Injury Experience in Sand and Gravel Mining, 1989

Received by OSHA
DEC 24 1990

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

Mine Safety and Health Administration
William J. Tattersall, Assistant Secretary

Information Report
IR 1199

1990

IR--1199

DE91 005305

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INJURY EXPERIENCE IN SAND AND GRAVEL MINING, 1989

by

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ABSTRACT

This Mine Safety and Health Administration (MSHA) informational report reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1989. Data reported by operators of mining establishments concerning work injuries are summarized by work location, accident classification, part of body injured, nature of injury, and occupation. 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 sand and gravel mining operations 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 sand and gravel plants 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 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. Injury and illness data for all sand and gravel produced for unconsolidated deposits are covered in this report; no distinction is made between construction sand and industrial sand. Some industrial sands are produced from consolidated deposits that are classified by MSHA as stone operations because of the mining procedures used in extraction of the material.

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

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:

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

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 Charged</u>	<u>1/</u>
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 six different tables, numbers 2, 4, 6, 8, 18, and 19. However, only one, table 8, provides a further division by nature of injury as well. The occupation of the injured is found in table 13 and, as seen in the column headings, provides the number of injuries, lost workdays, and average severity.

REFERENCE GUIDE TO SAND AND GRAVEL 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										
	7			7	7								
	8	8	8										
	9			9	9								
	11										11		
				12							12		
	13			13	13								
	14			14	14								
												17	
	18	18				18	18						
	19	19				19	19						19
Employment size group	2	2	2			2	2	2	2				
State	3			3	3								
	4	4	4			4	4	4	4				
	5			5	5								
	11										11		
Part of body injured				12							12		
	6	6	6									17	
	7			7	7								
	10			10	10								
Nature of injury	15			15	15								
	8	8	8										
	9			9	9								
	10			10	10								
Occupation at time of injury	16			16	16								
	13			13	13								
	14			14	14								
Accident classification	15			15	15								
	16			16	16								
Mineral industry	18	18				18	18					17	
Type of coal	19	19				19	19						19

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 1219-0008; Approval Expires July 31, 1988.

This report is required by law (30 U.S.C. § 813, 30 C.F.R. Part 90). 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. § 826(f). Any individual who knowingly and willfully makes any false, fictitious, or fraudulent statement, 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 imprisonment 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.
4. Do not use for any other operation.
5. 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 09.
6. All mine operators and independent contractors reporting as required by 30 C.F.R., Part 90, 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 ()

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 this quarter	(4) Production of clean coal during quarter, (short tons)
Underground Mine	Underground		01			
	Surface Shops, Yards, Etc.		02			
	Strip, Open Pit, or Quarry		03			
	Auger (Coal Mine Only)		04			
Surface Mine (including shops and yards)	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

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 _____

MSHA Form 7000-2, May 86 (Revised)

Return To MSHA

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

Mine Accident, Injury and Illness Report

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

Form Approved, OMB No. 1219-0007, Expires June 30, 1988

Section A—Identification Data

MSHA ID Number	Contractor ID	Report Category ☐ Metal/Nonmetal Mining ☐ Coal Mining	☐ Check here if report pertains to contractor.
Mine Name		Company Name	

Section B—Complete for Each Reportable Accident Immediately Reported to MSHA

1. Accident Code (circle applicable code—see instructions)		01—Death	02—Serious Injury	03—Entrapment
04—Inundation	05—Gas or Dust Ignition	06—Mine Fire	07—Explosives	08—Roof Fall
09—Outburst	10—Impounding Dam	11—Hoisting	12—Offsite Injury	
2. Name of Investigator		3. Date Investigation Started Month Day Year		
4. Steps Taken to Prevent Recurrence of Accident				

Section C—Complete for Each Reportable Accident, Injury or Illness

5. Circle the Codes Which Best Describe Where Accident/Injury/Illness Occurred (see instructions)

(a) Surface Location: 02 Surface at Underground Mine 30 Mill, Preparation Plant, etc. 03 Strip/Open Pit Mine 04 Surface Auger Operation
05 Cull Bank/Refuse Pile 06 Dredge Mining 12 Other Surface Mining 17 Independent Shops (with own MSHA ID) 99 Office Facilities

(b) Underground Location: 01 Vertical Shaft 02 Slope/Inclined Shaft 03 Face 04 Intersection 05 Underground Shop/Office 06 Other

(c) Underground Mining Method: 01 Longwall 02 Shortwall 03 Conventional Stopping 05 Continuous Mining 06 Hand 07 Caving 08 Other

6. Date of Accident 7. Time of Accident 8. Time Shift Started

Month	Day	Year	☐ am ☐ pm	☐ am ☐ pm
-------	-----	------	---	---

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

10. Equipment Involved	Type	Manufacturer	Model Number	10 Man
11. Name of Witness to Accident/Injury/Illness		12. Number of Reportable Injuries or Illnesses Resulting from This Occurrence		
13. Name of Injured/Ill Employee		14. Sex ☐ Male ☐ Female	15. Date of Birth Month Day Year	
16. Last Four Digits of Social Security Number	17. Regular Job Title	☐ 18. Check if this Injury/Illness resulted in death.	☐ 19. Check if Injury/Illness resulted in permanent disability (include amputation, loss of use, & permanent total disability).	
20. What Directly Inflicted Injury or Illness?		21. Nature of Injury or Illness		
22. Part of Body Injured or Affected	23. Occupational Illness (circle applicable code—see instructions)		21 Occupational Skin Diseases	
	22 Dust Diseases of the Lungs 23 Respiratory Conditions (toxic agents)		24 Poisoning (toxic materials)	
	25 Disorders (physical agents)		26 Disorders (repeated trauma) 29 Other	

24. Employee's Work Activity When Injury or Illness Occurred	Experience	Years	Weeks
	25. Experience in This Job Title		
	26. Experience at This Mine		
	27. Total Mining Experience		

Section D—Return to Duty Information

28. Permanently Transferred or Terminated (if checked, complete items 29, 30, & 31)

29. Date Returned to Regular Job at Full Capacity (for item 29)

30. Number of Days Away from Work (if none, enter 0)

31. Number of Days Restricted Work Activity (if none, enter 0)

Person Completing Form (name)

Title

Date This Report Prepared (month, day, year)

Area Code and Phone Number

MSHA Form 7000-1, Feb 80 (revised)

For Official Use Only

Degree
Accident Type
Accident Class
Scheduled Charge
Keyword

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 SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

	EXCLUDING OFFICERWORKERS						INCLUDING OFFICERWORKERS					
	1985	1986	1987	1988	1989		1985	1986	1987	1988	1989	
NUMBER OF INJURIES:												
FATAL	8	13	16	8	3		8	13	16	8	3	
NFDL	740	929	1,100	1,275	1,491		745	935	1,106	1,282	1,500	
TOTAL LWD INJURIES	748	942	1,116	1,283	1,494		753	948	1,122	1,290	1,503	
NOL	346	434	500	800	996		348	435	502	808	1,002	
TOTAL INJURIES	1,094	1,376	1,716	2,083	2,490		1,101	1,383	1,724	2,098	2,505	
INCIDENCE RATES:												
FATAL	.03	.04	.05	.03	.01		.03	.04	.05	.02	.01	
NFDL	2.68	3.21	3.71	4.22	4.95		2.34	2.80	3.22	3.66	4.27	
ALL LWD INJURIES	2.71	3.25	3.77	4.25	4.96		2.36	2.84	3.27	3.68	4.28	
NOL	1.25	1.50	2.03	2.65	3.30		1.09	1.30	1.75	2.31	2.85	
ALL INJURIES	3.96	4.75	5.79	6.90	8.26		3.45	4.14	5.02	5.99	7.13	
SEVERITY MEASURES:												
FATAL	174	270	324	159	60		151	234	279	137	51	
NFDL	200	150	121	177	205		174	131	105	153	177	
ALL LWD INJURIES	374	420	445	336	265		324	365	385	290	228	
AVERAGE SEVERITY:												
PERMANENT PARTIAL	701	610	542	638	826		701	595	542	638	826	
TEMPORARY NFDL	40	23	19	26	19		40	24	19	25	19	
ALL LWD INJURIES	138	129	118	79	53		137	128	118	79	53	
AVERAGE NUMBER OF EMPLOYEES	34,245	34,751	35,229	35,505	35,600		40,057	40,827	42,344	42,256	42,745	
EMPLOYEE-HOURS WORKED	55,225,083	57,883,240	59,256,511	60,360,922	60,288,279		63,774,813	66,772,763	68,699,283	70,084,529	70,240,594	
AVERAGE HOURS PER EMPLOYEE	1,613	1,666	1,682	1,700	1,693		1,592	1,636	1,622	1,659	1,643	
PER YEAR												
OPERATIONS REPORTED:	6,046	6,176	6,252	6,371	6,430		6,084	6,200	6,287	6,415	6,473	
NUMBER OF OPERATIONS							2,943	3,144	3,310	3,483	3,786	
ASSOCIATED WORK LOCATIONS												

TABLE 2. - INJURY EXPERIENCE BY DEGREE AND WORKLINE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

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 INJURIES	NFDL	TOTAL FATAL AND NFDL	ALL FATAL AND NFDL	ALL INJU- RIES	FATAL	NFDL	A-1 FATAL AND NFDL				
		PERMANENT		TEMPO- RARY	TOTAL NFDL												
		TOTAL	PARTIAL														
SURFACE MINES: OPEN PIT:																	
1 - 4	1	-	10	145	155	156	245	89	156	3.10	3.12	1.78	4.90	444	10,007,242	3,445	-
5 - 9	-	-	9	285	294	294	468	174	294	4.15	4.15	2.45	6.60	192	14,177,428	1,364	-
10 - 19	2	-	6	369	375	377	603	226	377	5.48	5.51	3.30	8.81	304	13,681,666	556	-
20 - 34	-	-	3	223	226	226	405	179	226	6.00	6.00	4.75	10.75	95	7,532,489	150	-
35 - 49	-	-	4	77	81	81	155	74	155	6.18	6.18	5.65	11.83	461	2,620,637	31	-
50 - 99	-	-	-	120	120	120	192	72	120	7.77	7.77	4.66	12.43	144	3,009,057	24	-
TOTAL OR AVERAGE	3	-	32	1,219	1,251	1,254	2,068	814	1,254	4.90	+ 91	3.19	8.09	268	51,108,529	5,570	-
DREDGE:																	
1 - 4	-	-	3	32	35	35	65	30	35	3.24	3.24	2.78	6.02	98	2,159,795	528	-
5 - 9	-	-	4	51	55	55	100	45	55	3.93	3.93	3.22	7.15	486	2,195,449	223	-
10 - 19	-	-	1	63	64	64	107	43	64	5.69	5.69	3.82	9.51	128	2,250,271	77	-
20 - 34	-	-	2	42	44	44	88	44	44	7.99	7.99	5.19	15.19	249	1,158,748	24	-
35 - 49	-	-	-	19	19	19	22	3	19	7.18	7.18	1.13	8.31	104	529,201	6	-
50 - 99	-	-	-	23	23	23	40	17	23	15.07	15.07	11.88	27.94	287	286,286	2	-
TOTAL OR AVERAGE	-	-	10	230	240	240	422	182	240	5.23	5.23	3.97	9.19	249	9,173,750	860	-
TOTAL OR AVERAGE, MINING:																	
1 - 4	1	-	13	177	190	191	310	119	191	3.12	3.14	1.96	5.10	383	12,167,037	3,973	-
5 - 9	-	-	13	336	349	349	568	219	349	4.11	4.11	2.58	6.69	240	16,972,877	1,587	-
10 - 19	2	-	7	432	439	441	710	269	441	5.54	5.54	3.38	8.91	279	15,331,937	533	-
20 - 34	-	-	5	265	270	270	483	223	270	6.21	6.21	5.13	11.34	116	8,691,247	174	-
35 - 49	-	-	4	96	100	100	177	77	100	6.35	6.35	4.89	11.24	401	3,149,838	37	-
50 - 99	-	-	-	143	143	143	232	89	143	8.47	8.47	5.27	13.75	156	3,375,343	26	-
TOTAL OR AVERAGE	3	-	42	1,449	1,491	1,494	2,490	996	1,494	4.95	4.95	3.30	8.26	265	50,288,279	6,430	-
OFFICE:																	
1 - 4	-	-	-	7	7	7	12	5	7	20	20	14	34	2	7,115,920	43	3,582
5 - 9	-	-	-	2	2	2	3	1	2	24	24	12	36	3	1,628,289	-	165
10 - 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	757,075	-	32
20 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	561,031	-	7
TOTAL OR AVERAGE	-	-	-	9	9	9	15	6	9	18	18	12	30	2	9,352,315	43	3,786
GRAND TOTAL OR AVERAGE:																	
1 - 4	1	-	13	184	197	198	322	124	198	2.04	2.05	1.28	3.34	242	19,302,957	4,016	3,582
5 - 9	-	-	17	338	351	351	571	220	351	3.76	3.76	2.36	6.12	219	18,661,186	1,587	165
10 - 19	2	-	7	432	439	441	710	269	441	5.26	5.26	3.22	8.50	266	16,699,012	533	32
20 - 34	-	-	5	265	270	270	483	223	270	5.97	5.97	4.93	10.99	111	9,952,278	174	7
35 - 49	-	-	-	96	100	100	177	77	100	6.35	6.35	4.89	11.24	401	3,149,838	37	-
50 - 99	-	-	-	143	143	143	232	89	143	8.47	8.47	5.27	13.75	156	3,375,343	26	-
TOTAL OR AVERAGE	3	-	42	1,458	1,500	1,503	2,505	1,002	1,503	4.27	4.28	2.85	7.13	228	70,240,554	6,473	3,786

TABLE 3. - NUMBER OF INJURIES, LOST HOLIDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES					LOST HOLIDAYS					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					TOTAL NFDL						
		TOTAL	PARTIAL												
SURFACE MINES: OPEN PIT:															
1 - 4	1	-	10	145	155	156	89	245	6,000	13,290	2,949	16,239	1,329	20	143
5 - 9	-	-	9	285	294	294	174	468	-	8,100	5,492	13,592	900	19	46
10 - 19	2	-	6	369	375	377	226	603	12,000	2,050	6,756	8,806	342	18	55
20 - 34	-	-	3	223	226	226	179	405	-	150	3,435	3,585	50	15	16
35 - 49	-	-	4	77	81	81	74	155	-	4,900	1,135	6,035	1,225	15	75
50 - 99	-	-	-	120	120	120	72	192	-	-	2,219	2,219	-	18	18
TOTAL OR AVERAGE	3	-	32	1,219	1,251	1,254	814	2,068	18,000	28,490	21,996	50,476	890	18	55
DREDGE:															
1 - 4	-	-	3	32	35	35	30	65	-	150	907	1,057	50	28	30
5 - 9	-	-	4	51	55	55	45	100	-	5,850	948	6,798	1,462	19	124
10 - 19	-	-	1	63	64	64	43	107	-	100	1,342	1,442	100	21	23
20 - 34	-	-	2	42	44	44	44	88	-	100	1,343	1,443	50	32	33
35 - 49	-	-	-	19	19	19	17	36	-	-	274	274	-	14	14
50 - 99	-	-	-	23	23	23	17	40	-	-	411	411	-	18	18
TOTAL OR AVERAGE	-	-	10	230	240	240	182	422	-	6,200	5,225	11,425	620	23	48
TOTAL OR AVERAGE, MINING:															
1 - 4	1	-	13	177	190	191	119	310	6,000	13,440	3,856	17,296	1,034	22	122
5 - 9	-	-	13	336	349	349	219	568	-	13,950	6,440	20,390	1,073	19	58
10 - 19	2	-	7	432	439	441	269	710	12,000	2,150	8,098	10,248	307	50	50
20 - 34	-	-	5	265	270	270	223	493	-	4,500	4,778	5,028	50	18	19
35 - 49	-	-	4	96	100	100	77	177	-	4,900	1,409	6,309	1,225	15	63
50 - 99	-	-	-	143	143	143	89	232	-	-	2,630	2,630	-	18	18
TOTAL OR AVERAGE	3	-	42	1,449	1,491	1,494	996	2,490	18,000	34,680	27,211	61,901	826	19	53
OFFICE:															
1 - 4	-	-	-	7	7	7	5	12	-	-	71	71	-	10	10
5 - 9	-	-	-	2	2	2	1	3	-	-	27	27	-	14	14
10 - 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	9	9	9	6	15	-	-	98	98	-	11	11
GRAND TOTAL OR AVERAGE:															
1 - 4	1	-	13	184	197	198	124	322	6,000	13,440	3,927	17,367	1,034	21	118
5 - 9	-	-	13	338	351	351	220	571	-	13,950	6,467	20,417	1,073	19	58
10 - 19	2	-	7	432	439	441	269	710	12,000	2,150	8,098	10,248	307	50	50
20 - 34	-	-	5	265	270	270	223	493	-	4,500	4,778	5,028	50	18	19
35 - 49	-	-	4	96	100	100	77	177	-	4,900	1,409	6,309	1,225	15	63
50 - 99	-	-	-	143	143	143	89	232	-	-	2,630	2,630	-	18	18
TOTAL OR AVERAGE	3	-	42	1,458	1,500	1,503	1,002	2,505	18,000	34,680	27,309	61,989	826	19	53

TABLE 4 - INJURY EXPERIENCE BY DEGREE AND WORK TIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND STATE	NUMBER OF INJURIES						TOTAL INJURIES	NFDL	TOTAL FATAL AND NFDL	INCIDENCE RATES				SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION						
	FATAL	NFDL			TOTAL FATAL AND NFDL	FATAL				NFDL	ALL FATAL AND NFDL	NFDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL										
		PERMANENT	TEMPORARY																		TOTAL FATAL AND NFDL	FATAL	NFDL	ALL FATAL AND NFDL	NFDL	ALL INJURIES
			TOTAL	PARTIAL																						
OPEN PIT:																										
ALABAMA	-	-	-	-	-	15	15	15	15	15	-	3.51	1.40	4.91	-	100	100	414	855,145	67						
ALASKA	-	-	-	-	-	1	1	1	1	1	-	1.82	2.70	4.52	-	18	18	129	109,999	31						
ARIZONA	-	-	-	-	-	45	45	45	45	45	-	4.05	4.01	8.06	-	93	93	1,321	2,222,678	208						
ARKANSAS	-	-	-	-	-	23	23	23	23	23	-	6.58	5.61	12.19	-	163	163	380	698,405	155						
CALIFORNIA	-	-	-	-	-	364	364	364	364	364	-	8.69	2.68	11.37	-	213	213	4,357	8,374,716	396						
COLORADO	-	-	-	-	-	55	55	55	55	55	-	7.07	7.75	14.82	-	330	330	3,200	1,556,315	262						
CONNECTICUT	-	-	-	-	-	9	9	9	9	9	-	2.62	-	2.62	-	91	91	1,358	554,148	73						
DELAWARE	-	-	-	-	-	4	4	4	4	4	-	3.47	1.73	5.20	-	-	-	14	230,727	26						
FLORIDA	-	-	-	-	-	7	7	7	7	7	-	4.07	7.04	11.11	-	44	44	141	230,727	36						
GEORGIA	-	-	-	-	-	4	4	4	4	4	-	6.08	1.87	7.95	-	96	96	26	344,148	18						
HAWAII	-	-	-	-	-	1	1	1	1	1	-	4.49	2.84	7.33	-	98	98	360	427,924	2						
IDaho	-	-	-	-	-	13	13	13	13	13	-	4.47	1.60	6.07	-	118	118	713	1,336,313	99						
ILLINOIS	-	-	-	-	-	30	30	30	30	30	-	3.62	3.34	6.96	-	541	541	650	2,520,769	121						
INDIANA	-	-	-	-	-	28	28	28	28	28	-	4.10	2.46	6.56	-	-	-	479	1,718,637	119						
IOWA	-	-	-	-	-	13	13	13	13	13	-	4.10	2.46	6.56	-	30	30	128	203,928	37						
KANSAS	-	-	-	-	-	5	5	5	5	5	-	4.10	2.46	6.56	-	30	30	128	243,628	18						
KENTUCKY	-	-	-	-	-	7	7	7	7	7	-	2.21	1.66	3.87	-	63	63	185	532,748	43						
LOUISIANA	-	-	-	-	-	30	30	30	30	30	-	4.52	1.81	6.32	-	73	73	506	1,328,575	109						
MAINE	-	-	-	-	-	25	25	25	25	25	-	5.84	2.87	8.71	-	139	139	512	855,499	38						
MASSACHUSETTS	-	-	-	-	-	54	54	54	54	54	-	5.00	2.75	7.75	-	558	558	1,278	2,160,750	115						
MICHIGAN	-	-	-	-	-	18	18	18	18	18	-	2.75	2.85	5.60	-	40	40	1,002	306,797	302						
MINNESOTA	-	-	-	-	-	9	9	9	9	9	-	2.85	3.63	6.48	-	923	923	344	702,825	249						
MISSISSIPPI	-	-	-	-	-	8	8	8	8	8	-	2.85	3.63	6.48	-	110	110	269	385,828	61						
MISSOURI	-	-	-	-	-	3	3	3	3	3	-	3.85	2.33	6.18	-	27	27	366	415,468	40						
MONTANA	-	-	-	-	-	39	39	39	39	39	-	1.16	2.33	3.49	-	117	117	578	931,936	92						
NEBRASKA	-	-	-	-	-	17	17	17	17	17	-	8.37	3.09	13.46	-	1,117	1,117	377	647,579	81						
NEVADA	-	-	-	-	-	24	24	24	24	24	-	5.25	3.15	8.40	-	109	109	578	931,936	65						
NEW HAMPSHIRE	-	-	-	-	-	10	10	10	10	10	-	4.74	1.00	5.74	-	60	60	411	801,497	54						
NEW JERSEY	-	-	-	-	-	23	23	23	23	23	-	5.50	3.59	9.09	-	798	798	524	836,075	96						
NEW MEXICO	-	-	-	-	-	15	15	15	15	15	-	5.50	1.60	7.10	-	51	51	1,875	3,378,984	534						
NEW YORK	-	-	-	-	-	31	31	31	31	31	-	2.61	1.79	4.40	-	293	293	571	1,004,249	81						
NORTH CAROLINA	-	-	-	-	-	9	9	9	9	9	-	1.79	5.38	7.17	-	73	73	300	377,649	85						
NORTH DAKOTA	-	-	-	-	-	8	8	8	8	8	-	4.24	2.48	6.72	-	69	69	1,339	2,643,943	184						
OHIO	-	-	-	-	-	45	45	45	45	45	-	3.48	2.34	5.82	-	62	62	466	430,462	156						
OKLAHOMA	-	-	-	-	-	4	4	4	4	4	-	1.86	1.86	3.72	-	61	61	466	810,750	85						
OREGON	-	-	-	-	-	13	13	13	13	13	-	3.21	2.70	5.91	-	113	113	798	1,413,167	140						
PENNSYLVANIA	-	-	-	-	-	37	37	37	37	37	-	5.24	3.82	9.06	-	144	144	410	669,765	42						
PUERTO RICO	-	-	-	-	-	11	11	11	11	11	-	3.28	3.61	6.89	-	10	10	134	221,333	17						
RHODE ISLAND	-	-	-	-	-	4	4	4	4	4	-	3.90	3.61	7.51	-	8	8	315	610,328	45						
SOUTH CAROLINA	-	-	-	-	-	17	17	17	17	17	-	2.56	4.59	7.15	-	47	47	331	390,096	82						
SOUTH DAKOTA	-	-	-	-	-	11	11	11	11	11	-	2.56	4.59	7.15	-	123	123	246	467,655	36						
TENNESSEE	-	-	-	-	-	10	10	10	10	10	-	4.28	4.28	8.56	-	99	99	1,804	3,387,676	270						
TEXAS	-	-	-	-	-	76	76	76	76	76	-	4.49	3.61	8.10	-	123	123	1,804	3,387,676	270						
UTAH	-	-	-	-	-	10	10	10	10	10	-	4.49	3.61	8.10	-	99	99	1,804	3,387,676	270						
VERMONT	-	-	-	-	-	20	20	20	20	20	-	4.80	2.88	7.68	-	53	53	574	333,790	112						
VIRGINIA	-	-	-	-	-	16	16	16	16	16	-	2.93	2.93	5.86	-	48	48	291	949,554	103						
WASHINGTON	-	-	-	-	-	34	34	34	34	34	-	3.37	4.38	7.75	-	70	70	427	1,542,127	51						
WEST VIRGINIA	-	-	-	-	-	2	2	2	2	2	-	4.14	5.13	9.27	-	60	60	1,162	78,024	228						
WISCONSIN	-	-	-	-	-	41	41	41	41	41	-	5.61	5.61	11.22	-	513	513	319	1,496,252	224						
WYOMING	-	-	-	-	-	12	12	12	12	12	-	6.85	5.27	12.11	-	226	226	319	379,702	65						
TOTAL OR AVERAGE	3	32	1,219	1,251	1,254	2,068	814	2,882	2,882	2,882	70	196	268	8.09	70	196	268	30,894	51,108,529	5,570						

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND HORTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

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	NOL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	ALL INJURIES	FATAL	NFDL					ALL FATAL AND NFDL		
		PERMANENT	TEMPORARY	TOTAL NFDL	TOTAL INJURIES																
																				TOTAL	PARTIAL
ALABAMA	-	-	13	13	13	5	18	6.46	6.46	2.49	8.95	-	108	108	201	402,216	34	-			
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,176	2	-			
ARIZONA	-	-	1	1	1	-	1	26.60	26.60	1.66	26.60	-	452	452	4	7,520	1	-			
ARKANSAS	-	1	1	2	2	-	5	3.33	3.33	7.51	4.99	-	122	122	57	120,129	10	-			
CALIFORNIA	-	-	1	1	1	-	1	5.40	5.40	-	5.40	-	22	22	21	133,147	6	-			
COLORADO	-	-	1	1	1	-	1	-	-	-	-	-	-	-	3	37,037	5	-			
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	3,077	1	-			
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	404	18,218	2	-			
FLORIDA	-	2	27	29	29	29	22	5.71	5.71	4.33	10.98	-	123	123	119	1,016,350	47	-			
GEORGIA	-	-	6	6	6	6	2	4.97	4.97	1.66	6.62	-	125	125	2	241,542	28	-			
IDAH0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237	154	1	-			
ILLINOIS	-	1	8	9	9	9	5	5.44	5.44	3.02	8.46	-	237	237	185	330,916	37	-			
INDIANA	-	-	5	5	5	5	4	4.11	4.11	3.29	7.40	-	12	12	126	243,315	7	-			
IOWA	-	-	4	4	4	4	6	2.85	2.85	4.27	7.11	-	43	43	146	281,108	35	-			
KANSAS	-	-	19	19	19	19	14	7.49	7.49	5.52	13.02	-	211	211	271	507,102	66	-			
KENTUCKY	-	-	9	9	9	9	11	2.16	2.16	2.16	2.16	-	19	19	41	92,462	7	-			
LOUISIANA	-	-	-	-	-	-	-	2.24	2.24	2.74	4.97	-	-	-	441	804,154	85	-			
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	48,513	2	-			
MASSACHUSETTS	-	-	-	-	-	-	-	2.12	2.12	-	-	-	2	2	8	15,480	2	-			
MICHIGAN	-	-	1	1	1	1	-	-	-	-	-	-	-	-	51	94,371	11	-			
MINNESOTA	-	-	9	10	10	10	8	4.58	4.58	3.66	8.24	-	437	437	223	436,923	46	-			
MISSISSIPPI	-	1	8	8	8	8	15	4.24	4.24	7.96	12.20	-	198	198	209	376,981	39	-			
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	13,352	1	-			
MONTANA	-	-	12	12	12	12	20	3.21	3.21	5.34	8.55	-	46	46	468	748,725	151	-			
NEBRASKA	-	-	43	43	43	43	6	11.32	11.32	1.58	12.90	-	168	168	355	759,797	24	-			
NEVADA	-	-	1	1	1	1	-	2.25	2.25	2.25	2.25	-	11	11	38	89,058	5	-			
NEW JERSEY	-	-	5	5	5	5	9	5.45	5.45	8.17	13.62	-	112	112	144	220,265	30	-			
NEW YORK	-	2	6	6	6	6	1	5.64	5.64	7.70	6.34	-	3,482	3,482	283,831	307,199	26	-			
NORTH CAROLINA	-	1	4	4	4	4	6	3.26	3.26	3.91	7.15	-	100	100	172	307,199	37	-			
OHIO	-	-	20	20	20	20	6	17.39	17.39	5.22	22.60	-	903	903	53	109,522	3	-			
OKLAHOMA	-	-	1	1	1	1	-	1.08	1.08	-	1.08	-	16	16	127	230,079	7	-			
OREGON	-	-	4	4	4	4	5	4.07	4.07	5.09	9.16	-	31	31	98	184,978	19	-			
PENNSYLVANIA	-	-	15	16	16	16	23	4.90	4.90	7.04	11.93	-	232	232	276	196,465	14	-			
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	653,692	32	-			
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	23,234	13	-			
TEXAS	-	-	7	7	7	7	3	18.43	18.43	7.90	26.33	-	140	140	3	3,018	1	-			
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	75,968	3	-			
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	18,514	2	-			
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3,521	2	-			
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,706	9,179,750	860	-			
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249	-	-	-			
TOTAL OR AVERAGE	-	10	230	240	240	240	182	5.23	5.23	3.97	9.19	-	249	249	4,706	9,179,750	860	-			

