-	-	-	-	-	-	2	-	693	-	30	-	-	6,000	-	6,000	-	902
VERMONT-----	-	-	-	-	-	-	-	-	-	-	2	-	10	-	-	-	-	-	-	-	-	52
VIRGINIA-----	-	262	-	-	-	-	-	-	-	-	5	-	42	-	3	-	-	-	-	-	-	382
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	65
WYOMING-----	-	32	-	-	-	-	-	-	-	-	262	-	581	-	2	-	-	-	90	-	-	1,677
TOTAL-----	-	1,870	-	8	-	16	-	-	-	-	-	1,710	-	5,387	-	159	-	81	6,000	269	6,000	19,460

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINES AND PLNTS:																						
ALABAMA-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	110	-	4	-	-
ARKANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	739	-	204	-	-
COLORADO-----	-	9	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	49	-	2	-	-
CONNECTICUT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,005	-	135	-	7
GEORGIA-----	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1,098	-	553	-	1
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	38	-	-
ILLINOIS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,092	-	12	-	-
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	20	-	-	-	-
IOWA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,123	-	113	-	-
KENTUCKY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	8	-	-
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	400	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	4	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	51	12,000	1	-	-	-	-	-	169	-	44	-	-
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-
NEVADA-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	931	-	47	-	5
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	25	-	-	-	-
NEW MEXICO-----	-	22	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	809	-	95	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	216	-	174	-	-
NORTH CAROLINA-----	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	38	-	-
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	82	-	76	-	-
OKLAHOMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	3	-	-
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-
SOUTH CAROLINA-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	-	2	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
TENNESSEE-----	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	198	-	6	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	858	-	205	-	3
UTAH-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	146	-	34	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	-	82	-	3	-	-
VIRGINIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	8	-	-
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	-	1,671	-	129	-	-
TOTAL-----	-	109	-	-	-	-	-	-	-	54	12,000	291	-	85	-	189	-	11,532	-	2,340	-	16
OFFICE:																						
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINES AND PLNTS:																						
ALABAMA-----	-	9	-	-	-	-	-	-	-	-	-	3	-	245	-	-	-	-	-	-	-	381
ARKANSAS-----	-	23	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	27
CALIFORNIA-----	-	573	-	-	-	-	-	-	-	-	-	260	-	338	-	51	-	65	-	9	-	2,242
COLORADO-----	-	30	-	-	-	-	-	-	-	-	-	43	-	375	-	5	-	-	-	-	-	514
CONNECTICUT-----	-	10	-	-	-	-	-	-	-	-	-	3	-	161	-	-	-	-	-	-	-	384
FLORIDA-----	-	27	-	-	-	-	-	-	-	-	-	88	-	465	-	60	-	-	-	-	-	1,787
GEORGIA-----	-	393	-	-	-	-	-	-	-	-	-	213	-	916	-	38	-	6	-	2	-	3,255
IDAHO-----	-	17	-	-	-	5	-	-	-	-	-	67	-	21	-	-	-	-	-	-	-	362
ILLINOIS-----	-	36	-	-	-	-	-	-	-	-	-	72	-	267	-	8	-	3	-	18	-	1,508
INDIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181
IOWA-----	-	64	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	140
KANSAS-----	-	94	-	-	-	-	-	-	-	-	-	-	-	182	-	3	-	-	-	-	-	1,515
KENTUCKY-----	-	19	-	-	-	-	-	-	-	-	-	-	-	191	-	-	-	-	-	9	-	239
LOUISIANA-----	-	149	-	-	-	-	-	-	-	-	-	113	-	611	-	-	-	88	-	1	-	986
MAINE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
MASSACHUSETTS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	52
MICHIGAN-----	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	10	-	-	-	-	-	748
MISSISSIPPI-----	-	19	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	38
MISSOURI-----	-	1	-	-	-	-	-	-	-	-	-	22	-	67	-	-	-	-	-	-	-	111
MONTANA-----	-	10	-	-	-	-	-	-	-	-	-	180	-	95	-	-	-	4	-	4	12,000	558
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
NEVADA-----	-	-	-	1	-	-	-	-	-	-	-	48	-	125	-	2	-	-	-	27	-	1,200
NEW JERSEY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	54
NEW MEXICO-----	-	740	-	-	-	-	-	-	-	-	-	242	-	229	-	93	-	5	-	17	-	2,254
NEW YORK-----	-	185	-	-	-	16	-	-	-	-	-	227	-	735	-	-	-	4	-	107	-	1,665
NORTH CAROLINA-----	-	117	-	-	-	-	-	-	-	-	-	26	-	202	-	-	-	-	-	8	-	536
NORTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
OHIO-----	-	201	-	-	-	-	-	-	-	-	-	36	-	224	-	19	-	-	-	-	-	647
OKLAHOMA-----	-	68	-	-	-	-	-	-	-	-	-	19	-	64	-	-	-	-	-	-	-	206
OREGON-----	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	19
PENNSYLVANIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	1	-	58
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	30	-	71	-	-	-	-	-	-	-	197
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	440	-	2	-	-	-	-	-	-	-	446
TENNESSEE-----	-	24	-	7	-	-	-	-	-	-	-	105	-	41	-	-	-	5	-	-	-	388
TEXAS-----	-	465	-	-	-	-	-	-	-	-	-	141	-	220	-	-	-	-	-	-	-	1,832
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	2	-	693	-	30	-	-	6,000	-	6,000	906
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	2	-	-	-	-	-	252
VIRGINIA-----	-	262	-	-	-	-	-	-	-	-	-	5	-	42	-	3	-	-	-	-	-	446
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	94
WYOMING-----	-	154	-	4	-	-	-	-	-	-	-	328	-	870	-	184	-	-	-	120	-	3,687
TOTAL-----	-	3,690	-	12	-	21	-	-	-	-	-	3,037	-	7,602	-	508	-	180	6,000	323	18,000	29,989
OFFICE:																						
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	5
IDAHO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	3	-	6	-	-	-	-	-	-	-	61

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	8	-	110	-	4	-	-	-
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	739	-	204	-	-	-
COLORADO	-	9	-	-	-	-	-	-	-	-	-	1	-	-	-	-	49	-	2	-	-	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,005	-	135	-	7	-
GEORGIA	-	33	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1,099	-	553	-	1	-
IDAH0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	38	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,092	-	12	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	20	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,123	-	113	-	-	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	8	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	400	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	4	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	51	12,000	1	-	-	-	-	169	-	44	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-
NEVADA	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	931	-	47	-	5	-
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	25	-	-	-	-	-
NEW MEXICO	-	22	-	-	-	-	-	-	-	-	-	-	-	2	-	-	809	-	95	-	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	216	-	174	-	-	-
NORTH CAROLINA	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	38	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	82	-	76	-	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	3	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
SOUTH CAROLINA	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	-	2	-	-	-
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	198	-	6	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	858	-	205	-	3	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	146	-	34	-	-	-
VERMONT	-	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	82	-	3	-	-	-
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	8	-	-	-
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	74	-	13	87	-	-	-	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	140	-	-	-	1,672	-	129	-	-	-
TOTAL	-	109	-	-	-	-	-	-	-	54	12,000	291	-	85	-	189	-	11,584	-	2,340	-	16

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA	-	9	-	-	-	-	-	-	-	-	3	245	-	-	-	-	-	-	-	-	-	381
ARKANSAS	-	23	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	27
CALIFORNIA	-	573	-	-	-	-	-	-	-	-	260	338	-	51	-	65	-	9	-	-	-	2,242
COLORADO	-	30	-	-	-	-	-	-	-	-	43	375	-	5	-	-	-	-	-	-	-	514
CONNECTICUT	-	10	-	-	-	-	-	-	-	-	3	161	-	-	-	-	-	-	-	-	-	384
FLORIDA	-	27	-	-	-	-	-	-	-	-	88	465	-	60	-	-	-	-	-	-	-	1,787
GEORGIA	-	393	-	-	-	-	-	-	-	-	213	920	-	38	-	6	-	2	-	-	-	3,260
IDaho	-	17	-	-	-	5	-	-	-	-	67	23	-	-	-	-	-	-	-	-	-	364
ILLINOIS	-	36	-	-	-	-	-	-	-	-	72	267	-	8	-	3	-	18	-	-	-	1,508
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181
IOWA	-	64	-	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	140
KANSAS	-	94	-	-	-	-	-	-	-	-	-	182	-	3	-	-	-	-	-	-	-	1,515
KENTUCKY	-	19	-	-	-	-	-	-	-	-	-	191	-	-	-	-	-	9	-	-	-	239
LOUISIANA	-	149	-	-	-	-	-	-	-	-	113	611	-	-	-	88	-	1	-	-	-	1,036
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	-	-	52
MICHIGAN	-	-	-	-	-	-	-	-	-	-	307	-	-	10	-	-	-	-	-	-	-	748
MISSISSIPPI	-	19	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	38
MISSOURI	-	1	-	-	-	-	-	-	-	-	22	67	-	-	-	-	-	-	-	-	-	111
MONTANA	-	10	-	-	-	-	-	-	-	-	180	95	-	-	-	4	-	4	-	-	12,000	558
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
NEVADA	-	-	-	1	-	-	-	-	-	-	48	125	-	2	-	-	-	27	-	-	-	1,200
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	54
NEW MEXICO	-	740	-	-	-	-	-	-	-	-	242	229	-	93	-	5	-	17	-	-	-	2,254
NEW YORK	-	185	-	-	-	16	-	-	-	-	227	735	-	-	-	4	-	107	-	-	-	1,665
NORTH CAROLINA	-	117	-	-	-	-	-	-	-	-	26	202	-	-	-	-	-	8	-	-	-	536
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
OHIO	-	201	-	-	-	-	-	-	-	-	36	224	-	19	-	-	-	-	-	-	-	647
OKLAHOMA	-	68	-	-	-	-	-	-	-	-	19	64	-	-	-	-	-	-	-	-	-	206
OREGON	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	19
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-	58
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	30	71	-	-	-	-	-	-	-	-	-	197
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	440	2	-	-	-	-	-	-	-	-	-	446
TENNESSEE	-	24	-	7	-	-	-	-	-	-	105	41	-	-	-	5	-	-	-	-	-	388
TEXAS	-	465	-	-	-	-	-	-	-	-	144	220	-	-	-	-	-	-	-	-	-	1,895
UTAH	-	-	-	-	-	-	-	-	-	-	2	693	-	30	-	-	6,000	-	-	6,000	-	906
VERMONT	-	-	-	-	-	-	-	-	-	-	2	15	-	2	-	-	-	-	-	-	-	252
VIRGINIA	-	262	-	-	-	-	-	-	-	-	5	42	-	3	-	-	-	-	-	-	-	446
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	94
WYOMING	-	154	-	4	-	-	-	-	-	-	328	870	-	184	-	-	-	120	-	-	-	3,688
TOTAL	-	3,690	-	12	-	21	-	-	-	-	3,040	7,608	-	508	-	180	6,000	323	18,000	30,050		

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	2	3	1	-	-	-	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	7	3	-	-	-	-	-	-	-
OIL SAND/SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	7	3	-	1	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	6	6	-	2	-	-	-	-	1
POTASH-----	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	8	7	-	1	4	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10	-	7	6	-	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	14	22	-	2	10	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	3	-	1	1	-	-	-	-	-	-
TOTAL-----	-	2	-	-	-	-	-	-	-	-	-	2	-	1	-	2	5	2	-	5	7	-	3	1	-	42	56	-	16	24	-	-	1
SURFACE AT UG:																																	
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	-	1	1	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	3	1	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	4	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14	-	5	3	-	-	-	1
TOTAL UNDERGROUND:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	-	1	-	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	2	3	1	-	-	-	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	2	3	-	1	-	-	-	-	-	-
OIL SAND/SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	7	3	-	1	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	2	6	-	-	2	-	-	-	2	-
POTASH-----	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	12	12	-	2	5	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	14	-	10	7	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	14	26	-	2	10	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	2	4	-	2	2	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	2	1	-	-	-	-	-	-	-	-	2	-	1	-	2	5	2	-	5	7	-	3	1	-	52	70	-	21	27	-	-	2

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1	
FLUORSPAR-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	3	4	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	3	6	
GYPSUM-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	8	5	
OIL SAND/SHALE-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	4	-	-	-	-	-	-	-	-	-	1	-	19	7	
PHOSPHATE-----	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	-	-	-	-	-	-	-	-	1	-	2	3	
POTASH-----	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	2	-	2	-	-	-	-	-	-	1	-	23	18	
SALT-----	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3	-	10	-	2	-	1	-	-	-	-	-	-	40	23	
SODIUM COMPOUNDS-----	-	7	8	-	1	-	-	-	-	-	-	-	-	-	-	-	5	7	-	7	-	2	-	6	-	1	-	1	2	-	44	66	
TALC-SOAPSTONE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-	-	-	9	5	
TOTAL-----	-	20	19	-	1	-	-	-	-	-	-	-	-	-	-	-	23	17	-	26	9	-	6	7	-	1	1	-	4	3	2	155	149
SURFACE AT UG:																																	
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	3	4	
POTASH-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	1	-	-	-	-	-	-	10	8	
SALT-----	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	6	1	-	-	-	-	-	-	-	-	-	18	8	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	5	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2	
OTHER NONMETAL NEC-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
TOTAL-----	-	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	10	4	-	1	-	-	1	-	-	-	-	37	29	
TOTAL UNDERGROUND:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1	
FLUORSPAR-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	3	4	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	3	6	
GYPSUM-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	8	5	
OIL SAND/SHALE-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	4	2	-	-	-	-	-	-	-	-	-	1	-	19	7
PHOSPHATE-----	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	1	2	-	-	-	-	-	-	-	-	1	-	2	6
POTASH-----	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	2	3	-	3	-	-	-	-	-	-	-	33	26	
SALT-----	-	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	8	4	-	16	1	-	2	-	-	-	-	-	-	-	58	31	
SODIUM COMPOUNDS-----	-	7	8	-	1	-	-	-	-	-	-	-	-	-	-	-	5	7	-	9	2	-	2	6	-	1	-	1	2	-	46	71	
TALC-SOAPSTONE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	1	-	-	-	-	-	-	-	-	-	12	7	
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
TOTAL-----	-	28	20	-	1	-	-	-	-	-	-	-	-	-	-	-	25	22	-	36	13	-	7	7	-	2	1	-	4	3	2	192	178

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	
SURFACE MINES:																																		
OPEN PIT:																																		
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
CLAY-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	22	-	5	7	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GYPSUM-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	-	2	-	-	-	-	-	
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-		
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	-	-	-	-	-	
PHOSPHATE-----	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	28	-	13	15	-	-	-	-	
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	2	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
WOLASTNITE-STAU-LIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	-	-	-	-	
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL-----	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	70	-	22	31	-	-	-	-	
DREDGE:																																		
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	
TOTAL SURFACE:																																		
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
CLAY-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	22	-	5	7	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GYPSUM-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6	-	2	-	-	-	-	-	
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-		
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	-	-	-	-	-	
PHOSPHATE-----	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	28	-	13	15	-	-	-	-	
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	2	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
WOLASTNITE-STAU-LIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	-	-	-	-	-
TOTAL-----	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	70	-	22	31	-	-	-	-	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
SURFACE MINES:																																	
OPEN PIT:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2		
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
CLAY-----	-	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	12	9	-	-	-	-	-	-	-	-	-	-	46		
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1	1	-	-	-	-	-	-	-	-	-	-	4		
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
GYPSUM-----	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	5	1	-	1	-	-	-	-	-	-	-	15		
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	4		
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5		
PHOSPHATE-----	-	7	4	-	-	-	1	-	-	-	-	-	-	-	-	-	10	15	-	17	14	-	2	1	-	-	-	-	1	2	77		
PUMICE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	2		
SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	12		
TALC-SOAPSTONE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	-	-	1	-	-	-	-	-	-	-	9		
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2		
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		
OTHER NONMETAL NEC-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	5		
TOTAL-----	-	24	11	-	-	-	-	1	-	-	-	-	-	-	-	-	23	33	-	51	28	-	6	2	-	1	2	-	1	8	-	189	
DREDGE:																																	
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
SALT-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1	-	3		
TOTAL-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1	-	5		
TOTAL SURFACE:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2		
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
CLAY-----	-	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	-	12	9	-	-	-	-	-	-	-	-	-	46		
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	1	1	-	-	-	-	-	-	-	-	-	4		
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
GYPSUM-----	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	5	1	-	1	-	-	-	-	-	-	-	15		
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	5		
PHOSPHATE-----	-	7	4	-	-	-	1	-	-	-	-	-	-	-	-	-	10	15	-	17	14	-	2	1	-	-	-	-	-	-	79		
PUMICE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	2		
SALT-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	3		
SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	4	-	-	-	-	-	-	-	-	-	-	12		
TALC-SOAPSTONE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	-	-	1	-	-	-	-	-	-	-	9		
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2		
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		
OTHER NONMETAL NEC-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	5		
TOTAL-----	-	25	13	-	-	-	-	1	-	-	-	-	-	-	-	-	24	33	-	51	29	-	6	2	-	1	2	-	1	9	-	194	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	
TOTAL MINING:																																		
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
CLAY-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	17	22	-	6	7	-	-	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	2	-	1	1	-	-	-	-	-	-	
GYP-SUM-----	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	2	-	-	4	9	-	1	2	-	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-	-	
OIL SAND/SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	7	3	-	1	-	-	-	-	-	-	
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	
PHOSPHATE-----	-	-	2	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
POTASH-----	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	12	12	-	2	5	-	-	-	-	-	
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	14	-	10	7	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	6	-	1	-	-	14	26	-	2	10	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	4	7	-	2	2	-	-	-	-	-	
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
WOLASTNITE-STAU-LIT--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	-	-	-	-	-	
TOTAL-----	-	2	3	-	-	-	-	-	2	-	-	2	-	1	-	2	5	2	-	5	7	-	3	1	-	115	140	-	43	58	-	-	2	
INDEPENDENT SHOPS:																																		
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
TOTAL MINING:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2			
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3			
CLAY-----	-	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9	13	9	1	-	-	-	-	-	-	-	-	49			
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1	1	-	-	-	-	-	-	-	-	-	4			
FLUORSPAR-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	3			
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1			
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	3			
GYPSSUM-----	-	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	6	1	-	1	-	-	-	-	-	-	-	23			
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	4			
OIL SAND/SHALE-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	4	2	-	-	-	-	-	-	-	-	1	19			
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	5			
PHOSPHATE-----	-	7	7	-	-	-	-	1	-	-	-	-	-	-	-	-	11	20	18	16	2	1	-	-	-	-	-	1	2	85			
POTASH-----	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	3	-	3	-	-	1	-	-	-	-	33			
PUMICE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	2			
SALT-----	-	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	9	4	16	2	-	2	1	-	1	-	-	1	-	61			
SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	-	-	-	-	-	-	-	-	-	-	12			
SODIUM COMPOUNDS-----	-	7	8	-	-	1	-	-	-	-	-	-	-	-	-	-	5	7	9	2	-	2	6	-	-	1	-	1	2	46			
TALC-SOAPSTONE-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	5	1	-	-	1	-	-	-	-	-	-	21			
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2			
WOLASTONITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1			
OTHER NONMETAL NEC-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	2	-	6			
TOTAL-----	-	53	33	-	1	-	-	1	-	-	-	-	-	-	-	-	49	55	-	87	42	-	13	9	-	3	3	-	5	12	386		
INDEPENDENT SHOPS:																																	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
PROCESSING PLANTS:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	1	-	-	-	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	6	-	1	3	-	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	3	5	-	-	-	-	-	
CLAY-----	-	5	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	151	118	-	23	37	-	3	1	-	-	
FELDSPAR-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13	-	2	3	-	-	-	-	-	
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	2	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	-	-	-	-	-	-	
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	-	-	
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	2	1	-	1	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7	-	2	3	-	-	-	-	-	
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3	-	1	-	-	-	-	-	-	
PHOSPHATE-----	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	20	-	3	9	-	2	-	-	-	
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	1	5	-	-	-	-	-	
PUMICE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	21	13	-	1	6	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	10	3	-	3	2	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	13	29	-	1	18	-	-	-	-	-	
VERMICULITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	13	-	2	6	-	-	-	-	-	
WOLASTNITE-STAUROLIT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	82	24	-	4	13	-	-	-	-	-
TOTAL-----	-	9	1	-	-	-	-	-	2	-	-	-	-	2	1	-	-	1	-	-	-	-	3	3	-	385	265	-	53	113	-	6	5

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
PROCESSING PLANTS:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	9	-		
BARITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	8	2	-	-	-	-	-	-	-	2	-	24	14		
BORON-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	4	1	-	-	-	-	-	-	-	1	-	15	10		
CLAY-----	-	24	11	-	1	-	-	-	-	-	-	-	-	-	-	23	36	-	80	49	-	7	7	-	3	4	-	3	8	-	325	272	
FELDSPAR-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	4	3	-	-	-	-	-	-	-	-	-	22	25		
FLUORSPAR-----	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	2	2	-	-	-	-	-	-	-	-	-	5	15		
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
GILSONITE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	6	4	
GYPSON-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	6	3	
KYANITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	7	1	
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1
MAGNESTITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	12	-	
MICA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	11	3	-	1	-	-	-	-	-	1	-	-	23	19	
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	2	-	-	-	-	-	-	-	-	-	2	-	15	7	
PHOSPHATE-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	5	7	-	15	10	-	3	-	-	2	1	-	-	1	1	45	52	
PIGMENT-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	
POTASH-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	6	2	-	-	-	-	-	-	-	-	-	-	12	14	
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	8	1	
SALT-----	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	11	5	-	1	-	1	-	-	-	-	-	-	43	26	
SHALE-----	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	3	2	-	6	2	-	1	-	-	-	-	1	1	-	-	27	15	
SODIUM COMPOUNDS-----	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	9	8	-	-	1	-	-	-	1	1	-	-	31	65	
TALC-SOAPSTONE-----	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	6	4	-	3	1	-	-	-	-	2	-	-	-	-	-	29	30	
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	-	1	-	-	-	-	-	-	7	6	
MOLASINITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	3	1	
OTHER NONMETAL NEC-----	-	7	3	-	1	-	-	-	-	-	-	-	-	-	-	14	8	-	32	2	-	4	-	-	-	-	5	6	-	-	150	56	
TOTAL-----	-	61	24	-	2	-	-	-	1	-	-	-	-	-	-	62	86	-	209	94	-	18	10	-	6	8	1	13	25	1	830	638	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
TOTAL MINES AND PLNTS:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	1	-	-	-	-	-	-	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	9	-	1	3	-	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	3	5	-	-	-	-	-	
CLAY-----	-	5	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	1	168	140	29	44	-	3	1	-	-	-	-	
FELDSPAR-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	11	13	2	5	-	-	-	-	-	-	-	
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	1	2	-	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	3	4	2	3	-	-	-	-	-	-	
GYP SUM-----	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	-	-	8	10	2	2	-	-	-	-	-	-	
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	2	1	-	-	1	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8	-	3	3	-	-	-	-	1	-	
OIL SAND/SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	7	3	1	1	-	-	-	-	-	-	
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	2	1	-	-	-	-	-	-	
PHOSPHATE-----	-	-	2	-	-	-	-	-	1	-	-	-	-	2	1	-	-	-	-	-	-	-	47	54	16	26	-	2	2	-	-	-	
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
POTASH-----	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	15	16	3	10	-	-	-	-	-	-	
PUMICE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	15	4	3	4	-	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	3	-	3	6	-	-	1	-	27	55	3	28	-	-	-	-	1	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	21	20	4	8	-	-	-	-	1	-	
VERMICULITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	-	-	-	-	-	-	-	-	
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	82	25	6	15	-	-	-	-	-	-	
TOTAL-----	-	11	4	-	-	-	-	-	4	-	-	2	-	3	1	2	5	3	-	5	7	-	6	4	-	500	405	-	96	173	-	6	7
OFFICE:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
GYP SUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	1	-	-	-	-	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL				
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL		
TOTAL MINES AND PLNTS:																																			
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	-	1	-	-	-	-	-	-	-	-	11	-	-		
BARITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	8	3	-	-	-	-	-	-	-	-	2	25	18	-		
BORON-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	5	1	-	-	-	-	-	-	-	-	1	18	10	-		
CLAY-----	-	32	14	-	1	-	-	-	-	-	-	-	-	-	-	-	25	45	-	93	58	-	8	7	-	4	5	-	3	10	374	326	-		
FELDSPAR-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	-	5	4	-	-	-	-	-	-	-	-	1	26	31	-		
FLUORSPAR-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	-	2	3	-	-	-	-	-	-	-	-	1	8	19	-		
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-		
GILSONITE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	1	-	-	-	-	-	-	-	-	-	9	12	-		
GYPSUM-----	-	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	-	7	2	-	1	-	-	-	-	-	-	-	29	25	-		
KYANITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	7	1	-		
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	12	1	-		
MICA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	11	3	-	1	-	-	-	-	-	1	1	27	23	-		
OIL SAND/SHALE-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	2	-	-	-	-	-	-	-	-	1	19	7	-		
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	6	2	-	1	-	-	-	-	-	-	1	3	20	11	-	
PHOSPHATE-----	-	8	9	-	-	-	-	1	-	-	-	-	-	-	-	-	16	27	-	33	26	-	5	1	-	2	1	1	3	3	130	153	-	-	
PIGMENT-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	-	-	-	
POTASH-----	-	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	-	8	5	-	3	-	-	1	-	-	1	-	45	40	-	-	
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	-	-	2	-	-	-	-	-	-	-	-	10	4	-	
SALT-----	-	17	6	-	-	-	-	-	-	-	-	-	-	-	-	-	9	5	-	27	7	-	3	1	-	2	-	-	1	2	104	61	-	-	
SHALE-----	-	3	1	-	-	-	-	1	-	-	-	-	-	-	-	-	5	2	-	10	2	-	1	-	-	-	1	-	1	1	39	19	-	-	
SODIUM COMPOUNDS-----	-	12	9	-	1	-	-	-	-	-	-	-	-	-	-	-	7	12	-	18	10	-	2	7	-	-	1	-	2	3	77	136	-	-	
TALC-SOAPSTONE-----	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	11	4	-	8	2	-	1	-	-	2	-	-	1	-	50	41	-	-	
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	1	-	-	-	-	-	9	7	-	-	
WOLASTINITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	4	1	-	-	
OTHER NONMETAL NEC--	-	9	3	-	1	-	-	-	-	-	-	-	-	-	-	-	14	8	-	34	4	-	4	-	-	-	-	5	8	-	156	63	-	-	
TOTAL-----	-	114	57	-	3	-	-	2	-	-	-	-	-	-	-	-	111	141	-	296	136	-	31	19	-	9	11	1	18	37	3	1,216	1,011	-	-
OFFICE:																																			
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	1	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	1	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3	-	-	-	-	-	-	-	-	2	-	6	9	-	-

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RTB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	
GRAND TOTAL :	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	1	-	-	-	-	-	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	9	-	1	-	3	-	-	-	-	
BORON-----	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	3	5	-	-	-	-	-	-	
CLAY-----	-	5	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	169	140	-	29	44	-	-	3	1	-	-	
FELDSPAR-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	11	13	-	2	5	-	-	-	-	-	-	
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	1	2	-	-	-	-	-	-	
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	3	5	-	2	3	-	-	-	-	-	-	
GYPSUM-----	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2	-	8	10	-	2	3	-	-	-	-	-	-	
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	2	1	-	1	-	-	-	-	
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8	-	3	3	-	-	-	-	-	-	
OIL SAND/SHALE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	7	3	-	1	-	-	-	-	-	-	-	
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	2	1	-	-	-	-	-	-	
PHOSPHATE-----	-	-	2	-	-	-	-	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	47	54	-	16	26	-	2	2	-	-	-	-
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POTASH-----	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	15	16	-	3	10	-	-	-	-	-	-	
PUMICE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	28	-	11	13	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	15	4	-	3	4	-	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	1	-	-	-	-	-	-	-	-	-	-	1	3	-	3	6	-	-	1	-	28	56	-	3	28	-	-	-	-	1	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	21	20	-	4	8	-	-	-	-	-	-	
VERMICULITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	-	-	-	-	-	-	-	-	-	
WOLASTNITE-STAU-LIT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	82	25	-	6	15	-	-	-	-	-	-	
TOTAL-----	-	11	4	-	-	-	-	-	-	4	-	-	2	-	3	1	2	5	3	-	5	7	-	6	4	-	503	408	-	96	174	-	6	7