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

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	TOTAL INJURIES	FATAL	NFDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		TOTAL	PERMANENT	TEMPORARY	TOTAL NFDL												
TOTAL OR AVERAGE, MINING:																	
ALABAMA	-	-	28	28	28	11	39	-	4.45	1.75	6.20	-	102	615	1,257,361	91	-
ALASKA	-	-	46	46	46	30	76	-	1.34	6.82	6.82	-	13	132	149,175	33	-
ARIZONA	-	-	23	25	48	15	40	-	4.13	3.67	9.77	-	94	1,325	2,230,198	208	-
ARKANSAS	-	2	357	364	604	240	604	-	6.11	5.64	14.20	-	157	4,429	8,507,863	75	-
CALIFORNIA	-	7	55	56	111	31	87	-	8.56	3.89	10.92	-	209	1,221	1,563,352	402	-
COLORADO	-	1	5	7	12	7	9	-	7.03	3.74	3.35	-	323	361	537,225	257	-
CONNECTICUT	-	2	5	7	12	2	7	-	2.61	4.55	4.55	-	90	23	43,944	74	-
DELAWARE	-	-	31	33	64	24	57	-	5.29	3.85	9.14	-	108	565	1,247,077	5	-
FLORIDA	-	2	13	13	26	3	16	-	4.44	1.02	5.46	-	108	279	585,690	73	-
GEORGIA	-	-	-	-	-	1	1	-	7.04	7.04	7.04	-	98	26	28,400	46	-
HAWAII	-	-	-	-	-	1	1	-	1.87	1.87	7.94	-	98	362	428,076	100	-
IDaho	-	-	13	13	26	14	48	-	6.07	2.88	7.56	-	118	775	1,667,229	158	-
ILLINOIS	-	2	37	39	76	24	63	-	4.68	1.87	7.00	-	903	625	1,496,084	145	-
INDIANA	-	2	32	33	65	18	48	-	4.41	3.64	9.84	-	401	775	1,089,745	131	-
IOWA	1	2	15	17	32	14	35	-	3.40	3.64	7.00	-	150	339	711,040	103	-
KANSAS	-	-	19	19	38	16	42	-	5.34	4.50	9.84	-	22	166	336,090	25	-
KENTUCKY	-	-	9	9	18	4	12	-	2.98	2.38	5.36	-	15	506	1,045,204	128	-
LOUISIANA	-	5	9	9	18	13	22	-	1.72	2.49	4.21	-	63	628	1,377,088	108	-
MAINE	-	-	7	7	14	5	12	-	2.21	1.58	3.79	-	70	520	870,979	117	-
MARYLAND	-	-	30	30	60	30	60	-	4.36	1.74	6.10	-	137	1,328	2,255,121	313	-
MASSACHUSETTS	-	-	25	25	50	12	28	-	4.88	2.75	6.43	-	535	1,008	1,315,438	261	-
MICHIGAN	-	5	50	55	105	31	86	-	2.74	5.63	7.63	-	40	1,087	1,130,748	89	-
MINNESOTA	1	2	18	19	37	18	55	-	3.51	5.77	5.44	-	737	550	782,810	100	-
MISSISSIPPI	1	-	13	13	26	11	28	-	3.41	3.73	9.18	-	107	478	428,760	91	-
MISSOURI	-	-	8	8	16	2	10	-	3.73	5.93	4.66	-	106	372	590,457	193	-
MONTANA	-	-	13	13	26	4	12	-	2.82	4.78	7.60	-	42	585	931,938	81	-
NEBRASKA	-	4	35	39	74	24	63	-	5.15	3.09	8.34	-	117	377	647,579	65	-
NEVADA	-	-	17	17	34	10	22	-	7.94	3.09	9.22	-	109	755	1,561,204	78	-
NEW HAMPSHIRE	-	-	62	62	124	10	72	-	5.25	1.28	9.09	-	113	524	836,075	95	-
NEW JERSEY	-	-	22	23	45	13	38	-	5.50	3.59	9.09	-	708	1,313	2,488,042	539	-
NEW MEXICO	-	1	32	32	64	15	36	-	2.59	1.58	4.13	-	50	1,913	2,224,514	111	-
NEW YORK	-	2	13	15	28	36	51	-	2.45	5.30	8.33	-	342	775	377,649	85	-
NORTH CAROLINA	-	-	8	8	16	10	18	-	4.24	5.30	9.53	-	73	300	2,927,774	210	-
NORTH DAKOTA	-	-	54	54	108	32	86	-	3.69	3.69	7.38	-	400	1,479	737,601	193	-
OHIO	-	3	51	54	105	32	86	-	2.44	2.71	5.15	-	77	638	920,272	88	-
OKLAHOMA	-	1	8	9	17	10	24	-	2.83	4.02	6.85	-	36	553	1,641,246	147	-
OREGON	-	-	13	13	26	11	24	-	6.94	4.02	10.56	-	223	875	1,641,246	147	-
PENNSYLVANIA	-	1	56	57	113	33	90	-	3.28	3.61	3.36	-	144	410	721,333	42	-
PUERTO RICO	-	-	11	11	22	4	15	-	3.90	3.61	4.52	-	10	134	795,306	17	-
RHODE ISLAND	-	-	1	1	2	1	2	-	1.01	3.52	4.53	-	10	413	390,096	64	-
SOUTH CAROLINA	-	-	4	4	8	14	18	-	2.56	5.64	8.20	-	47	331	664,120	50	-
SOUTH DAKOTA	-	-	5	5	10	11	16	-	4.22	4.52	8.73	-	95	335	664,120	50	-
TENNESSEE	-	-	14	14	28	15	29	-	4.55	3.66	8.22	-	121	2,890	4,041,368	302	-
TEXAS	-	2	90	92	182	74	166	-	4.45	2.88	7.18	-	53	574	833,790	112	-
UTAH	-	-	20	20	40	12	32	-	2.93	3.66	5.40	-	48	291	341,155	103	-
VERMONT	-	-	5	5	10	1	6	-	3.29	2.47	5.76	-	68	451	972,788	64	-
VIRGINIA	-	-	16	16	32	12	28	-	3.29	4.38	8.51	-	60	1,155	1,645,145	229	-
WASHINGTON	-	-	34	34	68	36	70	-	4.13	3.90	15.59	-	135	971	1,514,766	8	-
WEST VIRGINIA	-	-	9	9	18	12	25	-	11.69	5.55	7.66	-	506	323	383,223	226	-
WISCONSIN	-	1	41	42	83	16	58	-	5.78	5.22	12.00	-	224	506	1,514,766	226	-
WYOMING	-	-	1	1	2	10	23	-	6.78	5.22	12.00	-	224	323	383,223	67	-
TOTAL OR AVERAGE	3	42	1,449	1,491	2,940	996	2,490	60	4.96	3.30	8.26	60	205	35,500	60,288,279	6,430	-

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES				SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDI				TOTAL FATAL AND NFDI	NFI	TOTAL INJURIES	FATAL	NFDI	ALL FATAL AND NFDI	ALL INJURIES	FATAL	NFDI	ALL FATAL AND NFDI				
		TOTAL	PARTIAL	TEMPORARY	TOTAL AND NFDI														
OFFICE	-	-	-	1	-	-	-	-	1.04	-	-	-	-	2	192,006	17	85		
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	28,286	2	12	
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	282	363,677	-	152	
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	111,485	-	41	
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	896	1,559,798	-	319	
CALIFORNIA	-	-	2	-	-	-	-	-	38	38	-	-	-	-	215	225,530	-	115	
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	81,969	-	50	
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9,646	-	3	
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	185,617	-	48	
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	65,248	-	21	
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5,190	-	1	
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	54,801	-	38	
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	215	350,767	-	113	
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219	362,866	-	121	
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	194	232,923	-	103	
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	113,033	-	62	
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	58,816	-	19	
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108	157,779	-	72	
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	3,483	-	44	
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	247,534	-	38	
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153	266,207	-	30	
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	307	414,408	-	185	
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	163	130,938	-	113	
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	141,236	-	51	
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119	165,678	-	66	
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	75,394	-	59	
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	98,675	-	61	
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	84,221	-	29	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	89,686	-	43	
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213	394,287	-	66	
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	64,778	-	40	
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	383	423,859	-	253	
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152	176,375	-	85	
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	15,682	-	25	
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	332	594,289	-	168	
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109	172,265	-	65	
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	166,573	-	57	
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156	240,712	-	91	
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	97,152	-	33	
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	43,162	-	14	
RHODE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	156,247	-	56	
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	31,306	-	28	
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	143,231	-	35	
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	389	654,460	-	207	
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114	60,601	-	69	
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	42,132	-	39	
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	129,811	-	34	
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213	234,951	-	123	
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12,838	-	6	
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	208	237,175	-	117	
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	24,476	-	19	
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE	-	-	-	9	9	9	-	18	18	30	-	2	2	2	7.145	9,952,315	43	3,786	

TABLE 4 - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

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	NOL	TOTAL INJURIES	ALL INJURIES											
		PERMANENT	TEMPORARY	TOTAL NFDL	FATAL				NFDL	ALL FATAL AND NFDL	FATAL	NFDL	ALL FATAL AND NFDL							
																		TOTAL	PARTIAL	ALL INJURIES
GRAND TOTAL OR AVERAGE:																				
ALABAMA	-	-	29	1	30	40	11	29	1	-	89	52	732	1,449,367	101	65				
ALASKA	-	-	46	1	47	1	30	46	1	-	11	13	13	177,461	35	12				
ARIZONA	-	-	23	1	24	76	15	23	1	-	81	86	1,607	2,533,875	209	152				
ARKANSAS	-	-	357	2	359	40	243	364	40	-	138	12	515	930,019	77	41				
CALIFORNIA	-	2	57	1	58	607	243	364	40	-	177	9	535	10,067,572	402	310				
COLORADO	-	7	5	1	6	89	31	58	1	-	284	79	1,436	1,818,882	258	115				
CONNECTICUT	-	1	2	1	3	9	2	7	1	-	78	2	28	619,134	74	50				
DELAWARE	-	-	22	1	23	9	1	23	1	-	28	2	28	53,580	5	3				
FLORIDA	-	-	13	1	14	58	3	13	1	-	97	10	662	1,432,584	74	48				
GEORGIA	-	-	13	1	14	16	4	13	1	-	97	10	316	650,938	46	21				
HAWAII	-	-	39	1	40	1	1	39	1	-	97	10	28	33,590	2	1				
IDAHO	-	-	37	1	38	17	4	38	1	-	87	16	419	482,875	100	38				
ILLINOIS	-	2	32	1	33	63	4	39	1	-	97	10	1,113	2,017,996	156	113				
INDIANA	-	2	15	1	16	48	14	34	1	-	81	16	995	1,858,970	147	121				
IOWA	-	2	19	1	20	35	18	17	1	-	130	58	819	1,230,668	133	103				
KANSAS	-	-	5	1	6	9	4	5	1	-	130	58	487	824,073	25	19				
KENTUCKY	-	-	5	1	6	22	12	5	1	-	59	17	734	1,201,963	40	38				
LOUISIANA	-	-	7	1	8	12	5	7	1	-	112	38	751	1,624,722	117	85				
MAINE	-	-	30	1	31	42	12	30	1	-	454	12	653	1,077,186	313	113				
MARYLAND	-	-	26	1	27	29	3	26	1	-	36	52	1,171	2,663,526	24	51				
MASSACHUSETTS	-	-	56	1	57	87	31	56	1	-	66	12	557	1,495,716	88	59				
MICHIGAN	-	-	18	1	19	31	18	18	1	-	88	84	597	1,280,984	100	81				
MINNESOTA	-	-	17	1	18	31	11	17	1	-	90	17	702	1,015,132	196	139				
MISSISSIPPI	-	-	13	1	14	36	10	13	1	-	38	3	464	1,015,132	196	139				
MISSOURI	-	-	17	1	18	2	2	17	1	-	1,025	40	663	1,015,132	196	139				
MONTANA	-	-	13	1	14	2	2	13	1	-	96	12	553	737,277	65	43				
NEBRASKA	-	-	35	1	36	27	10	35	1	-	91	7	578	1,945,581	80	60				
NEVADA	-	-	17	1	18	2	2	17	1	-	741	44	2,286	2,851,902	544	253				
NEW HAMPSHIRE	-	-	62	1	63	39	17	62	1	-	300	8	867	1,400,865	112	86				
NEW JERSEY	-	-	23	1	24	72	10	23	1	-	71	13	1,811	3,522,063	212	158				
NEW MEXICO	-	-	33	1	34	52	15	33	1	-	30	18	678	1,085,845	98	57				
NEW YORK	-	-	16	1	17	37	10	16	1	-	106	4	1,081	1,883,952	147	91				
NORTH CAROLINA	-	-	9	1	10	86	19	9	1	-	125	8	23	786,917	40	31				
NORTH DAKOTA	-	-	54	1	55	24	11	54	1	-	8	15	526	264,495	64	46				
OHIO	-	-	13	1	14	90	12	13	1	-	44	7	375	421,407	50	35				
OKLAHOMA	-	-	5	1	6	18	4	5	1	-	45	13	2,473	4,534,806	308	207				
OREGON	-	-	13	1	14	29	11	13	1	-	104	16	414	807,361	70	48				
PENNSYLVANIA	-	-	4	1	5	16	5	4	1	-	75	13	2,473	4,534,806	308	207				
PUERTO RICO	-	-	14	1	15	15	7	14	1	-	43	13	335	561,553	113	78				
RHODE ISLAND	-	-	90	1	91	167	12	90	1	-	104	16	2,473	4,534,806	308	207				
SOUTH CAROLINA	-	-	20	1	21	32	6	20	1	-	43	13	533	1,022,595	64	46				
SOUTH DAKOTA	-	-	5	1	6	28	12	5	1	-	60	13	533	1,022,595	64	46				
TENNESSEE	-	-	15	1	16	70	12	15	1	-	52	18	1,378	1,580,088	103	64				
TEXAS	-	-	42	1	43	58	23	42	1	-	125	15	85	1,166,830	8	228				
UTAH	-	-	1	1	2	12	3	1	1	-	438	210	1,179	1,751,591	117	19				
VERMONT	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
VIRGINIA	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
WASHINGTON	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
WEST VIRGINIA	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
WISCONSIN	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
WYOMING	-	-	1	1	2	2	1	1	1	-	210	28	356	407,636	68	19				
TOTAL OR AVERAGE:	3	42	1,456		1,500	2,505	1,002	1,503		01	177	7	42,745	70,240,524	5,473	3,786				

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND STATE	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NOL	FATAL	NFDL		TOTAL FATAL AND NFDL	PERMA-NENT PARTIAL	TEMPO-RARY
		PERMANENT	TEMPO-RARY	TOTAL NFDL					TOTAL	PARTIAL			
OPEN PIT:	-	15	15	15	21	6	-	-	-	427	-	28	
ALABAMA	-	1	1	1	1	30	-	-	-	10	-	10	
ALASKA	-	45	45	45	75	23	-	-	-	1,031	-	23	
ARIZONA	-	22	23	23	37	14	-	-	-	569	50	24	
ARKANSAS	-	357	364	364	599	235	-	-	-	8,965	489	15	
CALIFORNIA	-	54	55	55	86	31	-	-	-	2,571	1,800	14	
COLORADO	-	5	7	7	9	2	-	-	-	243	55	27	
CONNECTICUT	-	4	4	4	6	2	-	-	-	51	-	13	
FLORIDA	-	7	7	7	8	1	-	-	-	165	-	24	
GEORGIA	-	4	4	4	8	1	-	-	-	165	-	16	
HAWAII	-	-	-	-	17	4	-	-	-	209	70	20	
IDaho	-	13	13	13	49	19	-	-	-	589	50	19	
ILLINOIS	-	29	30	30	38	10	-	-	-	6,740	50	232	
INDIANA	1	27	28	29	39	12	-	6,000	-	1,943	925	26	
IOWA	-	11	13	13	25	2	-	-	-	1,943	-	8	
KANSAS	-	-	-	-	2	3	-	-	-	37	-	7	
KENTUCKY	-	5	5	5	8	2	-	-	-	-	-	-	
LOUISIANA	-	-	-	-	2	2	-	-	-	199	-	28	
MAINE	-	7	7	7	12	5	-	-	-	482	-	16	
MARYLAND	-	30	30	30	42	12	-	-	-	585	-	24	
MASSACHUSETTS	-	25	25	25	28	3	-	-	-	595	-	17	
MICHIGAN	-	49	54	54	85	31	-	-	-	6,032	1,037	112	
MINNESOTA	1	18	18	18	37	18	-	5,000	-	262	-	15	
MISSISSIPPI	1	8	9	9	13	3	-	5,000	-	244	3,000	30	
MISSOURI	-	5	5	5	10	2	-	-	-	35	-	7	
MONTANA	-	8	8	8	12	7	-	-	-	228	-	28	
NEBRASKA	-	1	1	1	3	2	-	-	-	23	-	23	
NEVADA	-	35	39	39	63	24	-	-	-	5,206	1,162	133	
NEW HAMPSHIRE	-	17	17	17	27	10	-	-	-	354	-	16	
NEW JERSEY	-	19	19	19	23	4	-	-	-	241	-	21	
NEW MEXICO	-	22	23	23	38	15	-	-	-	3,337	3,000	13	
NEW YORK	-	31	31	31	50	19	-	-	-	610	-	15	
NORTH CAROLINA	-	8	9	9	36	27	-	-	-	1,973	1,800	20	
NORTH DAKOTA	-	8	8	8	18	10	-	-	-	138	-	17	
OHIO	-	45	46	46	77	31	-	-	-	914	370	20	
OKLAHOMA	-	4	4	4	8	4	-	-	-	132	-	12	
OREGON	-	13	13	13	24	4	-	-	-	165	-	33	
PENNSYLVANIA	-	36	37	37	64	27	-	-	-	795	50	13	
PUERTO RICO	-	11	11	11	12	1	-	-	-	481	-	22	
RHODE ISLAND	-	1	1	1	5	1	-	-	-	23	-	11	
SOUTH CAROLINA	-	3	3	3	17	14	-	-	-	92	-	8	
SOUTH DAKOTA	-	5	5	5	16	10	-	-	-	287	-	18	
TENNESSEE	-	10	10	10	20	11	-	-	-	1,683	50	22	
TEXAS	-	75	76	76	127	51	-	-	-	221	-	11	
UTAH	-	20	20	20	32	12	-	-	-	82	-	16	
VERMONT	-	5	5	5	6	1	-	-	-	332	-	21	
VIRGINIA	-	16	16	16	28	36	-	-	-	493	-	14	
WASHINGTON	-	34	34	34	70	2	-	-	-	51	-	26	
WEST VIRGINIA	-	2	2	2	2	13	-	-	-	3,835	3,000	91	
WISCONSIN	-	41	42	42	55	10	-	-	-	429	50	33	
WYOMING	-	12	13	13	23	10	-	-	-	50,476	890	18	
TOTAL OR AVERAGE	3	1,219	1,251	1,254	2,088	814	18,000	28,490	21,966	50,476	890	18	

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

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					TOTAL	PARTIAL	TOTAL NFDL							
																TOTAL	PARTIAL	TOTAL
DEGREE																		
ALABAMA	-	-	13	13	13	5	18	-	-	-	217	-	17	17	17	48		
ARIZONA	-	-	1	1	1	1	1	-	-	-	17	-	17	17	17	17		
ARKANSAS	-	-	1	2	2	1	3	-	-	-	73	-	23	36	36	36		
CALIFORNIA	-	-	1	1	1	1	5	-	-	-	4	-	4	4	4	4		
COLORADO	-	-	1	1	1	1	1	-	-	-	4	-	4	4	4	4		
DELAWARE	-	-	27	27	29	22	51	-	-	-	623	-	18	21	21	21		
FLORIDA	-	-	6	6	6	2	8	-	-	-	151	-	26	26	26	26		
GEORGIA	-	-	5	5	5	3	14	-	-	-	392	-	47	44	44	44		
ILLINOIS	-	-	4	4	4	4	9	-	-	-	14	-	3	3	3	3		
INDIANA	-	-	19	19	19	14	33	-	-	-	535	-	13	15	15	15		
IOWA	-	-	9	9	9	11	20	-	-	-	77	-	28	28	28	28		
KANSAS	-	-	9	9	9	11	20	-	-	-	77	-	9	9	9	9		
KENTUCKY	-	-	10	10	10	8	18	-	-	-	955	-	5	95	95	95		
LOUISIANA	-	-	8	8	8	15	23	-	-	-	374	-	47	47	47	47		
MICHIGAN	-	-	12	12	12	20	32	-	-	-	171	-	14	14	14	14		
MISSISSIPPI	-	-	43	43	43	6	49	-	-	-	643	-	15	15	15	15		
MISSOURI	-	-	1	1	1	9	15	-	-	-	5	-	5	5	5	5		
NEBRASKA	-	-	5	5	5	6	11	-	-	-	123	-	15	20	20	20		
NEW JERSEY	-	-	6	6	6	6	15	-	-	-	4	-	7	618	618	618		
NEW YORK	-	-	5	5	5	1	9	-	-	-	491	-	26	31	31	31		
NORTH CAROLINA	-	-	2	2	2	6	11	-	-	-	153	-	52	15	15	15		
OHIO	-	-	4	4	4	6	11	-	-	-	1,039	-	15	8	8	8		
OKLAHOMA	-	-	20	20	20	6	26	-	-	-	30	-	47	47	47	47		
PENNSYLVANIA	-	-	1	1	1	5	9	-	-	-	756	-	8	8	8	8		
SOUTH CAROLINA	-	-	15	15	15	3	18	-	-	-	53	-	8	8	8	8		
TENNESSEE	-	-	7	7	7	3	10	-	-	-	-	-	-	-	-	-		
TEXAS	-	-	10	10	10	182	422	-	-	-	11,425	-	23	48	48	48		
WEST VIRGINIA	-	-	236	240	240	182	422	-	-	-	5,225	-	23	48	48	48		
WISCONSIN	-	-	10	10	10	182	422	-	-	-	5,225	-	23	48	48	48		
TOTAL OR AVERAGE	-	-	236	240	240	182	422	-	-	-	11,425	-	23	48	48	48		

TABLE 5 - NUMBER OF INJURIES, LOSS WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES					TOTAL INJURIES	NOL	FATAL	LOSS WORKDAYS			AVERAGE SEVERITY							
	FATAL	NFDL			TOTAL FATAL AND NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL				
		TOTAL	PARTIAL	TEMPORARY												TOTAL	PARTIAL	TEMPORARY	TOTAL
TOTAL OR AVERAGE MINING																			
ALABAMA						28	11			39	544	644	23				23		
ALASKA						1	30			1	10	10	10				10		
ARIZONA						46	15			76	1,048	1,048	23				23		
ARKANSAS						25	40			40	542	542	24				24		
CALIFORNIA						364	240			604	8,065	8,065	16				16		
COLORADO						56	31			87	3,425	3,425	35				35		
CONNECTICUT						7	2			9	1,809	2,375	27				27		
DELAWARE						1	1			1	110	243	14				14		
FLORIDA						33	24			57	524	674	17				17		
GEORGIA						13	3			16	316	316	24				24		
HAWAII							1			1									
IDAH0						13	4			17	209	209	16				16		
ILLINOIS						35	24			63	981	981	24				24		
INDIANA						33	14			48	754	6,754	10				10		
INDIANA						17	18		6,000	35	154	2,004	28				28		
INDIANA						19	16			35	535	535	7				7		
KANSAS						5	4			9	37	37	7				7		
KENTUCKY						9	13			22	77	77	28				28		
LOUISIANA						9	5			12	199	199	16				16		
MAINE						7	3			42	482	482	24				24		
MARYLAND						30	12			42	595	595	17				17		
MASSACHUSETTS						25	23			86	5,185	6,033	15				15		
MICHIGAN						55	31			37	262	6,262	31				31		
MINNESOTA						18	18		6,000	35	4,093	10,199	16				16		
MISSISSIPPI						17	11			22	3,900	4,199	15				15		
MISSISSIPPI						13	22			35	288	288	31				31		
MISSOURI						8	10			10	194	194	28				28		
MONTANA						13	22			35	556	5,400	15				15		
NEBRASKA						39	24			63	354	5,400	21				21		
NEVADA						17	10			27	884	884	14				14		
NEW HAMPSHIRE						62	10			72	3,337	3,337	15				15		
NEW JERSEY						23	15			38	615	615	19				19		
NEW MEXICO						32	19			51	2,096	2,096	17				17		
NEW YORK						15	36			18	138	138	11				11		
NORTH CAROLINA						8	10			86	5,855	5,855	13				13		
NORTH DAKOTA						54	32			19	235	285	32				32		
OHIO						9	11			24	165	165	13				13		
OKLAHOMA						13	11			30	1,835	1,835	44				44		
OREGON						57	33			90	481	481	11				11		
PENNSYLVANIA						11	12			5	11	11	10				10		
PUERTO RICO						4	4			18	38	38	18				18		
RHODE ISLAND						5	14			16	92	92	23				23		
SOUTH CAROLINA						14	11			28	317	317	26				26		
SOUTH DAKOTA						52	74			166	2,441	2,441	11				11		
TENNESSEE						20	12			32	221	221	15				15		
TEXAS						5	6			1	82	82	21				21		
UTAH						16	28			70	332	332	14				14		
VERMONT						34	36			104	493	493	12				12		
VIRGINIA						9	16			58	104	104	20				20		
WASHINGTON						42	13			23	3,835	3,835	32				32		
WEST VIRGINIA						13	10				425	425	19				19		
WISCONSIN						42	996	18,000		2,490	61,901	79,901	826				826		
WYOMING						42	996	18,000		2,490	61,901	79,901	826				826		
TOTAL OR AVERAGE	3	42	1,449	1,491	1,494	2,490	996	18,000		2,490	61,901	79,901	19				19		

TABLE 5 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOI	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		TOTAL	PERMANENT	PARTIAL					TOTAL	PARTIAL	TEMPO- RARY					TOTAL NFDL
OFFICE	-	-	-	-	-	1	-	-	-	-	2	-	-	2		
ALABAMA	-	-	-	-	1	3	-	-	-	-	9	-	-	9		
CALIFORNIA	-	-	-	-	2	-	-	-	-	-	18	-	-	18		
COLORADO	-	-	-	-	1	-	-	-	-	-	9	-	-	9		
FLORIDA	-	-	-	-	1	-	-	-	-	-	26	-	-	26		
MASSACHUSETTS	-	-	-	-	1	-	-	-	-	-	27	-	-	27		
MICHIGAN	-	-	-	-	1	-	-	-	-	-	5	-	-	5		
MISSOURI	-	-	-	-	1	-	-	-	-	-	2	-	-	2		
NEW YORK	-	-	-	-	1	-	-	-	-	-	98	-	-	98		
NORTH CAROLINA	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TEXAS	-	-	-	-	9	6	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE	-	-	-	-	9	6	15	-	-	-	-	-	-	11		

TABLE 5. NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFIDL			TOTAL FATAL AND NFIDL	NFIDL	FATAL	NFIDL			PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFIDL	
		TOTAL	PARTIAL	TEMPORARY				TOTAL	PARTIAL	TEMPORARY				TOTAL
GRAND TOTAL OR AVERAGE	3	1,458	42	1,500	1,563	1,002	18,000	27,309	61,999	79,999	826	19	53	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	22	
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	10	
ARIZONA	-	46	-	46	1	30	-	-	1,048	10	-	-	23	
ARKANSAS	-	23	-	23	40	15	-	-	542	542	50	-	26	
CALIFORNIA	-	357	2	359	607	346	-	100	8,905	8,905	489	-	24	
COLORADO	-	57	1	58	85	243	-	3,425	2,564	2,564	1,800	-	45	
CONNECTICUT	-	5	-	5	9	110	-	1,800	243	243	55	-	35	
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	20	
FLORIDA	-	32	2	34	58	24	-	154	542	542	75	-	24	
GEORGIA	-	13	-	13	16	3	-	-	316	316	-	-	16	
HAWAII	-	-	-	-	1	1	-	-	-	-	-	-	-	
IDAHO	-	-	-	-	17	4	-	-	209	209	-	-	24	
ILLINOIS	-	37	33	70	63	24	-	100	981	981	50	-	22	
INDIANA	1	15	17	18	48	14	5,000	50	754	754	50	-	195	
IOWA	-	19	19	19	25	18	-	1,856	154	2,004	925	-	118	
KANSAS	-	5	-	5	35	4	-	-	535	535	-	-	28	
KENTUCKY	-	9	-	9	9	16	-	-	37	37	-	-	7	
LOUISIANA	-	7	-	7	22	13	-	-	77	77	-	-	9	
MAINE	-	-	-	-	12	5	-	-	199	199	-	-	28	
MARYLAND	-	30	-	30	42	12	-	-	482	482	-	-	16	
MASSACHUSETTS	-	26	-	26	29	3	-	-	604	604	-	-	23	
MICHIGAN	-	51	56	107	87	31	-	-	6,059	6,059	1,037	-	108	
MINNESOTA	1	18	18	19	37	18	6,000	-	874	262	15	-	330	
MISSISSIPPI	1	19	20	21	31	23	6,000	3,900	299	4,199	1,950	-	510	
MISSOURI	-	13	13	13	36	10	-	-	409	409	31	-	31	
MONTANA	-	8	-	8	10	2	-	-	278	278	-	-	26	
NEBRASKA	-	13	-	13	35	10	-	-	194	194	-	-	15	
NEVADA	-	35	39	74	63	22	-	4,650	596	5,206	1,162	-	133	
NEW HAMPSHIRE	-	17	17	17	27	10	-	-	354	354	-	-	21	
NEW JERSEY	-	62	62	62	72	10	-	-	884	884	-	-	14	
NEW MEXICO	-	22	23	23	38	15	-	-	337	337	-	-	15	
NEW YORK	-	33	33	33	52	33	-	3,000	642	3,337	3,000	-	145	
NORTH CAROLINA	-	14	16	15	53	37	-	1,850	251	2,101	925	-	19	
NORTH DAKOTA	-	9	9	9	19	140	-	-	140	2,101	925	-	131	
OHIO	-	51	54	54	86	32	-	5,270	585	5,855	1,757	-	16	
OKLAHOMA	-	8	9	9	19	10	-	50	235	285	50	-	11	
OREGON	-	13	13	13	24	11	-	-	165	165	-	-	29	
PENNSYLVANIA	-	56	57	57	90	33	-	50	1,835	1,835	50	-	32	
PUERTO RICO	-	11	11	11	12	5	-	-	481	481	-	-	44	
RHODE ISLAND	-	1	1	1	4	18	-	-	11	11	-	-	11	
SOUTH CAROLINA	-	4	4	4	18	14	-	-	38	38	-	-	10	
SOUTH DAKOTA	-	5	5	5	15	11	-	-	92	92	-	-	18	
TENNESSEE	-	14	14	14	29	15	-	-	317	317	-	-	23	
TEXAS	-	90	92	92	167	32	-	100	2,441	2,441	50	-	27	
UTAH	-	20	20	20	32	12	-	-	221	221	-	-	23	
VERMONT	-	5	5	5	6	1	-	-	82	82	-	-	11	
VIRGINIA	-	16	16	16	28	12	-	-	332	332	-	-	15	
WASHINGTON	-	34	34	34	70	36	-	-	493	493	-	-	21	
WEST VIRGINIA	-	9	9	9	12	3	-	-	104	104	-	-	14	
WISCONSIN	-	41	42	42	58	16	-	3,000	835	3,835	3,000	-	91	
WYOMING	-	12	13	13	23	10	-	50	379	429	50	-	33	
TOTAL OR AVERAGE	3	1,458	42	1,500	1,563	1,002	18,000	27,309	61,999	79,999	826	19	53	

TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

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	TEMPORARY	TOTAL												
																TOTAL
SURFACE MINES:																
OPEN PIT:																
EAR	-	-	2	77	79	2	11	9	01	01	04	04	-	01	04	
EYE	-	1	-	-	-	78	205	1	31	31	51	82	-	8	8	
JAW	-	-	4	4	4	-	8	1	-	-	03	03	-	-	-	
MOUTH/TEETH/TONGUE	-	-	-	-	-	-	6	5	02	02	06	08	-	01	01	
NOSE	-	-	-	-	-	-	8	7	01	01	03	03	-	01	01	
SCALP	-	-	-	-	-	-	8	14	04	04	03	06	-	01	01	
FACE, NEC	-	-	10	-	-	10	24	1	-	-	16	27	-	1	1	
HEAD, NEC	-	-	28	-	-	28	59	41	11	11	04	12	-	01	01	
NECK	-	-	20	-	-	20	30	10	06	06	04	12	-	01	01	
UPPER ARM	-	-	-	-	-	-	2	-	01	01	01	01	-	01	01	
ELBOW	-	-	17	-	-	17	27	10	07	07	04	11	-	01	01	
FOREARM	-	-	14	-	-	14	25	15	05	05	06	11	-	01	01	
WRIST	-	-	25	-	-	25	48	23	10	10	09	19	-	01	01	
HAND	-	-	45	-	-	45	97	50	18	18	20	38	-	01	01	
FINGER(S)	-	-	110	-	-	120	288	188	47	47	56	113	-	01	01	
UPPER EXTREMITIES, NEC	-	-	30	-	-	30	57	27	12	12	11	23	-	01	01	
ABDOMEN	-	-	10	-	-	10	13	2	04	04	01	06	-	01	01	
BACK	-	-	302	-	-	302	375	25	13	13	26	60	-	01	01	
CHEST	-	-	33	-	-	33	49	14	13	13	03	08	-	01	01	
PELVIC REGION	-	-	35	-	-	35	43	4	15	15	03	06	-	01	01	
SHOULDER(S)	-	-	55	-	-	55	72	17	22	22	07	13	-	01	01	
TRUNK, NEC	-	-	24	-	-	24	31	13	08	08	02	03	-	01	01	
THIGH	-	-	73	-	-	73	107	32	33	33	04	08	-	01	01	
KNEE	-	-	75	-	-	75	107	32	33	33	04	08	-	01	01	
LOWER LEG	-	-	14	-	-	14	20	6	06	06	04	09	-	01	01	
ANKLE	-	-	58	-	-	58	80	24	22	22	04	09	-	01	01	
FOOT	-	-	13	-	-	13	30	3	08	08	04	09	-	01	01	
TOE(S)	-	-	33	-	-	33	50	33	13	13	04	09	-	01	01	
LOWER EXTREMITIES, NEC	-	-	11	-	-	11	31	10	04	04	04	08	-	01	01	
BODY SYSTEMS	-	-	94	-	-	94	135	40	35	35	16	33	-	01	01	
MULTIPLE PARTS OF BODY	-	-	-	-	-	-	2	-	01	01	01	01	-	01	01	
UNCLASSIFIED	-	-	-	-	-	-	2	-	01	01	01	01	-	01	01	
TOTAL OR AVERAGE	3	30	27	1,229	1,259	1,259	2,056	34	430	431	839	1,490	70	79	1,490	

TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	TEMPORARY	TOTAL													
																TOTAL	PARTIAL
DREDGE:																	
EAR-----	-	-	-	-	16	4	4	-	35	35	09	09	-	-	-		
EYE-----	-	-	-	-	1	28	44	-	02	02	61	96	-	2	2		
MOUTH/TEETH/TONGUE-----	-	-	-	-	1	1	1	-	02	02	-	07	-	(*)	(*)		
NOSE-----	-	-	-	-	1	1	1	-	02	02	04	07	-	(*)	(*)		
FACE, NEC-----	-	-	-	-	2	2	5	-	04	04	07	11	-	1	1		
HEAD, NEC-----	-	-	-	-	3	13	16	-	07	07	28	35	-	1	1		
NECK-----	-	-	-	-	2	3	5	-	04	04	07	11	-	(*)	(*)		
UPPER ARM-----	-	-	-	-	2	2	3	-	04	04	02	07	-	(*)	(*)		
ELBOW-----	-	-	-	-	2	2	3	-	09	09	07	15	-	2	2		
FOREARM-----	-	-	-	-	4	3	7	-	04	04	04	09	-	1	1		
WRIST-----	-	-	-	-	4	8	12	-	04	04	04	09	-	1	1		
HAND-----	-	-	-	-	8	13	21	-	05	05	17	26	-	3	3		
FINGER(S)-----	-	-	-	-	14	32	50	-	39	39	70	109	-	35	35		
UPPER EXTREMITIES, NEC-----	-	-	-	-	3	6	10	-	09	09	13	22	-	99	99		
ABDOMEN-----	-	-	-	-	3	2	5	-	07	07	04	11	-	1	1		
BACK-----	-	-	-	-	60	18	78	-	13	13	39	52	-	43	43		
CHEST-----	-	-	-	-	6	5	11	-	20	20	11	24	-	2	2		
PELVIC REGION-----	-	-	-	-	9	3	12	-	13	13	07	20	-	9	9		
SHOULDER(S)-----	-	-	-	-	6	3	9	-	04	04	04	09	-	1	1		
TRUNK, NEC-----	-	-	-	-	2	2	4	-	04	04	02	07	-	(*)	(*)		
THIGH-----	-	-	-	-	2	2	3	-	04	04	02	07	-	(*)	(*)		
KNEE-----	-	-	-	-	21	7	28	-	46	46	15	61	-	12	12		
LOWER LEG-----	-	-	-	-	4	2	6	-	09	09	04	13	-	3	3		
ANKLE-----	-	-	-	-	10	3	13	-	22	22	07	28	-	10	10		
FOOT-----	-	-	-	-	14	1	15	-	31	31	02	33	-	4	4		
TOE(S)-----	-	-	-	-	4	1	5	-	09	09	02	11	-	(*)	(*)		
LOWER EXTREMITIES, NEC-----	-	-	-	-	7	7	14	-	15	15	15	31	-	5	5		
BODY SYSTEMS-----	-	-	-	-	2	2	4	-	04	04	04	09	-	(*)	(*)		
MULTIPLE PARTS OF BODY-----	-	-	-	-	23	7	30	-	50	50	15	65	-	14	14		
TOTAL OR AVERAGE-----	-	10	-	-	240	182	422	-	5	5	23	3	97	249	249		

TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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		TOTAL NFDL											
		TOTAL	PARTIAL												
TOTAL OR AVERAGE, MINING.															
EAR-----	-	-	-	2	2	2	13	-	.01	.01	.04	.05	-	(*)	(*)
EYE-----	-	-	-	93	94	94	253	-	.31	.31	.53	.84	-	7	7
JAW-----	-	-	-	5	5	5	8	-	-	-	.03	.03	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	5	5	5	16	-	.02	.02	.05	.07	-	(*)	(*)
NOSE-----	-	-	-	2	2	2	7	-	.01	.01	.02	.03	-	(*)	(*)
SCALP-----	-	-	-	1	1	1	7	-	(*)	(*)	.02	.03	-	(*)	(*)
FACE, NEC-----	-	-	-	12	12	12	17	-	.04	.04	.06	.10	-	1	1
HEAD, NEC-----	-	-	-	31	31	31	54	-	.10	.10	.18	.28	-	1	1
NECK-----	-	-	-	22	22	22	13	-	.07	.07	.04	.12	-	1	1
UPPER ARM-----	-	-	-	3	3	3	5	-	.01	.01	.01	.02	-	(*)	(*)
ELBOW-----	-	-	-	21	21	21	13	-	.07	.07	.04	.11	-	1	1
FOREARM-----	-	-	-	16	16	16	17	-	.05	.05	.06	.11	-	1	1
WRIST-----	-	-	-	29	29	29	31	-	.10	.10	.10	.20	-	1	1
HAND-----	-	-	-	52	53	53	65	-	.18	.18	.22	.39	-	13	13
FINGER(S)-----	-	-	-	126	138	138	200	-	.46	.46	.66	1.12	-	15	15
UPPER EXTREMITIES, NEC-----	-	-	-	31	34	34	33	-	.11	.11	.11	.22	-	47	47
ABDOMEN-----	-	-	-	13	13	13	5	-	.04	.04	.02	.06	-	1	1
BACK-----	-	-	-	363	364	364	93	-	1.21	1.21	.31	1.52	-	35	35
CHEST-----	-	-	-	40	40	40	19	(*)	.13	.13	.14	.20	20	2	2
PELVIC REGION-----	-	-	-	28	28	28	48	-	.16	.16	.02	.18	-	7	7
SHOULDER(S)-----	-	-	-	61	61	61	81	-	.20	.20	.07	.27	-	3	3
TRUNK, NEC-----	-	-	-	26	27	27	8	-	.09	.09	.03	.12	-	7	7
THIGH-----	-	-	-	7	7	7	9	-	.02	.02	.03	.05	-	(*)	(*)
KNEE-----	-	-	-	100	100	100	35	-	.33	.33	.12	.45	-	7	7
LOWER LEG-----	-	-	-	18	19	19	7	-	.06	.06	.02	.09	-	12	12
ANKLE-----	-	-	-	85	85	85	13	-	.28	.28	.04	.33	-	6	6
FOOT-----	-	-	-	70	70	70	25	-	.23	.23	.08	.32	-	4	4
TOE(S)-----	-	-	-	17	17	17	10	-	.06	.06	.03	.09	-	1	1
LOWER EXTREMITIES, NEC-----	-	-	-	46	46	46	30	-	.15	.15	.10	.25	-	4	4
BODY SYSTEMS-----	-	-	-	13	13	13	12	-	.04	.04	.04	.08	-	1	1
MULTIPLE PARTS OF BODY-----	2	2	2	115	117	119	47	.01	.39	.39	.16	.55	.40	25	56
UNCLASSIFIED-----	-	-	-	1	1	1	1	-	(*)	(*)	.01	.01	-	(*)	(*)
TOTAL OR AVERAGE-----	3	-	42	1,449	1,491	1,494	996	.01	4.95	4.96	3.30	8.26	60	205	265
OFFICE:															
EYE-----	-	-	-	-	-	-	1	-	-	-	.02	.02	-	-	-
JAW-----	-	-	-	1	1	1	1	-	.02	.02	.02	.04	-	1	1
HEAD, NEC-----	-	-	-	1	1	1	2	-	.02	.02	.02	.02	-	(*)	(*)
WRIST-----	-	-	-	1	1	1	1	-	.02	.02	.02	.02	-	-	-
FINGER(S)-----	-	-	-	1	1	1	1	-	.02	.02	.02	.02	-	(*)	(*)
UPPER EXTREMITIES, NEC-----	-	-	-	1	1	1	1	-	.02	.02	.02	.02	-	(*)	(*)
BACK-----	-	-	-	1	1	1	1	-	.02	.02	.02	.04	-	(*)	(*)
KNEE-----	-	-	-	1	1	1	1	-	.02	.02	.02	.02	-	1	1
FOOT-----	-	-	-	1	1	1	1	-	.02	.02	.02	.02	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	-	3	3	3	3	-	.06	.06	.02	.02	-	(*)	(*)
MULTIPLE PARTS OF BODY-----	-	-	-	9	9	9	15	-	.18	.18	.12	.30	-	2	2
TOTAL OR AVERAGE-----															

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY		
	FATAL	NFIL			TOTAL INJURIES	FATAL	NFIL			TOTAL FATAL AND NFIL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFIL
		PERMANENT	TEMPORARY	TOTAL NFIL			TOTAL	PARTIAL	TOTAL NFIL				
SURFACE MINES:													
OPEN PIT:													
EAR	-	-	2	2	9	-	-	-	18	18	-	-	9
EYE	-	1	77	78	131	-	-	1,500	341	2,141	1,800	-	27
JAW	-	-	-	-	8	-	-	-	-	-	-	-	4
MOUTH/TEETH/TONGUE	-	-	4	4	15	-	-	-	13	13	-	-	3
NOSE	-	-	1	1	5	-	-	-	40	40	-	-	40
SCALP	-	-	1	1	7	-	-	-	2	2	-	-	2
FACE, NEC	-	-	10	10	14	-	-	-	138	138	-	-	14
HEAD, NEC	-	-	28	28	41	-	-	-	199	199	-	-	14
NECK	-	-	20	20	30	-	-	-	345	345	-	-	7
UPPER ARM	-	-	1	1	1	-	-	-	-	-	-	-	17
ELBOW	-	-	17	17	27	-	-	-	-	-	-	-	14
FOREARM	-	-	14	14	15	-	-	-	233	233	-	-	14
WRIST	-	-	25	25	23	-	-	-	204	204	-	-	15
HAND	-	1	44	45	97	-	-	3,000	757	3,757	3,000	-	83
FINGER(S)	-	8	112	120	188	-	-	1,340	1,732	3,072	1,340	-	26
UPPER EXTREMITIES, NEC	-	2	28	30	57	-	-	9,000	741	9,741	4,500	-	325
ADDITION	-	-	10	10	13	-	-	-	231	231	-	-	23
BACK	-	1	303	304	379	-	-	3,000	5,664	8,664	3,000	-	28
CHEST	1	-	34	34	45	5,000	-	-	400	400	-	-	12
PELVIC REGION	-	-	24	24	14	-	-	750	910	1,660	50	-	43
SHOULDER(S)	-	-	55	55	4	-	-	-	755	755	-	-	14
TRUNK, NEC	-	-	24	24	17	-	-	1,800	246	2,046	1,800	-	10
THIGH	-	-	5	5	8	-	-	-	50	50	-	-	10
KNEE	-	-	79	79	107	-	-	-	1,706	1,706	-	-	22
LOWER LEG	-	1	14	15	20	-	-	3,000	402	3,402	3,000	-	17
ANKLE	-	-	75	75	85	-	-	-	1,251	1,251	-	-	25
FOOT	-	-	56	56	24	-	-	-	1,017	1,017	-	-	18
TOE(S)	-	-	13	13	9	-	-	-	381	381	-	-	29
LOWER EXTREMITIES, NEC	-	-	39	39	62	-	-	-	1,067	1,067	-	-	27
BODY SYSTEMS	-	-	11	11	21	-	-	-	262	262	-	-	24
MULTIPLE PARTS OF BODY	2	2	90	94	136	12,000	-	4,800	2,530	19,332	2,400	-	201
UNCLASSIFIED	-	-	1	1	2	-	-	-	6	6	-	-	6
TOTAL OR AVERAGE	3	32	1,219	1,251	2,058	18,000	-	28,430	21,366	50,476	390	-	35

TABLE 7 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NFI	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPO- RARY					PERMANENT		TEMPO- RARY				
		TOTAL	PARTIAL						TOTAL	PARTIAL					
DREDGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EYE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FACE, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEAD, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NECK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPPER ARM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELBOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOREARM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WRIST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ABDOMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BACK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PELVIC REGION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHOULDER(S)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRUNK, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KNEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOWER LEG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANKLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOOT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOE(S)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BODY SYSTEMS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	10	230	240	240	182	422	6,200	5,225	11,425	631	23	48		

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES				LOST WORKDAYS				AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL		TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY					TOTAL	PARTIAL				
			TOTAL	PARTIAL									
TOTAL OR AVERAGE, MINING:													
EAR.....	-	-	2	-	2	15	-	-	-	18	-	-	18
EYE.....	-	-	94	-	94	253	-	-	1,800	2,232	1,800	-	2,232
JAW.....	-	-	5	-	5	8	-	-	-	432	-	-	432
HEAD, NEC.....	-	-	5	-	5	21	-	-	-	45	-	-	45
MOUTH/TEETH/TONGUE.....	-	-	2	-	2	9	-	-	-	15	-	-	15
NOSE.....	-	-	1	-	1	8	-	-	-	2	-	-	2
SCALP.....	-	-	12	-	12	29	-	-	-	166	-	-	166
FACE, NEC.....	-	-	31	-	31	85	-	-	-	237	-	-	237
HEAD, NEC.....	-	-	22	-	22	35	-	-	-	356	-	-	356
NECK.....	-	-	3	-	3	5	-	-	-	16	-	-	16
UPPER ARM.....	-	-	21	-	21	34	-	-	-	308	-	-	308
ELBOW.....	-	-	16	-	16	33	-	-	-	253	-	-	253
FOREARM.....	-	-	29	-	29	60	-	-	-	402	-	-	402
WREST.....	-	-	52	-	52	118	-	-	-	897	-	-	897
HAND.....	-	-	126	-	126	328	-	-	3,000	3,897	3,000	-	3,897
FINGER(S).....	-	-	31	-	31	67	-	-	2,790	4,659	2,790	-	4,659
UPPER EXTREMITIES, NEC.....	-	-	3	-	3	18	-	-	13,500	14,281	4,500	-	14,281
ABDOMEN.....	-	-	363	-	363	457	-	-	3,000	7,626	3,000	-	7,626
BACK.....	-	-	40	-	40	60	-	6,000	-	505	-	-	505
CHEST.....	-	-	28	-	28	55	-	-	1,000	2,091	-	-	2,091
PELVIC REGION.....	-	-	61	-	61	81	-	-	-	810	-	-	810
SHOULDER(S).....	-	-	27	-	27	35	-	-	1,800	2,448	-	-	2,448
TRUNK, NEC.....	-	-	7	-	7	16	-	-	-	68	-	-	68
THIGH.....	-	-	100	-	100	135	-	-	-	2,234	-	-	2,234
KNEE.....	-	-	18	-	18	26	-	-	3,000	3,523	-	-	3,523
LOWER LEG.....	-	-	85	-	85	98	-	-	-	1,707	-	-	1,707
ANKLE.....	-	-	70	-	70	95	-	-	-	1,195	-	-	1,195
FOOT.....	-	-	17	-	17	27	-	-	-	403	-	-	403
TOE(S).....	-	-	46	-	46	76	-	-	-	1,298	-	-	1,298
LOWER EXTREMITIES, NEC.....	-	-	13	-	13	25	-	-	-	269	-	-	269
BODY SYSTEMS.....	-	-	115	-	115	166	-	-	4,800	7,953	-	-	7,953
MULTIPLE PARTS OF BODY.....	-	-	1	-	1	2	-	12,000	-	6	-	-	6
UNCLASSIFIED.....	-	-	42	-	42	2,490	-	18,000	34,690	61,901	-	-	61,901
TOTAL OR AVERAGE.....	3	-	1,449	-	1,494	996	2,490	18,000	-	51,901	826	19	79,901
OFFICE:													
EYE.....	-	-	-	-	-	1	-	-	-	-	-	-	-
JAW.....	-	-	-	-	-	2	-	-	-	-	-	-	-
HEAD, NEC.....	-	-	-	-	-	1	-	-	-	-	-	-	-
ARIST.....	-	-	-	-	-	1	-	-	-	-	-	-	-
FINGER(S).....	-	-	-	-	-	1	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC.....	-	-	-	-	-	2	-	-	-	-	-	-	-
BACK.....	-	-	-	-	-	1	-	-	-	-	-	-	-
KNEE.....	-	-	-	-	-	1	-	-	-	-	-	-	-
FOOT.....	-	-	-	-	-	3	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC.....	-	-	-	-	-	15	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY.....	-	-	-	-	-	6	-	-	-	-	-	-	-
TOTAL OR AVERAGE.....	-	-	-	-	-	15	-	-	-	98	-	11	98

TABLE 7 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFIL			TOTAL FATAL AND NFIL	TOTAL INJURIES	NFIL	FATAL	PERMANENT		TOTAL FATAL AND NFIL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIL
		TOTAL	PARTIAL	TOTAL										
GRAND TOTAL OR AVERAGE:	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAR	-	1	2	94	2	15	13	-	-	1,800	18	1,800	9	24
EYE	-	-	53	94	2	254	160	-	-	-	2,232	-	3	3
JAW	-	-	5	5	5	9	9	-	-	-	15	-	3	22
MOUTH/TEETH/TONGUE	-	-	2	2	2	21	16	-	-	-	45	-	2	14
NOSE	-	-	1	1	1	9	7	-	-	-	2	-	14	8
SCALP	-	-	12	12	12	29	17	-	-	-	156	-	16	5
FACE, NEC	-	-	32	32	32	87	55	-	-	-	264	-	15	15
HEAD, NEC	-	-	22	22	22	35	13	-	-	-	356	-	14	14
NECK	-	-	3	3	3	5	3	-	-	-	16	-	16	8
UPPER ARM	-	-	21	21	21	34	13	-	-	-	308	-	15	15
ELBOW	-	-	16	16	16	33	17	-	-	-	253	-	14	14
FOREARM	-	-	30	30	30	61	31	-	-	-	406	-	17	17
WRIST	-	-	126	126	126	118	65	-	-	3,000	3,897	3,000	15	15
HAND	-	-	32	32	32	339	201	-	-	2,790	4,659	2,790	16	16
FINGER(S)	-	-	3	3	3	68	33	-	-	13,500	14,293	4,500	14	14
UPPER EXTREMITIES, NEC	-	-	1	1	1	18	5	-	-	-	268	-	25	25
ABDOMEN	-	-	1	1	1	458	19	-	-	3,000	7,631	3,000	21	21
BACK	-	-	40	40	40	80	20	6,000	-	-	10,631	3,000	21	21
CHEST	-	-	26	26	26	81	20	-	-	1,000	505	50	13	13
PELVIC REGION	-	-	61	61	61	81	35	-	-	-	2,091	-	39	39
SHOULDER(S)	-	-	25	27	27	16	6	-	-	-	810	-	13	13
TRUNK, NEC	-	-	7	7	7	16	9	-	-	1,800	2,048	1,800	10	10
THIGH	-	-	101	101	101	137	36	-	-	-	68	-	10	10
KNEE	-	-	18	19	19	26	7	-	-	-	2,239	-	22	22
LOWER LEG	-	-	85	85	85	86	25	-	-	3,000	2,523	3,000	18	18
ANKLE	-	-	71	71	71	36	13	-	-	-	1,707	-	29	29
FOOT	-	-	17	17	17	10	3	-	-	-	1,221	-	17	17
TOE(S)	-	-	46	46	46	27	12	-	-	-	403	-	24	24
LOWER EXTREMITIES, NEC	-	-	13	13	13	25	7	-	-	-	1,298	-	28	28
BODY SYSTEMS	-	-	118	120	120	169	47	12,000	-	4,800	7,976	2,400	21	21
MULTIPLE PARTS OF BODY	-	-	1	1	1	2	1	-	-	-	6	-	6	6
UNCLASSIFIED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE:	3	-	1,458	1,500	1,503	2,505	1,002	18,000	-	34,650	79,999	826	19	53