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
GRAND TOTAL:																																	
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	11	-		
BARITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	8	3	-	-	-	-	-	-	-	-	2	-	25	18		
BORON-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	5	1	-	-	-	-	-	-	-	-	1	-	18	10		
CLAY-----	-	32	14	-	1	-	-	-	-	-	-	-	-	-	-	25	45	94	59	-	8	7	-	4	5	-	3	10	-	376	327		
FELDSPAR-----	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	5	4	-	-	-	-	-	-	-	-	-	1	-	26	31	
FLUORSPAR-----	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	8	2	3	-	-	-	-	-	-	-	1	-	-	8	19		
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	
GILSONITE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	-	-	-	-	-	-	-	-	-	1	-	9	14	
GYPSUM-----	-	6	4	-	-	-	-	-	-	-	-	-	-	-	-	3	5	7	2	-	1	-	-	-	-	-	-	-	-	29	27		
KYANITE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	7	1		
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2		
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	12	1		
MICA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11	3	-	1	-	-	-	-	-	1	1	-	27	23		
OIL SAND/SHALE-----	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	4	2	-	-	-	-	-	-	-	-	-	-	19	7		
PERLITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6	2	-	1	-	-	-	-	-	-	1	3	-	20	11	
PHOSPHATE-----	-	8	9	-	-	-	-	1	-	-	-	-	-	-	-	16	27	34	26	-	5	1	-	-	2	1	1	3	3	131	153		
PIGMENT-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-		
POTASH-----	-	9	4	-	-	-	-	-	-	-	-	-	-	-	-	3	4	8	5	-	3	-	-	1	-	-	1	-	-	45	40		
PUMICE-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	10	4	
SALT-----	-	17	6	-	-	-	-	-	-	-	-	-	-	-	-	9	5	27	8	-	3	1	-	2	-	-	1	2	-	105	63		
SHALE-----	-	3	1	-	-	-	-	1	-	-	-	-	-	-	-	5	2	10	2	-	1	-	-	1	-	-	1	1	-	39	19		
SODIUM COMPOUNDS-----	-	12	9	-	1	-	-	-	-	-	-	-	-	-	-	7	12	18	10	-	2	7	-	-	1	-	2	3	-	78	137		
TALC-SOAPSTONE-----	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	12	4	8	3	-	-	1	-	-	2	-	-	1	-	51	42		
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	-	-	-	-	1	-	-	-	-	-	-	9	7		
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	4	1		
OTHER NONMETAL NEC-----	-	9	3	-	1	-	-	-	-	-	-	-	-	-	-	14	8	34	4	-	4	-	-	-	-	-	5	8	-	156	63		
TOTAL-----	-	114	57	-	3	-	-	2	-	-	-	-	-	-	-	112	141	-	298	139	-	31	19	-	9	11	1	18	39	3	1,222	1,020	

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	16	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	38	-	31	-	-	-
OIL SAND/SHALE-----	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	46	-	2	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	-	-	-	-	-	-
POTASH-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	430	-	41	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	40	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	964	-	95	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	1	-	148	-	-	-	-	-	6	-	44	-	-	-
TOTAL-----	-	15	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	1,581	-	275	-	-	-
SURFACE AT UG:																						
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245	-	31	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	60	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	354	-	93	-	-	-
TOTAL UNDERGROUND:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	16	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	38	-	31	-	-	-
OIL SAND/SHALE-----	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	46	-	2	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	96	-	-	-	-	-
POTASH-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	675	-	72	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109	-	100	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	964	-	95	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	1	-	148	-	-	-	-	-	6	-	46	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	15	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	1,935	-	368	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	26
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	3	-	-	67
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
GYPNUM-----	-	47	-	-	-	-	-	-	-	-	30	-	5	-	-	-	-	-	-	-	-	312
OIL SAND/SHALE-----	-	30	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	-	367
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	4	12,000	-	29
POTASH-----	-	389	-	-	-	-	-	-	-	-	240	-	26	-	39	-	-	-	12	-	-	1,187
SALT-----	-	152	-	-	-	-	-	-	-	-	266	-	476	-	19	-	88	-	-	-	-	1,137
SODIUM COMPOUNDS-----	-	122	-	4	-	-	-	-	-	-	66	-	235	-	182	-	-	-	30	-	-	1,925
TALC-SOAPSTONE-----	-	3	-	-	-	-	-	-	-	-	32	-	5	-	-	-	-	-	-	-	-	239
TOTAL-----	-	743	-	4	-	-	-	-	-	-	761	-	986	-	240	-	88	-	49	12,000	-	5,293
SURFACE AT UG:																						
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	101
POTASH-----	-	250	-	-	-	-	-	-	-	-	-	-	-	-	29	-	5	-	-	-	-	560
SALT-----	-	72	-	-	-	-	-	-	-	-	1	-	177	-	-	-	-	-	-	-	-	323
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	54
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	4
OTHER NONMETAL NEC-----	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
TOTAL-----	-	397	-	-	-	-	-	-	-	-	2	-	237	-	29	-	5	-	-	-	-	1,117
TOTAL UNDERGROUND:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	26
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	3	-	-	67
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
GYPNUM-----	-	47	-	-	-	-	-	-	-	-	30	-	5	-	-	-	-	-	-	-	-	312
OIL SAND/SHALE-----	-	30	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	-	367
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	24	-	5	-	-	-	-	-	4	12,000	-	130
POTASH-----	-	639	-	-	-	-	-	-	-	-	240	-	26	-	68	-	5	-	12	-	-	1,747
SALT-----	-	224	-	-	-	-	-	-	-	-	267	-	653	-	19	-	88	-	-	-	-	1,460
SODIUM COMPOUNDS-----	-	122	-	4	-	-	-	-	-	-	66	-	289	-	182	-	-	-	30	-	-	1,979
TALC-SOAPSTONE-----	-	3	-	-	-	-	-	-	-	-	33	-	6	-	-	-	-	-	-	-	-	243
OTHER NONMETAL NEC-----	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
TOTAL-----	-	1,140	-	4	-	-	-	-	-	-	763	-	1,223	-	269	-	93	-	49	12,000	-	6,410

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
SURFACE MINES:																						
OPEN PIT:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	255	-	178	-	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	62	-	-	-
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	733	-	143	-	-	-
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOLASTNITE-STAU-LIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,330	-	443	-	-	-
ORE DGE:																						
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-
TOTAL SURFACE:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	255	-	178	-	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	62	-	-	-
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	739	-	143	-	-	-
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOLASTNITE-STAU-LIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,344	-	443	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
SURFACE MINES:																						
OPEN PIT:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	14
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
BORON-----	-	-	-	-	-	-	-	-	-	-	51	39	-	-	-	-	-	-	-	-	-	140
CLAY-----	461	-	-	-	-	-	-	-	-	-	20	95	-	1	-	6	-	-	-	-	-	1,016
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	7	24	-	-	-	-	-	-	-	-	-	81
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	20
GYP SUM-----	108	-	-	-	-	-	-	-	-	-	308	173	-	10	-	-	-	-	-	-	-	655
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	3	-	25	-	-	-	-	5	-	-	64
PHOSPHATE-----	34	-	-	-	5	-	-	-	-	-	108	120	-	42	-	-	-	-	-	-	-	1,185
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	31
SHALE-----	6	-	-	-	-	-	-	-	-	-	10	367	-	-	-	-	-	-	-	-	-	439
TALC-SOAPSTONE-----	59	-	-	-	-	-	-	-	-	-	34	12	-	-	-	-	-	-	-	-	-	140
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-	-	5
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	-	-	125
OTHER NONMETAL NEC-----	9	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	40
TOTAL-----	-	677	-	-	-	5	-	-	-	-	562	992	-	80	-	6	-	5	-	-	-	4,100
DREDGE:																						
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
SALT-----	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	13
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	19
TOTAL SURFACE:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	14
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
BORON-----	-	-	-	-	-	-	-	-	-	-	51	39	-	-	-	-	-	-	-	-	-	140
CLAY-----	461	-	-	-	-	-	-	-	-	-	20	95	-	1	-	6	-	-	-	-	-	1,016
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	7	24	-	-	-	-	-	-	-	-	-	81
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	20
GYP SUM-----	108	-	-	-	-	-	-	-	-	-	308	173	-	10	-	-	-	-	-	-	-	655
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	3	-	25	-	-	-	-	5	-	-	64
PHOSPHATE-----	34	-	-	-	5	-	-	-	-	-	108	120	-	42	-	-	-	-	-	-	-	1,191
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	31
SALT-----	-	3	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	13
SHALE-----	6	-	-	-	-	-	-	-	-	-	10	367	-	-	-	-	-	-	-	-	-	439
TALC-SOAPSTONE-----	59	-	-	-	-	-	-	-	-	-	34	12	-	-	-	-	-	-	-	-	-	140
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-	-	5
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	-	-	125
OTHER NONMETAL NEC-----	9	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	40
TOTAL-----	-	680	-	-	-	5	-	-	-	-	564	992	-	80	-	6	-	5	-	-	-	4,119

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RTB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	255	-	194	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	2	-	-
GYPSPUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	-	94	-	31	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	62	-	-
OIL SAND/SHALE-----	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	46	-	2	-	-
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	-	835	-	143	-	-
POTASH-----	-	8	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	675	-	72	-	-
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	-	100	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	964	-	95	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	1	-	148	-	-	-	-	-	41	-	46	-	-
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-
TOTAL-----	-	15	-	-	-	-	-	-	-	1	12,000	291	-	85	-	174	-	3,279	-	811	-	-
INDEPENDENT SHOPS:																						
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	14
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140
CLAY-----	-	461	-	-	-	-	-	-	-	-	-	51	-	39	-	-	-	-	-	-	-	81
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	20	-	96	-	1	-	6	-	-	-	1,042
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	7	-	24	-	-	-	-	-	-	-	20
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	3	-	-	67
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	20
GYPSON-----	-	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	338	-	178	-	10	-	-	-	-	-	967
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132
OIL SAND/SHALE-----	-	30	-	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	367
PERLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	25	-	-	-	5	-	64
PHOSPHATE-----	-	34	-	-	-	5	-	-	-	-	-	132	-	125	-	42	-	-	-	4	12,000	1,321
POTASH-----	-	639	-	-	-	-	-	-	-	-	-	240	-	26	-	68	-	5	-	12	-	1,747
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	31
SALT-----	-	227	-	-	-	-	-	-	-	-	-	269	-	653	-	19	-	88	-	-	-	1,473
SHALE-----	-	6	-	-	-	-	-	-	-	-	-	10	-	367	-	-	-	-	-	-	-	439
SODIUM COMPOUNDS-----	-	122	-	4	-	-	-	-	-	-	-	66	-	289	-	182	-	-	-	30	-	1,979
TALC-SOAPSTONE-----	-	62	-	-	-	-	-	-	-	-	-	67	-	18	-	-	-	-	-	-	-	383
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	-	-	-	-	-	-	5
MOLASTNITE-STAU-LIT--	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	125
OTHER NONMETAL NEC--	-	84	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	115
TOTAL-----	-	1,820	-	4	-	5	-	-	-	-	-	1,327	-	2,215	-	349	-	99	-	54	12,000	10,529
INDEPENDENT SHOPS:																						
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	3	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167	-	2	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-	136	-	-	-
CLAY-----	-	52	-	-	-	-	-	-	2	-	-	-	-	-	2	-	3,120	-	435	-	5	-
FELDSPAR-----	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241	-	11	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GTLSCHIST-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81	-	11	-	-	-
GYPSON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	400	-	-	-
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-	45	-	4	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	-	10	-	-	-
PERLITE-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	-	18	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253	-	15	-	7	-
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
PUMICE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	1,258	-	82	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	-	160	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	335	-	34	-	-	-
VERMICULITE-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	9	-	-	-
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	44	-	-	-	-	-
TOTAL-----	-	94	-	-	-	-	-	-	53	-	-	-	-	-	15	-	8,253	-	1,529	-	16	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	76
BARITE-----	-	17	-	-	-	-	-	-	-	-	113	-	-	131	-	-	-	-	-	-	-	430
BORON-----	-	109	-	-	-	-	-	-	-	-	19	-	-	78	-	-	-	65	-	-	-	480
CLAY-----	-	856	-	7	-	-	-	-	-	-	1,232	-	-	1,557	-	51	-	8	-	26	-	7,353
FELDSPAR-----	-	128	-	-	-	-	-	-	-	-	22	-	-	72	-	-	-	-	-	-	-	495
FLUORSPAR-----	-	31	-	-	-	-	-	-	-	-	-	-	-	199	-	-	-	-	-	-	-	244
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	13
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	2	-	-	495	-	-	-	-	-	-	-	589
GYPSSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	481
KYANITE-----	-	62	-	-	-	-	-	-	-	-	-	-	-	22	-	3	-	-	-	-	-	119
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	63
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	7	-	-	4	-	-	-	-	-	26	-	171
MICA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	183	-	-	-	-	-	8	-	292
PERLITE-----	-	16	-	-	-	-	-	-	-	-	11	-	-	13	-	-	-	-	-	-	-	230
PHOSPHATE-----	-	12	-	-	-	-	-	-	-	-	34	-	-	504	-	48	-	-	6,000	-	6,000	873
PIGMENT-----	-	161	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	310
POTASH-----	-	79	-	-	-	-	-	-	-	-	-	-	-	195	-	-	-	-	-	-	-	318
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	5	-	-	-	-	-	89
SALT-----	-	221	-	-	-	-	-	-	-	-	-	-	-	531	-	3	-	4	-	1	-	2,100
SHALE-----	-	105	-	-	-	16	-	-	-	-	-	-	-	186	-	-	-	-	-	102	-	712
SODIUM COMPOUNDS-----	-	30	-	-	-	-	-	-	-	-	14	-	-	427	-	-	-	-	-	90	-	930
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	121	-	-	11	-	-	-	-	-	-	-	362
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	95	-	-	4	-	-	-	-	121
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	50
OTHER NONMETAL NEC-----	-	40	-	1	-	-	-	-	-	-	76	-	-	537	-	49	-	-	-	16	-	2,556
TOTAL-----	-	1,870	-	8	-	16	-	-	-	-	-	1,710	-	5,387	-	159	-	81	6,000	269	6,000	19,460

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINES AND PLNTS:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	-	3	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	2	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	-	136	-	-	-
CLAY-----	-	52	-	-	-	-	-	-	-	2	-	-	-	9	-	2	-	3,375	-	629	-	5
FELOSPAR-----	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	291	-	11	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	4	-	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	82	-	13	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	132	-	431	-	-	-
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-	45	-	4
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	-	72	-	-
OIL SAND/SHALE-----	-	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	46	-	2	-	-
PERLITE-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	-	49	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	-	1,088	-	158	-	7
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141	-	-
POTASH-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	714	-	77	-	-
PUMICE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,375	-	182	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	132	-	160	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	1,299	-	129	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	52	-	148	-	-	-	-	-	211	-	55	-	-
VERMICULITE-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	1,820	-	41	-	-
TOTAL-----	-	109	-	-	-	-	-	-	-	54	12,000	291	-	85	-	189	-	11,532	-	2,340	-	16
OFFICE:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GYPSUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINES AND PLNTS:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	90
BARITE-----	-	17	-	-	-	-	-	-	-	-	-	113	-	131	-	-	-	-	-	-	-	443
BORON-----	-	109	-	-	-	-	-	-	-	-	-	70	-	117	-	-	-	65	-	-	-	620
CLAY-----	-	1,317	-	7	-	-	-	-	-	-	-	1,252	-	1,653	-	52	-	14	-	26	-	8,395
FELDSPAR-----	-	128	-	-	-	-	-	-	-	-	-	29	-	96	-	-	-	-	-	-	-	576
FLUORSPAR-----	-	31	-	-	-	-	-	-	-	-	-	60	-	199	-	-	-	-	-	3	-	311
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	20	-	13	-	-	-	-	-	-	-	33
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	2	-	495	-	-	-	-	-	-	-	593
GYP SUM-----	-	155	-	-	-	-	-	-	-	-	-	338	-	221	-	10	-	-	-	-	-	1,448
KYANITE-----	-	62	-	-	-	-	-	-	-	-	-	-	-	22	-	3	-	-	-	-	-	119
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	63
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	7	-	4	-	-	-	-	-	26	-	171
MICA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	183	-	-	-	-	-	8	-	424
OIL SAND/SHALE-----	-	30	-	-	-	-	-	-	-	-	-	43	-	238	-	-	-	-	-	-	-	367
PERLITE-----	-	16	-	-	-	-	-	-	-	-	-	11	-	16	-	25	-	-	-	5	-	294
PHOSPHATE-----	-	46	-	-	-	5	-	-	-	-	-	166	-	629	-	90	-	-	6,000	4	18,000	2,194
PIGMENT-----	-	161	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	310
POTASH-----	-	718	-	-	-	-	-	-	-	-	-	240	-	221	-	68	-	5	-	12	-	2,065
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	120
SALT-----	-	448	-	-	-	-	-	-	-	-	-	269	-	1,184	-	22	-	92	-	1	-	3,573
SHALE-----	-	111	-	-	-	16	-	-	-	-	-	69	-	553	-	-	-	-	-	102	-	1,151
SODIUM COMPOUNDS-----	-	152	-	4	-	-	-	-	-	-	-	80	-	716	-	182	-	-	-	120	-	2,909
TALC-SOAPSTONE-----	-	62	-	-	-	-	-	-	-	-	-	188	-	29	-	-	-	-	-	-	-	745
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	-	4	-	96	-	-	-	4	-	-	-	126
WOLASTINITE-STAUOLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	131	-	-	-	-	-	-	-	175
OTHER NONMETAL NEC-----	-	124	-	1	-	-	-	-	-	-	-	76	-	539	-	49	-	-	-	16	-	2,671
TOTAL-----	-	3,690	-	12	-	21	-	-	-	-	-	3,037	-	7,602	-	508	-	180	6,000	323	18,000	29,989
OFFICE:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	5
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GYP SUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	3	-	6	-	-	-	-	-	-	-	61

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	-	3	-	-	-
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	2	-	-	-
BORON-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	-	136	-	-	-
CLAY-----	-	52	-	-	-	-	-	-	2	-	-	-	9	-	2	-	3,376	-	629	-	5	-
FELDSPAR-----	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	291	-	11	-	-	-
FLUORSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	4	-	-	-
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	82	-	13	-	-	-
GYP SUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	-	132	-	431	-	-	-
KYANITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-	45	-	4	-
MICA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	-	72	-	-	-
OIL SAND/SHALE-----	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	46	-	2	-	-	-
PERLITE-----	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	-	49	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	12,000	1	-	-	-	-	1,088	-	158	-	7	-
PIGMENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141	-	-	-
POTASH-----	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	714	-	77	-	-	-
PUMICE-----	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,425	-	182	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	132	-	160	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	140	-	74	-	13	-	1,300	-	129	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	52	-	148	-	-	-	-	-	211	-	55	-	-	-
VERMICULITE-----	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-
WOLASTNITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	1,820	-	41	-	-	-
TOTAL-----	-	109	-	-	-	-	-	-	54	12,000	291	-	85	-	189	-	11,584	-	2,340	-	16	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ASBESTOS-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	90
BARITE-----	-	17	-	-	-	-	-	-	-	-	113	131	-	-	-	-	-	-	-	-	-	443
BORON-----	-	109	-	-	-	-	-	-	-	-	70	117	-	-	-	-	65	-	-	-	-	620
CLAY-----	-	1,317	-	7	-	-	-	-	-	-	1,252	1,657	-	52	-	14	-	-	26	-	-	8,400
FELDSPAR-----	-	128	-	-	-	-	-	-	-	-	29	96	-	-	-	-	-	-	-	-	-	576
FLUORSPAR-----	-	31	-	-	-	-	-	-	-	-	60	199	-	-	-	-	-	-	3	-	-	311
GEMSTONES-----	-	-	-	-	-	-	-	-	-	-	20	13	-	-	-	-	-	-	-	-	-	33
GILSONITE-----	-	-	-	-	-	-	-	-	-	-	2	495	-	-	-	-	-	-	-	-	-	593
GYP SUM-----	-	155	-	-	-	-	-	-	-	-	338	221	-	10	-	-	-	-	-	-	-	1,448
KYANITE-----	-	62	-	-	-	-	-	-	-	-	-	22	-	3	-	-	-	-	-	-	-	119
LEONARDITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
LITHIUM-----	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	-	-	63
MAGNESITE-----	-	-	-	-	-	-	-	-	-	-	7	4	-	-	-	-	-	-	26	-	-	171
MICA-----	-	3	-	-	-	-	-	-	-	-	-	183	-	-	-	-	-	-	8	-	-	424
OIL SAND/SHALE-----	-	30	-	-	-	-	-	-	-	-	43	238	-	-	-	-	-	-	-	-	-	367
PERLITE-----	-	16	-	-	-	-	-	-	-	-	11	16	-	-	-	-	-	-	-	-	-	294
PHOSPHATE-----	-	46	-	-	-	5	-	-	-	-	166	631	-	25	-	-	6,000	-	5	-	-	2,196
PIGMENT-----	-	161	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	310
POTASH-----	-	718	-	-	-	-	-	-	-	-	240	221	-	68	-	5	-	-	12	-	-	2,065
PUMICE-----	-	-	-	-	-	-	-	-	-	-	-	44	-	5	-	-	-	-	-	-	-	120
SALT-----	-	448	-	-	-	-	-	-	-	-	269	1,184	-	22	-	92	-	-	1	-	-	3,623
SHALE-----	-	111	-	-	-	16	-	-	-	-	69	553	-	-	-	-	-	-	102	-	-	1,151
SODIUM COMPOUNDS-----	-	152	-	4	-	-	-	-	-	-	80	716	-	182	-	-	-	-	120	-	-	2,910
TALC-SOAPSTONE-----	-	62	-	-	-	-	-	-	-	-	191	29	-	-	-	-	-	-	-	-	-	748
VERMICULITE-----	-	-	-	-	-	-	-	-	-	-	4	96	-	-	-	4	-	-	-	-	-	126
WOLASTINITE-STAUROLITE-----	-	-	-	-	-	-	-	-	-	-	-	131	-	-	-	-	-	-	-	-	-	175
OTHER NONMETAL NEC-----	-	124	-	1	-	-	-	-	-	-	76	539	-	49	-	-	-	-	16	-	-	2,671
TOTAL-----	-	3,690	-	12	-	21	-	-	-	-	-	3,040	-	7,608	-	508	-	180	6,000	323	18,000	30,050

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND:																	
BELTMAN/BOOM OPR.	-	-	-	3	3	3	5	8	-	-	-	112	112	112	-	37	37
BULLDOZER/MOBILE EQUIP.	-	-	-	1	1	1	-	1	-	-	-	115	115	115	-	115	115
CAR DUMP/GRIZZLY/SCREEN-	-	-	-	1	1	1	-	1	-	-	-	70	70	70	-	70	70
CLEANUP/VENTILATION	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
DRILL OPERATOR	-	-	-	6	6	6	4	10	-	-	-	353	353	353	-	59	59
ELECTRICIAN	-	-	-	2	2	2	3	5	-	-	-	142	142	142	-	71	71
FRONT END LOADER	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
HAUL DUMP	-	-	-	8	8	8	9	17	-	-	-	260	260	260	-	32	32
LABORER	-	-	1	29	30	30	28	58	-	-	50	878	928	928	50	30	31
LOADING MACH. OPR.	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
MECHANIC/MAINTENANCE	-	-	1	39	40	40	40	80	-	-	50	1,651	1,701	1,701	50	42	43
MINER	2	-	-	20	20	22	23	45	12,000	-	-	461	461	12,461	-	23	566
MINING MACH. OPR.	-	-	-	9	9	9	8	17	-	-	-	146	146	146	-	16	16
POWDERMAN/BLASTER	-	-	-	3	3	3	1	4	-	-	-	60	60	60	-	20	20
RAIL TRANSP. AND HAUL	-	-	-	1	1	1	2	3	-	-	-	40	40	40	-	40	40
ROCK/ROOF BOLTER	-	-	-	9	9	9	7	16	-	-	-	144	144	144	-	16	16
SUPERVISOR/FOREMAN	-	-	-	4	4	4	9	13	-	-	-	351	351	351	-	88	88
TECH./PROF./CLERICAL	-	-	-	1	1	1	1	2	-	-	-	24	24	24	-	24	24
TRUCK DRIVER	-	-	-	1	1	1	2	3	-	-	-	4	4	4	-	4	4
WELDER/MACHINIST	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
N.E.C. OR UNKNOWN	-	-	-	13	13	13	3	16	-	-	-	186	186	186	-	14	14
TOTAL OR AVERAGE	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110
SURFACE AT UNDERGROUND:																	
BULLDOZER/MOBILE EQUIP.	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
DRILL OPERATOR	-	-	1	-	1	1	-	1	-	-	75	75	75	75	-	75	75
ELECTRICIAN	-	-	-	2	2	2	2	4	-	-	-	51	51	51	-	26	26
HAUL DUMP	-	-	-	2	2	2	-	2	-	-	-	96	96	96	-	48	48
LABORER	-	-	-	4	4	4	6	10	-	-	-	144	144	144	-	36	36
MECHANIC/MAINTENANCE	-	-	1	11	12	12	10	22	-	-	50	291	341	341	50	26	28
MINER	-	-	1	1	2	2	2	4	-	-	50	10	60	60	50	10	30
MINING MACH. OPR.	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
PREP. PLANT OPR.	-	-	-	1	1	1	5	6	-	-	-	2	2	2	-	2	2
SUPERVISOR/FOREMAN	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
TECH./PROF./CLERICAL	-	-	-	2	2	2	-	2	-	-	-	4	4	4	-	2	2
TRUCK DRIVER	-	-	-	1	1	1	-	1	-	-	-	44	44	44	-	44	44
WELDER/MACHINIST	-	-	-	1	1	1	1	2	-	-	-	32	32	32	-	32	32
N.E.C. OR UNKNOWN	-	-	-	6	6	6	2	8	-	-	-	245	245	245	-	41	41
TOTAL OR AVERAGE	-	-	3	34	37	37	29	66	-	-	175	942	1,117	1,117	58	28	30