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

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	TEMPORARY	TOTAL NFDL											
SURFACE MINES:															
OPEN PIT:															
AMPUTATION/ENUCLEATION--	-	11	-	11	-	11	-	-	.04	.04	-	.04	-	52	52
ASPHYXIATION/DROWNING--	-	2	-	2	-	2	-	-	.01	.01	-	.01	-	(*)	(*)
BURN/SCALD (NOT CHEM.)--	-	22	-	22	29	51	-	-	.09	.09	.11	.20	-	1	1
CHEMICAL BURN--	-	4	-	4	7	11	-	-	.02	.02	.03	.04	-	(*)	(*)
CONCUSSION (CEREBRAL)--	-	2	-	2	-	2	-	-	.01	.01	-	.01	-	(*)	(*)
CONCUSSION OR BRUISE--	3	-	-	147	150	75	225	.01	.58	.59	.29	.88	70	5	75
CUT OR PUNCTURE--	-	123	-	123	303	426	-	-	.48	.48	1.19	1.67	-	5	5
DERMATITIS--	-	-	-	1	1	2	-	-	(*)	(*)	(*)	.01	-	(*)	(*)
DISLOCATION--	-	-	-	13	13	5	18	-	.05	.05	.02	.07	-	1	1
DUST IN EYE--	-	-	-	19	19	43	62	-	.07	.07	.17	.24	-	1	1
ELECTRIC SHOCK--	-	-	-	3	3	-	3	-	.01	.01	-	.01	-	(*)	(*)
ELECT. BURN (CONTACT)--	-	-	-	3	3	-	3	-	.01	.01	-	.01	-	(*)	(*)
FRACTURE--	-	-	-	140	140	54	194	-	.55	.55	.21	.76	-	20	20
HEAT/SUNSTROKE--	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	-	-
HERNIA (NOT DISC)--	-	15	-	15	15	9	24	-	.06	.06	-	.06	-	3	3
POISONING (SYSTEMIC)--	-	6	-	6	6	9	15	-	.02	.02	.04	.06	-	(*)	(*)
RADIATION/ULTRA VIOLET--	-	20	-	20	20	15	35	-	.08	.08	.14	.14	-	(*)	(*)
SCRATCH/ABRASION--	-	14	-	14	14	13	27	-	.05	.05	.05	.11	-	(*)	(*)
STRAIN/SPRAIN--	-	1	-	498	499	150	649	-	1.95	1.95	.59	2.54	-	45	45
MULTIPLE INJURIES--	-	3	-	109	112	47	159	-	.44	.44	.18	.62	-	37	37
OTHER INJURY, NEC--	-	1	-	21	21	14	35	-	.08	.08	.05	.14	-	9	9
UNCLASSIFIED (NO DATA)--	-	1	-	73	74	48	122	-	.29	.29	.19	.48	-	17	17
TOTAL OR AVERAGE-----	3	32	1.219	1.251	1.254	814	2,068	.01	4.90	4.91	3.19	8.09	70	198	268
DREDGE:															
AMPUTATION/ENUCLEATION--	-	5	-	5	5	7	15	-	.11	.11	-	.11	-	130	130
BURN/SCALD (NOT CHEM.)--	-	8	-	8	8	3	11	-	.17	.17	.15	.33	-	2	2
CHEMICAL BURN--	-	3	-	3	3	1	4	-	.07	.07	.02	.09	-	(*)	(*)
CONCUSSION (CEREBRAL)--	-	1	-	1	1	1	2	-	.02	.02	.02	.04	-	(*)	(*)
CONCUSSION OR BRUISE--	-	24	-	24	24	14	38	-	.52	.52	.31	.83	-	9	9
CUT OR PUNCTURE--	-	20	-	20	20	66	86	-	.42	.42	1.44	1.87	-	5	5
DERMATITIS--	-	-	-	-	-	1	1	-	-	-	.02	.02	-	(*)	(*)
DISLOCATION--	-	2	-	2	2	2	4	-	.04	.04	.04	.06	-	(*)	(*)
DUST IN EYE--	-	4	-	4	4	11	15	-	.09	.09	.24	.33	-	(*)	(*)
ELECTRIC SHOCK--	-	-	-	-	-	1	3	-	.02	.02	.02	.02	-	(*)	(*)
FRACTURE--	-	19	-	19	19	15	34	-	.41	.41	.33	.74	-	11	11
HERNIA (NOT DISC)--	-	5	-	5	5	2	7	-	.11	.11	.11	.11	-	5	5
POISONING (SYSTEMIC)--	-	1	-	1	1	2	3	-	.02	.02	.04	.07	-	(*)	(*)
RADIATION/ULTRA VIOLET--	-	4	-	4	4	3	7	-	.09	.09	.07	.15	-	(*)	(*)
SCRATCH/ABRASION--	-	2	-	2	2	1	3	-	.04	.04	.04	.07	-	1	1
STRAIN/SPRAIN--	-	96	-	96	96	40	136	-	2.09	2.09	.87	2.96	-	58	58
MULTIPLE INJURIES--	-	28	-	28	28	5	33	-	.61	.61	.11	.72	-	18	18
OTHER INJURY, NEC--	-	1	-	1	1	1	2	-	.02	.02	.02	.04	-	2	2
UNCLASSIFIED (NO DATA)--	-	-	-	-	-	12	28	-	.35	.35	.26	.61	-	7	7
TOTAL OR AVERAGE-----	-	10	230	240	240	182	422	-	5.23	5.23	3.97	9.19	-	249	249

TABLE 8 - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY TYPE, FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES						INCIDENCE RATES						SEVERITY MEASURES		
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NFI	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	
		PERMANENT	TEMPORARY	TOTAL NFDL											
															TOTAL
TOTAL OR AVERAGE, MINING	-	16	-	16	16	-	15	05	-	05	-	05	-	54	
AMPUTATION/ENUCLEATION	-	-	2	2	2	-	2	01	-	01	-	01	-	10	
ASPHYXIATION/DROWNING	-	-	30	30	30	-	66	10	-	10	-	10	-	1	
BURN/SCALD (NOT CHEM.)	-	-	7	7	7	-	15	02	-	02	-	02	-	10	
CHEMICAL BURN	-	-	3	3	3	-	4	01	-	01	-	01	-	10	
CONCUSSION (CEREBRAL)	-	-	171	174	174	-	263	57	-	58	-	30	-	65	
CONTUSION OR BRUISE	3	-	143	143	143	359	512	47	-	47	-	122	-	5	
CUT OR PUNCTURE	-	-	1	1	1	2	1	01	-	01	-	01	-	10	
DERMATITIS	-	-	15	15	15	7	22	05	-	05	-	02	-	07	
DISLOCATION	-	-	23	23	23	54	77	08	-	08	-	18	-	1	
DUST IN EYE	-	-	4	4	4	4	4	01	-	01	-	01	-	1	
ELECTRIC SHOCK	-	-	159	159	159	69	228	53	-	53	-	23	-	18	
ELECT. BURN (CONTACT)	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
FRACTURE	-	-	20	20	20	1	1	07	-	07	-	07	-	3	
HEAT/SUNSTROKE	-	-	7	7	7	11	18	02	-	02	-	04	-	10	
HERNIA (NOT DISC)	-	-	24	24	24	18	42	08	-	08	-	06	-	10	
POISONING (SYSTEMIC)	-	-	16	16	16	14	30	05	-	05	-	05	-	10	
RADIATION/ULTRA VIOLET	-	-	595	595	595	190	785	197	-	197	-	63	-	47	
SCRAATCH/ABRASION	-	-	137	140	140	52	192	46	-	46	-	17	-	34	
STRAIN/SPRAIN	-	-	21	22	22	15	37	07	-	07	-	04	-	8	
MULTIPLE INJURIES	-	-	89	90	90	60	150	30	-	30	-	20	-	15	
OTHER INJURY, NEC.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE	3	42	1,449	1,491	1,494	996	2,490	01	495	496	3,30	8,26	60	205	
OFFICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CONTUSION OR BRUISE	-	-	1	1	1	1	2	-	-	02	-	04	-	10	
CUT OR PUNCTURE	-	-	-	-	-	3	3	-	-	-	-	06	-	-	
DUST IN EYE	-	-	-	-	-	1	1	-	-	-	-	02	-	-	
FRACTURE	-	-	2	2	2	-	2	-	-	04	-	04	-	1	
STRAIN/SPRAIN	-	-	3	3	3	-	3	-	-	06	-	06	-	10	
MULTIPLE INJURIES	-	-	1	1	1	1	1	-	-	02	-	02	-	10	
UNCLASSIFIED (NO DATA)	-	-	2	2	2	1	3	-	-	04	-	02	-	1	
TOTAL OR AVERAGE	-	-	9	9	9	6	15	-	18	18	12	30	-	2	

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	TEMPORARY												
			TOTAL	PARTIAL											
GRAND TOTAL OR AVERAGE	-	16	-	16	16	-	16	-	05	05	-	05	-	55	55
AMPUTATION/ENUCLEATION	-	-	2	2	2	-	2	-	01	01	-	01	-	(*)	(*)
ASPHYXIATION/DROWNING	-	-	30	30	30	36	66	-	09	09	10	19	-	1	1
BURN/SCALD (NOT CHEM)	-	-	7	7	7	8	15	-	02	02	02	04	-	(*)	(*)
CHEMICAL BURN	-	-	3	3	3	1	4	-	01	01	(*)	01	-	(*)	(*)
CONCUSSION (PEREURAL)	-	-	172	172	175	90	265	01	49	50	26	75	51	5	56
CONCUSSION OR BRUISE	3	-	143	143	142	372	515	-	41	41	1,06	1	47	5	5
CUT OR PUNCTURE	-	-	1	1	1	2	3	-	(*)	(*)	01	01	-	(*)	(*)
DERMATITIS	-	-	15	15	15	7	22	-	04	04	02	06	-	1	1
DISLOCATION	-	-	23	23	23	55	78	-	07	07	16	23	-	1	1
DUST IN EYE	-	-	4	4	4	-	4	-	01	01	-	01	-	(*)	(*)
ELECTRIC SHOCK	-	-	3	3	3	-	3	-	01	01	-	01	-	(*)	(*)
ELECT. BURN (CONTACT)	-	-	161	161	161	69	230	-	46	46	20	55	-	16	16
FRACTURE	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	3	3
HEAT/SUNSTROKE	-	20	-	20	20	-	20	-	06	06	-	05	-	(*)	(*)
HERNIA (NOT DISC)	-	-	7	7	7	11	18	-	02	02	03	05	-	(*)	(*)
POISONING (SYSTEMIC)	-	-	24	24	24	18	42	-	07	07	05	12	-	(*)	(*)
RADIATION/ULTRA VIOLET	-	-	16	16	16	14	30	-	05	05	04	09	-	(*)	(*)
SCRATCH/ABRASION	-	-	597	598	598	190	788	-	170	170	54	24	40	40	40
STRAIN/SPRAIN	-	3	138	141	141	52	193	-	40	40	15	55	-	30	30
MULTIPLE INJURIES	-	-	21	22	22	15	37	-	06	06	04	11	-	7	7
OTHER INJURY, NEC	-	-	91	92	92	61	153	-	26	26	17	44	-	13	13
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	3	42	1,458	1,500	1,503	1,002	2,505	01	4,27	4,28	2,85	7,13	51	177	228

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY																																																			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL																																																
		PERMANENT	TEMPORARY						TOTAL	TOTAL FATAL AND NFDL																																																				
			TOTAL	PARTIAL																																																										
SURFACE MINES: OPEN PIT: AMPUTATION/ENGULFMENT-- ASPHYLATION/ORDNANCE-- BURN/SCALD (NOT CHEM.)-- CHEMICAL BURN-- CONCUSSION (CEREBRAL)-- CONCUSSION OR BRUISE-- CUT OR PUNCTURE-- DERMATITIS-- DISLOCATION-- DUST IN EYE-- ELECTRIC SHOCK-- ELECT. BURN (CONTACT)-- FRACTURE-- HEAT/SUNSTROKE-- HERNIA (NOT DISC)-- POISONING (SYSTEMIC)-- RADIATION/ULTRA VIOLET-- SCALD/ABRASION-- STRAIN/SPRAIN-- MULTIPLE INJURIES-- OTHER INJURY, NEC-- UNCLASSIFIED (NO DATA)-- TOTAL OR AVERAGE----	-	11	2	11	11	-	11	-	13,340	-	13,340	1,213	-	1,213	13,340	7	355	20	20	19,213	1,368	1	359	171	217	83	4,990	-	750	38	76	44	11,381	9,571	2,200	2,234	4,238	50,476	890	18	1,190	75	16	11	301	240	5	9	6	518	250	1	8	44	2,670	829	96	306	11,425	620	23	48
UNDERGROUND: OPEN PIT: AMPUTATION/ENGULFMENT-- BURN/SCALD (NOT CHEM.)-- CHEMICAL BURN-- CONCUSSION (CEREBRAL)-- CONCUSSION OR BRUISE-- CUT OR PUNCTURE-- DERMATITIS-- DISLOCATION-- DUST IN EYE-- ELECTRIC SHOCK-- ELECT. BURN (CONTACT)-- FRACTURE-- HEAT/SUNSTROKE-- HERNIA (NOT DISC)-- POISONING (SYSTEMIC)-- RADIATION/ULTRA VIOLET-- SCALD/ABRASION-- STRAIN/SPRAIN-- MULTIPLE INJURIES-- OTHER INJURY, NEC-- UNCLASSIFIED (NO DATA)-- TOTAL OR AVERAGE----	-	5	8	3	5	7	15	4	2	38	86	1	4	15	1	34	5	3	7	3	136	33	2	28	422	182	240	230	10	5,950	75	16	11	301	240	5	9	6	518	250	1	8	44	2,670	829	96	306	11,425	620	23	48											

TABLE 9. - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST HOURS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NFI	TOTAL INJURIES	FATAL	NFDL			PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL					TOTAL	PARTIAL	TOTAL			
TOTAL	TOTAL	TOTAL												
TOTAL OR AVERAGE, MINING:														
AMPUTATION/ENCELATION----	-	16	2	16	16	16	16	-	19,290	7	19,290	1,206	4	1,206
ASPHYXIATION/CHOKING----	-	2	30	30	2	2	2	-	-	-	-	-	14	14
BURN/SCALD (NOT CHEM.)----	-	7	7	7	7	36	36	-	-	-	-	-	5	5
CHEMICAL BURN----	-	3	3	3	3	8	8	-	-	-	-	-	10	10
CONCUSSION (CEREBRAL)----	3	171	143	174	174	89	263	18,000	1,604	1,604	19,604	-	9	113
CONTUSION OR BRUISE----	-	143	143	143	143	369	512	-	1,608	1,608	1,608	-	11	11
CUT OR PUNCTURE----	-	1	1	1	1	2	3	-	1	1	1	-	1	1
DERMATITIS----	-	15	23	15	15	7	22	-	364	364	364	-	24	24
DISLOCATION----	-	23	4	23	23	54	77	-	180	180	180	-	8	8
DUST IN EYE----	-	4	4	4	4	-	4	-	223	223	223	-	56	56
ELECTRIC SHOCK----	-	3	3	3	3	-	3	-	83	83	83	-	28	28
ELECT. BURN (CONTACT)----	-	159	159	159	159	69	228	-	5,508	5,508	5,508	-	35	35
FRACTURE----	-	20	7	20	20	1	1	-	1,000	1,000	1,000	50	6	50
HEAT/SUNSTROKE----	-	7	7	7	7	11	18	-	39	39	39	-	4	4
HERNIA (NOT DISC)----	-	24	24	24	24	18	42	-	84	84	84	-	6	6
POISONING (SYSTEMIC)----	-	16	16	16	16	14	30	-	88	88	88	-	6	6
RADIATION (X-RAY/VIOLET)----	-	594	594	594	594	190	785	-	11,051	11,051	14,051	3,000	19	24
SCALD/ABRASION----	-	3	140	140	140	52	192	-	3,800	3,800	10,400	2,200	28	74
STRAIN/SPRAIN----	-	1	21	22	22	15	37	-	1,800	1,800	2,330	1,800	25	106
MULTIPLE INJURIES----	-	1	89	90	90	60	150	-	3,000	3,000	4,544	3,000	17	50
OTHER INJURY, NEC.----	-	42	1,449	1,491	1,494	995	2,490	18,000	34,690	34,690	61,901	826	19	53
UNCLASSIFIED (NO DATA)----	3													
TOTAL OR AVERAGE														
OFFICE:														
CONTUSION OR BRUISE----	-	1	1	1	1	1	2	-	-	5	5	-	5	5
CUT OR PUNCTURE----	-	-	-	-	-	3	3	-	-	-	-	-	-	-
DUST IN EYE----	-	-	-	-	-	1	1	-	-	-	-	-	-	-
FRACTURE----	-	2	2	2	2	-	2	-	-	44	44	-	22	22
STRAIN/SPRAIN----	-	3	3	3	3	-	3	-	-	11	11	-	4	4
MULTIPLE INJURIES----	-	1	1	1	1	-	1	-	-	2	2	-	2	2
UNCLASSIFIED (NO DATA)----	-	2	2	2	2	1	3	-	-	36	36	-	18	18
TOTAL OR AVERAGE	-	9	9	9	9	6	15	-	-	98	98	-	11	11

TABLE 9. - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST HOURS					AVERAGE SEVERITY						
	FATAL	NFDL			TOTAL FATAL AND NFDL	NFI	TOTAL INJURIES	FATAL	NFDL			PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL			
		PERMANENT	TEMPORARY	TOTAL					PERMANENT	TEMPORARY	TOTAL						
															TOTAL	PARTIAL	
																	TOTAL
GRAND TOTAL OR AVERAGE	-	16	16	16	16	-	-	-	19,290	-	19,290	1,206	-	19,290	1,206	-	
AMPUTATION/ENUCLEATION	-	2	2	2	2	-	16	-	-	-	7	-	4	-	7	4	-
ASPHYXIATION/CHOKING	-	30	30	30	30	-	66	-	-	-	-	-	14	-	-	14	-
BURN/SCALD (HOT LIQ.)	-	7	7	7	7	-	15	-	-	-	-	-	5	-	-	5	-
CHEMICAL BURN	-	3	3	3	3	-	4	-	-	-	-	-	10	-	-	10	-
CONCUSSION (CEREBRAL)	-	172	172	172	172	-	265	-	-	-	-	-	9	-	-	9	-
CONCUSSION OR BRUISE	3	143	143	143	143	-	515	18,000	-	-	-	-	112	-	-	112	-
CUT OR PUNCTURE	-	1	1	1	1	-	3	-	-	-	-	-	11	-	-	11	-
DERMATITIS	-	15	15	15	15	-	22	-	-	-	-	-	1	-	-	1	-
DISLOCATION	-	23	23	23	23	-	78	-	-	-	-	-	24	-	-	24	-
DUST IN EYE	-	4	4	4	4	-	4	-	-	-	-	-	8	-	-	8	-
ELECTRIC SHOCK	-	3	3	3	3	-	3	-	-	-	-	-	56	-	-	56	-
ELECT. BURN (CONTACT)	-	161	161	161	161	-	230	-	-	-	-	-	28	-	-	28	-
FRACTURE	-	20	20	20	20	-	1	-	-	-	-	-	34	-	-	34	-
HEAT/SUNSTROKE	-	7	7	7	7	-	1	-	-	-	-	-	-	-	-	-	-
HEMIA (NOT DISC)	-	24	24	24	24	-	18	-	-	-	-	-	50	-	-	50	-
POISONING (SYSTEMIC)	-	16	16	16	16	-	30	-	-	-	-	-	6	-	-	6	-
RADIATION/ULTRA VIOLET	-	598	598	598	598	-	788	-	-	-	-	-	4	-	-	4	-
SCALD/ABRASION	-	136	136	136	136	-	193	-	-	-	-	-	6	-	-	6	-
STRAIN/SPRAIN	-	21	21	21	21	-	37	-	-	-	-	-	19	-	-	19	-
MULTIPLE INJURIES	-	1	1	1	1	-	153	-	-	-	-	-	26	-	-	26	-
OTHER INJURY, NEC	-	42	42	42	42	-	61	-	-	-	-	-	25	-	-	25	-
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	17	-
TOTAL OR AVERAGE	3	1,458	1,500	1,503	1,503	1,002	2,505	18,000	-	-	61,999	826	-	79,999	826	-	53

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1988

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFIDL			TOTAL FATAL AND NFIDL	NOL	TOTAL INJURIES	FATAL	NFIDL			TOTAL FATAL AND NFIDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIDL
		PERMANENT	TEMPO- RARY	TOTAL NFIDL					TOTAL	PARTIAL	TOTAL NFIDL				
EAR: BURN/SCALD (NOT CHEM.)----- CUT OR PUNCTURE----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - - -	- 1 1 2	- 1 1 2	- 1 1 2	6 4 3 13	6 5 4 15	- - - -	- - - -	- 13 5 18	- 13 5 18	- - - -	- 13 5 9	- - - -		
EYE: BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- DUST IN EYE----- RADIATION/ULTRA VIOLET----- SCALD/ABRASION----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - - - - - -	- 2 5 21 23 20 12 2 4 4 1 93	- 2 5 21 23 20 12 2 5 4 4 94	- 2 5 21 23 20 12 2 5 4 4 94	12 9 3 75 78 35 24 4 4 1 160	12 9 3 75 78 35 24 4 4 5 254	- - - - - - - - - - -	- - - - - - - - - - -	- 3 26 116 180 39 28 4 1,806 30 2,232	- 3 26 116 180 39 28 4 1,806 30 2,232	- - - - - - - 1,800 - 1,800	- 3 26 116 180 39 28 2 2 8 5	- - - - - - - - - -		
JAW: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- TOTAL OR AVERAGE-----	- - -	- - -	- - -	- - -	2 7 9	2 7 9	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
MOUTH/TEETH/TONGUE: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - - -	- 2 2 1 5	- 2 2 1 5	- 2 2 1 5	1 5 9 1 16	1 7 11 2 21	- - - - -	- - - - -	- 7 6 2 15	- 7 6 2 15	- 7 6 2 15	- - - -	- 4 3 3 3	- - - -	
NOSE: CUT OR PUNCTURE----- FRACTURE----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - - - -	- 2 - - 2	- 2 - - 2	- 2 - - 2	5 1 1 7 9	5 2 1 1 9	- - - - -	- - - - -	- 45 - - 45	- 45 - - 45	- 45 - - 45	- - - -	- 22 - - 22	- - - -	
SCALP: BURN/SCALD (NOT CHEM.)----- CUT OR PUNCTURE----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - -	- - 1 1	- - 1 1	- - 1 1	1 6 1 7	1 6 1 8	- - - -	- - - -	- - 2 2	- - 2 2	- - 2 2	- - - -	- - 2 2	- - 2 2	

TABLE 10 - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES						LOST HOURS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	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 NFDL					
FACE, NEC: BURN/SCALD (NOT CHEM.) CHEMICAL BURN CUT OR PUNCTURE FRACTURE MULTIPLE INJURIES TOTAL OR AVERAGE	- - - - - - -	- 5 2 5 12 -	- 5 2 5 12 -	5 5 2 5 12 17	5 5 10 9 29	- - - - - -	- - - - - -	- 112 14 40 166	- 112 14 40 166	112 14 40 166	- - - -	22 7 8 14	22 7 8 14		
HEAD, NEC: CONCUSSION (CEREBRAL) CONTUSION OR BRUISE CUT OR PUNCTURE FRACTURE RADIATION/ULTRA VIOLET SCRATCH/ABRASION MULTIPLE INJURIES OTHER INJURY, NEC UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	- - - - - - - - - -	- 3 3 15 1 - - 4 1 3 32	- 3 3 15 1 - - 4 1 3 32	3 3 15 1 - - 4 1 3 32	4 8 56 1 1 5 1 10 87	- - - - - - - - - -	- - - - - - - - - -	- 31 12 49 72 - - 45 5 50 264	- 31 12 49 72 - - 45 5 50 264	31 12 49 72 - - 45 5 50 264	- - - - - - - - - -	10 2 3 72 - - 11 5 17 8	10 2 3 72 - - 11 5 17 8		
NECK: CONTUSION OR BRUISE CUT OR PUNCTURE STRAIN/SPRAIN UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	- - - - -	- 3 1 15 3 22	- 3 1 15 3 22	3 3 1 15 3 22	3 3 2 26 3 35	- - - - -	- - - - -	- 19 3 190 144 356	- 19 3 190 144 356	19 3 190 144 356	- - - - -	6 3 13 48 16	6 3 13 48 16		
UPPER ARM: CONTUSION OR BRUISE CUT OR PUNCTURE SCRATCH/ABRASION STRAIN/SPRAIN TOTAL OR AVERAGE	- - - - -	- 1 1 1 3 -	- 1 1 1 3 -	1 1 1 3 3	1 1 1 2 5	- - - - -	- - - - -	- 14 - 1 16	- 14 - 1 16	14 - 1 16	- - 1 16	- - - -	14 - 1 5	14 - 1 5	
ELBOW: CONTUSION OR BRUISE CUT OR PUNCTURE FRACTURE STRAIN/SPRAIN MULTIPLE INJURIES UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	- - - - - - -	- 3 4 1 10 1 21	- 3 4 1 10 1 21	3 4 1 10 1 21	7 5 2 13 1 34	- - - - - -	- - - - - -	- 6 40 32 168 16 308	- 6 40 32 168 16 308	6 40 32 168 16 308	- - - - - -	2 10 32 17 16 15	2 10 32 17 16 15		

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES					TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL				PERMANENT PARTIAL		TEMPORARY	TOTAL FATAL AND NFDL	AVERAGE SEVERITY									
	FATAL	NFDL			TOTAL FATAL AND NFDL				NFI	TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL			TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL					
		TOTAL	PARTIAL	TOTAL																		PARTIAL	TOTAL	PARTIAL	TOTAL	PARTIAL
FOREARM																										
BURN/SCALD (NOT CHEM)																										
CONTUSION OR BRUISE																										
CUT OR PUNCTURE																										
DERMATITIS																										
FRACTURE																										
STRAIN/SPRAIN																										
MULTIPLE INJURIES																										
OTHER INJURY, NEC																										
TOTAL OR AVERAGE																										
Wrist																										
BURN/SCALD (NOT CHEM)																										
CONTUSION OR BRUISE																										
CUT OR PUNCTURE																										
FRACTURE																										
STRAIN/SPRAIN																										
MULTIPLE INJURIES																										
UNCLASSIFIED (NO DATA)																										
TOTAL OR AVERAGE																										
Hand																										
BURN/SCALD (NOT CHEM)																										
CHEMICAL BURN																										
CONTUSION OR BRUISE																										
CUT OR PUNCTURE																										
ELECTRIC BURN (ELECTRICITY)																										
FRACTURE																										
RADIATION (OTHER THAN X-RAY)																										
STRAIN/SPRAIN																										
MULTIPLE INJURIES																										
OTHER INJURY, NEC																										
UNCLASSIFIED (NO DATA)																										
TOTAL OR AVERAGE																										
Finger(s)																										
AMPUTATION/ENGLAVATION																										
BURN/SCALD (NOT CHEM)																										
CONTUSION OR BRUISE																										
CUT OR PUNCTURE																										
DISLOCATION																										
FRACTURE																										
STRAIN/SPRAIN																										
MULTIPLE INJURIES																										
OTHER INJURY, NEC																										
UNCLASSIFIED (NO DATA)																										
TOTAL OR AVERAGE																										

TABLE 10. - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES					TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	LOST HOURS				AVERAGE SEVERITY							
	FATAL	NFDL			TOTAL FATAL AND NFDL				NFI	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL			
		TOTAL	PERMANENT	PARTIAL							TOTAL	PERMANENT	PARTIAL					TOTAL FATAL AND NFDL		
UPPER EXTREMITIES, NEC: AMPUTATION/ENGULFMENT BURN/SCALD (NOT CHEM.) CONTUSION OR BRUISE CUT OR PUNCTURE FRACTURE RADIATION/ULTRA VIOLET STRAIN/SPRAIN MULTIPLE INJURIES OTHER INJURY, NEC UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	- - - - - - - - - - - -	3 - - - - - - - - - - 3	3 2 3 2 10 2 1 1 10 1 1 35	3 2 3 2 10 2 1 1 10 1 1 35	3 2 3 2 10 2 1 1 10 1 1 35	- - - - - - - - - - - -	3 2 3 2 10 2 1 1 10 1 1 35	- - - - - - - - - - - -	13,500 - - - - - - - - - - - 13,500	- - - - - - - - - - - -	7 9 29 358 10 17 340 26 2 799	7 9 29 358 10 17 340 26 2 799	13,500 - - - - - - - - - - - 13,500	4,500 - - - - - - - - - - - 4,500	- 4 3 14 36 5 17 34 26 2 25	4,500 - - - - - - - - - - - 4,500	4,500 - - - - - - - - - - - 4,500			
ABDOMEN: BURN/SCALD (NOT CHEM.) CONTUSION OR BRUISE CUT OR PUNCTURE STRAIN/SPRAIN OTHER INJURY, NEC TOTAL OR AVERAGE	- - - - - - -	- - - - - - -	1 3 8 1 1 13	1 3 8 1 1 13	1 3 8 1 1 13	- - - - - - -	1 3 8 1 1 13	- - - - - - -	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	- - - - - - -	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	19 39 161 49 268	
BACK: CHEMICAL BURN CONTUSION OR BRUISE CUT OR PUNCTURE DISLOCATION FRACTURE STRAIN/SPRAIN MULTIPLE INJURIES OTHER INJURY, NEC UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	- - - - - - - - - -	- - - - - - - - - -	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364	- 10 3 307 8 4 27 364
CHEST: CONTUSION OR BRUISE CUT OR PUNCTURE FRACTURE SCRATCH/ABRASION STRAIN/SPRAIN MULTIPLE INJURIES UNCLASSIFIED (NO DATA) TOTAL OR AVERAGE	1 - - - - - - 1	- - - - - - - -	15 1 15 4 1 3 40	15 1 15 4 1 3 40	15 1 15 4 1 3 40	15 1 15 4 1 3 40	5,000 - - - - - - 6,000	18 7 21 6 1 6 60	18 7 21 6 1 6 60	18 7 21 6 1 6 60	18 7 21 6 1 6 60	5,000 - - - - - - 6,000	134 1 273 31 14 52 505	134 1 273 31 14 52 505	134 1 273 31 14 52 505	5,000 - - - - - - 6,000	9 1 17 8 14 17 13	9 1 17 8 14 17 13	9 1 17 8 14 17 13	9 1 17 8 14 17 13

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFIDL			TOTAL FATAL AND NFIDL	TOTAL INJURIES	NFIDL	FATAL	PERMANENT		TOTAL FATAL AND NFIDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIDL
		TOTAL	PARTIAL	TOTAL NFIDL					TOTAL NFIDL					
PELVIC REGION:														
CONTUSION OR BRUISE	-	6	1	6	1	7	1	-	-	-	54	-	54	9
CUT OR PUNCTURE	-	5	5	5	5	2	1	-	-	-	14	-	14	14
FRACTURE	-	20	20	20	20	11	1	-	-	-	406	-	406	406
HERNIA (NOT DISC)	-	13	13	13	13	2	4	-	-	1,000	1,000	50	1,000	50
STRAIN/SPRAIN	-	1	1	1	1	1	1	-	-	-	518	-	518	518
MULTIPLE INJURIES	-	2	2	2	2	1	1	-	-	-	96	-	96	96
OTHER INJURY, NEC	-	-	-	-	-	1	-	-	-	-	3	-	3	3
UNCLASSIFIED (NO DATA)	-	-	-	-	-	2	-	-	-	-	-	-	-	2
TOTAL OR AVERAGE	-	20	48	48	48	55	7	-	-	1,000	2,091	50	2,091	44
SHOULDER(S):														
CONTUSION OR BRUISE	-	9	9	9	9	11	2	-	-	-	36	-	36	10
CUT OR PUNCTURE	-	1	1	1	1	2	1	-	-	-	2	-	2	2
DISLOCATION	-	10	10	10	10	13	3	-	-	-	227	-	227	23
FRACTURE	-	35	35	35	35	43	8	-	-	-	18	-	18	18
STRAIN/SPRAIN	-	2	2	2	2	7	5	-	-	-	364	-	364	10
MULTIPLE INJURIES	-	-	-	-	-	1	1	-	-	-	54	-	54	21
UNCLASSIFIED (NO DATA)	-	-	-	-	-	1	-	-	-	-	49	-	49	24
TOTAL OR AVERAGE	-	61	61	61	61	81	20	-	-	-	810	-	810	13
TRUNK, NEC:														
BURN/SCALD (NOT CHEM)	-	5	5	5	5	2	2	-	-	-	9	-	9	2
CONTUSION OR BRUISE	-	14	14	14	14	17	3	-	-	-	136	-	136	10
CUT OR PUNCTURE	-	7	7	7	7	8	1	-	-	1,800	1,800	1,300	1,800	269
STRAIN/SPRAIN	-	1	1	1	1	1	-	-	-	-	21	-	21	21
MULTIPLE INJURIES	-	-	-	-	-	1	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	-	-	35	8	-	-	1,800	2,048	1,800	2,048	75
TOTAL OR AVERAGE	-	26	27	27	27	35	8	-	-	-	-	-	-	-
THIGH:														
CONTUSION OR BRUISE	-	3	3	3	3	1	1	-	-	-	11	-	11	4
CUT OR PUNCTURE	-	2	2	2	2	2	8	-	-	-	38	-	38	19
STRAIN/SPRAIN	-	2	2	2	2	2	-	-	-	-	19	-	19	10
MULTIPLE INJURIES	-	7	7	7	7	16	9	-	-	-	58	-	58	10
TOTAL OR AVERAGE	-	15	15	15	15	19	4	-	-	-	111	-	111	15
KNEE:														
CONTUSION OR BRUISE	-	5	5	5	5	18	13	-	-	-	33	-	33	7
CUT OR PUNCTURE	-	1	1	1	1	1	1	-	-	-	34	-	34	34
DISLOCATION	-	2	2	2	2	2	-	-	-	-	40	-	40	40
FRACTURE	-	65	65	65	65	79	14	-	-	-	10	-	10	10
SCALD/ABRASION	-	4	4	4	4	5	1	-	-	-	1,789	-	1,789	28
STRAIN/SPRAIN	-	1	1	1	1	1	1	-	-	-	7	-	7	7
MULTIPLE INJURIES	-	7	7	7	7	11	4	-	-	-	19	-	19	19
OTHER INJURY, NEC	-	-	-	-	-	1	-	-	-	-	45	-	45	6
UNCLASSIFIED (NO DATA)	-	-	-	-	-	137	36	-	-	-	2,235	-	2,235	22
TOTAL OR AVERAGE	-	101	101	101	101	137	36	-	-	-	-	-	-	-

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	TOTAL						TOTAL NFDL						
			TEMPO- RARY	PARTIAL											
LOWER EXTREMITIES, NEC:															
BURN/SCALD (NOT CHEM.)	-	-	2	2	2	1	3	-	-	-	118	118	-	59	59
CHEMICAL BURN	-	-	1	1	1	3	8	-	-	-	6	6	-	6	6
CONTUSION OR BRUISE	-	-	5	5	5	16	22	-	-	-	29	29	-	12	12
CUT OR PUNCTURE	-	-	6	6	6	1	13	-	-	-	70	70	-	63	63
FRACTURE	-	-	12	12	12	1	1	-	-	-	753	753	-	43	43
SCRAATCH/ABRASION	-	-	1	1	1	5	14	-	-	-	43	43	-	12	12
STRAIN/SPRAIN	-	-	9	9	9	1	10	-	-	-	109	109	-	19	19
MULTIPLE INJURIES	-	-	9	9	9	2	2	-	-	-	167	167	-	3	3
OTHER INJURY, NEC	-	-	1	1	1	2	3	-	-	-	3	3	-	28	28
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	46	46	46	31	77	-	-	-	1,298	1,298	-	-	-
BODY SYSTEMS:															
ASPHYXIATION/DROWNING	-	-	2	2	2	-	2	-	-	-	7	7	-	4	4
ELECTRIC SHOCK	-	-	4	4	4	-	4	-	-	-	223	223	-	56	56
HEAT/SUNSTROKE	-	-	-	-	-	11	18	-	-	-	39	39	-	5	5
POISONING (SYSTEMIC)	-	-	7	7	7	-	-	-	-	-	269	269	-	21	21
TOTAL OR AVERAGE	-	-	13	13	13	12	25	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY:															
BURN/SCALD (NOT CHEM.)	-	-	5	5	5	3	8	-	-	-	50	50	-	10	10
CONTUSION OR BRUISE	2	-	9	11	11	4	18	12,000	-	-	112	12,132	-	12	1,101
CUT OR PUNCTURE	-	-	2	2	2	1	2	-	-	-	15	1	-	3	8
DERMATITIS	-	-	1	1	1	2	2	-	-	-	1	1	-	1	1
DISLOCATION	-	-	2	2	2	-	2	-	-	-	79	79	-	40	40
ELECT. BURN (CONTACT)	-	-	7	7	7	1	8	-	-	-	552	552	-	79	79
FRACTURE	-	-	1	1	1	-	1	-	-	-	33	33	-	33	33
RADIATION/ULTRA VIOLET	-	-	1	1	1	-	-	-	-	-	6	6	-	6	6
SCRAATCH/ABRASION	-	-	22	22	22	11	33	-	-	-	449	449	-	20	20
STRAIN/SPRAIN	-	-	52	54	54	11	65	-	-	-	1,518	6,318	2,400	29	117
MULTIPLE INJURIES	-	-	2	2	2	5	3	-	-	-	74	74	-	37	37
OTHER INJURY, NEC	-	-	14	14	14	6	20	-	-	-	287	287	-	20	20
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	2	-	118	120	122	47	169	12,000	-	-	4,800	7,976	2,400	27	164
UNCLASSIFIED:															
UNCLASSIFIED (NO DATA)	-	-	1	1	1	1	2	-	-	-	6	6	-	6	6
TOTAL OR AVERAGE	-	-	1	1	1	1	2	-	-	-	6	6	-	6	6

TABLE 10 - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

PART OF BODY INJURED AND NATURE OF INJURY	NUMBER OF INJURIES					LOST HOURS					AVERAGE SEVERITY			
	FATAL	NFIL			TOTAL FATAL AND NFIL	NFIL	TOTAL INJURIES	FATAL	PERMANENT		TOTAL FATAL AND NFIL	PERMA-NENT PARTIAL	TEMPO-RARY	TOTAL FATAL AND NFIL
		TOTAL	PARTIAL	TOTAL										
									TOTAL	PARTIAL				
TOTAL OR AVERAGE	-	16	-	16	16	16	-	-	19,290	-	1,206	-	1,206	1,206
AMPUTATION/ENUCLEATION	-	2	-	2	2	2	-	-	-	-	-	-	-	4
ASPHYXIATION/CHOKING	-	30	-	30	30	30	-	-	-	-	-	-	-	14
BURN/SCALD (HOT LIQ.)	-	7	-	7	7	7	-	-	-	-	-	-	-	5
CHEMICAL BURN	-	3	-	3	3	3	-	-	-	-	-	-	-	10
CONCUSSION (CEREBRAL)	-	172	-	172	172	172	-	-	-	-	-	-	-	9
CONTUSION OR BRUISE	3	143	-	143	143	143	18,000	-	-	-	-	-	-	11
CUT OR PUNCTURE	-	1	-	1	1	1	-	-	-	-	-	-	-	1
DERMATITIS	-	15	-	15	15	15	-	-	-	-	-	-	-	24
DISLOCATION	-	23	-	23	23	23	-	-	-	-	-	-	-	8
DUST IN EYE	-	4	-	4	4	4	-	-	-	-	-	-	-	56
ELECTRIC SHOCK	-	3	-	3	3	3	-	-	-	-	-	-	-	28
ELECT. BURN (CONTACT)	-	161	-	161	161	161	-	-	-	-	-	-	-	34
FRACTURE	-	-	-	-	-	-	-	-	-	-	-	-	-	50
HEAT/SUNSTROKE	-	20	-	20	20	20	-	-	1,000	-	50	-	-	6
HERNIA (NOT DISC)	-	7	-	7	7	7	-	-	-	-	-	-	-	4
POISONING (SYSTEMIC)	-	24	-	24	24	24	-	-	-	-	-	-	-	6
RADIATION/ULTRA VIOLET	-	16	-	16	16	16	-	-	-	-	-	-	-	6
SCALD/ABRASION	-	597	-	598	598	598	-	-	-	-	-	-	-	19
SCRATCH/SPRAIN	-	136	-	141	141	141	-	-	3,000	-	3,000	-	-	24
MULTIPLE INJURIES	-	21	-	22	22	22	-	-	6,800	-	2,200	-	-	74
OTHER INJURY, NEC.	-	91	-	92	92	92	-	-	1,800	-	1,800	-	-	106
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	3,000	-	3,000	-	-	50
TOTAL OR AVERAGE	3	42	-	1,456	1,503	1,002	18,000	-	34,550	-	826	-	19	53

TABLE 11 - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1985

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE, SUB. SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPOWERED TRAILER			
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL		
OPEN PIT																								
ALABAMA		1																						
ALASKA																								
ARIZONA		3																						
ARKANSAS																								
CALIFORNIA		3																						
COLORADO		2																						
CONNECTICUT		1																						
FLORIDA																								
GEORGIA																								
HAWAII																								
IDAHO																								
ILLINOIS																								
INDIANA																								
IDAHO																								
KANSAS																								
KENTUCKY																								
LOUISIANA																								
MAINE																								
MARYLAND																								
MASSACHUSETTS																								
MICHIGAN																								
MINNESOTA																								
MISSISSIPPI																								
MISSOURI																								
MONTANA																								
NEBRASKA																								
NEVADA																								
NEW HAMPSHIRE																								
NEW JERSEY																								
NEW MEXICO																								
NEW YORK																								
NORTH CAROLINA																								
NORTH DAKOTA																								
OHIO																								
OKLAHOMA																								
OREGON																								
PENNSYLVANIA																								
PUERTO RICO																								
RHODE ISLAND																								
SOUTH CAROLINA																								
SOUTH DAKOTA																								
TENNESSEE																								
TEXAS																								
UTAH																								
VERMONT																								
VIRGINIA																								
WASHINGTON																								
WEST VIRGINIA																								
WISCONSIN																								
WYOMING																								
TOTAL	13	5	1		8	5			5	1	1					5	2	1	362	222	159	185	3	2

TABLE 11 - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL	FTL	NOL
OPEN PIT																						
ALABAMA	1				1						3	3	5	12							15	6
ALASKA		4									5	8	12	6							45	30
ARIZONA	7										3	3	8	16							23	14
ARKANSAS	5										47	47	83	37							364	255
CALIFORNIA	63	17											9	3							55	31
COLORADO	10	3	1										2	2							7	2
CONNECTICUT	3																				4	1
FLORIDA	1																				7	1
GEORGIA																						
HAWAII																						
IDaho	2										2	7	3	3							13	4
ILLINOIS	3												13	6							30	19
INDIANA	2																				28	10
IOWA																					13	2
KANSAS																						
KENTUCKY																					5	3
LOUISIANA																					7	2
MAINE																						
MARYLAND	7										5	1	1	1							20	5
MASSACHUSETTS	5										13	2	9	4							30	18
MICHIGAN	6												3	3							18	7
MINNESOTA	4																				3	2
MISSISSIPPI	1																				5	1
MISSOURI	1																				1	1
MONTANA	2																				8	2
MONTANA																					1	1
NEBRASKA																					2	2
NEVADA	7												14	8							37	24
NEW HAMPSHIRE	3												6	6							17	10
NEW JERSEY	1												10	1							19	4
NEW MEXICO	6												2	2							23	15
NEW YORK	5												1	1							9	27
NORTH CAROLINA	1												2	4							10	19
NORTH DAKOTA	5												14	1							31	27
OHIO													3	2							8	31
OKLAHOMA													1	1							4	4
OREGON																					11	11
PENNSYLVANIA																					2	2
PUERTO RICO																					1	1
RHODE ISLAND																					1	4
SOUTH CAROLINA																					3	10
SOUTH DAKOTA	2												2	2							10	11
TENNESSEE													2	4							76	51
TEXAS	11	4											2	4							20	12
UTAH	3																				3	1
VERMONT																					1	1
VIRGINIA																					16	12
WASHINGTON	2																				3	3
WEST VIRGINIA	5																				42	13
WISCONSIN	3																				2	10
WYOMING																					1	1
TOTAL	2	182		64		2					145	145	315	120		24	4	13	20	33	1,251	814

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE, RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONWEAVERED HULLAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
DEEDGE																						
ALABAMA																						
ARIZONA																						
ARKANSAS																						
CALIFORNIA																						
COLORADO																						
DELAWARE																						
FLORIDA																						
GEORGIA																						
ILLINOIS																						
INDIANA																						
IOWA																						
KANSAS																						
KENTUCKY																						
LOUISIANA																						
MICHIGAN																						
MISSISSIPPI																						
MISSOURI																						
NEBRASKA																						
NEW JERSEY																						
NEW YORK																						
NORTH CAROLINA																						
OHIO																						
OKLAHOMA																						
PENNSYLVANIA																						
SOUTH CAROLINA																						
TENNESSEE																						
TEXAS																						
WEST VIRGINIA																						
WISCONSIN																						
TOTAL		2				1										4		85	59	27	39	

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIP OR FALL OF PERSON		STEEPING 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
DEGREE																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	1	-	6	1	-	-	-	-	1	-	13	1
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CALIFORNIA	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE	-	-	-	-	-	-	-	-	-	-	2	-	8	1	-	-	-	-	-	-	22	2
FLORIDA	6	2	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-	-	6	4
GEORGIA	2	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	5	5
ILLINOIS	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2	2
INDIANA	1	-	-	-	-	-	-	-	-	-	1	4	4	1	-	-	-	-	-	-	6	6
IOWA	-	-	-	-	-	-	-	-	-	-	2	3	1	1	-	-	-	-	-	-	4	4
KANSAS	-	-	-	-	-	-	-	-	-	-	1	2	1	1	-	-	-	-	-	-	14	1
KENTUCKY	-	-	-	-	-	-	-	-	-	-	2	1	1	1	-	-	-	-	-	-	11	1
LOUISIANA	3	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
MICHIGAN	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
MISSOURI	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
NEBRASKA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
NEJ. JERSEY	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
NEW YORK	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
TENNESSEE	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
TEXAS	2	1	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
WISCONSIN	-	-	-	-	-	-	-	-	-	-	2	3	4	4	-	-	-	-	-	-	10	10
TOTAL	22	12	-	-	-	-	-	-	-	-	25	37	63	23	5	2	4	2	3	7	246	182

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSEL UNDER PRESSURE			EXPLOSIVE AND BREAKING AGENT			FALLING, ROLLING 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	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:																																	
ALABAMA																																	
ALASKA																																	
ARIZONA																																	
ARKANSAS																																	
CALIFORNIA			2																														
COLORADO			1																														
CONNECTICUT																																	
DELAWARE																																	
FLORIDA																																	
GEORGIA																																	
HAWAII																																	
IDAHO																																	
ILLINOIS																																	
INDIANA																																	
IOWA																																	
KANSAS																																	
KENTUCKY																																	
LOUISIANA																																	
MAINE																																	
MARYLAND																																	
MASSACHUSETTS																																	
MICHIGAN																																	
MINNESOTA			1																														
MISSISSIPPI																																	
MISSOURI																																	
MONTANA																																	
NEBRASKA																																	
NEVADA																																	
NEW HAMPSHIRE																																	
NEW JERSEY																																	
NEW MEXICO																																	
NEW YORK																																	
NORTH CAROLINA																																	
NORTH DAKOTA			1																														
OHIO																																	
OKLAHOMA																																	
OREGON																																	
PENNSYLVANIA																																	
PUERTO RICO			1																														
RHODE ISLAND																																	
SOUTH CAROLINA																																	
SOUTH DAKOTA																																	
TENNESSEE																																	
TEXAS																																	
UTAH			2																														
VERMONT			1																														
VIRGINIA																																	
WASHINGTON																																	
WEST VIRGINIA																																	
WISCONSIN																																	
WYOMING																																	
TOTAL	15	5	1				8	6					5	1								9	2	1	447	281	186	224		3		2	

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INMATION		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		1									4	4	11						1		28	11
ALASKA											5	5	12								46	30
ARIZONA		7									8	8	15								25	15
ARKANSAS		2									49	49	83						9		364	240
CALIFORNIA		18									5	5	9						1		55	31
COLORADO		3									1	1									7	2
CONNECTICUT																						
DELAWARE																						
FLORIDA		3									4	4	10								33	24
GEORGIA											1	1	6								13	13
HAWAII																						
IDaho		2									2	2	3								13	13
ILLINOIS		2									1	1	14								39	24
INDIANA		4									1	1	7								33	18
IOWA		3									1	1	4								17	16
KANSAS																					5	4
KENTUCKY											2	2	7								9	7
LOUISIANA											3	3	1								7	12
MAINE																					30	31
MARYLAND		1									5	5	1								25	18
MASSACHUSETTS		5									14	14	9								55	33
MICHIGAN		6									3	3	4								18	11
MINNESOTA											2	2	2								8	22
MISSISSIPPI		2									1	1	4								13	8
MISSOURI											1	1	1								39	17
MONTANA		1									1	1	1								23	22
NEBRASKA		2									1	1	1								15	10
NEVADA		1									1	1	1								8	34
NEW HAMPSHIRE		2									5	5	10								23	22
NEW JERSEY		2									3	3	1								15	19
NEW MEXICO		2									4	4	1								8	30
NEW YORK		6									6	6	15								34	10
NORTH CAROLINA		2									2	2	2								9	32
NORTH DAKOTA		4									1	1	1								8	20
OHIO											1	1	2								13	11
OKLAHOMA											1	1	1								9	13
OREGON		3									1	1	1								5	11
PENNSYLVANIA											1	1	1								4	14
PUERTO RICO											2	2	1								5	15
RHODE ISLAND											1	1	1								4	14
SOUTH CAROLINA											1	1	1								2	12
SOUTH DAKOTA		2									1	1	1								5	16
TENNESSEE		1									1	1	1								3	9
TEXAS		13									17	17	28								16	34
UTAH		3									4	4	2								9	42
VERMONT		1									1	1	1								1	13
VIRGINIA		2									1	1	1								5	12
WASHINGTON		5									1	1	1								3	16
WEST VIRGINIA		3									1	1	1								4	10
WISCONSIN											1	1	1								1	1
WYOMING											1	1	1								1	1
TOTAL	2	204	76	2	1	4			1		171	183	378	143	29	13	8	15	23	40	3	1,491

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OFFICE-----																						
ALABAMA-----																						
CALIFORNIA-----																						
COLORADO-----																						
FLORIDA-----																						
MASSACHUSETTS-----																						
MICHIGAN-----																						
MISSOURI-----																						
NEW YORK-----																						
NORTH CAROLINA-----																						
NORTH DAKOTA-----																						
TEXAS-----																						
TOTAL-----																						

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	FTL	NFDL	NOL
OFFICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1	-	-	-	-	-	-	-	-	-	9	6	-

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE, RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPROTECTED 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		1																					
ALASKA																							
ARIZONA		3																					
ARKANSAS																							
CALIFORNIA		2																					
COLORADO		1																					
CONNECTICUT																							
DELAWARE																							
FLORIDA																							
GEORGIA																							
HAWAII																							
IDAHO																							
ILLINOIS		1																					
INDIANA		1																					
IOWA																							
KANSAS																							
KENTUCKY																							
LOUISIANA																							
MAINE																							
MARYLAND																							
MASSACHUSETTS																							
MICHIGAN																							
MINNESOTA		1																					
MISSISSIPPI																							
MISSOURI																							
MONTANA																							
NEBRASKA																							
NEVADA																							
NEW HAMPSHIRE																							
NEW JERSEY																							
NEW MEXICO																							
NEW YORK																							
NORTH CAROLINA																							
NORTH DAKOTA		1																					
OHIO																							
OKLAHOMA																							
OREGON																							
PENNSYLVANIA																							
PUERTO RICO		1																					
RHODE ISLAND																							
SOUTH CAROLINA																							
SOUTH DAKOTA																							
TENNESSEE																							
TEXAS		2																					
UTAH		1																					
VERMONT																							
VIRGINIA																							
WASHINGTON																							
WEST VIRGINIA																							
WISCONSIN																							
WYOMING																							
TOTAL	15	5	1		8	7			5	1	1				9	2	1	449	282	186	227	3	2

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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:	2	205	76	2	1	4	-	-	-	-	171	183	384	144	29	13	8	15	23	40	3	1,500
ALABAMA	-	1	-	-	-	-	-	-	-	-	4	4	12	1	-	-	-	-	1	-	29	11
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARIZONA	-	7	4	-	-	-	-	-	-	-	5	8	12	6	-	-	-	-	-	-	46	30
ARKANSAS	-	5	2	-	-	-	-	-	-	-	3	3	6	1	-	-	-	-	-	-	25	15
CALIFORNIA	63	18	-	-	-	-	-	-	-	-	46	49	83	38	5	3	6	9	6	3	364	243
COLORADO	10	3	-	-	-	-	-	-	-	-	5	7	10	4	3	-	-	-	1	-	58	31
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	2
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	6	3	-	-	-	-	-	-	-	-	4	3	11	1	-	-	-	-	-	-	34	24
GEORGIA	3	-	-	-	-	-	-	-	-	-	1	1	6	-	-	-	-	-	-	-	13	3
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDaho	2	2	1	-	-	-	-	-	-	-	2	7	3	4	-	-	-	-	-	-	13	4
ILLINOIS	2	4	-	-	-	-	-	-	-	-	7	11	14	1	-	-	-	-	-	-	39	24
INDIANA	4	3	-	-	-	-	-	-	-	-	1	1	7	5	-	-	-	-	-	-	33	14
IOWA	-	-	-	-	-	-	-	-	-	-	1	3	4	1	-	-	-	-	-	-	17	18
KANSAS	-	-	-	-	-	-	-	-	-	-	1	5	4	1	-	-	-	-	-	-	19	16
KENTUCKY	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	5	4
LOUISIANA	-	-	-	-	-	-	-	-	-	-	2	3	1	1	-	-	-	-	-	-	9	7
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	5
MARYLAND	1	7	-	-	-	-	-	-	-	-	5	1	1	1	-	-	-	-	-	-	7	5
MASSACHUSETTS	-	5	-	-	-	-	-	-	-	-	-	-	7	1	-	-	-	-	-	-	30	12
MICHIGAN	-	3	-	-	-	-	-	-	-	-	14	15	9	1	-	-	-	-	-	-	26	3
MINNESOTA	-	4	-	-	-	-	-	-	-	-	2	3	4	3	-	-	-	-	-	-	56	31
MISSISSIPPI	1	1	-	-	-	-	-	-	-	-	3	3	4	4	-	-	-	-	-	-	18	11
MISSOURI	2	2	-	-	-	-	-	-	-	-	1	2	4	2	-	-	-	-	-	-	19	11
MONTANA	-	1	-	-	-	-	-	-	-	-	-	-	3	3	-	-	-	-	-	-	13	8
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	4	4	-	-	-	-	-	-	8	2
NEVADA	-	1	-	-	-	-	-	-	-	-	2	1	5	1	-	-	-	-	-	-	13	2
NEW HAMPSHIRE	-	3	-	-	-	-	-	-	-	-	1	1	8	1	-	-	-	-	-	-	22	24
NEW JERSEY	-	5	-	-	-	-	-	-	-	-	1	3	18	1	-	-	-	-	-	-	39	10
NEW MEXICO	-	6	-	-	-	-	-	-	-	-	5	6	16	1	-	-	-	-	-	-	62	24
NEW YORK	2	2	-	-	-	-	-	-	-	-	4	5	11	3	-	-	-	-	-	-	23	19
NORTH CAROLINA	6	2	-	-	-	-	-	-	-	-	3	4	3	2	-	-	-	-	-	-	16	9
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	2	3	3	3	-	-	-	-	-	-	23	22
OHIO	4	4	-	-	-	-	-	-	-	-	5	6	15	5	-	-	-	-	-	-	37	10
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	3	5	2	3	-	-	-	-	-	-	9	10
OREGON	-	-	-	-	-	-	-	-	-	-	1	1	5	4	-	-	-	-	-	-	13	11
PENNSYLVANIA	-	3	-	-	-	-	-	-	-	-	5	7	13	4	-	-	-	-	-	-	57	33
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4
REDE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	11
SOUTH DAKOTA	2	1	-	-	-	-	-	-	-	-	2	1	2	10	-	-	-	-	-	-	52	75
TENNESSEE	2	13	5	-	-	-	-	-	-	-	4	6	29	4	-	-	-	-	-	-	20	12
TEXAS	3	3	1	-	-	-	-	-	-	-	5	5	4	4	-	-	-	-	-	-	16	5
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	9	1	-	-	-	-	-	-	34	12
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	-	-	-	-	-	16	1
VIRGINIA	-	5	-	-	-	-	-	-	-	-	7	7	9	5	-	-	-	-	-	-	34	36
WASHINGTON	-	3	-	-	-	-	-	-	-	-	1	1	2	1	-	-	-	-	-	-	9	3
WEST VIRGINIA	-	3	-	-	-	-	-	-	-	-	6	3	11	3	-	-	-	-	-	-	42	16
WISCONSIN	-	2	-	-	-	-	-	-	-	-	3	1	4	1	-	-	-	-	-	-	13	10
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	2	205	76	2	1	4	-	-	-	-	171	183	384	144	29	13	8	15	23	40	3	1,500