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE, UG:	-	-	-	3	3	3	5	8	-	-	-	112	112	112	-	37	37
BELTMAN/BOOM OPR.	-	-	-	2	2	2	1	3	-	-	-	116	116	116	-	58	58
BULLDOZER/MOBILE EQUIP.	-	-	-	1	1	1	-	1	-	-	-	70	70	70	-	70	70
CAR DUMP/GRIZZLY/SCREEN	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
CLEANUP/VENTILATION	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
DRILL OPERATOR	-	-	1	6	7	7	4	11	-	-	75	353	428	428	75	59	61
ELECTRICIAN	-	-	-	4	4	4	5	9	-	-	-	193	193	193	-	48	48
FRONT END LOADER	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
HAUL DUMP	-	-	-	10	10	10	9	19	-	-	-	356	356	356	-	36	36
LABORER	-	-	1	33	34	34	34	68	-	-	50	1,022	1,072	1,072	50	31	32
LOADING MACH. OPR.	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
MECHANIC/MAINTENANCE	-	-	2	50	52	52	50	102	-	-	100	1,942	2,042	2,042	50	39	39
MINER	2	-	1	21	22	24	25	49	12,000	-	50	471	521	12,521	50	22	522
MINING MACH. OPR.	-	-	-	10	10	10	8	18	-	-	-	163	163	163	-	16	16
POWDERMAN/BLASTER	-	-	-	3	3	3	1	4	-	-	-	60	60	60	-	20	20
PREP. PLANT OPR.	-	-	-	1	1	1	5	6	-	-	-	2	2	2	-	2	2
RAIL TRANSP. AND HAUL	-	-	-	1	1	1	2	3	-	-	-	40	40	40	-	40	40
ROCK/ROOF BOLTER	-	-	-	9	9	9	7	16	-	-	-	144	144	144	-	16	16
SUPERVISOR/FOREMAN	-	-	-	5	5	5	9	14	-	-	-	356	356	356	-	71	71
TECH./PROF./CLERICAL	-	-	-	3	3	3	1	4	-	-	-	28	28	28	-	9	9
TRUCK DRIVER	-	-	-	2	2	2	2	4	-	-	-	48	48	48	-	24	24
WELDER/MACHINIST	-	-	-	1	1	1	3	4	-	-	-	32	32	32	-	32	32
N.E.C. OR UNKNOWN	-	-	-	19	19	19	5	24	-	-	-	431	431	431	-	23	23
TOTAL OR AVERAGE	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95
SURFACE MINES:																	
OPEN PIT:																	
BULLDOZER/MOBILE EQUIP.	-	-	-	17	17	17	5	22	-	-	-	382	382	382	-	22	22
DRAG/CRAVE/SPOIL OPR.	-	-	-	11	11	11	6	17	-	-	-	245	245	245	-	22	22
DRILL OPERATOR	-	-	1	4	5	5	6	11	-	-	300	48	348	348	300	12	70
ELECTRICIAN	-	-	-	3	3	3	9	12	-	-	-	128	128	128	-	43	43
FRONT END LOADER	-	-	1	6	7	7	9	16	-	-	50	46	96	96	50	8	14
LABORER	-	-	-	18	18	18	18	36	-	-	-	257	257	257	-	14	14
MECHANIC/MAINTENANCE	-	-	1	62	63	63	64	127	-	-	50	827	877	877	50	13	14
MINER	-	-	-	4	4	4	7	11	-	-	-	70	70	70	-	18	18
PREP. PLANT OPR.	-	-	1	12	13	13	6	19	-	-	400	222	622	622	400	5	48
RAIL TRANSP. AND HAUL	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
SUPERVISOR/FOREMAN	-	-	-	12	12	12	12	24	-	-	-	223	223	223	-	19	19
TECH./PROF./CLERICAL	-	-	1	3	4	4	5	9	-	-	50	16	66	66	50	5	16
TRUCK DRIVER	-	-	1	19	20	20	15	35	-	-	50	619	669	669	50	33	33
WELDER/MACHINIST	-	-	-	3	3	3	7	10	-	-	-	29	29	29	-	10	10
N.E.C. OR UNKNOWN	-	-	-	8	8	8	20	28	-	-	-	83	83	83	-	10	10
TOTAL OR AVERAGE	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22
DREDGE:																	
DREDGE/BARGE/BOAT	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
MECHANIC/MAINTENANCE	-	-	-	4	4	4	2	6	-	-	-	16	16	16	-	4	4
SUPERVISOR/FOREMAN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, SURFACE:	-	-	-	17	17	17	5	22	-	-	-	382	382	382	-	22	22
BULLDOZER/MOBILE EQUIP. ---	-	-	-	11	11	11	6	17	-	-	-	245	245	245	-	22	22
DRAG/CRANE/SHOVEL OPR. ---	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
DREDGE/BARGE/BOAT ---	-	-	-	4	5	5	6	11	-	-	300	48	348	348	300	12	70
DRILL OPERATOR ---	-	-	1	3	3	3	9	12	-	-	-	128	128	128	-	43	43
ELECTRICIAN ---	-	-	-	6	7	7	9	16	-	-	50	46	96	96	50	8	14
FRONT END LOADER ---	-	-	1	18	18	18	18	36	-	-	-	257	257	257	-	14	14
LABORER ---	-	-	-	66	67	67	66	133	-	-	50	843	893	893	50	13	13
MECHANIC/MAINTENANCE ---	-	-	1	4	4	4	7	11	-	-	-	70	70	70	-	18	18
MINER ---	-	-	-	12	13	13	6	19	-	-	400	222	622	622	400	18	48
PREP. PLANT OPR. ---	-	-	1	1	1	1	-	1	-	-	-	5	5	5	-	5	5
RAIL TRANSP. AND HAUL ---	-	-	-	12	12	12	13	25	-	-	-	223	223	223	-	19	19
SUPERVISOR/FOREMAN ---	-	-	-	3	4	4	5	9	-	-	50	16	66	66	50	5	16
TECH./PROF./CLERICAL ---	-	-	1	19	20	20	15	35	-	-	50	619	669	669	50	33	33
TRUCK DRIVER ---	-	-	-	3	3	3	7	10	-	-	-	29	29	29	-	10	10
WELDER/MACHINIST ---	-	-	-	8	8	8	20	28	-	-	-	83	83	83	-	10	10
N.E.C. OR UNKNOWN ---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE -----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21
TOTAL OR AVERAGE, MINING:	-	-	-	3	3	3	5	8	-	-	-	112	112	112	-	37	37
BELTMAN/BOOM OPR. ---	-	-	-	19	19	19	6	25	-	-	-	498	498	498	-	26	26
BULLDOZER/MOBILE EQUIP. ---	-	-	-	1	1	1	-	1	-	-	-	70	70	70	-	70	70
CAR DUMP/GRIZZLY/SCREEN ---	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
CLEANUP/VENTILATION ---	-	-	-	11	11	11	6	17	-	-	-	245	245	245	-	22	22
DRAG/CRANE/SHOVEL OPR. ---	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
DREDGE/BARGE/BOAT ---	-	-	-	2	10	12	10	22	-	375	401	776	776	776	188	40	65
DRILL OPERATOR ---	-	-	-	7	7	7	14	21	-	-	321	321	321	321	-	46	46
ELECTRICIAN ---	-	-	-	7	8	8	11	19	-	-	50	48	98	98	50	7	12
FRONT END LOADER ---	-	-	1	10	10	10	9	19	-	-	-	356	356	356	-	36	36
HAUL, DUMP ---	-	-	-	51	52	52	52	104	-	-	50	1,279	1,329	1,329	50	25	26
LABORER ---	-	-	1	1	1	1	-	1	-	-	-	163	163	163	-	163	163
LOADING MACH. OPR. ---	-	-	-	3	116	119	116	235	-	150	2,785	2,935	2,935	2,935	50	24	25
MECHANIC/MAINTENANCE ---	2	-	1	25	26	28	32	60	12,000	50	541	591	12,591	591	50	22	450
MINER ---	-	-	-	10	10	10	8	18	-	-	-	163	163	163	-	16	16
MINING MACH. OPR. ---	-	-	-	3	3	3	1	4	-	-	60	60	60	60	-	20	20
POWDERMAN/BLASTER ---	-	-	-	13	14	14	11	25	-	400	224	624	624	624	400	17	45
PREP. PLANT OPR. ---	-	-	1	2	2	2	2	4	-	-	-	45	45	45	-	22	22
RAIL TRANSP. AND HAUL ---	-	-	-	9	9	9	7	16	-	-	-	144	144	144	-	16	16
ROCK/ROOF BOLTER ---	-	-	-	17	17	17	22	39	-	-	-	579	579	579	-	34	34
SUPERVISOR/FOREMAN ---	-	-	-	6	7	7	6	13	-	-	50	44	94	94	50	7	13
TECH./PROF./CLERICAL ---	-	-	1	21	22	22	17	39	-	-	50	667	717	717	50	32	33
TRUCK DRIVER ---	-	-	-	4	4	4	10	14	-	-	-	61	61	61	-	15	15
WELDER/MACHINIST ---	-	-	-	27	27	27	25	52	-	-	-	514	514	514	-	19	19
N.E.C. OR UNKNOWN ---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE -----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	10,529	107	25	58
INDEPENDENT SHOPS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECHANIC/MAINTENANCE ---	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE -----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PROCESSING PLANTS:-----	-	-	-	2	2	2	1	3	-	-	-	10	10	10	-	5	5
BELTMAN/BOOM OPR.-----	-	-	-	11	11	11	5	16	-	-	-	295	295	295	-	27	27
BULLDOZER/MOBILE EQUIP.---	-	-	-	6	6	6	2	8	-	-	-	204	204	204	-	34	34
CLEANUP/VENTILATION-----	-	-	-	2	2	2	1	3	-	-	-	186	186	186	-	93	93
DRAG/CRAVE/SHOVEL OPR.---	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
DREDGE/BARGE/BOAT-----	-	-	-	3	3	3	1	4	-	-	-	19	19	19	-	6	6
DRILL OPERATOR-----	-	-	1	19	20	20	21	41	-	-	175	582	757	757	175	31	38
ELECTRICIAN-----	-	-	-	34	34	34	16	50	-	-	-	1,566	1,566	1,566	-	46	46
FRONT END LOADER-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
HAUL DUMP-----	-	-	-	115	115	115	86	201	-	-	-	1,937	1,937	1,937	-	17	17
LABORER-----	1	-	4	154	158	159	180	339	6,000	-	275	3,624	3,899	9,899	69	24	62
MECHANIC/MAINTENANCE-----	-	-	-	4	4	4	2	6	-	-	-	116	116	116	-	29	29
MINER-----	-	-	7	364	371	371	226	597	-	-	875	6,396	7,271	7,271	125	18	20
PREP. PLANT OPR.-----	-	-	-	3	3	3	4	7	-	-	-	11	11	11	-	4	4
RAIL TRANSP. AND HAUL-----	-	-	-	38	38	38	32	70	-	-	-	982	982	982	-	26	26
SUPERVISOR/FOREMAN-----	-	-	1	11	12	12	12	24	-	-	60	214	274	274	60	19	23
TECH./PROF./CLERICAL-----	-	-	-	10	10	10	8	18	-	-	-	251	251	251	-	25	25
TRUCK DRIVER-----	-	-	2	10	12	12	20	32	-	-	490	59	549	549	245	6	46
WELDER/MACHINIST-----	-	-	1	26	27	27	19	46	-	-	50	1,080	1,130	1,130	50	42	42
N.E.C. OR UNKNOWN-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE																	
ALL MINES AND PLANTS:																	
BELTMAN/BOOM OPR.	-	-	-	5	5	5	6	11	-	-	-	122	122	122	-	24	
BULLDOZER/MOBILE EQUIP.	-	-	-	30	30	30	11	41	-	-	-	793	793	793	-	26	
CAR DUMP/GRIZZLY/SCREEN	-	-	-	1	1	1	-	1	-	-	-	70	70	70	-	70	
CLEANUP/VENTILATION	-	-	-	7	7	7	2	9	-	-	-	235	235	235	-	34	
DRAW/CRAVE/SWELL OPR.	-	-	-	13	13	13	7	20	-	-	-	431	431	431	-	33	
DREDGE/BARGE/BOAT	-	-	-	2	2	2	2	4	-	-	-	4	4	4	-	2	
DRILL OPERATOR	-	-	2	13	15	15	11	26	-	-	375	420	795	795	188	32	
ELECTRICIAN	-	-	1	26	27	27	35	62	-	-	175	903	1,078	1,078	175	35	
FRONT END LOADER	-	-	1	41	42	42	27	69	-	-	50	1,614	1,664	1,664	50	39	
HAUL DUMP	-	-	-	11	11	11	10	21	-	-	-	358	358	358	-	33	
LABORER	-	-	1	166	167	167	138	305	-	-	50	3,216	3,266	3,266	50	19	
LOADING MACH. OPR.	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	
MECHANIC/MAINTENANCE	1	-	7	270	277	278	298	576	6,000	-	425	6,409	6,834	12,834	61	24	
MINER	2	-	1	29	30	32	34	66	12,000	-	50	657	707	12,707	50	23	
MINING MACH. OPR.	-	-	-	10	10	10	8	18	-	-	-	163	163	163	-	16	
POWDERMAN/BLASTER	-	-	-	3	3	3	1	4	-	-	-	60	60	60	-	20	
PREP. PLANT OPR.	-	-	8	377	385	385	237	622	-	-	1,275	6,620	7,895	7,895	159	18	
RAIL TRANSP. AND HAUL	-	-	-	5	5	5	6	11	-	-	-	56	56	56	-	11	
ROCK/ROOF BOLTER	-	-	-	9	9	9	7	16	-	-	-	144	144	144	-	16	
SUPERVISOR/FOREMAN	-	-	-	55	55	55	54	109	-	-	-	1,561	1,561	1,561	-	28	
TECH./PROF./CLERICAL	-	-	2	17	19	19	18	37	-	-	110	258	368	368	55	15	
TRUCK DRIVER	-	-	1	31	32	32	25	57	-	-	50	918	968	968	50	30	
WELDER/MACHINIST	-	-	2	14	16	16	30	46	-	-	490	120	610	610	245	9	
N.E.C. OR UNKNOWN	-	-	1	53	54	54	44	98	-	-	50	1,594	1,644	1,644	50	30	
TOTAL OR AVERAGE	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	
OFFICE:																	
CAR DUMP/GRIZZLY/SCREEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
DRILL OPERATOR	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	
LABORER	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	
SUPERVISOR/FOREMAN	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	
TECH./PROF./CLERICAL	-	-	1	2	3	3	2	5	-	-	50	5	55	55	50	2	
TRUCK DRIVER	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
N.E.C. OR UNKNOWN	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	
TOTAL OR AVERAGE	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:	-	-	-	5	5	5	6	11	-	-	-	122	122	122	-	24	24
BELTMAN/BOOM OPR-----	-	-	-	30	30	30	11	41	-	-	-	793	793	793	-	26	26
BULLDOZER/MOBILE EQUIP-----	-	-	-	1	1	1	1	2	-	-	-	70	70	70	-	70	70
CAR DUMP/GRIZZLY/SCREEN-----	-	-	-	7	7	7	2	9	-	-	-	235	235	235	-	34	34
CLEANUP/VENTILATION-----	-	-	-	13	13	13	7	20	-	-	-	431	431	431	-	33	33
DRAG/CRAVE/SNOVEL OPR-----	-	-	-	2	2	2	2	4	-	-	-	4	4	4	-	2	2
DREDGE/BARGE/BOAT-----	-	-	-	14	16	16	11	27	-	375	423	798	798	188	30	50	
DRILL OPERATOR-----	-	-	2	26	27	27	35	62	-	-	-	175	903	1,078	175	35	40
ELECTRICIAN-----	-	-	1	41	42	42	27	69	-	-	-	50	1,614	1,664	1,664	50	39
FRONT END LOADER-----	-	-	-	11	11	11	10	21	-	-	-	-	358	358	-	33	33
HAUL, DUMP-----	-	-	1	167	168	168	139	307	-	-	50	3,218	3,268	3,268	50	19	19
LABORER-----	-	-	-	1	1	1	-	1	-	-	-	-	163	163	-	163	163
LOADING MACH. OPR-----	1	-	7	270	277	278	298	576	6,000	-	425	6,409	12,834	61	24	46	
MECHANIC/MAINTENANCE-----	2	-	1	29	30	32	34	66	12,000	-	50	657	707	50	23	397	
MINER-----	-	-	-	10	10	10	8	18	-	-	-	-	163	163	-	16	16
MINING MACH. OPR-----	-	-	-	3	3	3	1	4	-	-	-	-	60	60	-	20	20
POWDERMAN/BLASTER-----	-	-	-	377	385	385	237	622	-	-	-	1,275	6,620	7,895	159	18	21
PREP. PLANT OPR-----	-	-	8	5	5	5	6	11	-	-	-	-	56	56	-	11	11
RAIL TRANSP. AND HAUL-----	-	-	-	9	9	9	7	16	-	-	-	-	144	144	-	16	16
ROCK/ROOF BOLTER-----	-	-	-	55	55	55	57	112	-	-	-	-	1,561	1,561	-	28	28
SUPERVISOR/FOREMAN-----	-	-	-	19	22	22	20	42	-	-	160	263	423	53	14	19	
TECH./PROF./CLERICAL-----	-	-	3	31	32	32	26	58	-	-	50	918	968	50	30	30	
TRUCK DRIVER-----	-	-	1	14	16	16	30	46	-	-	490	120	610	245	9	38	
WELDER/MACHINIST-----	-	-	2	54	55	55	45	100	-	-	50	1,595	1,645	50	30	30	
N.E.C. OR UNKNOWN-----	-	-	1						-	-							
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND:																	
ELECTRICAL-----	-	-	-	2	2	2	-	2	-	-	-	15	15	15	-	8	8
EXPLOSIVE AND BREAKING AGENT-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR SLIDING MATERIAL-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	2	-	-	5	5	7	2	9	12,000	-	-	291	291	12,291	-	58	1,756
FALL OF ROOF (UNDER- GROUND MINES ONLY)-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
FIRE-----	-	-	-	3	3	3	1	4	-	-	-	174	174	174	-	58	58
HANDLING MATERIAL-----	-	-	2	40	42	42	56	98	-	-	100	1,481	1,581	1,581	50	37	38
HAND TOOL-----	-	-	-	16	16	16	24	40	-	-	-	275	275	275	-	17	17
NONPOWERED HAULAGE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
POWERED HAULAGE-----	-	-	-	20	20	20	19	39	-	-	-	743	743	743	-	37	37
HOISTING-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
MACHINERY-----	-	-	-	23	23	23	17	40	-	-	-	761	761	761	-	33	33
SLIP OR FALL OF PERSON-----	-	-	-	26	26	26	9	35	-	-	-	986	986	986	-	38	38
STEPPING OR KNEELING ON OBJECT-----	-	-	-	6	6	6	7	13	-	-	-	240	240	240	-	40	40
STRIKING OR BUMPING-----	-	-	-	1	1	1	1	2	-	-	-	88	88	88	-	88	88
OTHER INJURIES-----	-	-	-	4	4	4	3	7	-	-	-	49	49	49	-	12	12
TOTAL OR AVERAGE-----	2	-	2	153	155	157	149	306	12,000	-	100	5,193	5,293	17,293	50	34	110
SURFACE AT UNDERGROUND:																	
ELECTRICAL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HANDLING MATERIAL-----	-	-	2	8	10	10	14	24	-	-	100	254	354	354	50	32	35
HAND TOOL-----	-	-	-	5	5	5	3	8	-	-	-	93	93	93	-	19	19
NONPOWERED HAULAGE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
POWERED HAULAGE-----	-	-	1	7	8	8	1	9	-	-	75	322	397	397	75	46	50
MACHINERY-----	-	-	-	2	2	2	5	7	-	-	-	2	2	2	-	1	1
SLIP OR FALL OF PERSON-----	-	-	-	10	10	10	4	14	-	-	-	237	237	237	-	24	24
STEPPING OR KNEELING ON OBJECT-----	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
STRIKING OR BUMPING-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
TOTAL OR AVERAGE-----	-	-	3	34	37	37	29	66	-	-	175	942	1,117	1,117	58	28	30

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, UG:	-	-	-	2	2	2	1	3	-	-	-	15	15	15	-	8	8
ELECTRICAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXPLOSIVE AND BREAKING AGENT-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR SLIDING MATERIAL-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	2	-	-	5	5	7	2	9	12,000	-	-	291	291	12,291	-	58	1,756
FALL OF ROOF (UNDER- GROUND MINES ONLY)-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
FIRE-----	-	-	-	3	3	3	1	4	-	-	-	174	174	174	-	58	58
HANDLING MATERIAL-----	-	-	4	48	52	52	70	122	-	-	200	1,735	1,935	1,935	50	36	37
HAND TOOL-----	-	-	-	21	21	21	27	48	-	-	-	368	368	368	-	18	18
NONPOWERED HAULAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
POWERED HAULAGE-----	-	-	1	27	28	28	20	48	-	-	75	1,065	1,140	1,140	75	39	41
HOISTING-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
MACHINERY-----	-	-	-	25	25	25	22	47	-	-	-	763	763	763	-	31	31
SLIP OR FALL OF PERSON-----	-	-	-	36	36	36	13	49	-	-	-	1,223	1,223	1,223	-	34	34
STEPPING OR KNEELING ON OBJECT-----	-	-	-	7	7	7	7	14	-	-	-	269	269	269	-	38	38
STRIKING OR BUMPING-----	-	-	-	2	2	2	1	3	-	-	-	93	93	93	-	46	46
OTHER INJURIES-----	-	-	-	4	4	4	3	7	-	-	-	49	49	49	-	12	12
TOTAL OR AVERAGE-----	2	-	5	187	192	194	178	372	12,000	-	275	6,135	6,410	18,410	55	33	95
SURFACE MINES:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPEN PIT:	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
ELECTRICAL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL UNDER PRESSURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
HANDLING MATERIAL-----	-	-	4	56	60	60	70	130	-	-	200	1,130	1,330	1,330	50	20	22
HAND TOOL-----	-	-	-	22	22	22	31	53	-	-	-	443	443	443	-	20	20
POWERED HAULAGE-----	-	-	1	23	24	24	11	35	-	-	400	277	677	677	400	12	28
IGNITION OR EXPLOSION OF GAS OR DUST-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
MACHINERY-----	-	-	1	22	23	23	33	56	-	-	300	262	562	562	300	12	24
SLIP OR FALL OF PERSON-----	-	-	-	51	51	51	28	79	-	-	-	992	992	992	-	19	19
STEPPING OR KNEELING ON OBJECT-----	-	-	-	6	6	6	2	8	-	-	-	80	80	80	-	13	13
STRIKING OR BUMPING-----	-	-	-	1	1	1	2	3	-	-	-	6	6	6	-	6	6
OTHER INJURIES-----	-	-	-	1	1	1	8	9	-	-	-	5	5	5	-	5	5
TOTAL OR AVERAGE-----	-	-	6	183	189	189	189	378	-	-	900	3,200	4,100	4,100	150	17	22

TABLE 18 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
DREDGE:																	
HANDLING MATERIAL-----	-	-	-	3	3	3	-	3	-	-	-	14	14	14	-	5	5
POWERED HAULAGE-----	-	-	-	1	1	1	2	3	-	-	-	3	3	3	-	3	3
MACHINERY-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
SLIP OR FALL OF PERSON-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OTHER INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	5	5	5	4	9	-	-	-	19	19	19	-	4	4
TOTAL OR AVERAGE, SURFACE:																	
ELECTRICAL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL UNDER PRESSURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
HANDLING MATERIAL-----	-	-	4	59	63	63	70	133	-	-	200	1,144	1,344	1,344	50	19	21
HAND TOOL-----	-	-	-	22	22	22	31	53	-	-	-	443	443	443	-	20	20
POWERED HAULAGE-----	-	-	1	24	25	25	13	38	-	-	400	280	680	680	400	12	27
IGNITION OR EXPLOSION OF GAS OR DUST-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
MACHINERY-----	-	-	1	23	24	24	33	57	-	-	300	264	564	564	300	11	24
SLIP OR FALL OF PERSON-----	-	-	-	51	51	51	29	80	-	-	-	992	992	992	-	19	19
STEPPING OR KNEELING ON OBJECT-----	-	-	-	6	6	6	2	8	-	-	-	80	80	80	-	13	13
STRIKING OR BUMPING-----	-	-	-	1	1	1	2	3	-	-	-	6	6	6	-	6	6
OTHER INJURIES-----	-	-	-	1	1	1	9	10	-	-	-	5	5	5	-	5	5
TOTAL OR AVERAGE-----	-	-	6	188	194	194	193	387	-	-	900	3,219	4,119	4,119	150	17	21

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:	-	-	-	2	2	2	3	5	-	-	-	15	15	15	-	8	8
ELECTRICAL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
UNDER PRESSURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLOSIVE AND BREAKING	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
AGENT-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
SLIDING MATERIAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALL OF FACE, RIB, SIDE	2	-	-	5	5	7	2	9	12,000	-	-	291	291	12,291	-	58	1,756
OR HIGHWALL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALL OF ROOF (UNDER-	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
GROUND MINES ONLY)-----	-	-	-	3	3	3	1	4	-	-	-	174	174	174	-	58	58
FIRE-----	-	-	-	107	115	115	140	255	-	-	400	2,879	3,279	3,279	50	27	29
HANDLING MATERIAL-----	-	-	8	43	43	43	58	101	-	-	-	811	811	811	-	19	19
HAND TOOL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
NONPOWERED HAULAGE-----	-	-	-	51	53	53	33	86	-	-	475	1,345	1,820	1,820	238	26	34
POWERED HAULAGE-----	-	-	2	1	1	1	-	1	-	-	-	4	4	4	-	4	4
HOISTING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IGNITION OR EXPLOSION	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
OF GAS OR DUST-----	-	-	-	48	49	49	55	104	-	-	300	1,027	1,327	1,327	300	21	27
MACHINERY-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SLIP OR FALL OF	-	-	-	87	87	87	42	129	-	-	-	2,215	2,215	2,215	-	25	25
PERSON-----	-	-	-	13	13	13	9	22	-	-	-	349	349	349	-	27	27
STEPPING OR KNEELING	-	-	-	3	3	3	3	6	-	-	-	99	99	99	-	33	33
ON OBJECT-----	-	-	-	5	5	5	12	17	-	-	-	54	54	54	-	11	11
STRIKING OR BUMPING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER INJURIES-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	2	-	11	375	386	388	371	759	12,000	-	1,175	9,354	10,529	22,529	107	25	58
INDEPENDENT SHOPS:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAND TOOL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PROCESSING PLANTS:	-	-	-	9	9	9	1	10	-	-	-	94	94	94	-	10	10
ELECTRICAL-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL UNDER PRESSURE-----	-	-	-	2	2	2	1	3	-	-	-	53	53	53	-	26	26
FALLING, ROLLING, OR SLIDING MATERIAL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	-	-	-	3	3	3	3	6	-	-	-	15	15	15	-	5	5
FIRE-----	-	-	7	378	385	385	265	650	-	-	400	7,853	8,253	8,253	57	21	21
HANDLING MATERIAL-----	-	-	2	51	53	53	113	166	-	-	450	1,079	1,529	1,529	225	21	29
HAND TOOL-----	-	-	-	6	6	6	5	11	-	-	-	16	16	16	-	3	3
NONPOWERED HAULAGE-----	-	-	2	59	61	61	24	85	-	-	250	1,620	1,870	1,870	125	27	31
POWERED HAULAGE-----	-	-	-	2	2	2	-	2	-	-	-	8	8	8	-	4	4
HOISTING-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
IGNITION OR EXPLOSION OF GAS OR DUST-----	-	-	4	58	62	62	86	148	-	-	775	935	1,710	1,710	194	16	28
MACHINERY-----	-	-	1	208	209	209	94	303	-	-	50	5,337	5,387	5,387	50	26	26
SLIP OR FALL OF PERSON-----	-	-	-	18	18	18	10	28	-	-	-	159	159	159	-	9	9
STEPPING OR KNEELING ON OBJECT-----	-	-	-	6	6	6	8	14	-	-	-	81	81	81	-	14	14
STRIKING OR BUMPING-----	1	-	-	13	13	14	25	39	6,000	-	-	269	269	6,269	-	21	448
OTHER INJURIES-----	1	-	-	13	13	14	25	39	6,000	-	-	269	269	6,269	-	21	448
TOTAL OR AVERAGE-----	1	-	16	814	830	831	638	1,469	6,000	-	1,925	17,535	19,460	25,460	120	22	31