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING 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
OPEN PIT:																						
ALABAMA		215																98		7		
ALASKA																		10				
ARIZONA		39				8				80								134				
ARKANSAS																		161				
CALIFORNIA		13				45												2,020				
COLORADO						1,800												141				
CONNECTICUT																		133				
FLORIDA																		6				
GEORGIA																		138				
IDAH0																		34				
ILLINOIS		1																72				
INDIANA		4				6												157				
IOWA																		65				
KENTUCKY																		2				
MAINE																		35				
MARYLAND						60				37								130				
MASSACHUSETTS				9														154				
MICHIGAN																		87				
MINNESOTA																		590				
MISSISSIPPI		5																107				
MISSOURI																		12				
MONTANA																		30				
NEBRASKA																		26				
NEVADA																		23				
NEW HAMPSHIRE											65							122				
NEW JERSEY																		140				
NEW MEXICO																		42				
NEW YORK						1												164				
NORTH CAROLINA																		88				
NORTH DAKOTA																		1,807				
OHIO																		42				
OKLAHOMA						65												164				
OREGON																		28				
PENNSYLVANIA																		51				
PUERTO RICO		47																214				
RHODE ISLAND																		21				
SOUTH CAROLINA																		13				
SOUTH DAKOTA																		34				
TENNESSEE						31												45				
TEXAS		32																436				
UTAH		14								1								42				
VERMONT																		1				
VIRGINIA										2								39				
WASHINGTON																		171				
WEST VIRGINIA																		11				
WISCONSIN																		246				
WYOMING																		76				
TOTAL		370		9		2,016				121		65				38	5,000	8,478		2,161		48

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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
OPEN PIT:																						
ALABAMA		1									19		87									427
ALASKA											26		186									10
ARIZONA		238																				1,031
ARKANSAS		129									3,654		237									588
CALIFORNIA		1,129											1,336									8,985
COLORADO		332									24		166									2,571
CONNECTICUT		106																				243
FLORIDA											3		42									51
GEORGIA		5									4		12									165
IDaho		4									42		124									209
ILLINOIS		13									271		163									585
INDIANA		31									51		423									740
IOWA		27									1,800		44									1,943
KENTUCKY											8		2									37
KYLINE		2											32									181
MARYLAND		66									48		38									482
MASSACHUSETTS		128									65		170									585
MICHIGAN		4,586									462		101									6,032
MINNESOTA	6,000										82		48									262
MISSISSIPPI	6,000										1		3,212									3,244
MISSOURI		4									1											35
MONTANA		145											46									28
NEBRASKA																						22
NEVADA		4,690									23		224									5,266
NEW HAMPSHIRE		10									52		142									354
NEW JERSEY		89									4		32									241
NEW MEXICO		3,096									23		47									3,337
NEW YORK		46									156		241									610
NORTH CAROLINA		80									1		22									1,973
NORTH DAKOTA											21		60									138
OHIO		56									401		248									914
OKLAHOMA											5		11									132
OREGON		44									24		77									165
PENNSYLVANIA											11		300									736
PUERTO RICO																						481
REDE ISLAND											10											11
SOUTH CAROLINA		19											39									23
SOUTH DAKOTA		103									50		55									92
TENNESSEE		143									39		865									287
TEXAS		6									106		17									1,683
UTAH		13											36									221
VERMONT		23									121		30									82
VIRGINIA		15									31		59									320
WASHINGTON		186																				483
WEST VIRGINIA																						51
WISCONSIN		3,054									24		408									3,855
WYOMING		202									77		57									429
TOTAL	12,000	18,819		104		109					7,740		9,753			368		30		227	18,000	50,476

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
DREDDGE																						
ALABAMA																						
ARIZONA																						
ARKANSAS																						
COLORADO																						
FLORIDA																						
GEORGIA																						
ILLINOIS																						
INDIANA																						
IOWA																						
KANSAS																						
LOUISIANA																						
MICHIGAN																						
MISSISSIPPI																						
MISSOURI																						
NEBRASKA																						
NEW JERSEY																						
NEW YORK																						
NORTH CAROLINA																						
OHIO																						
OKLAHOMA																						
PENNSYLVANIA																						
SOUTH CAROLINA																						
TENNESSEE																						
TEXAS																						
WEST VIRGINIA																						
TOTAL		12													52			1,754		553		

TABLE 12 - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL 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
DREDGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	5,101	-	-	-	-	-	-	-	-	1,514	-	1,815	-	44	-	455	-	125	-	11,425	-

TABLE 12 - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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		NONPROTECTED FELLAGE	
	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		215															149					
ALASKA																						
ARIZONA		39				8											286					
ARKANSAS																	234					
CALIFORNIA		13				45											2,000					
COLORADO						1,800											145					
CONNECTICUT																	133					
FLORIDA																	218					
GEORGIA																	138					
IDaho																	34					
ILLINOIS		1															195					
INDIANA		4				6											150					
IOWA																	74					
KANSAS																	145					
KENTUCKY																	26					
LOUISIANA		6															30					
MAINE																	130					
MARYLAND				9													154					
MASSACHUSETTS						60											130					
MICHIGAN																	154					
MINNESOTA																	137					
MISSISSIPPI		5															500					
MISSOURI																	107					
MONTANA																	21					
NEBRASKA																	262					
NEVADA																	25					
NEW HAMPSHIRE																	31					
NEW JERSEY																	122					
NEW MEXICO																	145					
NEW YORK						1											214					
NORTH CAROLINA																	168					
NORTH DAKOTA																	88					
OHIO																	1,871					
OKLAHOMA						65											42					
OREGON																	180					
PENNSYLVANIA																	84					
PUERTO RICO																	51					
RHODE ISLAND		47															308					
SOUTH CAROLINA																	21					
SOUTH DAKOTA																	11					
TENNESSEE						31											13					
TEXAS		38															34					
UTAH		14															59					
VERMONT																	751					
VIRGINIA																	42					
WASHINGTON																	1					
WEST VIRGINIA																	39					
WISCONSIN																	171					
WYOMING																	22					
TOTAL		382		5		2,015				121							5,000	10,222		2,734		48

TABLE 12 NUMBER OF LOST HOURS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1985 (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	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL	FTL	NFCL
TOTAL MINING																						
ALABAMA		1									37		225								644	10
ALASKA		238									26		186								1,048	10
ARIZONA		129									3,654		1,336								8,905	62
ARKANSAS		1,129									24		166				4				2,575	23
CALIFORNIA		330																			243	23
COLORADO		106																			174	17
CONNECTICUT		185									38		206								316	31
FLORIDA		93									42		124								205	20
GEORGIA		24									271		323								381	34
IDaho		32									1,800		429								734	74
ILLINOIS		5											215								2,004	22
INDIANA		2											2								52	5
IOWA																					37	3
KANSAS											5		23								106	10
KENTUCKY													38								482	45
LOUISIANA											48		170								523	52
MAINE		129									453		101								6,033	62
MARYLAND		4,556									82		48								262	26
MASSACHUSETTS											903		3,212								5,000	5,000
MICHIGAN	5,000																				4,195	40
MINNESOTA	5,000																				228	22
MISSISSIPPI		5									1		46								194	19
MISSOURI		145											50								206	20
MONTANA		53											224								304	30
NEBRASKA		4,650											142								3,337	31
NEVADA		10											180								615	61
NEW HAMPSHIRE		170											47								2,049	20
NEW JERSEY		3,065											241								5,852	58
NEW MEXICO		53											22								1,138	11
NEW YORK													60								2,049	20
NORTH CAROLINA													251								1,835	18
NORTH DAKOTA		4,556											14								5,000	5,000
OHIO											5		14								1,835	18
OKLAHOMA																					1,491	14
OREGON																					38	3
PENNSYLVANIA		44											300								2,441	24
PUERTO RICO																					221	22
RIODE ISLAND																					333	33
SOUTH CAROLINA		19																			104	10
SOUTH DAKOTA		103																			3,834	38
TENNESSEE		229											1,161								425	42
TEXAS																					18,000	18,000
UTAH		6																			51	5
VERMONT		23																			252	25
VIRGINIA		15																			412	41
WASHINGTON		186																			1,158	11
WEST VIRGINIA																					9,254	92
WISCONSIN		3,054																			11,558	115
WYOMING		202																			412	41
TOTAL	12,000	23,920		104		109					9,254						485				18,000	61,901

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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 RIGG WALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONCOVERED HILLFACE	
	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL	FTL	MTDL
OFFICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	-	-	-	-

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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
OFFICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	27
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	53
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
TOTAL	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	POWERED HULLAGE		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		1									37		228								646	
ALASKA																					10	
ARIZONA		238									26		185								1,048	
ARKANSAS		129											237								642	
CALIFORNIA		1,129									3,654		1,336								8,095	
COLORADO		332									24		1,171								2,364	
CONNECTICUT		106		55																	243	
DELAWARE		185									38		226								632	
FLORIDA		183									4		75								316	
GEORGIA		93									42		124								209	
IDaho		4									271		382								981	
ILLINOIS		24									51		429								754	
INDIANA		32									1,800		213								2,004	
IOWA		61									2		2								535	
KANSAS											8		2								37	
KENTUCKY											5		23								77	
LOUISIANA													32								199	
MAINE		2									48		58								482	
MARYLAND		166									63		179								604	
MASSACHUSETTS		128									463		101								6,059	
MICHIGAN		4,622									82		48								6,000	
MINNESOTA	6,000										903		3,212								6,000	
MISSISSIPPI	6,000										1		108								4,199	
MISSOURI		5											14								409	
MONTANA		145											46								228	
NEBRASKA		93									11		50								194	
NEVADA		4,690									23		224								5,206	
NEW HAMPSHIRE		10									52		142								354	
NEW JERSEY		170									111		180								884	
NEW MEXICO		3,056									23		47								3,337	
NEW YORK		51									156		268								642	
NORTH CAROLINA		83									24		22								2,101	
NORTH DAKOTA											21		52								140	
OHIO		4,556									401		231								5,855	
OKLAHOMA													14								265	
OREGON											5		77								165	
PENNSYLVANIA		44									291		648								1,835	
PUERTO RICO											11		300								461	
RHODE ISLAND																					38	
SOUTH CAROLINA		19									25		39								92	
SOUTH DAKOTA		103									66		55								317	
TENNESSEE		239									44		1,161								2,441	
TEXAS		6									106		17								2,271	
UTAH													36								82	
VERMONT		23									121		30								332	
VIRGINIA		15									31		59								453	
WASHINGTON		186									7		23								104	
WEST VIRGINIA											24		406								3,835	
WISCONSIN		3,054									77		57								429	
WYOMING		202																				
TOTAL	12,000	23,946		104		109					9,254		11,631			412		485		352	18,000	61,999

TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	MOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL					TOTAL FATAL AND NFDL	TOTAL FATAL AND NFDL					
											TOTAL				
SURFACE MINES:															
OPEN PIT:															
BELTWAY/ROOM OPR			17	18	18	7	25		50	231	281	50		14	16
BULLDOZER/MOBILE EQUIP.		3	71	74	74	52	126		1,950	1,277	3,227	650		18	44
CAR DUMP/GRIZZLY/SCREEN			1	1	1	1	2			60	60			60	60
CLEANUP/VENTILATION			1	1	1	1	2			33	33			33	33
DREDGE/CRANE/SHOVEL OPR		2	33	35	35	31	66		3,050	676	3,726	1,525		20	106
DREDGE/BARGE/BOAT			4	4	4	2	6			36	36			9	9
DREDGE/BARGE/BOAT			4	4	4	2	6			18	18			6	6
DREDGE/BARGE/BOAT			3	3	3	3	9			22	22			4	4
DREDGE/BARGE/BOAT			6	6	6	6	18			22	22			16	16
DREDGE/BARGE/BOAT			133	133	134	66	200	6,000		2,185	8,185				61
ELECTRICIAN	1						1					50			50
FRONT END LOADER							1					9,981			9,981
HAUL DUMP							1					3,000			3,000
HOLIST/CAGE/SKIP		1					1					50			50
LADDER		2	239	241	241	127	368		1,000	4,493	5,493	50		17	41
MECHANIC/MAINTENANCE		5	244	249	249	189	438		250	813	1,063	50		18	19
MINER			30	30	30	9	39			5	5			27	27
MINING MACH. OPR			1	1	1	1	1							5	5
PREP. PLANT OPR			157	164	164	97	261		980	2,504	3,484	140		16	21
RAIL TRAMP. AND HAUL			4	4	4	4	4			44	44			11	11
SUPERVISOR/FOREMAN	1		44	45	45	85	135	6,000	13,850	939	14,789	2,770		21	416
TECH. APPY./CLERICAL		2	17	19	19	43	62		110	338	448	55		24	24
TRUCK DRIVER		3	114	117	117	43	160		2,150	2,772	4,922	717		24	42
WELDER/MACHINIST			51	51	51	48	94	6,000		797	812			16	16
N.E.C. OR UNKNOWN	1		49	50	51		99								134
TOTAL OR AVERAGE	3	32	1,219	1,251	1,254	814	2,068	18,000	28,490	21,986	50,476	890		18	55
DREDGE:															
BELTWAY/ROOM OPR			1	1	1	1	2								25
BULLDOZER/MOBILE EQUIP.			9	9	9	6	15								14
DREDGE/CRANE/SHOVEL OPR			4	4	4	2	6								5
DREDGE/BARGE/BOAT		2	47	49	49	34	83		100	796	896	50		17	18
DREDGE/BARGE/BOAT			1	1	1	1	2								14
DREDGE/BARGE/BOAT			1	1	1	1	2								6
ELECTRICIAN			15	15	15	13	28								19
FRONT END LOADER															
HOLIST/CAGE/SKIP		1	40	41	41	32	73		50	946	996	50		24	24
LADDER		3	37	40	40	21	61		1,000	1,103	2,103	333		30	53
MECHANIC/MAINTENANCE			2	2	2	2	2								6
MINER			18	18	18	15	33		4,000	667	5,667	2,300		14	14
PREP. PLANT OPR		2	20	22	22	23	45								239
SUPERVISOR/FOREMAN			8	8	8	7	15								59
TECH. APPY./CLERICAL		2	6	8	8	8	11		450	470	520	225		19	71
TRUCK DRIVER			11	11	11	15	26								12
WELDER/MACHINIST			10	10	10	8	18								25
N.E.C. OR UNKNOWN															
TOTAL OR AVERAGE		10	230	240	240	182	422		6,300	5,225	11,425	620		23	48

TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE OF WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFIDL			TOTAL FATAL AND NFIDL	NOL	TOTAL INJURIES	FATAL	NFIDL			TOTAL FATAL AND NFIDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIDL
		PERMANENT	TEMPO- RARY	TOTAL					TOTAL	PARTIAL	TOTAL				
TOTAL OR AVERAGE MINING:															
BELTMAN/ROOM OPR	-	1	18	19	19	8	27	-	50	-	256	306	50	14	16
BULLDOZER/MOBILE EQUIP	-	3	80	83	83	58	141	-	1,950	-	1,399	3,349	650	17	40
CAR DUMP/GRITZLY/SCREEN	-	-	1	1	1	1	2	-	-	-	60	60	-	60	60
CLEANUP/VENTILATION	-	-	1	1	1	1	2	-	-	-	33	33	-	33	33
DAG/CRANE/SHOVEL OPR	-	2	37	39	39	33	72	-	3,050	-	695	3,745	1,525	19	96
DREDGE/BARGE/BOAT	-	2	51	53	53	34	87	-	100	-	832	932	50	16	18
DRIILL OPERATOR	-	-	4	4	4	2	6	-	-	-	32	32	-	8	8
ELECTRICIAN	-	-	7	7	7	4	11	-	-	-	28	28	-	4	4
FRONT END LOADER	1	-	148	148	149	79	228	6,000	-	-	2,470	8,470	-	17	57
HAUL DUMP	-	-	-	-	-	1	2	-	50	-	-	50	50	-	50
HOLIST/CAGE/SKIP	-	1	-	1	1	1	2	-	-	-	-	-	-	-	-
LABORER	-	3	279	282	282	159	441	-	6,050	-	4,927	10,977	2,017	18	39
MECHANIC/MAINTENANCE	-	8	281	283	289	210	499	-	1,250	-	5,586	6,846	156	20	24
MINER	-	-	32	32	32	9	41	-	-	-	824	824	-	26	26
MINING MACH OPR	-	1	1	1	1	1	1	-	-	-	5	5	-	5	5
PREP PLANT OPR	-	7	175	182	182	112	294	-	390	-	2,764	3,744	140	15	21
RAIL TRAMP AND HAUL	-	-	4	4	4	-	4	-	-	-	44	44	-	11	11
SUPERVISOR/FOREMAN	1	7	64	71	72	108	180	6,000	18,450	-	1,606	20,056	2,636	25	32
TECH /PROP /CLERICAL	-	2	26	27	27	12	39	-	110	-	808	918	55	32	34
TRUCK DRIVER	-	5	120	125	125	50	175	-	2,600	-	2,887	5,487	520	24	44
WELDER/MACHINIST	-	-	62	62	62	58	120	-	-	-	930	930	-	15	15
N.E.C. OR UNKNOWN	1	1	59	60	61	56	117	6,000	50	-	1,015	7,065	50	17	116
TOTAL OR AVERAGE	3	42	1,449	1,491	1,494	996	2,490	18,000	34,690	-	27,211	61,901	826	19	53
OFFICE:															
FRONT END LOADER	-	-	1	1	1	2	2	-	-	-	5	5	-	5	5
LABORER	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-
MECHANIC/MAINTENANCE	-	-	1	1	1	1	2	-	-	-	26	26	-	26	26
SUPERVISOR/FOREMAN	-	-	6	6	6	1	7	-	-	-	40	40	-	7	7
TECH /PROP /CLERICAL	-	-	1	1	1	1	1	-	-	-	27	27	-	27	27
WELDER/MACHINIST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.E.C. OR UNKNOWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	9	9	9	6	15	-	-	-	98	98	-	11	11

TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY
AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFIL			TOTAL FATAL AND NFIL	TOTAL INJURIES	FATAL	NFIL			TOTAL FATAL AND NFIL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIL	
		TOTAL	PARTIAL	TEMPO- RARY				PERMANENT	TOTAL	PARTIAL					
GRAND TOTAL OR AVERAGE	-	18	148	148	19	149	6,000	-	-	256	306	50	14	306	16
BELT/HAND/FOOT OR	-	3	-	-	3	-	-	-	-	1,389	3,349	650	17	3,349	40
BUILDING/MOBILE EQUIP	-	1	-	-	1	-	-	-	-	60	60	-	60	60	60
CAR DUMP/GRIZZLY/SCREEN	-	1	-	-	1	-	-	-	-	33	33	-	33	33	33
CLEANUP/VENTILATION	-	2	-	-	2	-	-	-	-	685	3,745	1,525	19	3,745	96
CRANE/CRANE/SHOVEL OR	-	2	-	-	2	-	-	-	-	832	932	50	16	932	18
DREDGE/RANGE/BOAT	-	7	-	-	7	-	-	-	-	32	32	-	8	32	8
DRIILL OPERATOR	-	7	-	-	7	-	-	-	-	28	28	-	4	28	4
ELECTRICIAN	-	148	-	-	148	-	-	6,000	-	2,470	8,470	-	17	8,470	57
FRONT END LOADER	1	-	-	-	-	-	-	-	-	-	50	50	-	50	50
HAUL DUMP	-	-	-	-	-	-	-	-	-	4,932	10,932	2,017	18	10,932	33
HOT/ICE/SKIP	-	3	-	-	3	-	-	-	-	6,050	6,846	156	20	6,846	24
LADDER	-	8	-	-	8	-	-	-	-	824	824	-	26	824	26
MECHANIC/MAINTENANCE	-	32	-	-	32	-	-	-	-	5	5	-	5	5	5
MINER	-	1	-	-	1	-	-	-	-	980	3,744	140	16	3,744	21
MINING MACH. OR	-	7	-	-	7	-	-	-	-	2,764	44	-	11	44	11
PREP PLANT OR	-	4	-	-	4	-	-	-	-	44	44	-	11	44	11
RAIL TRANSF AND HAUL	-	65	-	-	65	-	-	6,000	-	1,632	20,082	2,636	26	20,082	357
SUPERVISOR/FOREMAN	-	31	-	-	31	-	-	-	-	846	938	55	27	938	28
TECH /PROF /CLERICAL	1	2	-	-	2	-	-	-	-	2,887	5,487	520	24	5,487	44
TRUCK DRIVER	-	5	-	-	5	-	-	-	-	957	957	-	15	957	15
WELDER/MACHINIST	-	1	-	-	1	-	-	6,000	-	1,015	1,065	50	17	1,065	16
N.E.C. OR UNKNOWN	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	3	1,458	1,500	1,500	1,503	1,503	18,000	-	-	27,309	61,999	826	19	79,999	53

TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND AND NFDL	
		PERMANENT	TEMPO- RARY	TOTAL					TOTAL NFDL							
TOTAL	PARTIAL	TOTAL	PARTIAL	TOTAL												
SURFACE MINES:																
OPEN PIT:																
ELECTRICAL	-	13	13	13	5	16	-	-	-	370	9	-	28	9	28	9
ENTRAPMENT	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-
EXPLODING VESSEL	-	7	8	8	5	13	-	-	1,800	216	-	1,800	31	24	24	24
UNDER PRESSURE	-	5	5	5	1	6	-	-	-	121	-	-	-	-	-	-
FALLING, ROLLING, OR	-	1	1	1	-	1	-	-	-	65	-	-	-	-	-	-
SLIDING MATERIAL	-	5	5	5	2	7	-	-	-	38	-	-	-	-	-	-
FALL OF FACE, RIB, SIDE	-	1	1	1	-	1	-	-	-	55	-	-	-	-	-	-
OR HIGHWALL	-	5	5	5	2	7	-	-	-	38	-	-	-	-	-	-
FIRE	-	348	362	363	222	585	-	6,000	-	5,778	-	-	-	-	-	-
HANDLING MATERIAL	1	155	159	159	185	344	-	-	2,700	8,478	-	193	8	8	8	8
HAND TOOL	-	3	3	3	2	5	-	-	250	2,181	-	62	17	17	17	17
NONPOWERED HAULAGE	-	177	182	184	64	248	-	12,000	-	48	-	-	-	-	-	-
POWERED HAULAGE	2	2	2	2	-	2	-	-	15,060	3,759	-	3,012	16	16	16	16
HOISTING	-	2	2	2	-	2	-	-	-	104	-	-	-	-	-	-
IGNITION OR EXPLOSION	-	1	1	1	4	5	-	-	-	109	-	-	-	-	-	-
OF GAS OR DUST	-	1	1	1	1	1	-	-	-	109	-	-	-	-	-	-
INMATION	-	140	146	146	146	292	-	-	5,630	2,110	-	938	15	15	15	15
MACHINERY	-	2	313	315	120	435	-	-	3,050	6,703	-	1,525	21	21	21	21
SLIP OR FALL OF	-	24	24	24	11	35	-	-	-	368	-	-	-	-	-	-
STEPPING OR KNEELING	-	4	4	4	13	17	-	-	-	30	-	-	-	-	-	-
ON OBJECT	-	20	20	20	33	53	-	-	-	227	-	-	-	-	-	-
STRIKING OR BUMPING	-	32	1,219	1,251	814	2,088	-	18,000	-	21,986	-	890	18	18	18	18
OTHER INJURIES	3	-	-	-	-	-	-	-	-	50,476	-	88,476	6	6	6	6
TOTAL OR AVERAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DREDGE:																
ELECTRICAL	-	2	2	2	-	2	-	-	-	12	-	-	-	-	-	-
EXPLODING VESSEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNDER PRESSURE	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
FIRE	-	4	4	4	-	4	-	-	-	52	-	-	-	-	-	-
HANDLING MATERIAL	-	78	85	85	59	144	-	-	400	1,754	-	57	13	13	13	13
HAND TOOL	-	27	27	27	39	66	-	-	-	553	-	-	-	-	-	-
POWERED HAULAGE	-	21	22	22	12	34	-	-	4,500	5,101	-	4,500	20	20	20	20
MACHINERY	-	24	25	25	37	62	-	-	900	1,514	-	900	26	26	26	26
SLIP OR FALL OF	-	63	63	63	23	86	-	-	-	1,815	-	-	-	-	-	-
PERSON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEPPING OR KNEELING	-	5	5	5	2	7	-	-	400	44	-	400	9	9	9	9
ON OBJECT	-	3	3	3	7	10	-	-	-	455	-	-	-	-	-	-
STRIKING OR BUMPING	-	3	3	3	7	10	-	-	-	125	-	-	-	-	-	-
OTHER INJURIES	-	10	230	240	182	422	-	-	6,200	5,225	-	11,425	23	23	23	23
TOTAL OR AVERAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 14. - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION
AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES						LOST HOURS						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	
		TOTAL	PARTIAL	TEMPO- RARY					TOTAL NFDL	PERMANENT						TOTAL NFDL
										TOTAL	PARTIAL					
TOTAL OR AVERAGE, MINING:																
ELECTRICAL	-	15	-	15	15	5	20	-	-	-	382	382	-	25	25	
ENTRAPMENT	-	1	-	1	1	-	1	-	-	-	9	9	-	9	9	
EXPLODING VESSEL	-	7	-	7	8	6	14	-	-	1,800	2,016	2,016	1,800	31	252	
UNDER PRESSURE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FALLING, ROLLING, OR	-	5	-	5	5	1	6	-	-	-	121	121	-	24	24	
SLIDING MATERIAL	-	1	-	1	1	-	1	-	-	-	65	65	-	65	65	
FALL OF FACE, RIB, SIDE	-	9	-	9	9	2	11	-	-	-	90	90	-	10	10	
OR HIGHWALL	-	426	-	426	448	281	729	6,000	-	-	7,132	16,232	148	17	36	
FIRE	1	21	-	21	186	224	410	-	-	3,100	2,734	2,734	62	14	15	
HANDLING MATERIAL	-	4	-	4	3	2	5	-	-	250	48	48	-	16	16	
HAND TOOL	-	3	-	3	3	2	5	12,000	-	-	19,560	35,920	3,260	22	174	
NONPOWERED HAULAGE	-	6	-	6	204	76	282	-	-	-	104	104	-	52	52	
POWERED HAULAGE	2	-	-	-	2	-	2	-	-	-	-	-	-	-	-	
HOISTING	-	2	-	2	2	-	2	-	-	-	109	109	-	109	109	
IGNITION OR EXPLOSION	-	1	-	1	1	4	5	-	-	-	-	-	-	-	-	
OF GAS OR DUST	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
INUNDATION	-	-	-	-	-	183	354	-	-	6,530	2,724	9,254	933	17	54	
MACHINERY	-	7	-	7	171	143	521	-	-	3,050	8,518	11,568	1,525	23	31	
SLIP OR FALL OF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PERSON	-	2	-	2	378	143	521	-	-	-	-	-	-	-	-	
STEPPING OR KNEELING	-	29	-	29	29	13	42	-	-	-	412	412	-	14	14	
ON OBJECT	-	7	-	7	8	15	23	-	-	400	85	485	400	12	61	
STRIKING OR BUMPING	-	1	-	1	1	40	63	-	-	-	352	352	-	15	15	
OTHER INJURIES	-	23	-	23	23	40	63	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE	3	42	-	1,449	1,491	956	2,490	18,000	-	34,690	27,211	61,901	826	19	53	
OFFICE:																
EXPLODING VESSEL	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
UNDER PRESSURE	-	2	-	2	2	1	3	-	-	-	9	9	-	4	4	
HANDLING MATERIAL	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	
HAND TOOL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POWERED HAULAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SLIP OR FALL OF	-	-	-	-	-	1	7	-	-	-	63	63	-	10	10	
PERSON	-	-	-	-	-	6	15	-	-	-	98	98	-	11	11	
TOTAL OR AVERAGE	-	-	-	-	-	6	15	-	-	-	-	-	-	-	-	

TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL		
		TOTAL	PARTIAL	TEMPORARY				TOTAL NFDL								
									TOTAL	PARTIAL						
															TOTAL	PARTIAL
-	-	15	1	15	1	5	20	-	-	382	9	382	9	25		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	1	7	8	8	7	15	-	1,800	216	2,016	1,800	31	252	31	252
-	-	-	5	5	5	1	6	-	-	121	121	-	24	24	24	24
-	-	-	1	1	1	1	1	-	-	65	65	-	65	65	65	65
-	-	-	9	9	9	2	11	-	-	90	90	-	10	10	10	10
1	-	21	428	449	450	282	732	6,000	-	3,100	10,241	148	17	36	17	36
-	-	4	182	186	186	227	413	-	-	250	2,734	62	14	15	14	15
-	-	-	3	3	3	2	5	-	-	-	48	-	16	15	16	15
2	-	6	199	205	207	76	283	12,000	-	19,560	23,946	3,260	22	174	22	174
-	-	-	2	2	2	2	2	-	-	-	104	-	52	52	52	52
-	-	-	1	1	1	4	5	-	-	-	109	-	109	109	109	109
-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
-	-	7	164	171	171	183	354	-	-	6,530	9,254	933	17	54	17	54
-	-	2	382	384	384	144	528	-	-	3,050	11,631	1,525	22	30	22	30
-	-	-	29	29	29	13	42	-	-	-	412	-	14	14	14	14
-	-	1	7	8	8	15	23	-	-	400	485	400	12	61	12	61
-	-	-	23	23	23	40	63	-	-	-	352	-	15	15	15	15
3	-	42	1,458	1,500	1,503	1,002	2,505	18,000	-	34,690	61,999	826	19	53	19	53
GRAND TOTAL OR AVERAGE:																
ELECTRICAL																
ENTRAPPED																
EXPLODING VESSEL																
UNDER PRESSURE																
FALLING, ROLLING, OR																
SLIDING MATERIAL																
FALL OF FACE, RIB, SIDE																
OR HIGHWALL																
FIRE																
HANDLING MATERIAL																
HAND TOOL																
NONPOWERED HAULAGE																
POWERED HAULAGE																
HOISTING																
IGNITION OR EXPLOSION																
OF GAS OR DUST																
IMMERSION																
SLIP OR FALL OF																
PERSON																
STEPPING OR KNEELING																
ON OBJECT																
STRIKING OR RAMPING																
OTHER INJURIES																
TOTAL OR AVERAGE																

TABLE 15. -- NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NOL	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL	PARTIAL	TOTAL NFDL				
ELECTRICAL: EYE----- FACE, NEC----- HAND----- UPPER EXTREMITIES, NEC----- BODY SYSTEMS----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	2 2 2 2 4 5 15	- 2 2 2 4 5 15	2 2 2 2 4 5 15	2 2 2 2 4 5 20	- 2 2 2 4 5 15	- - - - - - -	- - - - - - -	- - - - - - -	13 6 10 223 130 382	- - - - - - -	6 3 3 56 26 25	6 3 3 56 26 25	
ENTRAPMENT: MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - -	- - -	1 1 1	- - 1	1 1 1	1 1 1	- - -	- - -	- - -	- - -	9 9 9	- - -	9 9 9	9 9 9	9 9 9
EXPLODING VESSEL UNDER PRESSURE: EAR----- EYE----- HEAD, NEC----- FOREARM----- HAND----- FINGER(S)----- PELVIC REGION----- TRUNK, NEC----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - - - - - - - -	- - - - - - - - - - -	- - - 1 1 1 1 1 2 4 8	- - - 1 1 1 1 1 2 4 8	- - - 1 1 1 1 1 2 4 8	2 2 2 1 1 1 1 2 4 15	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	- - - 8 - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - -
FALLING, ROLLING, OR SLIDING MATERIAL: EYE----- SCALP----- FINGER(S)----- FOOT----- LOWER EXTREMITIES, NEC----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	1 1 1 1 1 1 5	1 1 1 1 1 1 5	1 1 1 1 1 1 5	1 1 1 1 1 1 6	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	2 2 2 60 37 121	- - - - - - -	2 2 2 80 37 24	2 2 2 80 37 24
FALL OF FACE, RIB, SIDE OR HIGHWALL: MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - -	- - -	1 1 1	1 1 1	1 1 1	1 1 1	- - -	- - -	- - -	- - -	63 63 63	- - -	63 63 63	63 63 63	63 63 63

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES					TOTAL INJURIES	FATAL	NFIDL			TOTAL FATAL AND NFIDL	AVERAGE SEVERITY		
	FATAL	PERMANENT		TEMPO- RARY	TOTAL NFIDL			PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFIDL				
		TOTAL	PARTIAL											
												TOTAL	PARTIAL	
FIRE	-	-	-	-	-	3	-	-	-	44	-	-	15	
FACE, NEC	-	-	-	-	-	1	-	-	-	15	-	-	15	
HAND	-	-	-	-	-	1	-	-	-	9	-	-	9	
LOWER EXTREMITIES, NEC	-	-	-	-	-	2	-	-	-	7	-	-	4	
BODY SYSTEMS	-	-	-	-	-	2	-	-	-	15	-	-	8	
MULTIPLE PARTS OF BODY	-	-	-	-	-	9	-	-	-	90	-	-	10	
TOTAL OR AVERAGE	-	-	-	-	-	11	-	-	-	90	-	-	10	
HANDLING MATERIAL	-	-	-	-	-	35	-	-	-	65	-	-	4	
EYE	-	-	-	-	-	6	-	-	-	6	-	-	2	
JAW	-	-	-	-	-	1	-	-	-	-	-	-	-	
MOUTH/TEETH/TONGUE	-	-	-	-	-	2	-	-	-	9	-	-	4	
NOSE	-	-	-	-	-	5	-	-	-	21	-	-	3	
SCALP	-	-	-	-	-	17	-	-	-	110	-	-	22	
FACE, NEC	-	-	-	-	-	1	-	-	-	1	-	-	1	
HEAD, NEC	-	-	-	-	-	5	-	-	-	122	-	-	14	
NECK	-	-	-	-	-	12	-	-	-	75	-	-	8	
UPPER ARM	-	-	-	-	-	19	-	-	-	61	-	-	19	
ELBOW	-	-	-	-	-	4	-	-	-	329	-	-	10	
FOREARM	-	-	-	-	-	11	-	-	-	840	-	-	24	
WRIST	-	-	-	-	-	8	-	-	-	141	-	-	21	
HAND	-	-	-	-	-	17	-	-	-	62	-	-	19	
FINGER(S)	-	-	-	-	-	41	-	-	-	3,382	-	-	10	
UPPER EXTREMITIES, NEC	-	-	-	-	-	17	-	-	-	450	-	-	150	
ABDOMEN	-	-	-	-	-	3	-	-	-	141	-	-	24	
BACK	-	-	-	-	-	181	-	-	-	3,382	-	-	19	
CHEST	-	-	-	-	-	4	-	-	-	59	-	-	20	
PELVIC REGION	-	-	-	-	-	24	-	-	-	1,041	-	-	50	
SHOULDER(S)	-	-	-	-	-	16	-	-	-	250	-	-	16	
TRUNK, NEC	-	-	-	-	-	9	-	-	-	47	-	-	16	
THIGH	-	-	-	-	-	1	-	-	-	16	-	-	16	
KNEE	-	-	-	-	-	20	-	-	-	391	-	-	20	
LOWER LEG	-	-	-	-	-	6	-	-	-	135	-	-	16	
ANKLE	-	-	-	-	-	8	-	-	-	148	-	-	16	
FOOT	-	-	-	-	-	21	-	-	-	344	-	-	11	
TOE(S)	-	-	-	-	-	7	-	-	-	76	-	-	11	
LOWER EXTREMITIES, NEC	-	-	-	-	-	10	-	-	-	200	-	-	22	
BODY SYSTEMS	-	-	-	-	-	2	-	-	-	27	-	-	14	
MULTIPLE PARTS OF BODY	-	-	-	-	-	15	-	-	-	453	-	-	31	
TOTAL OR AVERAGE	1	-	-	-	-	21	-	-	-	1,800	-	-	180	
	-	-	-	-	-	282	-	-	-	7,141	-	-	17	

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NOL	FATAL	NFDL			PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		TOTAL	PARTIAL	TEMPO- RARY					TOTAL NFDL	TOTAL NFDL				
											TOTAL			
HAND TOOL:														
EAR	-	-	-	16	16	1	19	-	178	-	-	-	11	178
EYE	-	-	-	1	1	35	2	-	4	-	-	-	4	4
JAW	-	-	-	1	1	7	1	-	45	-	-	-	22	45
MOUTH/TEETH/TONGUE	-	-	-	1	1	3	1	-	15	-	-	-	5	15
NOSE	-	-	-	1	1	7	3	-	53	-	-	-	8	53
SCALP	-	-	-	1	1	25	7	-	12	-	-	-	4	12
FACE NEC	-	-	-	1	1	2	6	-	15	-	-	-	3	15
HEAD NEC	-	-	-	1	1	2	6	-	12	-	-	-	3	12
NECK	-	-	-	1	1	2	6	-	15	-	-	-	3	15
UPPER ARM	-	-	-	1	1	10	1	-	39	-	-	-	20	39
ELBOW	-	-	-	1	1	14	7	-	65	-	-	-	9	65
FOREARM	-	-	-	1	1	42	14	-	48	-	-	-	7	48
WRIST	-	-	-	1	1	103	34	-	800	-	-	75	14	800
HAND	-	-	-	1	1	3	6	-	14	-	-	-	5	14
FINGERS	-	-	-	1	1	3	6	-	85	-	-	-	17	85
UPPER EXTREMITIES NEC	-	-	-	1	1	3	6	-	362	-	-	-	14	362
ARM/SHOULDER	-	-	-	1	1	12	4	-	32	-	-	-	17	32
SHOULDER	-	-	-	1	1	3	6	-	105	-	-	50	14	105
BACK	-	-	-	1	1	13	5	-	36	-	-	-	9	36
NECK	-	-	-	1	1	11	4	-	36	-	-	-	4	36
PELVIC REGION	-	-	-	1	1	8	1	-	18	-	-	-	4	18
SHOULDER(S)	-	-	-	1	1	1	1	-	13	-	-	-	4	13
TRUNK NEC	-	-	-	1	1	1	1	-	1	-	-	-	1	1
THIGH	-	-	-	1	1	1	1	-	58	-	-	-	14	58
KNEE	-	-	-	1	1	7	3	-	225	-	-	-	38	225
LOWER LEG	-	-	-	1	1	3	6	-	104	-	-	-	45	104
ANKLE	-	-	-	1	1	3	6	-	200	-	-	-	16	200
FOOT	-	-	-	1	1	14	3	-	200	-	-	-	18	200
TOE(S)	-	-	-	1	1	413	227	-	2,734	-	22	-	14	2,734
LOWER EXTREMITIES NEC	-	-	-	1	1	15	5	-	15	-	-	-	15	15
BODY SYSTEMS	-	-	-	1	1	1	1	-	27	-	-	-	27	27
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	1	-	5	-	-	-	5	5
TOTAL OR AVERAGE	-	-	-	186	186	413	227	-	2,734	-	22	-	16	2,734
NONPOWERED HAULAGE:														
WRIST	-	-	-	1	1	1	1	-	15	-	-	-	15	15
BACK	-	-	-	1	1	1	1	-	27	-	-	-	27	27
KNEE	-	-	-	1	1	1	1	-	5	-	-	-	5	5
ANKLE	-	-	-	1	1	1	1	-	5	-	-	-	5	5
FOOT	-	-	-	1	1	1	1	-	48	-	-	-	16	48
TOTAL OR AVERAGE	-	-	-	5	5	5	2	-	48	-	-	-	16	48

TABLE 15 NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFI			TOTAL FATAL AND NFI	NFI	FATAL	NFI			TOTAL FATAL AND NFI	PERM- NENT PARTIAL	TEMP- RARY	TOTAL FATAL AND NFI	
		PERMANENT	TOTAL	PARTIAL				TOTAL	PARTIAL	TOTAL					
POWERED MACHINERY															
EAR															
EYE															
NOSE/TEETH/TONGUE															
SCALP															
FACE, NEC															
HEAD, NEC															
NECK															
UPPER ARM															
FOREARM															
ELBOW															
WRIST															
HAND															
FINGERS															
UPPER EXTREMITIES, NEC															
ABDOMEN															
BACK															
CHEST															
PELVIC REGION															
SHOULDER(S)															
TRUNK, NEC															
KNEE															
LOWER LEG															
ANKLE															
FOOT															
TOE(S)															
LOWER EXTREMITIES, NEC															
MULTIPLE PARTS OF BODY															
UNCLASSIFIED															
TOTAL OR AVERAGE	2	6	199	205	207	75	12,000	19,560	4,386	23,946	25,946	3,250	22	174	
HOISTING															
FINGER(S)															
LOWER LEG															
TOTAL OR AVERAGE															
IGNITION OR EXPLOSION															
OF GAS OR DUST															
FINGER(S)															
UPPER EXTREMITIES, NEC															
LOWER EXTREMITIES, NEC															
MULTIPLE PARTS OF BODY															
TOTAL OR AVERAGE															
INMUNITION															
THIGH															
TOTAL OR AVERAGE															

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

[illegible]

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFIDL			TOTAL FATAL AND NFIDL	TOTAL INJURIES	NFIDL	FATAL	NFIDL			PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFIDL
		TOTAL	PARTIAL	TEMPORARY					TOTAL NFIDL	PERMANENT TOTAL	PARTIAL			
SLIP OR FALL OF PERSON: EAR EYE NOSE MOUTH/TEETH/TONGUE FACE, NEC HEAD, NEC NECK ELBOW FOREARM WRIST HAND FINGER(S) UPPER EXTREMITIES, NEC ARM/ARMEN BACK CHEST PELVIC REGION SHOULDER(S) TRUNK, NEC THIGH KNEE LOWER LEG ANKLE FOOT TOE(S) LOWER EXTREMITIES, NEC MULTIPLE PARTS OF BODY TOTAL OR AVERAGE	- -													

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL			
		TOTAL	PERMANENT	TEMPORARY				TOTAL	PERMANENT	TEMPORARY					TOTAL	PERMANENT	TEMPORARY
STRIKING OR BUMPING:																	
EYE	-	-	-	-	-	2	2	-	-	-	-	-	-	-			
FACE	-	-	-	-	-	2	2	-	-	-	-	-	-	-			
HEAD	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
NECK	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
FINGER(S)	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
WRIST	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
HAND	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
ARM	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
LEG	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
FOOT	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
TOE(S)	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
LOWER EXTREMITIES	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
MULTIPLE PARTS OF BODY	-	-	-	-	-	2	2	-	-	-	-	-	-	-			
TOTAL OR AVERAGE	-	1	7	8	8	23	15	-	400	-	85	485	400	12	61		
OTHER INJURIES:																	
EYE	-	-	-	-	-	29	21	-	-	-	-	25	-	3	3		
FACE	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
NECK	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
WRIST	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
HAND	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
ARM	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
LEG	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
FOOT	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
TOE(S)	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
LOWER EXTREMITIES	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-		
BODY SYSTEMS	-	-	-	-	-	11	11	-	-	-	-	-	-	-	-		
MULTIPLE PARTS OF BODY	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-		
TOTAL OR AVERAGE	-	23	23	23	23	63	40	-	-	-	352	352	-	15	15		

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NFI	FATAL	NFDL		TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL NFDL					
TOTAL	PARTIAL							TOTAL	PARTIAL					
TOTAL OR AVERAGE:														
EAR	-	-	2	2	2	15	13	-	-	1,800	-	-	9	9
EYE	-	-	94	94	94	254	160	-	-	-	-	1,800	5	24
ARM	-	-	5	5	5	9	9	-	-	-	-	-	3	3
HEAD/TEETH/TONGUE	-	-	2	2	2	8	7	-	-	-	-	-	22	22
NOSE	-	-	1	1	1	8	7	-	-	-	-	-	2	2
SCALP	-	-	12	12	12	29	17	-	-	-	-	-	14	14
FACE, NEC	-	-	32	32	32	87	55	-	-	-	-	-	8	8
HEAD, NEC	-	-	22	22	22	13	13	-	-	-	-	-	16	16
NECK	-	-	3	3	3	5	2	-	-	-	-	-	5	5
UPPER ARM	-	-	21	21	21	34	13	-	-	-	-	-	15	15
ELBOW	-	-	16	16	16	33	17	-	-	-	-	-	16	16
FOREARM	-	-	30	30	30	61	31	-	-	-	-	-	15	15
WRIST	-	-	53	53	53	118	65	-	-	-	-	-	16	16
HAND	-	-	126	126	126	333	201	-	-	-	-	-	14	14
FINGER(S)	-	-	32	32	32	68	33	-	-	-	-	-	15	15
UPPER EXTREMITIES, NEC	-	-	13	13	13	18	5	-	-	-	-	-	25	25
ADDMEN	-	-	354	354	354	458	93	-	-	-	-	-	21	21
BACK	-	-	40	40	40	60	19	-	-	-	-	-	13	13
CHEST	-	-	28	28	28	55	7	-	-	-	-	-	39	39
PELVIC REGION	-	-	61	61	61	81	20	-	-	-	-	-	10	10
SHOULDER(S)	-	-	26	26	26	35	8	-	-	-	-	-	22	22
TRUNK, NEC	-	-	101	101	101	137	36	-	-	-	-	-	20	20
THIGH	-	-	85	85	85	98	13	-	-	-	-	-	17	17
KNEE	-	-	17	17	17	26	7	-	-	-	-	-	24	24
LOWER LEG	-	-	71	71	71	96	25	-	-	-	-	-	28	28
ANKLE	-	-	17	17	17	27	10	-	-	-	-	-	21	21
FOOT	-	-	46	46	46	56	13	-	-	-	-	-	154	154
TOE(S)	-	-	13	13	13	25	31	-	-	-	-	-	6	6
LOWER EXTREMITIES, NEC	-	-	118	118	118	138	47	-	-	-	-	-	19,999	19,999
BODY SYSTEMS	-	-	2	2	2	2	1	-	-	-	-	-	27	27
MULTIPLE PARTS OF BODY	-	-	1,458	1,458	1,458	2,505	1,002	-	-	-	-	-	5	5
UNCLASSIFIED	-	-	42	42	42	53	2	-	-	-	-	-	826	826
TOTAL OR AVERAGE:	3							18,000					19	53

TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

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	TOTAL NFDL					PERMANENT		TEMPO- RARY					TOTAL NFDL
									TOTAL	PARTIAL						
ELECTRICAL: BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONTUSION OR BRUISE----- CUT OR PUNCTURE----- ELECTRIC SHOCK----- ELECT. BURN (CONTACT)----- RADIATION/ULTRA VIOLET----- TOTAL OR AVERAGE-----	- - - - - - - -	- - - - - - - -	2 2 - - 4 3 4 15	2 2 - - 4 3 4 15	2 2 - - 4 3 4 15	- 1 1 1 - 2 - 5	3 3 1 1 4 3 6 20	- - - - - - - -	- - - - - - - -	18 13 - - 223 83 45 382	- - - - - - - -	9 6 - - 56 28 11 25	9 6 - - 56 28 11 25	9 6 - - 56 28 11 25		
ENTRAPMENT: OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - -	- - -	1 1 1	1 1 1	1 1 1	- - -	1 1 1	- - -	- - -	- - -	9 9 9	- - -	9 9 9	9 9 9	9 9 9	
EXPLODING VESSEL UNDER PRESSURE: BURN/SCALD (NOT CHEM.)----- CUT OR PUNCTURE----- DUST IN EYE----- FRACTURE----- SCRAATCH/ABRASION----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - - - - - - - -	- - - - - - - - -	1 - - - 2 1 3 7	1 - - - 2 1 4 8	1 - - - 2 1 4 8	1 2 1 - 1 2 7	2 2 1 2 1 5 15	- - - - - - - -	- - - - - - - -	8 - - - 110 6 1,892 2,016	- - - - - - - -	8 - - - 55 6 31 31	8 - - - 55 6 31 31	8 - - - 55 6 31 31		
FALLING, ROLLING, OR SLIDING MATERIAL: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	1 1 3 5	1 1 3 5	1 1 3 5	- 1 1 1	1 2 3 6	- - - -	- - - -	1 2 118 121	- - - -	1 2 39 24	1 2 39 24	1 2 39 24		
FALL OF FACE, RIB, SIDE OR HIGHWALL: FRACTURE----- TOTAL OR AVERAGE-----	- - -	- - -	1 - 1	1 - 1	1 - 1	- - -	1 1 1	- - -	- - -	65 65 65	- - -	65 65 65	65 65 65	65 65 65		
FIRE: ASPHYXIATION/CHOKING----- BURN/SCALD (NOT CHEM.)----- TOTAL OR AVERAGE-----	- - - -	- - - -	2 7 9	2 7 9	2 7 9	- 2 2	2 9 11	- - -	- - -	7 83 90	- - -	4 12 10	4 12 10	4 12 10		

TABLE 16 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL	TOTAL NFDL										
									TOTAL	PARTIAL					
HANDLING MATERIAL: AMPUTATION/ENGULFMENT----- BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONCUSSION (CEREBRAL)----- CONTUSION OR BRUISE----- CUT OR FRACTURE----- DERMATITIS----- DISLOCATION----- DUST IN EYE----- FRACTURE----- HEMIA (NOT DISC)----- POISONING (SYSTEMIC)----- SCALD/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - 1 - - - - - - - - - - - - - - 1	- 3 - - - - - - - 17 - - - - - - - - - - 21	2 2 4 1 45 33 - 6 6 30 2 4 251 18 8 18	3 2 4 1 46 33 - 6 6 30 17 2 4 251 19 8 18	3 2 4 1 46 33 - 6 6 30 17 2 4 251 19 8 18	3 6 6 1 78 132 2 8 18 46 17 2 6 324 35 12 36	- - - 6,000 - - - - - - - - - - - - - - - - - 6,000	450 - - - - - - - - 850 - 1,800 - 3,100	7 22 2 462 359 - 146 31 782 850 27 17 4,302 426 210 348 7,141	150 - - - - - - - - 50 - 1,800 - 148	4 6 2 10 11 - 24 5 26 14 4 17 17 24 26 19 17	150 7 22 2 6,462 359 - 146 31 782 850 27 17 4,302 426 210 348 10,241	150 4 6 2 10 11 - 24 5 26 14 4 17 17 24 26 19 36		
HAND TOOL: AMPUTATION/ENGULFMENT----- BURN/SCALD (NOT CHEM.)----- CHEMICAL BURN----- CONCUSSION OR BRUISE----- CUT OR FRACTURE----- DISLOCATION----- DUST IN EYE----- FRACTURE----- HEAT/SUNSTROKE----- HEMIA (NOT DISC)----- SCALD/ABRASION----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - - - - - - - - - - - - -	2 - - - - - - - 2 - - - - - - 4	2 - 1 33 34 2 6 22 - 2 1 49 22 2 10	2 - 1 33 34 2 6 22 - 2 1 49 22 2 10	2 - 1 33 34 2 6 22 - 2 1 49 22 2 10	2 1 1 49 153 2 8 45 1 2 6 79 30 5 1 14 413	- - - - - - - - - - - - - - - -	150 - - - - - - - 100 - - - - 250	- 1 234 284 35 109 338 - 2 665 628 130 58 2,484	75 - - - - - - - 50 - - - 62	- 1 7 8 18 18 15 - 2 14 29 65 6 14	150 1 234 284 35 109 338 - 2 665 628 130 58 2,734	75 - - - - - - 50 - - - - 62	- 1 7 8 18 18 15 - 2 14 29 65 6 15	
NONFACED HAULAGE: CONCUSSION OR BRUISE----- CUT OR FRACTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - - -	- - - - 3	- - 2 1 3	- - 2 1 3	- - 2 1 3	1 1 2 1 5	- - - - -	- - - - -	- - - - -	- - 43 5 48	- - - - -	- - 22 5 16	- - 43 5 48	- - 22 5 16	

TABLE 16 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY				
	FATAL	NFDL			TOTAL FATAL AND NFDL	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						
POWERED HAULAGE	-	5	-	5	5	-	-	-	16,560	-	16,560	3,312	-	3,312	
AMPUTATION/PUNCTURE	-	1	-	1	1	-	-	-	-	2	-	2	-	2	
BURN/SCALD (NOT CHEM.)	-	2	-	2	2	-	-	-	-	29	-	29	-	14	
CONCUSSION (CEREBRAL)	-	33	-	33	35	-	-	-	-	235	-	235	-	350	
CONCUSSION OR BRUISE	2	-	17	17	17	12,000	-	-	-	282	-	282	-	7	
CUT OR PUNCTURE	-	-	-	-	1	-	-	-	-	-	-	-	-	17	
DISLOCATION	-	-	-	-	2	-	-	-	-	10	-	10	-	5	
DUST IN EYE	-	-	2	2	2	-	-	-	-	1,436	-	1,436	-	46	
FRACTURE	-	-	31	31	33	-	-	-	-	45	-	45	-	15	
SCORCH/ABRASION	-	-	3	3	3	-	-	-	-	837	-	837	-	16	
STRAIN/SPRAIN	-	-	51	51	51	67	-	-	-	1,050	-	1,050	-	30	
MULTIPLE INJURIES	-	-	35	35	35	42	-	-	-	72	-	72	-	24	
OTHER INJURY, NEC.	-	-	3	3	3	4	-	-	-	388	-	388	-	18	
UNCLASSIFIED (NO DATA)	-	-	21	22	22	31	-	-	-	3,000	-	3,000	-	154	
TOTAL OR AVERAGE	2	6	199	205	207	283	12,000	19,560	4,386	23,946	35,946	3,260	22	174	
HOLSTING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CUT OR PUNCTURE	-	-	1	1	1	1	-	-	-	49	-	49	-	49	
MULTIPLE INJURIES	-	-	1	1	1	1	-	-	-	55	-	55	-	55	
TOTAL OR AVERAGE	-	-	2	2	2	2	-	-	-	104	-	104	-	52	
IGNITION OR EXPLOSION OF GAS OR DUST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BURN/SCALD (NOT CHEM.)	-	-	1	1	1	5	-	-	-	109	-	109	-	109	
TOTAL OR AVERAGE	-	-	1	1	1	5	-	-	-	109	-	109	-	109	
INUNDATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CUT OR PUNCTURE	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE	-	-	-	-	-	1	-	-	-	-	-	-	-	-	