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE ALL MINES AND PLANTS:	-	-	-	11	11	11	4	15	-	-	-	109	109	109	-	10	10
ELECTRICAL-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDER PRESSURE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXPLOSIVE AND BREAKING	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
AGENT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SLIDING MATERIAL-----	-	-	-	3	3	3	1	4	-	-	-	54	54	54	-	18	18
FALL OF FACE, RIB, SIDE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OR HIGHWALL-----	2	-	-	5	5	7	3	10	12,000	-	-	291	291	12,291	-	58	1,756
FALL OF ROOF (UNDER-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GROUND MINES ONLY)-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
FIRE-----	-	-	-	6	6	6	4	10	-	-	-	189	189	189	-	32	32
HANDLING MATERIAL-----	-	-	15	485	500	500	405	905	-	-	800	10,732	11,532	11,532	53	22	23
HAND TOOL-----	-	-	2	94	96	96	173	269	-	-	450	1,890	2,340	2,340	225	20	24
NONPOWERED HAULAGE-----	-	-	-	6	6	6	7	13	-	-	-	16	16	16	-	3	3
POWERED HAULAGE-----	-	-	4	110	114	114	57	171	-	-	725	2,965	3,690	3,690	181	27	32
HOTSTING-----	-	-	-	3	3	3	-	3	-	-	-	12	12	12	-	4	4
IGNITION OR EXPLOSION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OF GAS OR DUST-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
MACHINERY-----	-	-	5	106	111	111	141	252	-	-	1,075	1,962	3,037	3,037	215	19	27
SLIP OR FALL OF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERSON-----	-	-	1	295	296	296	136	432	-	-	50	7,552	7,602	7,602	50	26	26
STEPPING OR KNEELING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ON OBJECT-----	-	-	-	31	31	31	19	50	-	-	-	508	508	508	-	16	16
STRIKING OR BUMPING	-	-	-	9	9	9	11	20	-	-	-	180	180	180	-	20	20
OTHER INJURIES-----	1	-	-	18	18	19	37	56	6,000	-	-	323	323	6,323	-	18	333
TOTAL OR AVERAGE-----	3	-	27	1,189	1,216	1,219	1,011	2,230	18,000	-	3,100	26,889	29,989	47,989	115	23	39
OFFICE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANDLING MATERIAL-----	-	-	1	2	3	3	3	6	-	-	50	2	52	52	50	1	17
HAND TOOL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
SLIP OR FALL OF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERSON-----	-	-	-	2	2	2	3	5	-	-	-	6	6	6	-	3	3
OTHER INJURIES-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	1	5	6	6	9	15	-	-	50	11	61	61	50	2	10

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
GRAND TOTAL OR AVERAGE:-----	-	-	-	11	11	11	4	15	-	-	-	109	109	109	-	10	10
ELECTRICAL-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL UNDER PRESSURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EXPLOSIVE AND BREAKING AGENT-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR SLIDING MATERIAL-----	-	-	-	3	3	3	1	4	-	-	-	54	54	54	-	18	18
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	2	-	-	5	5	7	3	10	12,000	-	-	291	291	12,291	-	58	1,756
FALL OF ROOF (UNDER- GROUND MINES ONLY)-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
FIRE-----	-	-	-	6	6	6	4	10	-	-	-	189	189	189	-	32	32
HANDLING MATERIAL-----	-	-	16	487	503	503	408	911	-	-	850	10,734	11,584	11,584	53	22	23
HAND TOOL-----	-	-	2	94	96	96	174	270	-	-	450	1,890	2,340	2,340	225	20	24
NONPOWERED HAULAGE-----	-	-	-	6	6	6	7	13	-	-	-	16	16	16	-	3	3
POWERED HAULAGE-----	-	-	4	110	114	114	57	171	-	-	725	2,965	3,690	3,690	181	27	32
HOISTING-----	-	-	-	3	3	3	-	3	-	-	-	12	12	12	-	4	4
IGNITION OR EXPLOSION OF GAS OR DUST-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
MACHINERY-----	-	-	5	107	112	112	141	253	-	-	1,075	1,965	3,040	3,040	215	18	27
SLIP OR FALL OF PERSON-----	-	-	1	297	298	298	139	437	-	-	50	7,558	7,608	7,608	50	25	26
STEPPING OR KNEELING ON OBJECT-----	-	-	-	31	31	31	19	50	-	-	-	508	508	508	-	16	16
STRIKING OR BUMPING-----	-	-	-	9	9	9	11	20	-	-	-	180	180	180	-	20	20
OTHER INJURIES-----	1	-	-	18	18	19	39	58	6,000	-	-	323	323	6,323	-	18	333
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ELECTRICAL:	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
FOREARM-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
HAND-----	-	-	-	1	1	1	1	2	-	-	-	29	29	29	-	29	29
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
BODY SYSTEMS-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
MULTIPLE PARTS OF BODY----	-	-	-	2	2	2	-	2	-	-	-	35	35	35	-	18	18
TOTAL OR AVERAGE-----	-	-	-	11	11	11	4	15	-	-	-	109	109	109	-	10	10
EXPLODING VESSEL UNDER PRESSURE:																	
ELBOW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ABDOMEN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
EXPLOSIVE AND BREAKING AGENT:																	
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
KNEE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FALLING, ROLLING, OR SLIDING MATERIAL:																	
NECK-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FOOT-----	-	-	-	2	2	2	-	2	-	-	-	52	52	52	-	26	26
MULTIPLE PARTS OF BODY----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE-----	-	-	-	3	3	3	1	4	-	-	-	54	54	54	-	18	18
FALL OF FACE, RIB, SIDE OR HIGHWALL:																	
HAND-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
FINGER(S)-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
LOWER LEG-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FOOT-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BODY SYSTEMS-----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
MULTIPLE PARTS OF BODY----	-	-	-	2	2	2	1	3	-	-	-	288	288	288	-	144	144
TOTAL OR AVERAGE-----	2	-	-	5	5	7	3	10	12,000	-	-	291	291	12,291	-	58	1,756

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
FALL OF ROOF (UNDER- GROUND MINES ONLY):																	
HEAD, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
FOREARM-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
HAND-----	-	-	-	1	1	1	1	1	-	-	-	2	2	2	-	2	
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
BACK-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
TRUNK, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
LOWER LEG-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	
MULTIPLE PARTS OF BODY----	-	-	-	3	3	3	-	3	-	-	-	47	47	47	-	16	
TOTAL OR AVERAGE-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	
FIRE:																	
FACE, NEC-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	
FOREARM-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
HAND-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	
CHEST-----	-	-	-	1	1	1	-	1	-	-	-	13	13	13	-	13	
TRUNK, NEC-----	-	-	-	2	2	2	-	2	-	-	-	161	161	161	-	80	
LOWER EXTREMITIES, NEC----	-	-	-	1	1	1	1	2	-	-	-	8	8	8	-	8	
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	189	189	189	-	32	

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
HANDLING MATERIAL :	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
EAR-----	-	-	-	-	-	-	48	66	-	-	-	40	40	40	-	2	2
EYE-----	-	-	-	18	18	18	3	3	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NOSE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SCALP-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SKULL-----	-	-	-	1	1	1	1	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	2	2	2	5	7	-	-	-	11	11	11	-	6	6
HEAD, NEC-----	-	-	-	1	1	1	9	10	-	-	-	7	7	7	-	7	7
NECK-----	-	-	-	13	13	13	5	18	-	-	-	74	74	74	-	6	6
UPPER ARM-----	-	-	-	4	4	4	-	4	-	-	-	122	122	122	-	30	30
ELBOW-----	-	-	-	12	12	12	10	22	-	-	-	113	113	113	-	9	9
FOREARM-----	-	-	-	5	5	5	8	13	-	-	-	367	367	367	-	73	73
WRIST-----	-	-	-	13	13	13	13	26	-	-	-	168	168	168	-	13	13
HAND-----	-	-	-	19	19	19	24	43	-	-	-	213	213	213	-	11	11
FINGER(S)-----	-	-	1	48	49	49	122	171	-	-	100	620	720	720	100	13	15
UPPER EXTREMITIES, NEC-----	-	-	-	9	9	9	11	20	-	-	-	211	211	211	-	23	23
ABDOMEN-----	-	-	-	4	4	4	2	6	-	-	-	53	53	53	-	13	13
BACK-----	-	-	-	211	211	211	78	289	-	-	-	5,331	5,331	5,331	-	25	25
CHEST-----	-	-	-	7	7	7	3	10	-	-	-	88	88	88	-	13	13
PELVIC REGION-----	-	-	15	7	22	22	4	26	-	-	750	56	806	806	50	8	37
SHOULDER(S)-----	-	-	-	36	36	36	16	52	-	-	-	1,003	1,003	1,003	-	28	28
TRUNK, NEC-----	-	-	-	3	3	3	2	5	-	-	-	34	34	34	-	11	11
THIGH-----	-	-	-	1	1	1	1	2	-	-	-	10	10	10	-	10	10
KNEE-----	-	-	-	19	19	19	12	31	-	-	-	661	661	661	-	35	35
LOWER LEG-----	-	-	-	4	4	4	2	6	-	-	-	74	74	74	-	18	18
ANKLE-----	-	-	-	7	7	7	1	8	-	-	-	69	69	69	-	10	10
FOOT-----	-	-	-	15	15	15	8	23	-	-	-	277	277	277	-	18	18
TOE(S)-----	-	-	-	5	5	5	-	5	-	-	-	129	129	129	-	26	26
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	6	9	-	-	-	55	55	55	-	18	18
BODY SYSTEMS-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
MULTIPLE PARTS OF BODY-----	-	-	-	19	19	19	9	28	-	-	-	723	723	723	-	38	38
TOTAL OR AVERAGE-----	-	-	16	487	503	503	408	911	-	-	850	10,734	11,584	11,584	53	22	23

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
HAND TOOL:																	
EYE-----	-	-	-	2	2	2	13	15	-	-	-	71	71	71	-	36	36
JAW-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	13	13	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	1	1	1	8	9	-	-	-	2	2	2	-	2	2
HEAD, NEC-----	-	-	-	4	4	4	6	10	-	-	-	175	175	175	-	44	44
NECK-----	-	-	-	2	2	2	2	4	-	-	-	20	20	20	-	10	10
UPPER ARM-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
ELBOW-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
FOREARM-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
WRIST-----	-	-	-	4	4	4	8	12	-	-	-	17	17	17	-	4	4
HAND-----	-	-	-	8	8	8	14	22	-	-	-	78	78	78	-	10	10
FINGER(S)-----	-	-	1	18	19	19	64	83	-	-	400	241	641	641	400	13	34
UPPER EXTREMITIES, NEC-----	-	-	-	3	3	3	4	7	-	-	-	16	16	16	-	5	5
ABDOMEN-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
BACK-----	-	-	-	22	22	22	7	29	-	-	-	562	562	562	-	26	26
CHEST-----	-	-	-	1	1	1	2	3	-	-	-	7	7	7	-	7	7
PELVIC REGION-----	-	-	1	2	3	3	-	3	-	-	50	42	92	92	50	21	31
SHOULDER(S)-----	-	-	-	8	8	8	4	12	-	-	-	95	95	95	-	12	12
TRUNK, NEC-----	-	-	-	3	3	3	1	4	-	-	-	39	39	39	-	13	13
THIGH-----	-	-	-	2	2	2	2	4	-	-	-	19	19	19	-	10	10
KNEE-----	-	-	-	3	3	3	6	9	-	-	-	51	51	51	-	17	17
LOWER LEG-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	41	41	41	-	41	41
FOOT-----	-	-	-	2	2	2	1	3	-	-	-	45	45	45	-	22	22
TOE(S)-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	5	8	-	-	-	104	104	104	-	35	35
MULTIPLE PARTS OF BODY-----	-	-	-	2	2	2	-	2	-	-	-	251	251	251	-	126	126
TOTAL OR AVERAGE-----	-	-	2	94	96	96	174	270	-	-	450	1,890	2,340	2,340	225	20	24
NONPOWERED HAULAGE:																	
EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
BACK-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
PELVIC REGION-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TRUNK, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
FOOT-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
MULTIPLE PARTS OF BODY-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE-----	-	-	-	6	6	6	7	13	-	-	-	16	16	16	-	3	3

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
POWERED HAULAGE:																	
EYE-----	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
MOUTH/TEETH/TONGUE-----	-	-	-	2	2	2	-	2	-	-	-	55	55	55	-	28	28
FACE, NEC-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
HEAD, NEC-----	-	-	-	2	2	2	3	5	-	-	-	22	22	22	-	11	11
NECK-----	-	-	-	4	4	4	8	12	-	-	-	245	245	245	-	61	61
ELBOW-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FOREARM-----	-	-	-	2	2	2	1	3	-	-	-	249	249	249	-	124	124
WRIST-----	-	-	-	4	4	4	-	4	-	-	-	140	140	140	-	35	35
HAND-----	-	-	-	6	6	6	2	8	-	-	-	47	47	47	-	8	8
FINGER(S)-----	-	-	4	10	14	14	12	26	-	-	725	211	936	936	181	21	67
UPPER EXTREMITIES, NEC-----	-	-	-	5	5	5	1	6	-	-	-	186	186	186	-	37	37
ABDOMEN-----	-	-	-	1	1	1	-	1	-	-	-	52	52	52	-	52	52
BACK-----	-	-	-	27	27	27	5	32	-	-	-	348	348	348	-	13	13
CHEST-----	-	-	-	2	2	2	3	5	-	-	-	44	44	44	-	22	22
PELVIC REGION-----	-	-	-	1	1	1	1	2	-	-	-	18	18	18	-	18	18
SHOULDER(S)-----	-	-	-	3	3	3	3	6	-	-	-	35	35	35	-	12	12
TRUNK, NEC-----	-	-	-	2	2	2	-	2	-	-	-	51	51	51	-	26	26
KNEE-----	-	-	-	4	4	4	1	5	-	-	-	70	70	70	-	18	18
LOWER LEG-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ANKLE-----	-	-	-	4	4	4	1	5	-	-	-	364	364	364	-	91	91
FOOT-----	-	-	-	8	8	8	-	9	-	-	-	112	112	112	-	14	14
TOE(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	5	5	5	3	8	-	-	-	220	220	220	-	44	44
BODY SYSTEMS-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
MULTIPLE PARTS OF BODY-----	-	-	-	14	14	14	5	19	-	-	-	491	491	491	-	35	35
TOTAL OR AVERAGE-----	-	-	4	110	114	114	57	171	-	-	725	2,965	3,690	3,690	181	27	32
HOISTING:																	
EYE-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
FINGER(S)-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	12	12	12	-	4	4
IGNITION OR EXPLOSION OF GAS OR DUST:																	
NECK-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
MULTIPLE PARTS OF BODY-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
TOTAL OR AVERAGE-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					TOTAL NFDL							
		TOTAL	PARTIAL						TOTAL	PARTIAL						
MACHINERY:	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	
EAR-----	-	-	-	-	-	51	72	-	-	-	47	47	47	-	2	2
EYE-----	-	-	-	21	21	1	1	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	1	1	-	4	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
SCALP-----	-	-	-	1	1	1	1	-	-	-	3	3	3	-	3	3
FACE, NEC-----	-	-	-	1	1	1	3	4	-	-	4	4	4	-	4	4
HEAD, NEC-----	-	-	-	1	1	1	3	4	-	-	7	7	7	-	7	7
NECK-----	-	-	-	1	1	1	1	2	-	-	2	2	2	-	2	2
ELBOW-----	-	-	-	1	1	1	1	2	-	-	2	2	2	-	2	2
FOREARM-----	-	-	-	2	2	2	2	4	-	-	12	12	12	-	6	6
WRIST-----	-	-	-	2	2	2	-	2	-	-	15	15	15	-	8	8
HAND-----	-	-	-	8	8	8	7	15	-	-	233	233	233	-	29	29
FINGER(S)-----	-	-	5	12	17	17	34	51	-	1,075	237	1,312	1,312	215	20	77
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	6	8	-	-	2	2	2	-	1	1
BACK-----	-	-	-	13	13	13	3	16	-	-	241	241	241	-	19	19
CHEST-----	-	-	-	4	4	4	1	5	-	-	93	93	93	-	23	23
PELVIC REGION-----	-	-	-	1	1	1	-	1	-	-	20	20	20	-	20	20
SHOULDER(S)-----	-	-	-	2	2	2	-	2	-	-	116	116	116	-	58	58
TRUNK, NEC-----	-	-	-	2	2	2	-	2	-	-	59	59	59	-	30	30
THIGH-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
KNEE-----	-	-	-	4	4	4	3	7	-	-	47	47	47	-	12	12
LOWER LEG-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
ANKLE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
FOOT-----	-	-	-	10	10	10	5	15	-	-	408	408	408	-	41	41
TOE(S)-----	-	-	-	2	2	2	-	2	-	-	11	11	11	-	6	6
LOWER EXTREMITIES, NEC-----	-	-	-	2	2	2	2	4	-	-	168	168	168	-	84	84
BODY SYSTEMS-----	-	-	-	3	3	3	2	5	-	-	21	21	21	-	7	7
MULTIPLE PARTS OF BODY-----	-	-	-	11	11	11	4	15	-	-	216	216	216	-	20	20
TOTAL OR AVERAGE-----	-	-	5	107	112	112	141	253	-	-	1,075	1,965	3,040	215	18	27

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY					
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL			
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL	
		TOTAL	PARTIAL							TOTAL	PARTIAL							
SLIP OR FALL OF PERSON:	-	-	-	1	1	1	-	1	-	-	-	22	22	22	-	22	22	
EYE-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1	
JAW-----	-	-	-	1	1	1	1	1	-	-	-	1	1	1	-	1	1	
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
NOSE-----	-	-	-	1	1	1	1	2	-	-	-	9	9	9	-	9	9	
SCALP-----	-	-	-	4	4	4	5	9	-	-	-	23	23	23	-	6	6	
FACE, NEC-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4	
HEAD, NEC-----	-	-	-	2	2	2	1	3	-	-	-	92	92	92	-	46	46	
NECK-----	-	-	-	6	6	6	10	16	-	-	-	105	105	105	-	18	18	
UPPER ARM-----	-	-	-	4	4	4	5	9	-	-	-	46	46	46	-	12	12	
ELBOW-----	-	-	-	5	5	5	4	9	-	-	-	77	77	77	-	15	15	
FOREARM-----	-	-	-	1	1	1	7	8	-	-	-	18	18	18	-	18	18	
WRIST-----	-	-	-	3	3	3	10	13	-	-	-	12	12	12	-	4	4	
HAND-----	-	-	-	2	2	2	5	7	-	-	-	13	13	13	-	6	6	
FINGER(S)-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	
UPPER EXTREMITIES, NEC-----	-	-	-	69	69	69	17	86	-	-	-	2,539	2,539	2,539	-	37	37	
ABDOMEN-----	-	-	-	12	12	12	9	21	-	-	-	225	225	225	-	19	19	
BACK-----	-	-	-	11	12	12	2	14	-	-	50	162	212	212	50	15	18	
CHEST-----	-	-	1	15	15	15	8	23	-	-	-	463	463	463	-	31	31	
PELVIC REGION-----	-	-	-	4	4	4	3	7	-	-	-	196	196	196	-	49	49	
SHOULDER(S)-----	-	-	-	60	60	60	17	77	-	-	-	1,409	1,409	1,409	-	23	23	
TRUNK, NEC-----	-	-	-	7	7	7	3	10	-	-	-	171	171	171	-	24	24	
KNEE-----	-	-	-	48	48	48	8	56	-	-	-	822	822	822	-	17	17	
LOWER LEG-----	-	-	-	7	7	7	4	11	-	-	-	111	111	111	-	16	16	
ANKLE-----	-	-	-	2	2	2	-	2	-	-	-	42	42	42	-	21	21	
FOOT-----	-	-	-	8	8	8	4	12	-	-	-	172	172	172	-	22	22	
TOE(S)-----	-	-	-	22	22	22	8	30	-	-	-	823	823	823	-	37	37	
LOWER EXTREMITIES, NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MULTIPLE PARTS OF BODY-----	-	-	-	1	297	298	298	139	437	-	-	50	7,558	7,608	7,608	50	25	26
TOTAL OR AVERAGE-----	-	-	-	1	297	298	298	139	437	-	-	50	7,558	7,608	7,608	50	25	26
STEPPING OR KNEELING ON OBJECT:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WRIST-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
UPPER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
BACK-----	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3	
PELVIC REGION-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2	
KNEE-----	-	-	-	10	10	10	2	12	-	-	-	301	301	301	-	30	30	
ANKLE-----	-	-	-	16	16	16	5	21	-	-	-	166	166	166	-	10	10	
FOOT-----	-	-	-	1	1	1	8	9	-	-	-	4	4	4	-	4	4	
TOE(S)-----	-	-	-	1	1	1	-	1	-	-	-	30	30	30	-	30	30	
LOWER EXTREMITIES, NEC-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2	
TOTAL OR AVERAGE-----	-	-	-	31	31	31	19	50	-	-	-	508	508	508	-	16	16	

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
STRIKING OR BUMPING:																	
EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
NOSE-----	-	-	-	1	1	1	-	1	-	-	-	2	2	-	2	2	
HEAD, NEC-----	-	-	-	1	1	1	4	5	-	-	-	3	3	-	3	3	
NECK-----	-	-	-	3	3	3	2	5	-	-	-	97	97	-	32	32	
FOREARM-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
THIGH-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
KNEE-----	-	-	-	2	2	2	-	2	-	-	-	69	69	-	34	34	
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	-	3	3	
LOWER EXTREMITIES, NEC-----	-	-	-	1	1	1	1	2	-	-	-	6	6	-	6	6	
MULTIPLE PARTS OF BODY-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	-	-	-	9	9	9	11	20	-	-	-	180	180	-	20	20	
OTHER INJURIES:																	
EAR-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
EYE-----	-	-	-	5	5	5	19	24	-	-	-	13	13	-	3	3	
FACE, NEC-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	
HEAD, NEC-----	1	-	-	-	-	1	-	1	6,000	-	-	-	6,000	-	-	6,000	
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	1	2	-	-	-	12	12	-	12	12	
BACK-----	-	-	-	2	2	2	1	3	-	-	-	12	12	-	6	6	
PELVIC REGION-----	-	-	-	1	1	1	-	1	-	-	-	90	90	-	90	90	
THIGH-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
KNEE-----	-	-	-	5	5	5	-	5	-	-	-	170	170	-	34	34	
ANKLE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
FOOT-----	-	-	-	1	1	1	-	1	-	-	-	15	15	-	15	15	
LOWER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
BODY SYSTEMS-----	-	-	-	3	3	3	8	11	-	-	-	11	11	-	4	4	
MULTIPLE PARTS OF BODY-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE-----	1	-	-	18	18	19	39	58	6,000	-	-	323	323	-	18	333	

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE:	-	-	-	-	-	-	11	11	-	-	-	-	-	-	-	-	-
EAR-----	-	-	-	-	-	-	11	188	-	-	-	-	-	-	-	-	4
EYE-----	-	-	-	52	52	52	136	9	-	-	-	204	4	204	-	4	1
JAW-----	-	-	-	3	3	3	6	9	-	-	-	4	4	4	-	1	1
MOUTH/TEETH/TONGUE-----	-	-	-	3	3	3	22	25	-	-	-	56	56	56	-	19	19
NOSE-----	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
SCALP-----	-	-	-	2	2	2	2	4	-	-	-	12	12	12	-	6	6
SKULL-----	-	-	-	1	1	1	-	1	-	-	-	194	194	194	-	194	194
FACE, NEC-----	-	-	-	6	6	6	21	27	-	-	-	23	23	23	-	4	4
HEAD, NEC-----	1	-	-	13	13	14	31	45	6,000	-	-	237	237	6,237	-	18	446
NECK-----	-	-	-	25	25	25	19	44	-	-	-	447	447	447	-	18	18
UPPER ARM-----	-	-	-	7	7	7	1	8	-	-	-	218	218	218	-	31	31
ELBOW-----	-	-	-	19	19	19	29	48	-	-	-	220	220	220	-	12	12
FOREARM-----	-	-	-	14	14	14	23	37	-	-	-	678	678	678	-	48	48
WRIST-----	-	-	-	28	28	26	54	54	-	-	-	417	417	417	-	15	15
HAND-----	-	-	-	46	46	46	57	103	-	-	-	623	623	623	-	14	14
FINGER(S)-----	-	-	11	93	104	104	247	351	-	-	2,300	1,329	3,629	3,629	209	14	35
UPPER EXTREMITIES, NEC-----	-	-	-	23	23	23	30	53	-	-	-	445	445	445	-	19	19
ABDOMEN-----	-	-	-	6	6	6	6	12	-	-	-	109	109	109	-	18	18
BACK-----	-	-	-	345	345	345	116	461	-	-	-	9,036	9,036	9,036	-	26	26
CHEST-----	-	-	-	27	27	27	18	45	-	-	-	470	470	470	-	17	17
PELVIC REGION-----	-	-	17	25	42	42	8	50	-	-	850	391	1,241	1,241	50	16	30
SHOULDER(S)-----	-	-	-	64	64	64	33	97	-	-	-	1,712	1,712	1,712	-	27	27
TRUNK, NEC-----	-	-	-	16	16	16	8	24	-	-	-	540	540	540	-	34	34
THIGH-----	-	-	-	4	4	4	6	10	-	-	-	36	36	36	-	9	9
KNEE-----	-	-	-	108	108	108	42	150	-	-	-	2,781	2,781	2,781	-	26	26
LOWER LEG-----	-	-	-	12	12	12	10	22	-	-	-	281	281	281	-	23	23
ANKLE-----	-	-	-	78	78	78	17	95	-	-	-	1,467	1,467	1,467	-	19	19
FOOT-----	-	-	-	48	48	48	28	76	-	-	-	1,029	1,029	1,029	-	21	21
TOE(S)-----	-	-	-	11	11	11	1	12	-	-	-	218	218	218	-	20	20
LOWER EXTREMITIES, NEC-----	-	-	-	24	24	24	23	47	-	-	-	735	735	735	-	31	31
BODY SYSTEMS-----	2	-	-	12	12	14	11	25	12,000	-	-	93	93	12,093	-	8	864
MULTIPLE PARTS OF BODY-----	-	-	-	78	78	78	30	108	-	-	-	2,893	2,893	2,893	-	37	37
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
ELECTRICAL: CHEMICAL BURN----- CUT OR PUNCTURE----- ELECTRIC SHOCK----- ELECT. BURN (CONTACT)----- RADIATION/ULTRA VIOLET----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	- - - - - -	1 1 4 1 4 11	1 1 4 1 4 11	1 1 4 1 4 11	1 - 1 2 - 4 4	2 1 5 3 4 15	- - - - - -	- - - - - -	- 2 7 29 29 42 109	2 7 7 29 29 42 109	2 7 7 29 29 42 109	- - - - - -	2 7 7 29 29 10 10	2 7 7 29 29 10 10	
EXPLODING VESSEL UNDER PRESSURE: BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CUT OR PUNCTURE----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	2 1 1 4	2 1 1 4	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
EXPLOSIVE AND BREAKING AGENT: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	- - -	- - -	- - -	1 1 2	1 1 2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
FALLING, ROLLING, OR SLIDING MATERIAL: CONTUSION OR BRUISE----- FRACTURE----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	- - - - -	1 1 1 - 3	1 1 1 - 3	1 1 1 - 3	- - - 1 1	1 1 1 1 4	- - - - -	- - - - -	- 1 51 2 54	1 1 51 2 54	1 1 51 2 54	- - - - -	1 51 2 18	1 51 2 18	
FALL OF FACE, RIB, SIDE OR HIGHWALL: ASPHYXIATION/DROWNING----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	2 - - - - - - 2	- - - - - - -	- - - - - - -	- 2 1 - 1 1 5	2 2 1 - 1 5	2 1 1 - 1 7	- 1 1 1 1 3	2 3 1 1 2 10	12,000 - - - - -	- - - - - -	- - 2 1 - 140 148 291	- - 2 1 - 140 148 291	12,000 2 1 - 140 148 12,291	- - - - - -	- 1 1 - 140 148 58	6,000 1 1 - 140 148 1,756	

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
FALL OF ROOF (UNDER- GROUND MINES ONLY):	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CONTUSION OR BRUISE-----	-	-	-	1	1	1	2	3	-	-	-	4	4	4	-	4	4
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
SCRATCH/ABRASION-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
STRAIN/SPRAIN-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES-----	-	-	-	1	1	1	1	2	-	-	-	34	34	34	-	34	34
UNCLASSIFIED (NO DATA)----	-	-	-	1	1	1	1	2	-	-	-	9	9	9	-	9	9
TOTAL OR AVERAGE-----	-	-	-	5	5	5	7	12	-	-	-	85	85	85	-	17	17
FIRE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)----	-	-	-	6	6	6	4	10	-	-	-	189	189	189	-	32	32
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	189	189	189	-	32	32
HANDLING MATERIAL:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMPUTATION/ENUCLEATION----	-	-	1	-	1	1	-	1	-	-	100	-	100	100	100	-	100
BURN/SCALD (NOT CHEM.)----	-	-	-	9	9	9	5	14	-	-	-	164	164	164	-	18	18
CHEMICAL BURN-----	-	-	-	7	7	7	23	30	-	-	-	44	44	44	-	6	6
CONTUSION OR BRUISE-----	-	-	-	33	33	33	42	75	-	-	-	246	246	246	-	7	7
CUT OR PUNCTURE-----	-	-	-	38	38	38	122	160	-	-	-	474	474	474	-	12	12
DERMATITIS-----	-	-	-	1	1	1	5	6	-	-	-	24	24	24	-	24	24
DISLOCATION-----	-	-	-	2	2	2	1	3	-	-	-	38	38	38	-	19	19
DUST IN EYE-----	-	-	-	5	5	5	22	27	-	-	-	7	7	7	-	1	1
FRACTURE-----	-	-	-	28	28	28	14	42	-	-	-	1,080	1,080	1,080	-	39	39
HERNIA (NOT DISC)-----	-	-	14	-	14	14	-	14	-	-	700	-	700	700	50	-	50
POISONING (SYSTEMIC)-----	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
SCRATCH/ABRASION-----	-	-	-	2	2	2	12	14	-	-	-	5	5	5	-	2	2
STRAIN/SPRAIN-----	-	-	1	315	316	316	123	439	-	-	50	7,690	7,740	7,740	50	24	24
MULTIPLE INJURIES-----	-	-	-	16	16	16	25	41	-	-	-	223	223	223	-	14	14
OTHER INJURY, NEC-----	-	-	-	5	5	5	4	9	-	-	-	140	140	140	-	28	28
UNCLASSIFIED (NO DATA)----	-	-	-	25	25	25	10	35	-	-	-	568	568	568	-	23	23
TOTAL OR AVERAGE-----	-	-	16	487	503	503	408	911	-	-	850	10,734	11,584	11,584	53	22	23
HAND TOOL:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMPUTATION/ENUCLEATION----	-	-	1	-	1	1	-	1	-	-	400	-	400	400	400	-	400
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	9	9	9	21	30	-	-	-	90	90	90	-	10	10
CUT OR PUNCTURE-----	-	-	-	22	22	22	86	108	-	-	-	433	433	433	-	20	20
DUST IN EYE-----	-	-	-	1	1	1	9	10	-	-	-	1	1	1	-	1	1
FRACTURE-----	-	-	-	7	7	7	16	23	-	-	-	234	234	234	-	33	33
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
SCRATCH/ABRASION-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	42	42	42	20	62	-	-	-	784	784	784	-	19	19
MULTIPLE INJURIES-----	-	-	-	6	6	6	11	17	-	-	-	109	109	109	-	18	18
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
UNCLASSIFIED (NO DATA)----	-	-	-	6	6	6	6	12	-	-	-	237	237	237	-	40	40
TOTAL OR AVERAGE-----	-	-	2	94	96	96	174	270	-	-	450	1,890	2,340	2,340	225	20	24

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
NONPOWERED HAULAGE:																	
CONTUSION OR BRUISE-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	4	4	4	5	9	-	-	-	11	11	11	-	3	3
TOTAL OR AVERAGE-----	-	-	-	6	6	6	7	13	-	-	-	16	16	16	-	3	3
POWERED HAULAGE:																	
AMPUTATION/ENUCLEATION----	-	-	4	-	4	4	-	4	-	-	725	-	725	725	181	-	181
CONTUSION OR BRUISE-----	-	-	-	20	20	20	17	37	-	-	-	150	150	150	-	8	8
CUT OR PUNCTURE-----	-	-	-	10	10	10	16	26	-	-	-	120	120	120	-	12	12
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
DUST IN EYE-----	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
FRACTURE-----	-	-	-	12	12	12	2	14	-	-	-	813	813	813	-	68	68
POISONING (SYSTEMIC)-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
STRAIN/SPRAIN-----	-	-	-	39	39	39	14	53	-	-	-	779	779	779	-	20	20
MULTIPLE INJURIES-----	-	-	-	16	16	16	3	19	-	-	-	910	910	910	-	57	57
OTHER INJURY, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)----	-	-	-	10	10	10	1	11	-	-	-	181	181	181	-	18	18
TOTAL OR AVERAGE-----	-	-	4	110	114	114	57	171	-	-	725	2,965	3,690	3,690	181	27	32
HOISTING:																	
CONTUSION OR BRUISE-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
DUST IN EYE-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	12	12	12	-	4	4
IGNITION OR EXPLOSION OF GAS OR DUST: BURN/SCALD (NOT CHEM.)----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10
TOTAL OR AVERAGE-----	-	-	-	2	2	2	-	2	-	-	-	21	21	21	-	10	10

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
MACHINERY:																	
AMPUTATION/ENUCLEATION-----	-	-	5	-	5	5	-	5	-	-	1,075	-	1,075	1,075	215	-	215
ASPHYXIATION/DROWNING-----	-	-	-	1	1	1	-	1	-	-	-	19	19	19	-	19	19
BURN/SCALD (NOT CHEM.)-----	-	-	-	8	8	8	21	29	-	-	-	151	151	151	-	19	19
CHEMICAL BURN-----	-	-	-	1	1	1	3	4	-	-	-	4	4	4	-	4	4
CONTUSION OR BRUISE-----	-	-	-	11	11	11	11	22	-	-	-	410	410	410	-	37	37
CUT OR PUNCTURE-----	-	-	-	21	21	21	49	70	-	-	-	303	303	303	-	14	14
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
DUST IN EYE-----	-	-	-	9	9	9	21	30	-	-	-	17	17	17	-	2	2
FRACTURE-----	-	-	-	9	9	9	7	16	-	-	-	340	340	340	-	38	38
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
POISONING (SYSTEMIC)-----	-	-	-	2	2	2	1	3	-	-	-	2	2	2	-	1	1
RADIATION/ULTRA VIOLET-----	-	-	-	5	5	5	6	11	-	-	-	7	7	7	-	1	1
SCRATCH/ABRASION-----	-	-	-	3	3	3	7	10	-	-	-	10	10	10	-	3	3
STRAIN/SPRAIN-----	-	-	-	21	21	21	4	25	-	-	-	326	326	326	-	16	16
MULTIPLE INJURIES-----	-	-	-	12	12	12	6	18	-	-	-	336	336	336	-	28	28
OTHER INJURY, NEC-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)-----	-	-	-	3	3	3	2	5	-	-	-	35	35	35	-	12	12
TOTAL OR AVERAGE-----	-	-	5	107	112	112	141	253	-	-	1,075	1,965	3,040	3,040	215	18	27
SLIP OR FALL OF PERSON:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CONCUSSION (CEREBRAL)-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	-	-	-	46	46	46	22	68	-	-	-	487	487	487	-	11	11
CUT OR PUNCTURE-----	-	-	-	11	11	11	25	36	-	-	-	102	102	102	-	9	9
DISLOCATION-----	-	-	-	2	2	2	2	4	-	-	-	9	9	9	-	4	4
FRACTURE-----	-	-	-	28	28	28	13	41	-	-	-	1,114	1,114	1,114	-	40	40
HERNIA (NOT DISC)-----	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
SCRATCH/ABRASION-----	-	-	-	-	-	-	2	3	-	-	-	6	6	6	-	6	6
STRAIN/SPRAIN-----	-	-	-	156	156	156	47	203	-	-	-	4,098	4,098	4,098	-	26	26
MULTIPLE INJURIES-----	-	-	-	22	22	22	21	43	-	-	-	664	664	664	-	30	30
OTHER INJURY, NEC-----	-	-	-	4	4	4	-	4	-	-	-	55	55	55	-	14	14
UNCLASSIFIED (NO DATA)-----	-	-	-	26	26	26	3	29	-	-	-	1,022	1,022	1,022	-	39	39
TOTAL OR AVERAGE-----	-	-	1	297	298	298	139	437	-	-	50	7,558	7,608	7,608	50	25	26
STEPPING OR KNEELING ON OBJECT:																	
BURN/SCALD (NOT CHEM.)-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
CONTUSION OR BRUISE-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	1	1	1	6	7	-	-	-	4	4	4	-	4	4
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
FRACTURE-----	-	-	-	1	1	1	1	2	-	-	-	30	30	30	-	30	30
STRAIN/SPRAIN-----	-	-	-	26	26	26	9	35	-	-	-	455	455	455	-	18	18
MULTIPLE INJURIES-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE-----	-	-	-	31	31	31	19	50	-	-	-	508	508	508	-	16	16

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
STRIKING OR BUMPING:-----	-	-	-	3	3	3	1	4	-	-	-	71	71	71	-	24	24
CONTUSION OR BRUISE-----	-	-	-	2	2	2	7	9	-	-	-	8	8	8	-	4	4
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DUST IN EYE-----	-	-	-	2	2	2	1	3	-	-	-	93	93	93	-	46	46
STRAIN/SPRAIN-----	-	-	-	2	2	2	1	3	-	-	-	8	8	8	-	4	4
UNCLASSIFIED (NO DATA)----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	9	9	9	11	20	-	-	-	180	180	180	-	20	20
OTHER INJURIES:																	
CHEMICAL BURN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	1	-	-	1	1	2	1	3	6,000	-	-	15	15	6,015	-	15	3,008
CUT OR PUNCTURE-----	-	-	-	1	1	1	6	7	-	-	-	8	8	8	-	8	8
DERMATITIS-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
DUST IN EYE-----	-	-	-	5	5	5	10	15	-	-	-	13	13	13	-	3	3
POISONING (SYSTEMIC)-----	-	-	-	3	3	3	8	11	-	-	-	11	11	11	-	4	4
SCRATCH/ABRASION-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	4	4	4	4	8	-	-	-	63	63	63	-	16	16
MULTIPLE INJURIES-----	-	-	-	1	1	1	1	2	-	-	-	90	90	90	-	90	90
OTHER INJURY, NEC-----	-	-	-	1	1	1	1	2	-	-	-	102	102	102	-	102	102
UNCLASSIFIED (NO DATA)----	-	-	-	2	2	2	2	4	-	-	-	21	21	21	-	10	10
TOTAL OR AVERAGE-----	1	-	-	18	18	19	39	58	6,000	-	-	323	323	6,323	-	18	333
TOTAL OR AVERAGE:																	
AMPUTATION/ENUCLEATION-----	-	-	11	-	11	11	-	11	-	-	2,300	-	2,300	2,300	209	-	209
ASPHYXIATION/DROWNING-----	2	-	-	1	1	3	-	3	12,000	-	-	19	19	12,019	-	19	4,006
BURN/SCALD (NOT CHEM.)-----	-	-	-	26	26	26	34	60	-	-	-	532	532	532	-	20	20
CHEMICAL BURN-----	-	-	-	9	9	9	30	39	-	-	-	50	50	50	-	6	6
CONCUSSION (CEREBRAL)-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
CONTUSION OR BRUISE-----	1	-	-	130	130	131	122	253	6,000	-	-	1,488	1,488	7,488	-	11	57
CUT OR PUNCTURE-----	-	-	-	108	108	108	321	429	-	-	-	1,460	1,460	1,460	-	14	14
DERMATITIS-----	-	-	-	1	1	1	7	8	-	-	-	24	24	24	-	24	24
DISLOCATION-----	-	-	-	7	7	7	3	10	-	-	-	72	72	72	-	10	10
DUST IN EYE-----	-	-	-	23	23	23	66	89	-	-	-	44	44	44	-	2	2
ELECTRIC SHOCK-----	-	-	-	4	4	4	1	5	-	-	-	29	29	29	-	7	7
ELECT. BURN (CONTACT)-----	-	-	-	1	1	1	2	3	-	-	-	29	29	29	-	29	29
FRACTURE-----	-	-	-	87	87	87	54	141	-	-	-	3,698	3,698	3,698	-	43	43
HEAT/SUNSTROKE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HERNIA (NOT DISC)-----	-	-	16	-	16	16	-	16	-	-	800	-	800	800	50	-	50
POISONING (SYSTEMIC)-----	-	-	-	7	7	7	9	16	-	-	-	45	45	45	-	6	6
RADIATION/ULTRA VIOLET-----	-	-	-	9	9	9	6	15	-	-	-	49	49	49	-	5	5
SCRATCH/ABRASION-----	-	-	-	7	7	7	27	34	-	-	-	23	23	23	-	3	3
STRAIN/SPRAIN-----	-	-	1	609	610	610	230	840	-	-	50	14,299	14,349	14,349	50	23	24
MULTIPLE INJURIES-----	-	-	-	76	76	76	69	145	-	-	-	2,508	2,508	2,508	-	33	33
OTHER INJURY, NEC-----	-	-	-	12	12	12	9	21	-	-	-	301	301	301	-	25	25
UNCLASSIFIED (NO DATA)----	-	-	-	76	76	76	27	103	-	-	-	2,229	2,229	2,229	-	29	29
TOTAL OR AVERAGE-----	3	-	28	1,194	1,222	1,225	1,020	2,245	18,000	-	3,150	26,900	30,050	48,050	112	23	39

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
UNDERGROUND MINES:								
UNDERGROUND:								
SODIUM COMPOUNDS:								
WYOMING-----	3	-	-	-	-	-	-	3
TOTAL-----	3	-	-	-	-	-	-	3
SURFACE AT UG:								
OTHER NONMETAL, NEC:								
NEW YORK-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
TOTAL UNDERGROUND:								
SODIUM COMPOUNDS:								
WYOMING-----	3	-	-	-	-	-	-	3
TOTAL-----	3	-	-	-	-	-	-	3
OTHER NONMETAL, NEC:								
NEW YORK-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
SURFACE MINES:								
STRIP:								
CLAY:								
GEORGIA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
GYPSSUM:								
MICHIGAN-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PHOSPHATE:								
FLORIDA-----	2	-	-	-	1	-	-	3
UTAH-----	-	-	-	-	-	5	-	5
TOTAL-----	2	-	-	-	1	5	-	8
OTHER NONMETAL, NEC:								
CALIFORNIA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
TOTAL SURFACE:								
CLAY:								
GEORGIA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
GYPSUM:								
MICHIGAN-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PHOSPHATE:								
FLORIDA-----	2	-	-	-	1	-	-	3
UTAH-----	-	-	-	-	-	5	-	5
TOTAL-----	2	-	-	-	1	5	-	8
OTHER NONMETAL, NEC:								
CALIFORNIA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
TOTAL MINING:								
CLAY:								
GEORGIA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
GYPSUM:								
MICHIGAN-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PHOSPHATE:								
FLORIDA-----	2	-	-	-	1	-	-	3
UTAH-----	-	-	-	-	-	5	-	5
TOTAL-----	2	-	-	-	1	5	-	8
SODIUM COMPOUNDS:								
WYOMING-----	3	-	-	-	-	-	-	3
TOTAL-----	3	-	-	-	-	-	-	3
OTHER NONMETAL, NEC:								
CALIFORNIA-----	1	-	-	-	-	-	-	1
NEW YORK-----	-	-	-	-	-	1	-	1
TOTAL-----	1	-	-	-	-	1	-	2

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
PROCESSING PLANTS:								
BARITE:								
LOUISIANA-----	2	-	-	-	-	-	-	2
TOTAL-----	2	-	-	-	-	-	-	2
BORON:								
CALIFORNIA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
CLAY:								
GEORGIA-----	2	-	-	-	-	3	-	5
WYOMING-----	-	-	-	-	-	1	-	1
TOTAL-----	2	-	-	-	-	4	-	6
FELDSPAR:								
GEORGIA-----	-	-	-	-	1	-	-	1
NORTH CAROLINA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	1	-	-	2
FLUORSPAR:								
ILLINOIS-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
MAGNESITE:								
NEVADA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
MICA:								
NORTH CAROLINA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PERLITE:								
NEW MEXICO-----	-	-	-	-	-	-	1	1
TOTAL-----	-	-	-	-	-	-	1	1
PHOSPHATE:								
UTAH-----	-	-	-	-	-	4	-	4
TOTAL-----	-	-	-	-	-	4	-	4

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
PROCESSING PLANTS-CONT:								
POTASH:								
UTAH-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	-	-	1
SALT:								
KANSAS-----	-	-	-	-	1	-	-	1
TOTAL-----	-	-	-	-	1	-	-	1
SODIUM COMPOUNDS:								
WYOMING-----	3	-	-	-	-	-	-	3
TOTAL-----	3	-	-	-	-	-	-	3
TALC-SOAPSTONE:								
MONTANA-----	-	-	-	-	-	2	-	2
VERMONT-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	2	-	3
OTHER NONMETAL, NEC:								
CALIFORNIA-----	2	-	-	2	-	4	-	8
ILLINOIS-----	-	1	-	-	1	-	-	2
TOTAL-----	2	1	-	2	1	4	-	10
TOTAL MINES AND PLANTS:								
BARITE:								
LOUISIANA-----	2	-	-	-	-	-	-	2
TOTAL-----	2	-	-	-	-	-	-	2
BORON:								
CALIFORNIA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
CLAY:								
GEORGIA-----	3	-	-	-	-	3	-	6
WYOMING-----	-	-	-	-	-	1	-	1
TOTAL-----	3	-	-	-	-	4	-	7
FELDSPAR:								
GEORGIA-----	-	-	-	-	1	-	-	1
NORTH CAROLINA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	1	-	-	2

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
TOTAL MINES AND PLANTS-CONT:								
FLUORSPAR:								
ILLINOIS-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
GYPSUM:								
MICHIGAN-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
MAGNESITE:								
NEVADA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
MICA:								
NORTH CAROLINA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PERLITE:								
NEW MEXICO-----	-	-	-	-	-	-	1	1
TOTAL-----	-	-	-	-	-	-	1	1
PHOSPHATE:								
FLORIDA-----	2	-	-	-	1	-	-	3
UTAH-----	-	-	-	-	-	9	-	9
TOTAL-----	2	-	-	-	1	9	-	12
POTASH:								
UTAH-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	-	-	1
SALT:								
KANSAS-----	-	-	-	-	1	-	-	1
TOTAL-----	-	-	-	-	1	-	-	1
SODIUM COMPOUNDS:								
WYOMING-----	6	-	-	-	-	-	-	6
TOTAL-----	6	-	-	-	-	-	-	6

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
TOTAL MINES AND PLANTS-CONT:								
TALC-SOAPSTONE:								
MONTANA-----	-	-	-	-	-	2	-	2
VERMONT-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	2	-	3
OTHER NONMETAL, NEC:								
CALIFORNIA-----	3	-	-	2	-	4	-	9
ILLINOIS-----	-	1	-	-	1	-	-	2
NEW YORK-----	-	-	-	-	-	1	-	1
TOTAL-----	3	1	-	2	1	5	-	12
GRAND TOTAL:								
BARITE:								
LOUISIANA-----	2	-	-	-	-	-	-	2
TOTAL-----	2	-	-	-	-	-	-	2
BORON:								
CALIFORNIA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
CLAY:								
GEORGIA-----	3	-	-	-	-	3	-	6
WYOMING-----	-	-	-	-	-	1	-	1
TOTAL-----	3	-	-	-	-	4	-	7
FELDSPAR:								
GEORGIA-----	-	-	-	-	1	-	-	1
NORTH CAROLINA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	1	-	-	2
FLUORSPAR:								
ILLINOIS-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1
GYPSUM:								
MICHIGAN-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
MAGNESITE:								
NEVADA-----	1	-	-	-	-	-	-	1
TOTAL-----	1	-	-	-	-	-	-	1

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTOXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
GRAND TOTAL-CONT:								
MICA:								
NORTH CAROLINA-----	-	-	-	-	-	1	-	1
TOTAL-----	-	-	-	-	-	1	-	1
PERLITE:								
NEW MEXICO-----	-	-	-	-	-	-	1	1
TOTAL-----	-	-	-	-	-	-	1	1
PHOSPHATE:								
FLORIDA-----	2	-	-	-	1	-	-	3
UTAH-----	-	-	-	-	-	9	-	9
TOTAL-----	2	-	-	-	1	9	-	12
POTASH:								
UTAH-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	-	-	1
SALT:								
KANSAS-----	-	-	-	-	1	-	-	1
TOTAL-----	-	-	-	-	1	-	-	1
SODIUM COMPOUNDS:								
WYOMING-----	6	-	-	-	-	-	-	6
TOTAL-----	6	-	-	-	-	-	-	6
TALC-SOAPSTONE:								
MONTANA-----	-	-	-	-	-	2	-	2
VERMONT-----	-	1	-	-	-	-	-	1
TOTAL-----	-	1	-	-	-	2	-	3
OTHER NONMETAL, NEC:								
CALIFORNIA-----	3	-	-	2	-	4	-	9
ILLINOIS-----	-	1	-	-	1	-	-	2
NEW YORK-----	-	-	-	-	-	1	-	1
TOTAL-----	3	1	-	2	1	5	-	12
TOTAL OR AVERAGE-----	19	3	-	2	4	23	1	52

TABLE 22 - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF EMPLOYEES, AND EMPLOYEE-HOURS BY MINERAL INDUSTRY AND WORK LOCATION, 1988 (OPERATOR DATA)

WORK LOCATION AND MINERAL INDUSTRY	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF EMPLOYEES	EMPLOYEE HOURS REPORTED
UNDERGROUND MINES:										
METAL-----	6	.07	717	7.87	553	6.07	1,276	14.01	9,474	18,211,547
NONMETAL-----	2	.05	192	4.48	178	4.15	372	8.68	4,123	8,572,613
STONE-----	-	-	126	6.58	77	4.02	203	10.59	1,921	3,832,001
TOTAL, UNDERGROUND MINES--	8	.05	1,035	6.76	808	5.28	1,851	12.09	15,518	30,616,161
SURFACE MINES:										
METAL-----	2	.01	539	3.78	396	2.77	937	6.57	14,350	28,541,290
NONMETAL-----	-	-	194	2.92	193	2.90	387	5.82	7,059	13,291,006
STONE-----	6	.02	1,570	5.12	953	3.11	2,529	8.25	31,117	61,326,171
SUBTOTAL, SURFACE MINES--	8	.02	2,303	4.46	1,542	2.99	3,853	7.47	52,526	103,158,467
SAND AND GRAVEL-----	8	.03	1,275	4.22	800	2.65	2,083	6.90	35,505	60,360,922
TOTAL, SURFACE MINES-----	16	.02	3,578	4.38	2,342	2.86	5,936	7.26	88,031	163,519,389
TOTAL, MINES-----	24	.02	4,613	4.75	3,150	3.25	7,787	8.02	103,549	194,135,550
MILLS:										
METAL-----	1	.01	963	5.36	766	4.26	1,730	9.62	17,971	35,964,028
NONMETAL-----	1	.01	830	4.66	638	3.58	1,469	8.24	17,178	35,652,835
STONE-----	9	.02	1,997	5.34	1,644	4.39	3,650	9.75	36,075	74,862,975
TOTAL, MILLS-----	11	.02	3,790	5.17	3,048	4.16	6,849	9.35	71,224	146,479,838
INDEPENDENT SHOPS AND YARDS:										
METAL-----	-	-	20	5.42	13	3.52	33	8.95	415	737,820
NONMETAL-----	-	-	-	-	2	11.29	2	11.29	17	35,439
STONE-----	-	-	8	3.56	15	6.67	23	10.23	233	449,463
TOTAL, SHOPS AND YARDS--	-	-	28	4.58	30	4.91	58	9.49	665	1,222,722
ALL MINES, MILLS AND SHOPS:										
METAL-----	9	.02	2,239	5.37	1,728	4.14	3,976	9.53	42,210	83,454,685
NONMETAL-----	3	.01	1,216	4.23	1,011	3.51	2,230	7.75	28,377	57,551,893
STONE-----	15	.02	3,701	5.27	2,689	3.83	6,405	9.12	69,346	140,470,610
SUBTOTAL-----	27	.02	7,156	5.08	5,428	3.86	12,611	8.96	139,933	281,477,188
SAND AND GRAVEL-----	8	.03	1,275	4.22	800	2.65	2,083	6.90	35,505	60,360,922
TOTAL, MINES/MILLS/SHOPS--	35	.02	8,431	4.93	6,228	3.64	14,694	8.60	175,438	341,838,110
OFFICEWORKERS:										
METAL-----	-	-	4	.08	12	.23	16	.31	5,451	10,255,564
NONMETAL-----	-	-	6	.14	9	.21	15	.35	4,543	8,692,185
STONE-----	-	-	21	.20	11	.11	32	.31	10,675	20,735,582
SAND AND GRAVEL-----	-	-	7	.14	8	.16	15	.31	6,751	9,723,607
TOTAL, OFFICEWORKERS-----	-	-	38	.15	40	.16	78	.32	27,420	49,406,938
SUMMARY TOTAL (INCLUDES OFFICE- WORKERS):										
METAL-----	9	.02	2,243	4.79	1,740	3.71	3,992	8.52	47,661	93,710,249
NONMETAL-----	3	.01	1,222	3.69	1,020	3.08	2,245	6.78	32,920	66,244,078
STONE-----	15	.02	3,722	4.62	2,700	3.35	6,437	7.99	80,021	161,206,192
SUBTOTAL-----	27	.02	7,187	4.48	5,460	3.40	12,674	7.89	160,602	321,160,519
SAND AND GRAVEL-----	8	.02	1,282	3.66	808	2.31	2,098	5.99	42,256	70,084,529
GRAND TOTAL-----	35	.02	8,469	4.33	6,268	3.20	14,772	7.55	202,858	391,245,048

TABLE 23 - RELATED COAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF EMPLOYEES, EMPLOYEE-HOURS AND PRODUCTION BY TYPE OF COAL MINED AND WORK LOCATION, 1988 (OPERATOR DATA)

TYPE OF COAL AND WORK LOCATION	FATAL	FATAL INCIDENCE RATE	NFOL	NFOL INCIDENCE RATE	NOL	NOL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF EMPLOYEES	EMPLOYEE HOURS REPORTED	PRODUCTION REPORTED (SHORT TONS)
BITUMINOUS COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	25	.04	8,944	13.51	2,404	3.63	11,373	17.18	70,472	132,412,628	376,615,328
SURFACE-----	4	.06	631	9.22	255	3.73	890	13.00	7,806	13,689,012	-
TOTAL, UNDERGROUND MINES--	29	.04	9,575	13.11	2,659	3.64	12,263	16.79	78,278	146,101,640	376,615,328
SURFACE MINES:											
STRIP MINES-----	7	.02	1,611	3.57	895	1.98	2,513	5.57	46,257	90,306,866	554,391,329
AUGER MINES-----	-	-	21	5.20	3	.74	24	5.95	720	807,373	4,062,788
OTHER SURFACE MINES-----	-	-	8	4.01	1	.50	9	4.51	295	399,435	872,827
TOTAL, SURFACE MINES-----	7	.02	1,640	3.58	899	1.96	2,546	5.56	47,272	91,513,674	559,326,944
TOTAL, PRODUCTION MINING--	36	.03	11,215	9.44	3,558	2.99	14,809	12.46	125,550	237,615,314	935,942,272
PREPARATION PLANTS-----	6	.04	770	5.22	352	2.38	1,128	7.64	14,331	29,527,794	-
INDEPENDENT SHOPS/YARDS-----	-	-	56	5.35	38	3.63	94	8.98	1,108	2,094,633	-
TOTAL, OTHER OPERATIONS-----	6	.04	826	5.22	390	2.47	1,222	7.73	15,439	31,622,427	-
TOTAL, BITUMINOUS MINING--	42	.03	12,041	8.94	3,948	2.93	16,031	11.91	140,989	269,237,741	935,942,272
PENNSYLVANIA ANTHRACITE COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	-	-	21	8.71	-	-	21	8.71	391	482,136	503,443
SURFACE-----	-	-	4	4.96	-	-	4	4.96	128	161,204	-
TOTAL, UNDERGROUND MINES--	-	-	25	7.77	-	-	25	7.77	519	643,340	503,443
SURFACE MINES:											
STRIP MINES-----	-	-	46	8.67	10	1.89	56	10.56	683	1,060,923	1,756,117
CULM BANK-----	-	-	5	4.20	-	-	5	4.20	180	237,948	811,443
DREDGE-----	-	-	-	-	-	-	-	-	9	4,357	1,420
TOTAL, SURFACE MINES-----	-	-	51	7.83	10	1.53	61	9.36	872	1,303,228	2,568,980
TOTAL, PRODUCTION MINING--	-	-	76	7.81	10	1.03	86	8.84	1,391	1,946,568	3,072,423
PREPARATION PLANTS-----	1	.15	66	9.61	16	2.33	83	12.08	849	1,374,185	-
INDEPENDENT SHOPS/YARDS-----	-	-	4	9.86	-	-	4	9.86	44	81,118	-
TOTAL, OTHER OPERATIONS-----	1	.14	70	9.62	16	2.20	87	11.96	893	1,455,303	-
TOTAL, ANTHRACITE MINING--	1	.06	146	8.58	26	1.53	173	10.17	2,284	3,401,871	3,072,423
ALL COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	25	.04	8,965	13.49	2,404	3.62	11,394	17.15	70,863	132,894,764	377,118,771
SURFACE-----	4	.06	635	9.17	255	3.68	894	12.91	7,934	13,850,216	-
TOTAL, UNDERGROUND MINES--	29	.04	9,600	13.08	2,659	3.62	12,288	16.75	78,797	146,744,980	377,118,771
SURFACE MINES:											
STRIP MINES-----	7	.02	1,657	3.63	905	1.98	2,569	5.62	46,940	91,367,789	556,147,446
AUGER MINES-----	-	-	21	5.20	3	.74	24	5.95	720	807,373	4,062,788
CULM BANK-----	-	-	12	4.50	1	.37	13	4.87	389	533,599	1,523,494
DREDGE-----	-	-	1	1.85	-	-	1	1.85	95	108,141	162,196
TOTAL, SURFACE MINES-----	7	.02	1,691	3.64	909	1.96	2,607	5.62	48,144	92,816,902	561,895,924
TOTAL, PRODUCTION MINING--	36	.03	11,291	9.43	3,568	2.98	14,895	12.44	126,941	239,561,882	939,014,695
PREPARATION PLANTS-----	7	.05	836	5.41	368	2.38	1,211	7.84	15,180	30,901,979	-
INDEPENDENT SHOPS/YARDS-----	-	-	60	5.52	38	3.49	98	9.01	1,152	2,175,751	-
TOTAL, OTHER OPERATIONS-----	7	.04	896	5.42	406	2.45	1,309	7.91	16,332	33,077,730	-
TOTAL, ALL COAL-----	43	.03	12,187	8.94	3,974	2.92	16,204	11.89	143,273	272,639,612	939,014,695
OFFICEWORKERS:											
BITUMINOUS-----	-	-	13	.18	8	.11	21	.30	7,761	14,086,263	-
ANTHRACITE-----	-	-	-	-	1	1.11	1	1.11	111	180,809	-
TOTAL, OFFICEWORKERS-----	-	-	13	.18	9	.13	22	.31	7,872	14,267,072	-
GRAND TOTAL-----	43	.03	12,200	8.50	3,983	2.78	16,226	11.31	151,145	286,906,684	939,014,695

CONTRACTOR DATA

TABLE REFERENCE GUIDE (CONTRACTOR DATA)

The following reference guide facilitates locating particular data elements contained in the annual statistical tables for contractors. The number appearing in each cell indicates the table number in which that particular element may be found. All elements listed under the stub headings appear as vertical headings in the tables. Elements listed under column headings appear as horizontal headings. The only exception to this is table 1, in which the headings have been reversed.

To use this guide, read down or across the elements listed in both the stub and column headings to determine which combinations are of interest. For example, lost workdays by work location appear in eight different tables, numbers 3, 7, 9, 11, 14, 16, 17, and 18. However, only one of these, table 11, provides a further division by nature of injury as well. The occupation of the injured is found in table 17 and, as seen in the column headings, provides the number of injuries, lost workdays, and average severity.

Although injuries and illnesses occurring to contractor employees are identifiable as to State in which they occurred or commodity mined, matching exposure hours are not available. Incidence rates for such employees are possible only at the national level for the various subunits and only for the coal industry as a whole and the noncoal industry as a whole. Consequently, certain tables have been entirely eliminated from the contractor portion of this report. The remaining tables are numbered to correspond with the comparable table in the operator portion of this report.

1988

REFERENCE GUIDE TO NONMETALLIC STATISTICAL TABLES (CONTRACTOR DATA)

STUB HEADINGS	COLUMN HEADINGS								
	Number of injuries	Incidence rates *	Lost workdays	Average severity	Average number of workers *	Employee-hours worked *	Accident classification	Number of occupational illnesses	Coal production (short tons)
Prior year data with and without office 1/	1			1					
Work location	3		3	3					
	7		7	7					
	9		9	9					
	11		11	11					
	13						13		
			14				14		
	15						15		
			16				16		
	17		17	17					
	18		18	18					
	22	22			22	22		21	
	23	23			23	23			23
Type of mineral	7		7	7					
	15						15		
			16				16		
State								21	
	7		7	7					
	13						13		
Part of body injured			14				14		
	9		9	9					
	12		12	12					
Nature of injury	19		19	19					
	11		11	11					
	12		12	12					
Occupation at time of injury	20		20	20					
	17		17	17					
	18		18	18					
Accident classification	19		19	19					
	20		20	20					
Mineral industry	22	22			22	22			
Type of coal	23	23			23	23			23

1/ For table 1 only, the headings have been reversed to simplify this guide; that is, the data elements indicated in the column headings for this table actually appear as vertical headings.

* Contractor data appearing in Table 22 for the column headings denoted with an asterisk (*) in this guide are obtainable only for the noncoal industry as a whole and do not represent a particular mineral industry.

TABLE 1. - GENERAL STATISTICS ON INJURY EXPERIENCE AND WORKTIME, AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

	EXCLUDING OFFICEWORKERS					INCLUDING OFFICEWORKERS				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
NUMBER OF INJURIES:										
FATAL-----	2	1	-	2	3	2	1	-	2	3
NFDL-----	42	13	11	20	54	42	13	11	20	54
TOTAL LWD INJURIES-----	44	14	11	22	57	44	14	11	22	57
NDL-----	19	6	10	16	28	19	6	10	16	28
TOTAL INJURIES-----	63	20	21	38	85	63	20	21	38	85
AVERAGE SEVERITY:										
PERMANENT PARTIAL-----	-	725	-	50	50	-	725	-	50	50
TEMPORARY NFDL-----	40	62	15	14	38	40	62	15	14	38
ALL LWD INJURIES-----	311	581	15	560	352	311	581	15	560	352

NOTE: NO DATA AVAILABLE PRIOR TO 1983.

TABLE 3. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA-NENT PARTIAL	TEMPO-RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO-RARY	TOTAL NFDL					PERMANENT		TEMPO-RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
SURFACE AT UNDERGROUND----	-	-	-	3	3	3	4	7	-	-	-	389	389	389	-	130	130
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	395	395	395	-	66	66
SURFACE MINES:																	
OPEN PIT-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
DREDGE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SURFACE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
TOTAL OR AVERAGE, MINING-----	2	-	-	18	18	20	10	30	12,000	-	-	541	541	12,541	-	30	627
INDEPENDENT SHOPS:																	
TOTAL OR AVERAGE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS:																	
TOTAL OR AVERAGE-----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	1,520	7,520	50	42	203
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
OFFICE:																	
TOTAL OR AVERAGE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL OR AVERAGE:																	
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
BARITE: PROCESSING PLANTS: LOUISIANA----- MISSOURI----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	1 1 - 2	1 1 - 2	1 1 - 2	- - - -	1 1 - 2	- - - -	- - - -	- - - -	3 5 - 8	3 5 - 8	3 5 - 8	- - - -	3 5 - 4	3 5 - 4
TOTAL OR AVERAGE, ALL MINES AND PLANTS: LOUISIANA----- MISSOURI----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- - - -	1 1 - 2	- - - -	- - - -	- - - -	3 5 - 8	3 5 - 8	3 5 - 8	- - - -	3 5 - 4	3 5 - 4
GRAND TOTAL OR AVERAGE: LOUISIANA----- MISSOURI----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- - - -	1 1 - 2	- - - -	- - - -	- - - -	3 5 - 8	3 5 - 8	3 5 - 8	- - - -	3 5 - 4	3 5 - 4
CLAY: SURFACE MINES: OPEN PIT: GEORGIA----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	3 3 - 3	3 3 - 3	3 3 - 3	- - - -	3 3 - 3	- - - -	- - - -	- - - -	84 84 - 84	84 84 - 84	84 84 - 84	- - - -	28 28 - 28	28 28 - 28
TOTAL OR AVERAGE, SURFACE: GEORGIA----- TOTAL OR AVERAGE----	- - -	- - -	- - -	3 3 - 3	3 3 - 3	3 3 - 3	- - -	3 3 - 3	- - -	- - -	- - -	84 84 - 84	84 84 - 84	84 84 - 84	- - -	28 28 - 28	28 28 - 28
TOTAL OR AVERAGE, MINING: GEORGIA----- TOTAL OR AVERAGE----	- - -	- - -	- - -	3 3 - 3	3 3 - 3	3 3 - 3	- - -	3 3 - 3	- - -	- - -	- - -	84 84 - 84	84 84 - 84	84 84 - 84	- - -	28 28 - 28	28 28 - 28
PROCESSING PLANTS: ALABAMA----- GEORGIA----- MISSISSIPPI----- SOUTH DAKOTA----- TOTAL OR AVERAGE----	- - - - - -	- - 1 - - -	- - - - - -	2 22 1 1 - 26	2 23 1 1 - 27	2 23 1 1 - 27	1 13 2 - 16	3 36 3 1 - 43	- - - - - -	- - - - - -	- - 50 - - 50	- - 1,051 16 36 1,134	- - 1,101 16 36 1,184	- - 1,101 16 36 1,184	- 50 - - - 50	16 48 16 36 - 44	16 48 16 36 - 44

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
CLAY-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	2	2	2	1	3	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	-	25	26	26	13	39	-	-	50	1,135	1,185	1,185	50	45	46
GEORGIA-----	-	-	1	1	1	1	2	3	-	-	-	16	16	16	-	16	16
MISSISSIPPI-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
SOUTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
TOTAL OR AVERAGE----	-	-	1	29	30	30	16	46	-	-	50	1,218	1,268	1,268	50	42	42
GRAND TOTAL OR AVERAGE:	-	-	-	2	2	2	1	3	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	-	25	26	26	13	39	-	-	50	1,135	1,185	1,185	50	45	46
GEORGIA-----	-	-	1	1	1	1	2	3	-	-	-	16	16	16	-	16	16
MISSISSIPPI-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
SOUTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
TOTAL OR AVERAGE----	-	-	1	29	30	30	16	46	-	-	50	1,218	1,268	1,268	50	42	42
FELDSPAR: PROCESSING PLANTS:	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	165	165	165	-	82	82
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	165	165	165	-	82	82
GRAND TOTAL OR AVERAGE:	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
TOTAL OR AVERAGE----	-	-	-	2	2	2	-	2	-	-	-	165	165	165	-	82	82
OIL SAND/SHALE: PROCESSING PLANTS:	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
OIL SAND/SHALE-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
GRAND TOTAL OR AVERAGE: COLORADO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PHOSPHATE: SURFACE MINES: OPEN PIT: FLORIDA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TOTAL OR AVERAGE----	1	-	-	6	6	7	5	12	6,000	-	-	45	45	6,045	-	8	864
TOTAL OR AVERAGE, SURFACE: FLORIDA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TOTAL OR AVERAGE----	1	-	-	6	6	7	5	12	6,000	-	-	45	45	6,045	-	8	864
TOTAL OR AVERAGE, MINING: FLORIDA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TOTAL OR AVERAGE----	1	-	-	6	6	7	5	12	6,000	-	-	45	45	6,045	-	8	864
PROCESSING PLANTS: FLORIDA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE, ALL MINES AND PLANTS: FLORIDA-----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TOTAL OR AVERAGE----	2	-	-	6	6	8	5	13	12,000	-	-	45	45	12,045	-	8	1,506

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
PHOSPHATE-CONTINUED: GRAND TOTAL OR AVERAGE: FLORIDA----- NORTH CAROLINA----- TOTAL OR AVERAGE----	2 - - 2	- - - -	- - - -	- 6 6 6	- 6 6 6	2 6 6 8	- 5 5 5	2 11 11 13	12,000 - - 12,000	- - - -	- - - -	- 45 45 45	- 45 45 45	12,000 45 45 12,045	- - - -	- 8 8 8	6,000 8 8 1,506
POTASH: UNDERGROUND MINES: SURFACE AT UNDERGROUND: NEW MEXICO----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	3 3 3 3	3 3 3 3	3 3 3 3	2 2 2 2	5 5 5 5	- - - -	- - - -	- - - -	389 389 389 389	389 389 389 389	389 389 389 389	- - - -	130 130 130 130	130 130 130 130
TOTAL OR AVERAGE, UG: NEW MEXICO----- TOTAL OR AVERAGE----	- - -	- - -	- - -	3 3 3	3 3 3	3 3 3	2 2 2	5 5 5	- - -	- - -	- - -	389 389 389	389 389 389	389 389 389	- - -	130 130 130	130 130 130
TOTAL OR AVERAGE, MINING: NEW MEXICO----- TOTAL OR AVERAGE----	- - -	- - -	- - -	3 3 3	3 3 3	3 3 3	2 2 2	5 5 5	- - -	- - -	- - -	389 389 389	389 389 389	389 389 389	- - -	130 130 130	130 130 130
PROCESSING PLANTS: UTAH----- TOTAL OR AVERAGE----	- - -	- - -	- - -	1 1 1	1 1 1	1 1 1	- - -	1 1 1	- - -	- - -	- - -	5 5 5	5 5 5	5 5 5	- - -	5 5 5	5 5 5
TOTAL OR AVERAGE, ALL MINES AND PLANTS: NEW MEXICO----- UTAH----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	3 1 4	3 1 4	3 1 4	2 - 2	5 1 6	- - -	- - -	- - -	389 5 394	389 5 394	389 5 394	- - -	130 5 98	130 5 98
GRAND TOTAL OR AVERAGE: NEW MEXICO----- UTAH----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	3 1 4	3 1 4	3 1 4	2 - 2	5 1 6	- - -	- - -	- - -	389 5 394	389 5 394	389 5 394	- - -	130 5 98	130 5 98

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SALT: UNDERGROUND MINES: UNDERGROUND: KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
TOTAL OR AVERAGE----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
SURFACE AT UNDERGROUND: OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, UG: KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	6	6	6	-	2	2
TOTAL OR AVERAGE, MINING: KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	6	6	6	-	2	2
TOTAL OR AVERAGE, ALL MINES AND PLANTS: KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	6	6	6	-	2	2
GRAND TOTAL OR AVERAGE: KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	1	4	-	-	-	6	6	6	-	2	2
SHALE: SURFACE MINES: OPEN PIT: TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SHALE-CONTINUED: TOTAL OR AVERAGE, SURFACE: TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE, MINING: TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE, ALL MINES AND PLANTS: TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
GRAND TOTAL OR AVERAGE: TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
SODIUM COMPOUNDS: UNDERGROUND MINES: SURFACE AT UNDERGROUND: WYOMING-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, UG: WYOMING-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, MINING: WYOMING-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PROCESSING PLANTS: WYOMING-----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
SODIUM COMPOUNDS-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS: WYOMING-----	-	-	-	1	1	1	1	2	-	-	-	37	37	37	-	37	37
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	37	37	37	-	37	37
GRAND TOTAL OR AVERAGE: WYOMING-----	-	-	-	1	1	1	1	2	-	-	-	37	37	37	-	37	37
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	37	37	37	-	37	37
TALC-SOAPSTONE: SURFACE MINES: OPEN PIT: MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE, SURFACE: MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE, MINING: MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
PROCESSING PLANTS: VERMONT-----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
TOTAL OR AVERAGE----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
TOTAL OR AVERAGE, ALL MINES AND PLANTS: MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
VERMONT-----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	-	-	60	60	60	-	30	30
GRAND TOTAL OR AVERAGE: MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
VERMONT-----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
TOTAL OR AVERAGE----	-	-	-	2	2	2	1	3	-	-	-	60	60	60	-	30	30

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
OTHER NONMETAL, NEC: SURFACE MINES: OPEN PIT: CALIFORNIA----- NEW YORK----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	1 1 - - 2	1 1 - - 2	1 1 - - 2	- - - - -	1 1 - - 2	- - - - -	- - - - -	- - - - -	7 6 - - 13	7 6 - - 13	7 6 - - 13	- - - - -	7 6 - - 6	7 6 - - 6
TOTAL OR AVERAGE, SURFACE: CALIFORNIA----- NEW YORK----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- - - -	1 1 - 2	- - - -	- - - -	- - - -	7 6 - 13	7 6 - 13	7 6 - 13	- - - -	7 6 - 6	7 6 - 6
TOTAL OR AVERAGE, MINING: CALIFORNIA----- NEW YORK----- TOTAL OR AVERAGE----	- - - -	- - - -	- - - -	1 1 - 2	1 1 - 2	1 1 - 2	- - - -	1 1 - 2	- - - -	- - - -	- - - -	7 6 - 13	7 6 - 13	7 6 - 13	- - - -	7 6 - 6	7 6 - 6
PROCESSING PLANTS: ARIZONA----- TOTAL OR AVERAGE----	- - -	- - -	1 1 -	1 1 -	2 2 -	2 2 -	1 1 -	3 3 -	- - -	- - -	50 50 -	15 15 -	65 65 -	65 65 -	50 50 -	15 15 -	32 32 -
TOTAL OR AVERAGE, ALL MINES AND PLANTS: ARIZONA----- CALIFORNIA----- NEW YORK----- TOTAL OR AVERAGE----	- - - - -	- - - - -	1 - - 1	1 1 1 3	2 1 1 4	2 1 1 4	1 - - 1	3 1 1 5	- - - -	- - - -	50 - - 50	15 7 6 28	65 7 6 78	65 7 6 78	50 - - 50	15 7 6 9	32 7 6 20
GRAND TOTAL OR AVERAGE: ARIZONA----- CALIFORNIA----- NEW YORK----- TOTAL OR AVERAGE----	- - - - -	- - - - -	1 - - 1	1 1 1 3	2 1 1 4	2 1 1 4	1 - - 1	3 1 1 5	- - - -	- - - -	50 - - 50	15 7 6 28	65 7 6 78	65 7 6 78	50 - - 50	15 7 6 9	32 7 6 20
ALL NONMETALLIC MINERALS: UNDERGROUND MINES: UNDERGROUND: KANSAS----- TOTAL OR AVERAGE----	- - - - -	- - - - -	- - - - -	3 - - 3	3 - - 3	3 - - 3	- - - -	3 - - 3	- - - -	- - - -	- - - -	6 - - 6	6 - - 6	6 - - 6	- - - -	2 - - 2	2 - - 2

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ALL NONMETALLIC-CONTINUED: SURFACE AT UNDERGROUND:																	
NEW MEXICO-----	-	-	-	3	3	3	2	5	-	-	-	389	389	389	-	130	130
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	3	3	3	4	7	-	-	-	389	389	389	-	130	130
TOTAL OR AVERAGE, UG:																	
KANSAS-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
NEW MEXICO-----	-	-	-	3	3	3	2	5	-	-	-	389	389	389	-	130	130
OHIO-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	-	-	-	6	6	6	4	10	-	-	-	395	395	395	-	66	66
SURFACE MINES:																	
OPEN PIT:																	
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
FLORIDA-----	1	-	-	-	-	-	-	-	6,000	-	-	-	-	6,000	-	-	6,000
GEORGIA-----	-	-	-	3	3	3	-	3	-	-	-	84	84	84	-	28	28
MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
NEW YORK-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
TOTAL OR AVERAGE, SURFACE:																	
CALIFORNIA-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
FLORIDA-----	1	-	-	-	-	-	-	-	6,000	-	-	-	-	6,000	-	-	6,000
GEORGIA-----	-	-	-	3	3	3	-	3	-	-	-	84	84	84	-	28	28
MONTANA-----	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
NEW YORK-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
NORTH CAROLINA-----	-	-	-	6	6	6	5	11	-	-	-	45	45	45	-	8	8
TEXAS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, MINING:	-	-	-	1	1	1	-	1	-	-	7	7	7	-	7	7	
CALIFORNIA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FLORIDA-----	-	-	-	3	3	3	-	3	-	-	84	84	84	-	28	28	
GEORGIA-----	-	-	-	3	3	3	-	3	-	-	6	6	6	-	2	2	
KANSAS-----	-	-	-	1	1	1	1	2	-	-	4	4	4	-	4	4	
MONTANA-----	-	-	-	3	3	3	2	5	-	-	389	389	389	-	130	130	
NEW MEXICO-----	-	-	-	1	1	1	-	1	-	-	6	6	6	-	6	6	
NEW YORK-----	-	-	-	6	6	6	5	11	-	-	45	45	45	-	8	8	
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
OHIO-----	1	-	-	-	-	1	-	1	6,000	-	-	-	6,000	-	-	6,000	
TEXAS-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE----	2	-	-	18	18	20	10	30	12,000	-	-	541	541	12,541	-	30	627
PROCESSING PLANTS:	-	-	-	2	2	2	1	3	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	1	1	2	2	1	3	-	-	50	15	65	65	50	15	32
ARIZONA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
COLORADO-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FLORIDA-----	-	-	1	22	23	23	13	36	-	-	50	1,051	1,101	1,101	50	48	48
GEORGIA-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
LOUISIANA-----	-	-	-	1	1	1	2	3	-	-	-	16	16	16	-	16	16
MISSISSIPPI-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
MISSOURI-----	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
NORTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	-	36	36	36	-	36	36
SOUTH DAKOTA-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
UTAH-----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
VERMONT-----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	1,520	7,520	50	42	203

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR TYPE OF MINERAL, WORK LOCATION, AND STATE
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

TYPE OF MINERAL, WORK LOCATION AND STATE	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ALL NONMETALLIC-CONTINUED: TOTAL OR AVERAGE, ALL MINES AND PLANTS:	-	-	-	2	2	2	1	3	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	-	1	1	2	1	3	-	-	50	15	65	50	15	32	7
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
COLORADO-----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
FLORIDA-----	-	-	1	25	26	26	13	39	-	50	1,135	1,185	1,185	50	45	46	2
GEORGIA-----	-	-	-	3	3	3	-	3	-	-	6	6	6	-	2	2	3
KANSAS-----	-	-	-	1	1	1	-	1	-	-	3	3	3	-	3	3	16
LOUISIANA-----	-	-	-	1	1	1	2	3	-	-	16	16	16	-	16	16	5
MISSISSIPPI-----	-	-	-	1	1	1	-	1	-	-	5	5	5	-	5	5	4
MISSOURI-----	-	-	-	1	1	1	1	2	-	-	4	4	4	-	4	4	130
MONTANA-----	-	-	-	3	3	3	2	5	-	-	389	389	389	-	130	130	6
NEW MEXICO-----	-	-	-	1	1	1	-	1	-	-	6	6	6	-	6	6	7
NEW YORK-----	-	-	-	7	7	7	5	12	-	-	47	47	47	-	7	7	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	1	1	1	-	1	-	-	163	163	163	-	163	163	36
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	36	36	36	-	36	36	6,000
SOUTH DAKOTA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	5
TEXAS-----	-	-	-	1	1	1	-	1	-	-	5	5	5	-	5	5	56
UTAH-----	-	-	-	1	1	1	1	2	-	-	56	56	56	-	56	56	37
VERMONT-----	-	-	-	1	1	1	-	-	-	-	37	37	37	-	37	37	-
WYOMING-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
TOTAL OR AVERAGE-----																	
GRAND TOTAL OR AVERAGE:	-	-	-	2	2	2	1	3	-	-	-	31	31	31	-	16	16
ALABAMA-----	-	-	1	1	2	2	1	3	-	-	50	15	65	50	15	32	7
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
COLORADO-----	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
FLORIDA-----	-	-	1	25	26	26	13	39	-	50	1,135	1,185	1,185	50	45	46	2
GEORGIA-----	-	-	-	3	3	3	-	3	-	-	6	6	6	-	2	2	3
KANSAS-----	-	-	-	1	1	1	-	1	-	-	3	3	3	-	3	3	16
LOUISIANA-----	-	-	-	1	1	1	2	3	-	-	16	16	16	-	16	16	5
MISSISSIPPI-----	-	-	-	1	1	1	-	1	-	-	5	5	5	-	5	5	4
MISSOURI-----	-	-	-	1	1	1	1	2	-	-	4	4	4	-	4	4	130
MONTANA-----	-	-	-	3	3	3	2	5	-	-	389	389	389	-	130	130	6
NEW MEXICO-----	-	-	-	1	1	1	-	1	-	-	6	6	6	-	6	6	7
NEW YORK-----	-	-	-	7	7	7	5	12	-	-	47	47	47	-	7	7	-
NORTH CAROLINA-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	1	1	1	-	1	-	-	163	163	163	-	163	163	36
SOUTH CAROLINA-----	-	-	-	1	1	1	-	1	-	-	36	36	36	-	36	36	6,000
SOUTH DAKOTA-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	5
TEXAS-----	-	-	-	1	1	1	-	1	-	-	5	5	5	-	5	5	56
UTAH-----	-	-	-	1	1	1	1	2	-	-	56	56	56	-	56	56	37
VERMONT-----	-	-	-	1	1	1	-	-	-	-	37	37	37	-	37	37	-
WYOMING-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
TOTAL OR AVERAGE-----																	

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
UNDERGROUND MINES:																	
UNDERGROUND:																	
WRIST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
BACK-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
SURFACE AT UNDERGROUND:																	
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ANKLE-----	-	-	-	2	2	2	-	2	-	-	-	358	358	358	-	179	179
TOTAL OR AVERAGE-----	-	-	-	3	3	3	4	7	-	-	-	389	389	389	-	130	130
TOTAL OR AVERAGE, UG:																	
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
WRIST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK-----	-	-	-	3	3	3	1	4	-	-	-	36	36	36	-	12	12
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ANKLE-----	-	-	-	2	2	2	-	2	-	-	-	358	358	358	-	179	179
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	395	395	395	-	66	66
SURFACE MINES:																	
OPEN PIT:																	
EYE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FINGER(S)-----	-	-	-	1	1	1	2	3	-	-	-	10	10	10	-	10	10
BACK-----	-	-	-	4	4	4	2	6	-	-	-	14	14	14	-	4	4
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	71	71	71	-	71	71
BODY SYSTEMS-----	2	-	-	2	2	4	1	5	12,000	-	-	4	4	12,004	-	2	3,001
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
TOTAL OR AVERAGE, SURFACE:																	
EYE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FINGER(S)-----	-	-	-	1	1	1	2	3	-	-	-	10	10	10	-	10	10
BACK-----	-	-	-	4	4	4	2	6	-	-	-	14	14	14	-	4	4
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	71	71	71	-	71	71
BODY SYSTEMS-----	2	-	-	2	2	4	1	5	12,000	-	-	4	4	12,004	-	2	3,001
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL								
		TOTAL	PARTIAL														
TOTAL OR AVERAGE, MINING:																	
EYE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
WRIST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	1	1	1	2	3	-	-	-	10	10	10	-	10	10
BACK-----	-	-	-	7	7	7	3	10	-	-	-	50	50	50	-	7	7
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
THIGH-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
ANKLE-----	-	-	-	3	3	3	-	3	-	-	-	429	429	429	-	143	143
BODY SYSTEMS-----	2	-	-	2	2	4	1	5	12,000	-	-	4	4	12,004	-	2	3,001
TOTAL OR AVERAGE-----	2	-	-	18	18	20	10	30	12,000	-	-	541	541	12,541	-	30	627
PROCESSING PLANTS:																	
EYE-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
WRIST-----	-	-	-	2	2	2	-	2	-	-	-	50	50	50	-	25	25
HAND-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	214	214	214	-	107	107
BACK-----	-	-	-	5	5	5	-	5	-	-	-	133	133	133	-	27	27
CHEST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	2	2	4	4	1	5	-	100	164	264	264	50	82	66	-
THIGH-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
KNEE-----	-	-	-	6	6	6	2	8	-	-	-	114	114	114	-	19	19
FOOT-----	-	-	-	3	3	3	-	3	-	-	-	11	11	11	-	4	4
TOE(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	148	148	148	-	74	74
BODY SYSTEMS-----	1	-	-	1	1	2	-	2	6,000	-	-	16	16	6,016	-	16	3,008
MULTIPLE PARTS OF BODY-----	-	-	-	9	9	9	-	9	-	-	-	564	564	564	-	63	63
TOTAL OR AVERAGE-----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	1,520	7,520	50	42	203

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE: ALL MINES AND PLANTS:																	
EYE-----	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
WRIST-----	-	-	-	3	3	3	-	3	-	-	-	51	51	51	-	17	17
HAND-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	1	1	1	5	6	-	-	-	10	10	10	-	10	10
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	214	214	214	-	107	107
BACK-----	-	-	-	12	12	12	3	15	-	-	-	183	183	183	-	15	15
CHEST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	2	2	4	4	1	5	-	-	100	164	264	264	50	82	66
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
THIGH-----	-	-	-	1	1	1	1	2	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	7	7	7	2	9	-	-	-	151	151	151	-	22	22
ANKLE-----	-	-	-	3	3	3	-	3	-	-	-	429	429	429	-	143	143
FOOT-----	-	-	-	3	3	3	-	3	-	-	-	11	11	11	-	4	4
TOE(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	148	148	148	-	74	74
BODY SYSTEMS-----	3	-	-	3	3	6	1	7	18,000	-	-	20	20	18,020	-	7	3,003
MULTIPLE PARTS OF BODY-----	-	-	-	9	9	9	-	9	-	-	-	564	564	564	-	63	63
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
GRAND TOTAL OR AVERAGE:																	
EYE-----	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
JAW-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
WRIST-----	-	-	-	3	3	3	-	3	-	-	-	51	51	51	-	17	17
HAND-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	1	1	1	5	6	-	-	-	10	10	10	-	10	10
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	214	214	214	-	107	107
BACK-----	-	-	-	12	12	12	3	15	-	-	-	183	183	183	-	15	15
CHEST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	2	2	4	4	1	5	-	-	100	164	264	264	50	82	66
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
THIGH-----	-	-	-	1	1	1	1	2	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	7	7	7	2	9	-	-	-	151	151	151	-	22	22
ANKLE-----	-	-	-	3	3	3	-	3	-	-	-	429	429	429	-	143	143
FOOT-----	-	-	-	3	3	3	-	3	-	-	-	11	11	11	-	4	4
TOE(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	148	148	148	-	74	74
BODY SYSTEMS-----	3	-	-	3	3	6	1	7	18,000	-	-	20	20	18,020	-	7	3,003
MULTIPLE PARTS OF BODY-----	-	-	-	9	9	9	-	9	-	-	-	564	564	564	-	63	63
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE, FOR WORK LOCATION AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
UNDERGROUND MINES:																	
UNDERGROUND:																	
CUT OR PUNCTURE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
STRAIN/SPRAIN-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
SURFACE AT UNDERGROUND:																	
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	53	53	53	-	53	53
STRAIN/SPRAIN-----	-	-	-	1	1	1	1	2	-	-	-	31	31	31	-	31	31
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)---	-	-	-	1	1	1	1	2	-	-	-	305	305	305	-	305	305
TOTAL OR AVERAGE-----	-	-	-	3	3	3	4	7	-	-	-	389	389	389	-	130	130
TOTAL OR AVERAGE, UG:																	
CUT OR PUNCTURE-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	53	53	53	-	53	53
STRAIN/SPRAIN-----	-	-	-	3	3	3	1	4	-	-	-	36	36	36	-	12	12
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)---	-	-	-	1	1	1	1	2	-	-	-	305	305	305	-	305	305
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	395	395	395	-	66	66
SURFACE MINES:																	
OPEN PIT:																	
ASPHYXIATION/DROWNING---	1	-	-	1	1	2	1	3	6,000	-	-	1	1	6,001	-	1	3,000
CUT OR PUNCTURE-----	-	-	-	2	2	2	3	5	-	-	-	16	16	16	-	8	8
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
ELECTRIC SHOCK-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	71	71	71	-	71	71
RADIATION/ULTRA VIOLET---	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
STRAIN/SPRAIN-----	-	-	-	5	5	5	2	7	-	-	-	51	51	51	-	10	10
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
TOTAL OR AVERAGE, SURFACE:																	
ASPHYXIATION/DROWNING---	1	-	-	1	1	2	1	3	6,000	-	-	1	1	6,001	-	1	3,000
CUT OR PUNCTURE-----	-	-	-	2	2	2	3	5	-	-	-	16	16	16	-	8	8
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
ELECTRIC SHOCK-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	71	71	71	-	71	71
RADIATION/ULTRA VIOLET---	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
STRAIN/SPRAIN-----	-	-	-	5	5	5	2	7	-	-	-	51	51	51	-	10	10
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
ASPHYXIATION/DROWNING-----	1	-	-	1	1	2	1	3	6,000	-	-	1	1	6,001	-	1	3,000
CUT OR PUNCTURE-----	-	-	-	3	3	3	4	7	-	-	-	17	17	17	-	6	6
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
ELECTRIC SHOCK-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FRACTURE-----	-	-	-	2	2	2	-	2	-	-	-	124	124	124	-	62	62
RADIATION/ULTRA VIOLET-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
STRAIN/SPRAIN-----	-	-	-	8	8	8	3	11	-	-	-	87	87	87	-	11	11
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)-----	-	-	-	1	1	1	1	2	-	-	-	305	305	305	-	305	305
TOTAL OR AVERAGE-----	2	-	-	18	18	20	10	30	12,000	-	-	541	541	12,541	-	30	627
PROCESSING PLANTS:																	
ASPHYXIATION/DROWNING-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	1	1	1	4	5	-	-	-	4	4	4	-	4	4
CUT OR PUNCTURE-----	-	-	-	3	3	3	7	10	-	-	-	356	356	356	-	119	119
DUST IN EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECTRIC SHOCK-----	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
ELECT. BURN (CONTACT)-----	-	-	-	2	2	2	-	2	-	-	-	242	242	242	-	121	121
FRACTURE-----	-	-	-	4	4	4	-	4	-	-	-	208	208	208	-	52	52
HERNIA (NOT DISC)-----	-	-	2	-	2	2	-	2	-	-	100	-	100	100	50	-	50
RADIATION/ULTRA VIOLET-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SCRATCH/ABRASION-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	9	9	9	1	10	-	-	-	140	140	140	-	16	16
MULTIPLE INJURIES-----	-	-	-	8	8	8	2	10	-	-	-	326	326	326	-	41	41
OTHER INJURY, NEC-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
UNCLASSIFIED (NO DATA)-----	-	-	-	5	5	5	-	5	-	-	-	123	123	123	-	25	25
TOTAL OR AVERAGE-----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	1,520	7,520	50	42	203

TABLE 11. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
GRAND TOTAL OR AVERAGE	2	-	-	1	1	3	1	4	12,000	-	-	1	1	12,001	-	1	4,000
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE	-	-	-	1	1	1	4	5	-	-	-	4	4	4	-	4	4
CUT OR PUNCTURE	-	-	-	6	6	6	11	17	-	-	-	373	373	373	-	62	62
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
DUST IN EYE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECTRIC SHOCK	1	-	-	2	2	3	-	3	6,000	-	-	19	19	6,019	-	10	2,006
ELECT. BURN (CONTACT)	-	-	-	2	2	2	-	2	-	-	-	242	242	242	-	121	121
FRACTURE	-	-	-	6	6	6	-	6	-	-	-	332	332	332	-	55	55
HERNIA (NOT DISC)	-	-	2	-	2	2	-	2	-	-	100	-	100	100	50	50	50
RADIATION/ULTRA VIOLET	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SCRATCH/ABRASION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	17	17	17	4	21	-	-	-	227	227	227	-	13	13
MULTIPLE INJURIES	-	-	-	8	8	8	3	11	-	-	-	326	326	326	-	41	41
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
UNCLASSIFIED (NO DATA)	-	-	-	6	6	6	1	7	-	-	-	428	428	428	-	71	71
TOTAL OR AVERAGE	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
EYE: BURN/SCALD (NOT CHEM.)----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DUST IN EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
RADIATION/ULTRA VIOLET----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE-----	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
JAW: CUT OR PUNCTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
FACE, NEC: CONTUSION OR BRUISE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
TOTAL OR AVERAGE-----	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
ELBOW: DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
WRIST: CUT OR PUNCTURE-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
FRACTURE-----	-	-	-	1	1	1	-	1	-	-	-	42	42	42	-	42	42
STRAIN/SPRAIN-----	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	51	51	51	-	17	17
HAND: CONTUSION OR BRUISE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
FINGER(S): CUT OR PUNCTURE-----	-	-	-	1	1	1	4	5	-	-	-	10	10	10	-	10	10
SCRATCH/ABRASION-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	1	1	1	5	6	-	-	-	10	10	10	-	10	10
UPPER EXTREMITIES, NEC: CUT OR PUNCTURE-----	-	-	-	1	1	1	1	2	-	-	-	208	208	208	-	208	208
MULTIPLE INJURIES-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
TOTAL OR AVERAGE-----	-	-	-	2	2	2	1	3	-	-	-	214	214	214	-	107	107

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL				TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL					
		TOTAL	PARTIAL							TOTAL	PARTIAL							
BACK: STRAIN/SPRAIN----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - -	- - - -	- - - -	10 1 1 12	10 1 1 12	10 1 1 12	3 - - 3	13 1 1 15	- - - -	- - - -	- - - -	110 41 32 183	110 41 32 183	110 41 32 183	- - - -	11 41 32 15	11 41 32 15	
CHEST: FRACTURE----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	1 1 1	1 1 1	1 1 1	- - -	1 1 1	- - -	- - -	- - -	1 1 1	1 1 1	1 1 1	- - -	1 1 1	1 1 1	
PELVIC REGION: CONTUSION OR BRUISE----- FRACTURE----- HERNIA (NOT DISC)----- STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	- - - - -	- - - 2 -	- - - - 1	- 1 - 2 1	- 1 2 2 1	- 1 2 2 1	1 - - - 1	1 1 2 1 5	- - - - -	- - - - -	- - 163 100 1	- - 163 100 1	- - 163 100 1	- - 163 100 1	- - 50 - 50	- - 163 - 1	- - 163 50 1	- - 163 50 1
SHOULDER(S): UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	- - -	- - -	- - -	1 1 1	1 1 1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
THIGH: CUT OR PUNCTURE----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	1 1 1	1 1 1	1 1 1	1 1 1	2 2 2	- - -	- - -	- - -	6 6 6	6 6 6	6 6 6	- - -	6 6 6	6 6 6	
KNEE: CONTUSION OR BRUISE----- STRAIN/SPRAIN----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - -	- - - -	- - - -	- 5 2 7	- 5 2 7	- 5 2 7	1 1 - 2	1 6 2 9	- - - -	- - - -	- - 108 43 151	- - 108 43 151	- - 108 43 151	- - 108 43 151	- - 22 22 22	- - 22 22 22	- - 22 22 22	
ANKLE: FRACTURE----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	2 1 3	2 1 3	2 1 3	- - -	2 1 3	- - -	- - -	- - -	124 305 429	124 305 429	124 305 429	- - -	62 305 143	62 305 143	
FOOT: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- TOTAL OR AVERAGE-----	- - - -	- - - -	- - - -	1 1 1 3	1 1 1 3	1 1 1 3	- - - -	1 1 1 3	- - - -	- - - -	- - - -	4 5 2 11	4 5 2 11	4 5 2 11	- - - -	4 5 2 4	4 5 2 4	

TABLE 12. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
TOE(S):																
CUT OR PUNCTURE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC:																
CUT OR PUNCTURE-----	-	-	-	1	1	1	-	1	-	-	-	143	143	143	-	143
MULTIPLE INJURIES-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
OTHER INJURY, NEC-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5
TOTAL OR AVERAGE-----	-	-	-	2	2	2	1	3	-	-	-	148	148	148	-	74
BODY SYSTEMS:																
ASPHYXIATION/DROWNING-----	2	-	-	1	1	3	1	4	12,000	-	-	1	1	12,001	-	1
ELECTRIC SHOCK-----	1	-	-	2	2	3	-	3	6,000	-	-	19	19	6,019	-	10
TOTAL OR AVERAGE-----	3	-	-	3	3	6	1	7	18,000	-	-	20	20	18,020	-	7
MULTIPLE PARTS OF BODY:																
ELECT. BURN (CONTACT)-----	-	-	-	2	2	2	-	2	-	-	-	242	242	242	-	121
MULTIPLE INJURIES-----	-	-	-	6	6	6	-	6	-	-	-	279	279	279	-	46
UNCLASSIFIED (NO DATA)-----	-	-	-	1	1	1	-	1	-	-	-	43	43	43	-	43
TOTAL OR AVERAGE-----	-	-	-	9	9	9	-	9	-	-	-	564	564	564	-	63
TOTAL OR AVERAGE:																
ASPHYXIATION/DROWNING-----	2	-	-	1	1	3	1	4	12,000	-	-	1	1	12,001	-	1
BURN/SCALD (NOT CHEM.)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE-----	-	-	-	1	1	1	4	5	-	-	-	4	4	4	-	4
CUT OR PUNCTURE-----	-	-	-	6	6	6	11	17	-	-	-	373	373	373	-	62
DISLOCATION-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3
DUST IN EYE-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
ELECTRIC SHOCK-----	1	-	-	2	2	3	-	3	6,000	-	-	19	19	6,019	-	10
ELECT. BURN (CONTACT)-----	-	-	-	2	2	2	-	2	-	-	-	242	242	242	-	121
FRACTURE-----	-	-	-	6	6	6	-	6	-	-	-	332	332	332	-	55
HERNIA (NOT DISC)-----	-	-	2	-	2	2	-	2	-	-	100	-	100	100	50	-
RADIATION/ULTRA VIOLET-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1
SCRATCH/ABRASION-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
STRAIN/SPRAIN-----	-	-	-	17	17	17	4	21	-	-	-	227	227	227	-	13
MULTIPLE INJURIES-----	-	-	-	8	8	8	3	11	-	-	-	326	326	326	-	41
OTHER INJURY, NEC-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5
UNCLASSIFIED (NO DATA)-----	-	-	-	6	6	6	1	7	-	-	-	428	428	428	-	71
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RTB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
SURFACE AT UG:																																	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	1	-	-	-
TOTAL UNDERGROUND:																																	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	1	-	-	-
SURFACE MINES:																																	
OPEN PIT:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FLORIDA-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	3	-	-	1	1	-	-	-	-
TOTAL SURFACE:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FLORIDA-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	5	5	-	-	1	2	-	-	-	-
TOTAL MINING:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FLORIDA-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	5	5	-	-	1	2	-	-	-	-

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
SURFACE AT UG:																																	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3		
TOTAL UNDERGROUND:																																	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3		
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	6		
SURFACE MINES:																																	
OPEN PIT:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
GEORGIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1		
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	6		
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	-	-	-	-	-	2	12		
TOTAL SURFACE:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
GEORGIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1		
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	6		
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	-	-	-	-	-	2	12		
TOTAL MINING:																																	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
GEORGIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1		
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3		
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	6		
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	4	-	-	1	-	-	-	-	-	-	-	2	18		

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
PROCESSING PLANTS:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	2	4	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	8	-	2	4	-	-	-	-	-
TOTAL MINES AND PLNTS:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	2	4	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	19	13	-	3	6	-	-	-

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL			
PROCESSING PLANTS:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
GEORGIA-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	6	2	-	-	-	-	-	1	-	1	-	1	23	13	
LOUISIANA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
TOTAL-----	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	8	2	-	-	-	-	-	1	1	-	1	36	18		
TOTAL MINES AND PLNTS:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GEORGIA-----	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	6	2	-	-	-	-	-	1	-	-	-	26	13		
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	
LOUISIANA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2	-	-	-	-	-	-	-	-	-	-	-	7	5	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
TOTAL-----	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	12	2	-	1	-	-	-	1	1	-	3	54	28		

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE			
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	
GRAND TOTAL:																																		
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLORIDA-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GEORGIA-----	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	-	2	4	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3	-	-	-	-	-	-	-	-	-
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	19	13	-	3	6	-	-	-	-	-

TABLE 13. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
GRAND TOTAL:																																	
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
COLORADO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
GEORGIA-----	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	6	2	-	-	-	-	-	-	-	-	-	-	26	13	
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	3	-	
LOUISIANA-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2	
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2	-	-	-	-	-	-	-	-	-	-	7	5	
OHIO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
TOTAL-----	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	12	2	-	1	-	-	-	1	1	-	3	54	28		

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
SURFACE AT UG:																						
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
TOTAL UNDERGROUND:																						
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-
SURFACE MINES:																						
OPEN PIT:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
FLORIDA-----	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	6	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	-	1	-	9	-	6	-	-
TOTAL SURFACE:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
FLORIDA-----	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	6	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	-	1	-	9	-	6	-	-
TOTAL MINING:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
FLORIDA-----	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-
NORTH CAROLINA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	-	1	-	45	-	6	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SURFACE AT UG:																						
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
TOTAL UNDERGROUND:																						
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	53	-	306	-	-	-	-	-	-	-	395
SURFACE MINES:																						
OPEN PIT:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
GEORGIA-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	-	45
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	1	-	38	-	4	-	-	-	-	12,000	146
TOTAL SURFACE:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
GEORGIA-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	-	45
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	1	-	38	-	4	-	-	-	-	12,000	146
TOTAL MINING:																						
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
GEORGIA-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	-	45
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	54	-	344	-	4	-	-	-	-	12,000	541

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	213	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253	-	213	-	-	-
TOTAL MINES AND PLNTS:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-
CALIFORNIA-----	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	213	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
NORTH CAROLINA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	6,000	261	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	298	-	219	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	206	-	-	-	-	-	-	-	-	6	-	315	-	-	-	-	-	6,000	-	3	6,000
LOUISIANA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,101
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	5
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	163	-	-	-	-	-	-	-	-	2
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	163
UTAH-----	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	36
VERMONT-----	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	5
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	56
TOTAL-----	-	209	-	-	-	-	-	-	-	-	69	-	515	-	-	-	-	-	6,000	3	6,000	1,520
TOTAL MINES AND PLNTS:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	-	12,000
GEORGIA-----	-	290	-	-	-	-	-	-	-	-	6	-	315	-	-	-	-	-	-	3	-	1,185
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	6
LOUISIANA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	-	389
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	3	-	38	-	-	-	-	-	-	-	-	47
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	163	-	-	-	-	-	-	-	-	163
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	5
VERMONT-----	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	56
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	37
TOTAL-----	-	293	-	-	-	-	-	-	-	-	123	-	859	-	4	-	-	-	6,000	3	18,000	2,061

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-
FLORIDA-----	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	213	-	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
LOUISIANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
MONTANA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
NORTH CAROLINA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-	-
TEXAS-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
UTAH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	6,000	261	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	298	-	219	-	-	-

TABLE 14. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
ARIZONA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	7
CALIFORNIA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	12,000	1,185
GEORGIA-----	-	290	-	-	-	-	-	-	-	-	6	315	-	-	-	-	-	-	-	3	-	-
KANSAS-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	6	3
LOUISIANA-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	5
MISSISSIPPI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
MISSOURI-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	389
MONTANA-----	-	-	-	-	-	-	-	-	-	-	53	305	-	-	-	-	-	-	-	-	-	6
NEW MEXICO-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	163
NEW YORK-----	-	-	-	-	-	-	-	-	-	-	3	38	-	-	-	-	-	-	-	-	-	36
NORTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000
SOUTH CAROLINA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
SOUTH DAKOTA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56
TEXAS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
UTAH-----	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-
VERMONT-----	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-
WYOMING-----	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	293	-	-	-	-	-	-	-	-	123	859	-	4	-	-	-	-	6,000	3	18,000	2,061

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL
UNDERGROUND MINES:																																	
UNDERGROUND:																																	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
SURFACE AT UG:																																	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
TOTAL UNDERGROUND:																																	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-
SURFACE MINES:																																	
OPEN PIT:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	2	3	-	-	-	-	-	-
TOTAL SURFACE:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	2	3	-	-	-	-	-	-
TOTAL MINING:																																	
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	5	5	-	-	-	-	-	-

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLL- ING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOL			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
PROCESSING PLANTS:																																	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
CLAY-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	7	-	2	4	-	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	
TOTAL-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	8	-	2	4	-	-	-	-	-	
TOTAL MINES AND PLNTS:																																	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
CLAY-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	7	-	2	4	-	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHOSPHATE-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	-	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-	-	
TOTAL-----	1	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	19	13	-	3	6	-	-	-	-	
GRAND TOTAL:																																	
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
CLAY-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	7	-	2	4	-	-	-	-	-	
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHOSPHATE-----	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	3	-	-	-	-	-	-	
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-	-	
TOTAL-----	1	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	19	13	-	3	6	-	-	-	-	

TABLE 15. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIP OR FALL OF PERSON			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL	FTL	NFDL	NOL			
PROCESSING PLANTS:																																	
BARITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-		
CLAY-----	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	6	2	-	-	-	-	-	-	1	-	27	16		
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-		
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-		
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-		
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1		
TOTAL-----	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	8	2	-	-	-	-	1	1	-	1	36	18		
TOTAL MINES AND PLNTS:																																	
BARITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-		
CLAY-----	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	6	2	-	-	-	-	-	1	-	-	30	16		
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-		
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	1	-	-	2	6	5		
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	4	2		
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	3	1		
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1		
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	2	1		
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1		
TOTAL-----	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	12	2	-	1	-	-	1	1	-	3	54	28		
GRAND TOTAL:																																	
BARITE-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-		
CLAY-----	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	6	2	-	-	-	-	-	1	-	-	30	16		
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-		
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	1	-	-	2	6	5		
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	4	2		
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	3	1		
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1		
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	2	1		
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1		
TOTAL-----	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6	5	-	12	2	-	1	-	-	1	1	-	3	54	28		

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE, RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
SURFACE AT UG:																						
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
TOTAL UNDERGROUND:																						
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-
SURFACE MINES:																						
OPEN PIT:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	6,000	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	6	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	-	9	-	6	-	-
TOTAL SURFACE:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	6,000	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	6	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	-	9	-	6	-	-
TOTAL MINING:																						
CLAY-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	6,000	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	6	-	-
TOTAL-----	6,000	3	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	-	45	-	6	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
UNDERGROUND MINES:																						
UNDERGROUND:																						
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SURFACE AT UG:																						
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
TOTAL UNDERGROUND:																						
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-----	-	-	-	-	-	-	-	-	-	-	-	53	-	306	-	-	-	-	-	-	-	395
SURFACE MINES:																						
OPEN PIT:																						
CLAY-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	6,000	45
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	1	-	38	-	4	-	-	-	-	12,000	146
TOTAL SURFACE:																						
CLAY-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	6,000	45
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	1	-	38	-	4	-	-	-	-	12,000	146
TOTAL MINING:																						
CLAY-----	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	-	-	6,000	45
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	53	-	305	-	-	-	-	-	-	-	389
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
SODIUM COMPOUNDS--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	4
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
TOTAL-----	-	84	-	-	-	-	-	-	-	-	-	54	-	344	-	4	-	-	-	-	12,000	541

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLL- ING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOL		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
CLAY-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183	-	213	-	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-
TOTAL-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253	-	213	-	-	-
TOTAL MINES AND PLNTS:																						
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
CLAY-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183	-	213	-	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	6,000	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	6	-	-	-
TOTAL-----	6,000	261	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	298	-	219	-	-	-
GRAND TOTAL:																						
BARITE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
CLAY-----	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183	-	213	-	-	-
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	6,000	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
SHALE-----	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NONMETAL NEC-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	6	-	-	-
TOTAL-----	6,000	261	-	-	-	-	-	-	-	-	6,000	-	-	-	1	-	298	-	219	-	-	-

TABLE 16. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND TYPE OF MINERAL AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND TYPE OF MINERAL	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
PROCESSING PLANTS:																						
BARITE-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
CLAY-----	-	206	-	-	-	-	-	-	-	-	-	6	-	315	-	-	-	-	-	3	-	1,184
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	2	-	163	-	-	-	-	-	-	-	165
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	6,000	-
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	5
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	37
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	56
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
TOTAL-----	-	209	-	-	-	-	-	-	-	-	-	69	-	515	-	-	-	-	6,000	3	6,000	1,520
TOTAL MINES AND PLNTS:																						
BARITE-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
CLAY-----	-	290	-	-	-	-	-	-	-	-	-	6	-	315	-	-	-	-	-	3	-	1,268
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	2	-	163	-	-	-	-	-	-	-	165
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	6,000	-	12,000	45
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	58	-	305	-	-	-	-	-	-	-	394
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	37
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	4	-	-	-	-	-	60
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78
TOTAL-----	-	293	-	-	-	-	-	-	-	-	-	123	-	859	-	4	-	-	6,000	3	18,000	2,061
GRAND TOTAL:																						
BARITE-----	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
CLAY-----	-	290	-	-	-	-	-	-	-	-	-	6	-	315	-	-	-	-	-	3	-	1,268
FELDSPAR-----	-	-	-	-	-	-	-	-	-	-	-	2	-	163	-	-	-	-	-	-	-	165
OIL SAND/SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHATE-----	-	-	-	-	-	-	-	-	-	-	-	1	-	38	-	-	-	-	6,000	-	12,000	45
POTASH-----	-	-	-	-	-	-	-	-	-	-	-	58	-	305	-	-	-	-	-	-	-	394
SALT-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6
SHALE-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	-
SODIUM COMPOUNDS-----	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	37
TALC-SOAPSTONE-----	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	4	-	-	-	-	-	60
OTHER NONMETAL NEC--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78
TOTAL-----	-	293	-	-	-	-	-	-	-	-	-	123	-	859	-	4	-	-	6,000	3	18,000	2,061

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND:																	
SUPERVISOR/FOREMAN-----	-	-	-	1	1	1	-	1	-	-	-	2	2	-	2		
TECH./PROF./CLERICAL-----	-	-	-	1	1	1	-	1	-	-	-	3	3	-	3		
TRUCK DRIVER-----	-	-	-	1	1	1	-	1	-	-	-	1	1	-	1		
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	6	6	-	2		
SURFACE AT UNDERGROUND:																	
ELECTRICIAN-----	-	-	-	1	1	1	1	2	-	-	-	305	305	305	305		
LABORER-----	-	-	-	1	1	1	2	3	-	-	-	31	31	-	31		
SUPERVISOR/FOREMAN-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-		
N.E.C. OR UNKNOWN-----	-	-	-	1	1	1	-	1	-	-	-	53	53	-	53		
TOTAL OR AVERAGE-----	-	-	-	3	3	3	4	7	-	-	-	389	389	-	130		
TOTAL OR AVERAGE, UG:																	
ELECTRICIAN-----	-	-	-	1	1	1	1	2	-	-	-	305	305	305	305		
LABORER-----	-	-	-	1	1	1	2	3	-	-	-	31	31	-	31		
SUPERVISOR/FOREMAN-----	-	-	-	1	1	1	1	2	-	-	-	2	2	-	2		
TECH./PROF./CLERICAL-----	-	-	-	1	1	1	-	1	-	-	-	3	3	-	3		
TRUCK DRIVER-----	-	-	-	1	1	1	-	1	-	-	-	1	1	-	1		
N.E.C. OR UNKNOWN-----	-	-	-	1	1	1	-	1	-	-	-	53	53	-	53		
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	395	395	-	66		
SURFACE MINES:																	
OPEN PIT:																	
BULLDOZER/MOBILE EQUIP.-----	1	-	-	-	-	1	-	1	6,000	-	-	-	6,000	-	6,000		
ELECTRICIAN-----	-	-	-	5	5	5	2	7	-	-	-	44	44	-	9		
LABORER-----	-	-	-	1	1	1	1	2	-	-	-	6	6	-	6		
MECHANIC/MAINTENANCE-----	-	-	-	1	1	1	2	3	-	-	-	10	10	-	10		
SUPERVISOR/FOREMAN-----	-	-	-	2	2	2	-	2	-	-	-	7	7	-	4		
TECH./PROF./CLERICAL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-		
TRUCK DRIVER-----	1	-	-	2	2	3	-	3	6,000	-	-	78	78	39	2,026		
WELDER/MACHINIST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	-	1		
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	-	868		
TOTAL OR AVERAGE, SURFACE:																	
BULLDOZER/MOBILE EQUIP.-----	1	-	-	-	-	1	-	1	6,000	-	-	-	6,000	-	6,000		
ELECTRICIAN-----	-	-	-	5	5	5	2	7	-	-	-	44	44	-	9		
LABORER-----	-	-	-	1	1	1	1	2	-	-	-	6	6	-	6		
MECHANIC/MAINTENANCE-----	-	-	-	1	1	1	2	3	-	-	-	10	10	-	10		
SUPERVISOR/FOREMAN-----	-	-	-	2	2	2	-	2	-	-	-	7	7	-	4		
TECH./PROF./CLERICAL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-		
TRUCK DRIVER-----	1	-	-	2	2	3	-	3	6,000	-	-	78	78	39	2,026		
WELDER/MACHINIST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	-	1		
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	-	868		

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																
BULLDOZER/MOBILE EQUIP. ---	1	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
ELECTRICIAN-----	-	-	-	6	6	6	3	-	-	-	349	349	-	58	58	
LABORER-----	-	-	-	2	2	2	3	-	-	-	37	37	-	18	18	
MECHANIC/MAINTENANCE-----	-	-	-	1	1	1	2	-	-	-	10	10	-	10	10	
SUPERVISOR/FOREMAN-----	-	-	-	3	3	3	1	-	-	-	9	9	-	3	3	
TECH./PROF./CLERICAL-----	-	-	-	1	1	1	1	-	-	-	3	3	-	3	3	
TRUCK DRIVER-----	1	-	-	3	3	4	-	6,000	-	-	79	79	6,079	26	1,520	
WELDER/MACHINIST-----	-	-	-	1	1	1	-	-	-	-	1	1	-	1	1	
N.E.C. OR UNKNOWN-----	-	-	-	1	1	1	-	-	-	-	53	53	-	53	53	
TOTAL OR AVERAGE-----	2	-	-	18	18	20	10	12,000	-	-	541	541	12,541	-	30	627
PROCESSING PLANTS:																
BULLDOZER/MOBILE EQUIP. ---	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
DRAG/CRANE/SHOVEL OPR. ---	-	-	-	1	1	1	1	2	-	-	56	56	56	-	56	
ELECTRICIAN-----	-	-	-	4	4	4	3	7	-	-	216	216	216	-	54	
LABORER-----	-	-	1	6	7	7	4	11	-	-	140	190	190	50	23	
MECHANIC/MAINTENANCE-----	-	-	-	4	4	4	2	6	-	-	280	280	280	-	70	
MINER-----	-	-	-	1	1	1	-	1	-	-	5	5	5	-	5	
PREP. PLANT OPR.-----	-	-	-	1	1	1	1	2	-	-	7	7	7	-	7	
SUPERVISOR/FOREMAN-----	-	-	-	1	1	1	1	2	-	-	3	3	3	-	3	
TRUCK DRIVER-----	-	-	-	1	1	1	-	1	-	-	163	163	163	-	163	
WELDER/MACHINIST-----	-	-	1	10	11	11	4	15	-	-	399	449	449	50	40	
N.E.C. OR UNKNOWN-----	1	-	-	5	5	6	1	7	6,000	-	50	151	6,151	-	30	
TOTAL OR AVERAGE-----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	7,520	50	42	

TABLE 17. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
GRAND TOTAL OR AVERAGE:	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
BULLDOZER/MOBILE EQUIP. ---	1	-	-	-	1	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
DRAG/CRAVE/SPOVEL OPR. ---	-	-	-	1	1	1	1	2	-	-	-	56	56	-	-	56	-
ELECTRICIAN ---	-	-	-	10	10	10	6	16	-	-	-	565	565	-	-	565	-
LABORER ---	-	-	1	8	9	9	7	16	-	-	50	177	227	50	22	25	-
MECHANIC/MAINTENANCE ---	-	-	-	5	5	5	4	9	-	-	-	290	290	-	-	58	-
MINER ---	-	-	-	1	1	1	-	1	-	-	-	5	5	-	-	5	-
PREP. PLANT OPR. ---	-	-	-	1	1	1	1	2	-	-	-	7	7	-	-	7	-
SUPERVISOR/FOREMAN ---	-	-	-	4	4	4	2	6	-	-	-	12	12	-	-	3	-
TECH./PROF./CLERICAL ---	-	-	-	1	1	1	1	2	-	-	-	3	3	-	-	3	-
TRUCK DRIVER ---	1	-	-	4	4	5	-	5	6,000	-	-	242	242	6,242	-	60	1,248
WELDER/MACHINIST ---	-	-	1	11	12	12	4	16	-	-	50	400	450	50	36	38	-
N.E.C. OR UNKNOWN ---	1	-	-	6	6	7	1	8	6,000	-	-	204	204	6,204	-	34	886
TOTAL OR AVERAGE	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
UNDERGROUND MINES:																	
UNDERGROUND:																	
HANDLING MATERIAL-----	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
SLIP OR FALL OF PERSON-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE-----	-	-	-	3	3	3	-	3	-	-	-	6	6	6	-	2	2
SURFACE AT UNDERGROUND:																	
HANDLING MATERIAL-----	-	-	-	1	1	1	2	3	-	-	-	31	31	31	-	31	31
HAND TOOL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY-----	-	-	-	1	1	1	1	2	-	-	-	53	53	53	-	53	53
SLIP OR FALL OF PERSON-----	-	-	-	1	1	1	-	1	-	-	-	305	305	305	-	305	305
TOTAL OR AVERAGE-----	-	-	-	3	3	3	4	7	-	-	-	389	389	389	-	130	130
TOTAL OR AVERAGE, UG:																	
HANDLING MATERIAL-----	-	-	-	3	3	3	2	5	-	-	-	36	36	36	-	12	12
HAND TOOL-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY-----	-	-	-	1	1	1	1	2	-	-	-	53	53	53	-	53	53
SLIP OR FALL OF PERSON-----	-	-	-	2	2	2	-	2	-	-	-	306	306	306	-	153	153
TOTAL OR AVERAGE-----	-	-	-	6	6	6	4	10	-	-	-	395	395	395	-	66	66
SURFACE MINES:																	
OPEN PIT:																	
ELECTRICAL-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
HANDLING MATERIAL-----	-	-	-	2	2	2	3	5	-	-	-	9	9	9	-	4	4
HAND TOOL-----	-	-	-	1	1	1	1	2	-	-	-	6	6	6	-	6	6
POWERED HAULAGE-----	-	-	-	3	3	3	-	3	-	-	-	84	84	84	-	28	28
MACHINERY-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SLIP OR FALL OF PERSON-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19	19
STEPPING OR KNEELING ON OBJECT-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, SURFACE:																	
ELECTRICAL-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
HANDLING MATERIAL-----	-	-	-	2	2	2	3	5	-	-	-	9	9	9	-	4	4
HAND TOOL-----	-	-	-	1	1	1	1	2	-	-	-	6	6	6	-	6	6
POWERED HAULAGE-----	-	-	-	3	3	3	-	3	-	-	-	84	84	84	-	28	28
MACHINERY-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SLIP OR FALL OF PERSON-----	-	-	-	2	2	2	-	2	-	-	-	38	38	38	-	19	19
STEPPING OR KNEELING ON OBJECT-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE-----	2	-	-	12	12	14	6	20	12,000	-	-	146	146	12,146	-	12	868
TOTAL OR AVERAGE, MINING:																	
ELECTRICAL-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE-----	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
HANDLING MATERIAL-----	-	-	-	5	5	5	5	10	-	-	-	45	45	45	-	9	9
HAND TOOL-----	-	-	-	1	1	1	2	3	-	-	-	6	6	6	-	6	6
POWERED HAULAGE-----	-	-	-	3	3	3	-	3	-	-	-	84	84	84	-	28	28
MACHINERY-----	-	-	-	2	2	2	2	4	-	-	-	54	54	54	-	27	27
SLIP OR FALL OF PERSON-----	-	-	-	4	4	4	-	4	-	-	-	344	344	344	-	86	86
STEPPING OR KNEELING ON OBJECT-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE-----	2	-	-	18	18	20	10	30	12,000	-	-	541	541	12,541	-	30	627
PROCESSING PLANTS:																	
ELECTRICAL-----	-	-	-	3	3	3	-	3	-	-	-	258	258	258	-	86	86
HANDLING MATERIAL-----	-	-	2	12	14	14	8	22	-	-	100	153	253	253	50	13	18
HAND TOOL-----	-	-	-	2	2	2	4	6	-	-	-	213	213	213	-	106	106
POWERED HAULAGE-----	-	-	-	4	4	4	1	5	-	-	-	209	209	209	-	52	52
MACHINERY-----	-	-	-	4	4	4	3	7	-	-	-	69	69	69	-	17	17
SLIP OR FALL OF PERSON-----	-	-	-	8	8	8	2	10	-	-	-	515	515	515	-	64	64
OTHER INJURIES-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
TOTAL OR AVERAGE-----	1	-	2	34	36	37	18	55	6,000	-	100	1,420	1,520	7,520	50	42	203

TABLE 18. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	TOTAL NFDL
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, ALL MINES AND PLANTS:	1	-	-	4	4	5	-	5	6,000	-	-	261	261	6,261	-	65	1,252
ELECTRICAL-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	-	-	-	1	1	1	1	2	-	-	-	1	1	-	-	1	1
FIRE-----	-	-	2	17	19	19	13	32	-	-	100	198	298	298	50	12	16
HANDLING MATERIAL-----	-	-	-	3	3	3	6	9	-	-	-	219	219	219	-	73	73
HAND TOOL-----	-	-	-	7	7	7	1	8	-	-	-	293	293	293	-	42	42
POWERED HAULAGE-----	-	-	-	6	6	6	5	11	-	-	-	123	123	123	-	20	20
MACHINERY-----	-	-	-	12	12	12	2	14	-	-	-	859	859	859	-	72	72
SLIP OR FALL OF PERSON-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
STEPPING OR KNEELING ON OBJECT-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
OTHER INJURIES-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352
GRAND TOTAL OR AVERAGE:	1	-	-	4	4	5	-	5	6,000	-	-	261	261	6,261	-	65	1,252
ELECTRICAL-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FALL OF FACE, RIB, SIDE OR HIGHWALL-----	-	-	-	1	1	1	1	2	-	-	-	1	1	-	-	1	1
FIRE-----	-	-	2	17	19	19	13	32	-	-	100	198	298	298	50	12	16
HANDLING MATERIAL-----	-	-	-	3	3	3	6	9	-	-	-	219	219	219	-	73	73
HAND TOOL-----	-	-	-	7	7	7	1	8	-	-	-	293	293	293	-	42	42
POWERED HAULAGE-----	-	-	-	6	6	6	5	11	-	-	-	123	123	123	-	20	20
MACHINERY-----	-	-	-	12	12	12	2	14	-	-	-	859	859	859	-	72	72
SLIP OR FALL OF PERSON-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
STEPPING OR KNEELING ON OBJECT-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002
OTHER INJURIES-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL: BODY SYSTEMS----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	1 - - 1	- - - -	- - - -	2 2 4	2 2 4	3 2 5	- - - -	3 2 5	6,000 - 6,000	- - -	- - -	19 242 261	19 242 261	6,019 242 6,261	- - -	10 121 65	2,006 121 1,252
FALL OF FACE, RIB, SIDE OR HIGHWALL: BODY SYSTEMS----- TOTAL OR AVERAGE-----	1 1	- -	- -	- -	1 1	- -	- -	1 1	6,000 6,000	- -	- -	- -	- -	6,000 6,000	- -	- -	6,000 6,000
FIRE: BODY SYSTEMS----- TOTAL OR AVERAGE-----	- -	- -	- -	1 1	1 1	1 1	1 1	2 2	- -	- -	- -	1 1	1 1	1 1	- -	1 1	1 1
HANDLING MATERIAL: EYE----- FACE, NEC----- WRIST----- HAND----- FINGER(S)----- UPPER EXTREMITIES, NEC----- BACK----- CHEST----- PELVIC REGION----- SHOULDER(S)----- KNEE----- FOOT----- TOE(S)----- LOWER EXTREMITIES, NEC----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - 1 - - - 8 1 1 2 1 - 3 1 - 1 1	- - 1 - - - 8 1 3 - - 3 1 - 1 1	- - 1 - - - 8 1 3 - 1 3 1 - 1 1	- - - - - - 3 - - 1 1 1 - - - 1	1 1 1 1 3 1 4 1 1 1 1 1 1 1 1	- - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - 105 - - - - - 67 4 - 5 7	- - - - - - 105 1 101 - - 67 4 - 5 7	- - - - - - 105 1 101 50 - 67 4 - 5 7	- - - - - - - - - - - - - - - -	- - 8 - - - 13 1 1 1 - 22 4 - 5 7	- - 8 - - - 13 1 34 - 22 4 - 5 7	
50 12 73																	
HAND TOOL: JAW----- FACE, NEC----- HAND----- FINGER(S)----- UPPER EXTREMITIES, NEC----- PELVIC REGION----- THIGH----- TOTAL OR AVERAGE-----	- - - - - - - -	- - - - - - - -	- - - - - - - -	- 1 - - 1 - 1 -	- 1 - - 1 - 1 -	- 1 - - 1 - 1 -	2 - - - - - - -	2 1 1 1 1 1 2	- - - - - - - -	- - - - - - - -	- - - - - - - -	- 5 - - 208 - 6	- 5 - - 208 - 6	- 5 - - 208 - 6	- 5 - - 208 - 6	- 5 - - 208 - 6	- 5 - - 208 - 6

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY	TOTAL NFDL					PERMANENT		TEMPO- RARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
POWERED HAULAGE:																	
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	71	71	71	-	71	71
LOWER EXTREMITIES, NEC-----	-	-	-	1	1	1	-	1	-	-	-	143	143	143	-	143	143
MULTIPLE PARTS OF BODY-----	-	-	-	2	2	2	-	2	-	-	-	59	59	59	-	30	30
TOTAL OR AVERAGE-----	-	-	-	7	7	7	1	8	-	-	-	293	293	293	-	42	42
MACHINERY:																	
EYE-----	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	53	53	53	-	53	53
FOOT-----	-	-	-	2	2	2	-	2	-	-	-	7	7	7	-	4	4
LOWER EXTREMITIES, NEC-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	-	1	1	1	-	1	-	-	-	56	56	56	-	56	56
TOTAL OR AVERAGE-----	-	-	-	6	6	6	5	11	-	-	-	123	123	123	-	20	20
SLIP OR FALL OF PERSON:																	
WRIST-----	-	-	-	2	2	2	-	2	-	-	-	43	43	43	-	22	22
HAND-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK-----	-	-	-	3	3	3	-	3	-	-	-	74	74	74	-	25	25
PELVIC REGION-----	-	-	-	1	1	1	-	1	-	-	-	163	163	163	-	163	163
KNEE-----	-	-	-	2	2	2	1	3	-	-	-	74	74	74	-	37	37
ANKLE-----	-	-	-	1	1	1	-	1	-	-	-	305	305	305	-	305	305
MULTIPLE PARTS OF BODY-----	-	-	-	3	3	3	-	3	-	-	-	200	200	200	-	67	67
TOTAL OR AVERAGE-----	-	-	-	12	12	12	2	14	-	-	-	859	859	859	-	72	72
STEPPING OR KNEELING ON OBJECT:																	
BACK-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE-----	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
OTHER INJURIES:																	
KNEE-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
BODY SYSTEMS-----	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE-----	1	-	-	1	1	2	-	2	6,000	-	-	3	3	6,003	-	3	3,002

TABLE 19. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES							LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL	
		TOTAL	PARTIAL						TOTAL	PARTIAL							
TOTAL OR AVERAGE:	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
EYE-----	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
JAW-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FACE, NEC-----	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
ELBOW-----	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
WRIST-----	-	-	-	3	3	3	-	3	-	-	-	51	51	51	-	17	17
HAND-----	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	-	1	1	1	5	6	-	-	-	10	10	10	-	10	10
UPPER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	214	214	214	-	107	107
BACK-----	-	-	-	12	12	12	3	15	-	-	-	183	183	183	-	15	15
CHEST-----	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PELVIC REGION-----	-	-	2	2	4	4	1	5	-	-	100	164	264	264	50	82	66
SHOULDER(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
THIGH-----	-	-	-	1	1	1	1	2	-	-	-	6	6	6	-	6	6
KNEE-----	-	-	-	7	7	7	2	9	-	-	-	151	151	151	-	22	22
ANKLE-----	-	-	-	3	3	3	-	3	-	-	-	429	429	429	-	143	143
FOOT-----	-	-	-	3	3	3	-	3	-	-	-	11	11	11	-	4	4
TOE(S)-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	2	2	2	1	3	-	-	-	148	148	148	-	74	74
BODY SYSTEMS-----	3	-	-	3	3	6	1	7	18,000	-	-	20	20	18,020	-	7	3,003
MULTIPLE PARTS OF BODY-----	-	-	-	9	9	9	-	9	-	-	-	564	564	564	-	63	63
TOTAL OR AVERAGE-----	3	-	2	52	54	57	28	85	18,000	-	100	1,961	2,061	20,061	50	38	352

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		PERMANENT		TEMPO- RARY					TOTAL NFDL	PERMANENT						TEMPO- RARY	
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL: ELECTRIC SHOCK----- ELECT. BURN (CONTACT)----- TOTAL OR AVERAGE----- FALL OF FACE, RIB, SIDE OR HIGHWALL: ASPHYXIATION/DROWNING----- TOTAL OR AVERAGE----- FIRE: ASPHYXIATION/DROWNING----- TOTAL OR AVERAGE----- HANDLING MATERIAL: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- DUST IN EYE----- FRACTURE----- HERNIA (NOT DISC)----- SCRATCH/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE----- HAND TOOL: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE----- POWERED HAULAGE: CUT OR PUNCTURE----- DISLOCATION----- FRACTURE----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	1 - 1 1 1 - 																

TABLE 20. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY
AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES							LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY					TOTAL NFDL
		TOTAL	PARTIAL						TOTAL	PARTIAL						
MACHINERY: BURN/SCALD (NOT CHEM.)----- CUT OR PUNCTURE----- FRACTURE----- RADIATION/ULTRA VIOLET----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - - - -	- - - - - -	- - - - - -	- 1 2 1 2 6	- 1 2 1 2 6	- 1 - 1 - 6	1 2 2 1 4 5	- - - - - -	- - - - - -	- - - - - -	- 5 55 1 62 123	- 5 55 1 62 123	- 5 55 1 62 123	- - - - - -	- 5 28 1 31 20	- 5 28 1 31 20
SLIP OR FALL OF PERSON: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	- - - - - - -	- - 2 2 3 3 3 12	- - 2 2 3 3 3 12	- 2 - 3 3 - 2	2 1 2 3 3 3 14	- - - - - - -	- - - - - - -	- - - - - - -	- - 1 205 75 198 380 859	- - 1 205 75 198 380 859	- - 1 205 75 198 380 859	- - - - - - -	- 1 102 25 66 127 72	- 1 102 25 66 127 72
STEPPING OR KNEELING ON OBJECT: STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	1 1 1	1 1 1	1 - 1	1 1 1	- - -	- - -	- - -	4 4 4	4 4 4	4 4 4	- - -	4 4 4	4 4 4
OTHER INJURIES: ASPHYXIATION/DROWNING----- STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	1 - 1	- - -	- - -	- 1 1	- 1 1	1 - 2	1 1 2	6,000 - 6,000	- - -	- - 3	- - 3	6,000 3 6,003	- - -	- 3 3	- 3 3,002	6,000 3 3,002
TOTAL OR AVERAGE: ASPHYXIATION/DROWNING----- BURN/SCALD (NOT CHEM.)----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- DISLOCATION----- DUST IN EYE----- ELECTRIC SHOCK----- ELECT. BURN (CONTACT)----- FRACTURE----- HERNIA (NOT DISC)----- RADIATION/ULTRA VIOLET----- SCRATCH/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	2 - - - - - - 1 - - - - - - - - - 3	- - - - - - - - - 2 - - - - - - - -	- - - - - - - - - 2 - - - - - - - 2	1 - 1 6 1 - - 2 2 6 2 1 - 17 8 1 6 52	1 - 1 6 1 - - 2 2 6 2 1 - 17 8 1 6 54	3 - 1 6 - - 3 - 6 2 1 - 4 8 1 6 57	4 1 5 17 1 1 3 6 2 2 1 1 21 3 1 7 28	12,000 - - - - - - 6,000 - - - - - - - - - - 18,000	- - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - 100	1 - - 373 3 - 19 242 332 100 1 - 227 326 5 428 1,961	1 - - 373 3 - 19 242 332 100 1 - 227 326 5 428 2,061	12,001 - - 373 3 - 6,019 242 332 100 1 - 227 326 5 428 20,061	- - - - - - - - - 50 - - - - - - - 50	1 - 4 62 3 - 10 121 55 50 1 - 13 41 5 71 38	4,000 - 4 62 3 - 2,006 121 55 50 1 - 13 41 5 71 352

TABLE 21. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT CONTRACTOR NONMETALLIC MINERAL OPERATIONS IN THE UNITED STATES, 1988

WORK LOCATION, TYPE OF MINERAL AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTOXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
		NO **	OCCUPATIONAL *****	ILLNESSES *****	REPORTED *****	FOR ***	1988 ****	

TABLE 22 - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, AND EMPLOYEE-HOURS BY MINERAL INDUSTRY AND WORK LOCATION, 1988 (CONTRACTOR DATA)

WORK LOCATION AND MINERAL INDUSTRY	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF EMPLOYEES	EMPLOYEE HOURS REPORTED
UNDERGROUND MINES:										
METAL-----	2		61		40		103			
NONMETAL-----	-		6		4		10			
STONE-----	-		1		-		1			
TOTAL, UNDERGROUND MINES-	2	.19	68	6.32	44	4.09	114	10.59	2,085	2,153,207
SURFACE MINES:										
METAL-----	3		179		147		329			
NONMETAL-----	2		12		6		20			
STONE-----	1		49		25		75			
SUBTOTAL, SURFACE MINES--	6		240		178		424			
SAND AND GRAVEL-----	1		16		8		25			
TOTAL, SURFACE MINES----	7	.10	256	3.81	186	2.77	449	6.68	10,247	13,449,290
TOTAL, MINES-----	9	.12	324	4.15	230	2.95	563	7.22	12,332	15,602,497
MILLS:										
METAL-----	1		175		157		333			
NONMETAL-----	1		36		18		55			
STONE-----	3		67		62		132			
TOTAL, MILLS-----	5	.10	278	5.30	237	4.52	520	9.91	8,881	10,490,858
INDEPENDENT SHOPS AND YARDS:										
METAL-----	-		-		-		-			
NONMETAL-----	-		-		-		-			
STONE-----	-		-		-		-			
TOTAL, SHOPS AND YARDS---	-		-		-		-		9	7,087
ALL MINES, MILLS AND SHOPS:										
METAL-----	6		415		344		765			
NONMETAL-----	3		54		28		85			
STONE-----	4		117		87		208			
SUBTOTAL-----	13		586		459		1,058			
SAND AND GRAVEL-----	1		16		8		25			
TOTAL, MINES/MILLS/SHOPS-	14	.11	602	4.61	467	3.58	1,083	8.30	21,222	26,100,442
OFFICEWORKERS:										
METAL-----	-		2		4		6			
NONMETAL-----	-		-		-		-			
STONE-----	-		2		2		4			
SAND AND GRAVEL-----	-		-		-		-			
TOTAL, OFFICEWORKERS----	-		4	.48	6	.73	10	1.21	1,342	1,652,590
SUMMARY TOTAL (INCLUDES OFFICE- WORKERS):										
METAL-----	6		417		348		771			
NONMETAL-----	3		54		28		85			
STONE-----	4		119		89		212			
SUBTOTAL-----	13		590		465		1,068			
SAND AND GRAVEL-----	1		16		8		25			
GRAND TOTAL-----	14	.10	606	4.37	473	3.41	1,093	7.88	22,564	27,753,032

TABLE 23 - RELATED COAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE
NUMBER OF WORKERS, EMPLOYEE-HOURS AND PRODUCTION BY TYPE OF COAL MINED AND WORK LOCATION, 1988
(CONTRACTOR DATA)

TYPE OF COAL AND WORK LOCATION	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF EMPLOYEES	EMPLOYEE HOURS REPORTED	PRODUCTION REPORTED (SHORT TONS)
BITUMINOUS COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	-		53		14		67				
SURFACE-----	-		28		17		45				
TOTAL, UNDERGROUND MINES--	-		81		31		112				
SURFACE MINES:											
STRIP MINES-----	5		103		50		158				
AUGER MINES-----	1		4		2		7				
OTHER SURFACE MINES-----	-		-		-		-				
TOTAL, SURFACE MINES-----	6		107		52		165				
TOTAL, PRODUCTION MINING--	6		188		83		277				
PREPARATION PLANTS-----	3		59		34		96				
INDEPENDENT SHOPS/YARDS-----	-		-		1		1				
TOTAL, OTHER OPERATIONS---	3		59		35		97				
TOTAL, BITUMINOUS MINING--	9		247		118		374				
PENNSYLVANIA ANTHRACITE COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	-		-		-		-				
SURFACE-----	-		1		-		1				
TOTAL, UNDERGROUND MINES--	-		1		-		1				
SURFACE MINES:											
STRIP MINES-----	-		-		-		-				
CULM BANK-----	-		-		-		-				
DREDGE-----	-		-		-		-				
TOTAL, SURFACE MINES-----	-		-		-		-				
TOTAL, PRODUCTION MINING--	-		1		-		1				
PREPARATION PLANTS-----	-		-		-		-				
INDEPENDENT SHOPS/YARDS-----	-		-		-		-				
TOTAL, OTHER OPERATIONS---	-		-		-		-				
TOTAL, ANTHRACITE MINING--	-		1		-		1				
ALL COAL:											
UNDERGROUND MINES:											
UNDERGROUND-----	-		53	12.83	14	3.39	67	16.22	912	826,322	344,459
SURFACE-----	-		29	2.62	17	1.54	46	4.16	2,260	2,210,616	-
TOTAL, UNDERGROUND MINES--	-		82	5.40	31	2.04	113	7.44	3,172	3,036,938	344,459
SURFACE MINES:											
STRIP MINES-----	5	.11	103	2.18	50	1.06	158	3.34	7,813	9,466,314	3,983,823
AUGER MINES-----	1	1.23	4	4.94	2	2.47	7	8.64	190	161,996	431,676
CULM BANK-----	-		-		-		-		97	54,749	162,341
DREDGE-----	-		-		-		-		91	62,267	995
TOTAL, SURFACE MINES-----	6	.12	107	2.20	52	1.07	165	3.39	8,191	9,745,326	4,578,835
TOTAL, PRODUCTION MINING--	6	.09	189	2.96	83	1.30	278	4.35	11,363	12,782,264	4,923,294
PREPARATION PLANTS-----	3	.24	59	4.63	34	2.67	96	7.54	2,540	2,546,530	-
INDEPENDENT SHOPS/YARDS-----	-		-		1	166.67	1	166.67	3	1,200	-
TOTAL, OTHER OPERATIONS---	3	.24	59	4.63	35	2.75	97	7.61	2,543	2,547,730	-
TOTAL, ALL COAL-----	9	.12	248	3.24	118	1.54	375	4.89	13,906	15,329,994	4,923,294
OFFICEWORKERS:											
BITUMINOUS-----	-		2		1		3				
ANTHRACITE-----	-		-		-		-				
TOTAL, OFFICEWORKERS-----	-		2	.30	1	.15	3	.45	1,227	1,327,776	-
GRAND TOTAL-----	9	.11	250	3.00	119	1.43	378	4.54	15,133	16,657,770	4,923,294