TABLE 16 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY					
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL		
		TOTAL	PARTIAL	TEMPO- RARY				TOTAL NFDL								
									PERMANENT	TOTAL					PARTIAL	
MACHINERY																
IMPALATION/PUNCTURE		5		5	5	5		1,730			1,730	346	12	346	12	346
BURN/SCALD (NOT CHEM.)				15	15	37				184	184		8		8	
CHEMICAL BURN				13	13	4				100	100		12		12	
CONTUSION OR BRUISE				35	35	100				417	417					
CUT OR PUNCTURE				1	1	2										
DERMATITIS						2										
DISLOCATION				5	5	30				13	13		3		3	
DUST IN EYE				14	14	23				520	520		37		37	
FRACTURE				1	1	1				1	1		2		2	
POISONING (SYSTEMIC)				20	20	36				39	39		3		3	
RADIATION/ULTRA VIOLET				7	7	12				18	18		2		2	
SCALD/ABRASION				32	33	43				525	525		58		58	
STRAIN/SPRAIN		1		13	13	19				751	751	3,000	25	3,000	25	3,000
MULTIPLE INJURIES		1		3	3	6				1,807	1,807	1,800	17	1,800	17	1,800
OTHER INJURY, NEC		1		6	6	15				148	148		17		17	
UNCLASSIFIED (NO DATA)		7		171	171	354				2,724	2,724	9,254	30	9,254	30	9,254
TOTAL OR AVERAGE																
SLIP OR FALL OF PERSON																
BURN/SCALD (NOT CHEM.)				1	1	1				19	19		19		19	
CONCUSSION (GENERAL)				45	45	62				554	554		12		12	
CONTUSION OR BRUISE				15	15	47				166	166		11		11	
CUT OR PUNCTURE				7	7	9				183	183		26		26	
DISLOCATION						1							39		39	
DUST IN EYE				51	51	63				1,900	1,900		50		50	
FRACTURE				185	185	288				4,321	4,321	50	23	50	23	50
HEMIA (NOT DISC)				42	43	58				3,718	3,718	3,000	17	3,000	17	3,000
STRAIN/SPRAIN				3	3	5				96	96		32		32	
MULTIPLE INJURIES				33	33	42				544	544		16		16	
OTHER INJURY, NEC						528							22		22	
UNCLASSIFIED (NO DATA)				382	384	144				8,581	8,581	11,631	14	11,631	14	11,631
TOTAL OR AVERAGE		2		382	384	528										
STEPPING OR KNEELING ON OBJECT																
CUT OR PUNCTURE				2	2	9				6	6		3		3	
FRACTURE				5	5	5				80	80		16		16	
STRAIN/SPRAIN				22	22	28				326	326		15		15	
TOTAL OR AVERAGE				29	29	42				412	412		14		14	

TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES					LOST WORKDAYS					AVERAGE SEVERITY								
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NFI	TOTAL FATAL AND NFDL	FATAL	NFDL			TOTAL FATAL AND NFDL						
		PERMANENT	TEMPORARY	TOTAL						PERMANENT	TEMPORARY	TOTAL							
STRUCK OR BUMPING	-	1	-	-	1	1	-	400	-	-	-	-	400						
AMPUTATION/AVULSION	-	-	2	1	3	4	-	23	-	-	-	-	23						
CONTUSION OR BRUISE	-	-	1	1	2	11	-	8	-	-	-	-	8						
CUT OR PUNCTURE	-	-	1	1	2	1	-	4	-	-	-	-	4						
FRACTURE	-	-	1	1	2	1	-	45	-	-	-	-	45						
STRAIN/SPRAIN	-	-	1	1	2	1	-	5	-	-	-	-	5						
MULTIPLE INJURIES	-	-	1	1	2	1	-	-	-	-	-	-	-						
OTHER INJURY, NEC	-	-	1	1	2	1	-	-	-	-	-	-	-						
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-						
TOTAL OR AVERAGE	-	1	7	8	15	23	-	485	-	-	-	-	485						
OTHER INJURIES	-	-	-	-	-	-	-	-	-	-	-	-	-						
BURN/SCALD (NOT CHEM)	-	-	-	-	-	1	-	-	-	-	-	-	-						
CHEMICAL BURN	-	-	-	-	-	1	-	-	-	-	-	-	-						
CONTUSION OR BRUISE	-	-	4	4	8	9	-	35	-	-	-	-	35						
CUT OR PUNCTURE	-	-	4	4	8	16	-	17	-	-	-	-	17						
DUST IN EYE	-	-	2	2	4	3	-	123	-	-	-	-	123						
FRACTURE	-	-	4	4	8	15	-	11	-	-	-	-	11						
POISONING (SYSTEMIC)	-	-	4	4	8	2	-	39	-	-	-	-	39						
SCALD/ABRASION	-	-	4	4	8	2	-	32	-	-	-	-	32						
STRAIN/SPRAIN	-	-	1	1	2	3	-	1	-	-	-	-	1						
MULTIPLE INJURIES	-	-	3	3	6	4	-	94	-	-	-	-	94						
OTHER INJURY, NEC	-	-	-	-	-	-	-	-	-	-	-	-	-						
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	-	-	-	-	-	-	-						
TOTAL OR AVERAGE	-	23	23	23	40	63	-	352	-	-	-	-	352						
ASPHALTATION/PAVING	-	16	-	-	16	16	-	19,290	-	-	-	-	19,290						
ASPHALTATION/PAVING	-	-	2	2	4	2	-	7	-	-	-	-	7						
BURN/SCALD (NOT CHEM)	-	-	30	30	60	66	-	430	-	-	-	-	430						
CHEMICAL BURN	-	-	7	7	14	15	-	36	-	-	-	-	36						
CONTUSION (GENERAL)	-	-	3	3	6	4	-	31	-	-	-	-	31						
CONTUSION OR BRUISE	-	-	172	172	344	265	-	1,609	-	-	-	-	1,609						
CUT OR PUNCTURE	3	-	143	143	286	515	-	1,608	18,000	-	-	-	1,608						
DERMATITIS	-	-	143	143	286	372	-	1	-	-	-	-	1						
DISLOCATION	-	-	15	15	30	3	-	364	-	-	-	-	364						
DUST IN EYE	-	-	23	23	46	78	-	180	-	-	-	-	180						
ELECTRIC SHOCK	-	-	4	4	8	4	-	223	-	-	-	-	223						
ELECT. BURN (CONTACT)	-	-	3	3	6	3	-	83	-	-	-	-	83						
FRACTURE	-	-	161	161	322	230	-	5,552	-	-	-	-	5,552						
HEAT/SUNSTROKE	-	-	-	-	-	1	-	1,000	-	-	-	-	1,000						
HEAT (NOT DISC)	-	20	-	-	20	20	-	39	-	-	-	-	39						
POISONING (SYSTEMIC)	-	-	7	7	14	18	-	84	-	-	-	-	84						
RADIATION/ULTRA VIOLET	-	-	24	24	48	42	-	88	-	-	-	-	88						
SCALD/ABRASION	-	-	16	16	32	30	-	11,062	-	-	-	-	11,062						
STRAIN/SPRAIN	-	-	597	597	1,194	788	-	10,402	-	-	-	-	10,402						
MULTIPLE INJURIES	-	-	1	1	2	1	-	2,330	-	-	-	-	2,330						
OTHER INJURY, NEC	-	-	3	3	6	37	-	1,800	-	-	-	-	1,800						
UNCLASSIFIED (NO DATA)	-	-	1	1	2	153	-	3,000	-	-	-	-	3,000						
TOTAL OR AVERAGE	3	42	1,458	1,500	1,503	2,505	-	61,999	18,000	-	-	-	79,999						

TABLE 17 OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION 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 (NONTRAUMATIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
SURFACE MINES:								
STRIP								
SAND AND GRAVEL								
CALIFORNIA					1	4		5
COLORADO				1				1
MARYLAND						1		1
MICHIGAN						1		1
NORTH DAKOTA						2		2
OHIO								1
OREGON						2		2
SOUTH CAROLINA		1			1			2
TEXAS						1		1
VIRGINIA	1					1		2
WASHINGTON						1		1
WISCONSIN						1		1
WYOMING						1		1
TOTAL	1	1		1	5	12		20
SURFACE MINES								
DREDGE								
SAND AND GRAVEL								
PENNSYLVANIA						1		1
TOTAL						1		1
TOTAL SURFACE								
SAND AND GRAVEL								
CALIFORNIA					1	4		5
COLORADO								1
MARYLAND				1				1
MICHIGAN						1		1
NORTH DAKOTA								1
OHIO						2		2
OREGON						1		1
PENNSYLVANIA		1						1
SOUTH CAROLINA					1	2		3
TEXAS						1		1
VIRGINIA	1					1		2
WASHINGTON						1		1
WISCONSIN						1		1
WYOMING						1		1
TOTAL	1	1		1	5	13		21

TABLE 17 OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION 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 (NONTRAUMATIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
TOTAL MINING								
SAND AND GRAVEL								
CALIFORNIA					1	4		5
COLORADO				1				1
MARYLAND						1		1
MICHIGAN					1			1
NORTH DAKOTA						2		2
OHIO						1		1
OREGON						2		2
PENNSYLVANIA		1						1
SOUTH CAROLINA						2		3
TEXAS						1		1
VIRGINIA	1					1		1
WASHINGTON						1		1
WISCONSIN						1		1
WYOMING						1		1
TOTAL	1	1		1	5	13		21
TOTAL MINES AND PLANTS								
SAND AND GRAVEL								
CALIFORNIA					1	4		5
COLORADO					1			1
MARYLAND				1		1		1
MICHIGAN								1
NORTH DAKOTA						2		2
OHIO						1		1
OREGON						2		2
PENNSYLVANIA		1						1
SOUTH CAROLINA						2		3
TEXAS						1		1
VIRGINIA						1		1
WASHINGTON						1		1
WISCONSIN						1		1
WYOMING						1		1
TOTAL	1	1		1	5	13		21
GRAND TOTAL								
SAND AND GRAVEL								
CALIFORNIA					1	4		5
COLORADO								1
MARYLAND				1		1		1
MICHIGAN								1
NORTH DAKOTA						2		2
OHIO						1		1
OREGON						2		2
PENNSYLVANIA		1						1
SOUTH CAROLINA						2		3
TEXAS						1		1
VIRGINIA						1		1
WASHINGTON						1		1
WISCONSIN						1		1
WYOMING						1		1
TOTAL	1	1		1	5	13		21
TOTAL OR AVERAGE	1	1		1	5	13		21

TABLE 18 - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION. NUMBER OF INJURIES. INCIDENCE RATES. AVERAGE NUMBER OF EMPLOYEES, AND EMPLOYEE-HOURS BY MINERAL INDUSTRY AND WORK LOCATION, 1989 (OPERATOR DATA)

WORK LOCATION AND MINERAL INDUSTRY	FATAL	FATAL INCIDENCE RATE	NFOL	NFOL INCIDENCE RATE	NOL	NOL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF EMPLOYEES	EMPLOYEE HOURS REPORTED
UNDERGROUND MINES										
METAL	8	05	727	7.78	577	6.16	1,312	14.01	9,923	18,735,718
NONMETAL	2	04	220	4.90	211	4.70	433	9.65	4,417	8,972,895
STONE	-	-	136	7.05	73	3.28	209	10.83	2,019	3,860,371
TOTAL, UNDERGROUND MINES	10	06	1,083	6.86	861	5.45	1,954	12.98	16,359	31,568,924
SURFACE MINES										
METAL	1	01	695	4.22	544	3.30	1,240	7.53	16,404	32,946,617
NONMETAL	1	02	247	3.62	158	2.96	405	6.01	7,192	13,303,931
STONE	18	06	1,561	5.36	1,115	3.83	2,694	9.24	25,912	58,281,232
SUBTOTAL, SURFACE MINES	20	04	2,503	4.78	1,817	3.48	4,334	8.79	53,506	104,531,780
SAND AND GRAVEL	3	01	1,491	4.95	996	3.30	2,490	8.26	35,600	60,286,279
TOTAL, SURFACE MINES	23	03	3,988	4.84	2,813	3.41	6,824	8.28	89,108	154,820,059
TOTAL, MINES	33	03	5,071	5.16	3,674	3.74	8,778	8.94	105,467	196,388,783
MILLS										
METAL	2	01	892	4.41	903	4.46	1,797	8.86	20,460	40,484,259
NONMETAL	1	01	805	4.51	723	4.05	1,529	8.56	17,238	35,732,634
STONE	1	01	2,060	5.53	1,746	4.89	3,807	10.22	35,658	74,526,335
TOTAL, MILLS	4	01	3,757	4.98	3,372	4.47	7,133	9.46	73,356	150,745,228
INDEPENDENT SHOPS AND YARDS										
METAL	-	-	15	3.97	12	3.18	27	7.15	365	754,830
NONMETAL	-	-	-	-	11	22.02	1	22.02	5	6,083
STONE	-	-	6	2.48	1	4.55	17	7.04	239	483,244
TOTAL, SHOPS AND YARDS	-	-	21	3.37	24	3.85	45	7.22	599	1,247,157
ALL MINES, MILLS AND SHOPS										
METAL	11	02	2,329	5.01	2,036	4.38	4,376	9.42	47,152	92,921,424
NONMETAL	4	01	1,286	4.36	1,093	3.77	2,383	8.15	26,852	56,016,263
STONE	19	03	3,763	5.49	2,945	4.29	6,727	9.81	67,818	137,153,182
SUBTOTAL	34	02	7,358	5.11	6,074	4.22	13,486	9.35	143,822	288,092,869
SAND AND GRAVEL	3	01	1,491	4.95	996	3.30	2,490	8.26	35,600	60,286,279
TOTAL, MINES/MILLS/SHOPS	37	02	8,849	5.08	7,070	4.06	15,956	9.15	179,422	348,381,168
OFFICEWORKERS										
METAL	-	-	11	19	10	17	21	36	5,123	11,712,040
NONMETAL	-	-	4	09	9	21	3	30	4,678	8,713,428
STONE	-	-	13	12	15	14	28	27	10,963	21,974,826
SAND AND GRAVEL	-	-	9	18	6	12	15	30	7,145	9,952,315
TOTAL, OFFICEWORKERS	-	-	37	14	40	16	77	30	28,905	51,512,610
SUMMARY TOTAL (INCLUDES OFFICEWORKERS)										
METAL	11	02	2,340	4.47	2,045	3.91	4,397	8.40	53,275	104,633,464
NONMETAL	4	01	1,270	3.80	1,102	3.30	2,376	7.11	33,530	66,791,712
STONE	19	02	3,776	4.77	2,960	3.74	6,755	8.54	78,781	158,028,008
SUBTOTAL	34	02	7,386	4.48	6,108	3.71	13,528	8.21	165,586	328,553,184
SAND AND GRAVEL	3	01	1,500	4.27	1,002	2.85	2,506	7.13	42,745	70,240,594
GRAND TOTAL	37	02	8,885	4.44	7,110	3.56	16,033	8.02	208,331	399,853,778

TABLE 19 - RELATED COAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE
NUMBER OF EMPLOYEES, J. EMPLOYEE-HOURS AND PRODUCTION BY TYPE OF COAL MINED AND WORK LOCATION, 1989
(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:	42	07	8,457	13.12	2,123	3.29	10,522	16.48	67,981	128,914,189	386,951,135
SURFACE:	1	02	542	8.16	218	3.28	751	11.45	7,503	13,267,809	386,951,135
TOTAL, UNDERGROUND MINES:	43	06	8,999	12.66	2,341	3.29	11,383	16.01	75,484	142,201,998	773,882,448
SURFACE MINES:	14	03	1,596	3.59	1,009	2.27	2,619	5.69	43,903	88,888,072	3,704,348
STRIP MINES:	-	-	20	5.76	15	4.32	35	10.08	894,616	1,447,338	573,826,223
OTHER SURFACE MINES:	-	-	7	3.13	15	2.24	12	5.37	323	50,030,032	945,487
TOTAL, SURFACE MINES:	14	03	1,523	3.61	1,029	2.28	2,665	5.82	44,027	232,332,030	573,826,223
TOTAL, PRODUCTION MINING:	57	05	10,522	9.15	3,370	3.56	14,049	12.10	120,411	250,546,142	945,487
PREPARATION PLANTS:	4	03	786	3.35	364	2.48	1,154	7.85	14,791	29,508,192	945,487
INDEPENDENT SHOPS/YARDS:	-	-	48	6.31	32	3.54	80	8.86	1,008	1,806,527	3,704,348
TOTAL, OTHER OPERATIONS:	4	03	834	6.34	396	2.54	1,234	7.91	15,797	31,314,785	3,704,348
TOTAL, BITUMINOUS MINING:	51	05	11,456	8.70	3,766	2.95	15,283	11.60	135,608	263,446,735	945,487
PENNSYLVANIA, ANTHRACITE COAL:											
UNDERGROUND MINES:	-	-	23	9.93	8	2.7	28	12.64	330	442,918	486,533
SURFACE:	1	04	23	1.69	-	2.40	31	19.64	438	582,934	486,533
TOTAL, UNDERGROUND MINES:	-	-	23	9.93	8	2.7	28	12.64	330	442,918	486,533
SURFACE MINES:	-	-	52	6.60	24	4.85	76	12.97	724	1,720,247	3,704,348
STRIP MINES:	-	-	8	6.40	2	1.80	10	8.00	154	459,177	3,704,348
CULM BANK:	-	-	-	-	-	-	-	-	-	-	3,704,348
DREDGE:	-	-	-	-	-	-	-	-	-	-	3,704,348
TOTAL, SURFACE MINES:	-	-	60	6.40	26	3.64	86	13.04	888	2,179,424	3,704,348
TOTAL, PRODUCTION MINING:	1	10	83	9.33	34	3.30	117	13.64	1,218	2,622,342	3,704,348
PREPARATION PLANTS:	-	-	95	4.92	22	4.10	117	18.52	762	1,720,247	3,704,348
INDEPENDENT SHOPS/YARDS:	-	-	35	13.70	27	3.99	122	17.59	795	1,687,092	3,704,348
TOTAL, OTHER OPERATIONS:	-	-	35	13.70	27	3.99	122	17.59	795	1,687,092	3,704,348
TOTAL, ANTHRACITE MINING:	1	06	178	10.48	50	3.53	239	14.07	2,122	3,397,686	3,704,348
ALL COAL:											
UNDERGROUND MINES:	42	06	8,479	12.11	2,129	3.29	10,659	16.47	68,311	129,187,138	387,437,134
SURFACE:	44	06	9,022	12.64	2,346	3.29	11,414	15.69	75,522	142,844,902	387,437,134
TOTAL, UNDERGROUND MINES:	42	06	8,479	12.11	2,129	3.29	10,659	16.47	68,311	129,187,138	387,437,134
SURFACE MINES:	14	03	1,548	3.66	1,033	2.27	2,593	5.68	44,129	90,360,396	3,704,348
STRIP MINES:	-	-	20	5.76	15	4.32	35	10.08	894,616	1,447,338	573,826,223
OTHER SURFACE MINES:	-	-	7	3.13	15	2.24	12	5.37	323	50,030,032	945,487
CULM BANK:	-	-	15	6.44	8	1.80	23	13.04	266	659,155	3,704,348
DREDGE:	-	-	-	-	-	-	-	-	-	-	3,704,348
TOTAL, SURFACE MINES:	14	03	1,563	3.66	1,053	2.27	2,619	5.69	44,129	90,360,396	3,704,348
TOTAL, PRODUCTION MINING:	58	05	10,705	9.14	3,403	3.30	14,166	12.10	120,411	250,546,142	945,487
PREPARATION PLANTS:	4	03	861	3.35	391	2.48	1,256	7.85	14,791	29,508,192	3,704,348
INDEPENDENT SHOPS/YARDS:	-	-	48	6.31	32	3.54	80	8.86	1,008	1,806,527	3,704,348
TOTAL, OTHER OPERATIONS:	4	02	929	6.30	423	2.54	1,356	8.32	15,797	31,314,785	3,704,348
TOTAL, ALL COAL:	62	05	11,634	8.72	3,826	2.97	15,522	11.63	137,730	263,446,735	945,487
OFFICEMEN:											
BITUMINOUS:	-	-	25	3.6	10	2.3	41	6.5	7,562	13,267,809	386,951,135
ANTHRACITE:	-	-	25	3.6	10	2.3	41	6.5	7,562	13,267,809	386,951,135
TOTAL, OFFICEMEN:	-	-	25	3.6	10	2.3	41	6.5	7,562	13,267,809	386,951,135
GRAND TOTAL:	62	05	11,659	8.70	3,842	2.97	15,563	11.63	137,730	263,446,735	945,487

C O N T R A C T O R D A T A

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 six different tables, numbers 5, 7, 9, 12, 13, and 14. However, only one of these, table 9, provides a further division by nature of injury as well. The occupation of the injured is found in table 13 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.

REFERENCE GUIDE TO SAND AND GRAVEL 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		5		5	5					
		7		7	7					
		9		9	9					
		11						11		
				12				12		
		13		13	13					
		14		14	14					
									17	
		18	18			18	18			
		19	19			19	19			19
State		5		5	5					
		11						11		
				12				12		
Part of body injured									17	
		7		7	7					
		10		10	10					
Nature of injury		15		15	15					
		9		9	9					
		10		10	10					
Occupation at time of injury		16		16	16					
		13		13	13					
		14		14	14					
Accident classification		15		15	15					
		16		16	16					
									17	
Mineral-industry		18	18			18	18			
Type of coal		19	19			19	19			19

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 13 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 SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

	EXCLUDING OFFICEWORKERS					INCLUDING OFFICEWORKERS				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
NUMBER OF INJURIES:										
FATAL-----	1	-	2	1	1	1	-	2	1	1
MFOL-----	5	11	13	16	17	5	11	13	16	17
TOTAL LMD INJURIES-----	6	11	15	17	18	6	11	15	17	18
NOL-----	7	14	5	8	14	7	14	5	8	14
TOTAL INJURIES-----	13	25	20	25	32	13	25	20	25	32
AVERAGE SEVERITY:										
PERMANENT PARTIAL-----	-	-	175	-	-	-	-	175	-	-
TEMPORARY MFOL-----	63	46	177	63	23	63	46	177	63	23
ALL LMD INJURIES-----	1,052	46	836	413	355	1,052	46	836	413	355

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND STATE	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	TOTAL INJURIES	NOL	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL	PARTIAL	TEMPO- RARY					TOTAL NFDL
OPEN PIT:																
ALABAMA-----	-	-	2	2	2	2	-	-	-	-	45	45	-	22	22	22
CALIFORNIA-----	-	-	3	3	3	3	-	-	-	-	176	176	-	59	59	59
COLORADO-----	-	-	5	5	5	5	-	-	-	-	70	70	-	14	14	14
MISSISSIPPI-----	-	-	1	1	1	1	-	-	-	-	7	7	-	7	7	7
NEW MEXICO-----	-	-	1	1	1	1	-	-	-	-	14	14	-	14	14	14
PENNSYLVANIA-----	-	-	1	1	1	1	-	-	-	-	9	9	-	4	4	4
SOUTH CAROLINA-----	-	-	2	2	2	2	-	-	-	-	49	49	-	49	49	49
TEXAS-----	-	-	1	1	1	1	-	-	-	-	13	13	-	13	13	13
UTAH-----	-	-	1	1	1	1	-	-	-	-	8	8	-	8	8	8
WASHINGTON-----	-	-	1	1	1	1	-	-	-	-	391	391	-	23	23	23
TOTAL OR AVERAGE-----	-	-	17	17	17	30	13	-	-	-	391	391	-	-	-	-
DREDGE:																
LOUISIANA-----	1	-	-	-	1	1	-	6,000	-	-	-	6,000	-	-	-	6,000
NEBRASKA-----	-	-	-	-	-	-	-	6,000	-	-	-	6,000	-	-	-	6,000
TOTAL OR AVERAGE-----	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE, SURFACE:																
ALABAMA-----	-	-	2	2	2	2	-	-	-	-	45	45	-	22	22	22
CALIFORNIA-----	-	-	3	3	3	3	-	-	-	-	176	176	-	59	59	59
COLORADO-----	-	-	5	5	5	5	-	-	-	-	70	70	-	14	14	14
LOUISIANA-----	1	-	1	1	1	1	-	5,000	-	-	7	7	-	7	7	7
MISSISSIPPI-----	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-
NEBRASKA-----	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	1	1	1	1	-	-	-	-	14	14	-	14	14	14
PENNSYLVANIA-----	-	-	2	2	2	2	-	-	-	-	9	9	-	4	4	4
SOUTH CAROLINA-----	-	-	1	1	1	1	-	-	-	-	49	49	-	49	49	49
TEXAS-----	-	-	1	1	1	1	-	-	-	-	13	13	-	13	13	13
UTAH-----	-	-	1	1	1	1	-	-	-	-	8	8	-	8	8	8
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	391	391	-	23	23	23
TOTAL OR AVERAGE-----	1	-	17	17	18	32	14	6,000	-	-	391	6,391	-	-	-	-
TOTAL OR AVERAGE, MINING:																
ALABAMA-----	-	-	2	2	2	2	-	-	-	-	45	45	-	22	22	22
CALIFORNIA-----	-	-	3	3	3	3	-	-	-	-	176	176	-	59	59	59
COLORADO-----	-	-	5	5	5	5	-	-	-	-	70	70	-	14	14	14
LOUISIANA-----	1	-	1	1	1	1	-	6,000	-	-	7	7	-	7	7	7
MISSISSIPPI-----	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-
NEBRASKA-----	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	1	1	1	1	-	-	-	-	14	14	-	14	14	14
PENNSYLVANIA-----	-	-	2	2	2	2	-	-	-	-	9	9	-	4	4	4
SOUTH CAROLINA-----	-	-	1	1	1	1	-	-	-	-	49	49	-	49	49	49
TEXAS-----	-	-	1	1	1	1	-	-	-	-	13	13	-	13	13	13
UTAH-----	-	-	1	1	1	1	-	-	-	-	8	8	-	8	8	8
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	391	391	-	23	23	23
TOTAL OR AVERAGE-----	1	-	17	17	18	32	14	6,000	-	-	391	6,391	-	-	-	-

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

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					TOTAL	PERMANENT	TEMPO- RARY					TOTAL NFDL
TOTAL OR AVERAGE: ALL MINES AND PLANTS:																
ALABAMA-----	-	-	2	2	2	-	2	-	-	-	45	-	22	45	22	45
CALIFORNIA-----	-	-	3	3	3	-	3	-	-	-	176	-	59	176	59	176
COLOADO-----	-	-	5	5	5	-	5	6,000	-	-	70	-	14	6,000	14	6,000
LOUISIANA-----	1	-	-	-	1	-	1	-	-	-	-	-	7	7	7	7
MISSISSIPPI-----	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	2	-	-	-	14	-	14	14	14	14
PENNSYLVANIA-----	-	-	1	1	1	-	8	-	-	-	9	-	4	9	4	9
SOUTH CAROLINA-----	-	-	2	2	2	-	10	-	-	-	49	-	49	49	49	49
TEXAS-----	-	-	1	1	1	-	2	-	-	-	13	-	13	13	13	13
UTAH-----	-	-	1	1	1	-	1	-	-	-	8	-	8	8	8	8
WASHINGTON-----	-	-	1	1	1	-	1	-	-	-	391	-	23	391	23	391
TOTAL OR AVERAGE-----	1	-	17	17	18	14	32	6,000	-	-	391	-	23	6,391	23	355
GRAND TOTAL OR AVERAGE:																
ALABAMA-----	-	-	2	2	2	-	2	-	-	-	45	-	22	45	22	45
CALIFORNIA-----	-	-	3	3	3	-	3	-	-	-	176	-	59	176	59	176
COLOADO-----	-	-	5	5	5	-	5	6,000	-	-	70	-	14	6,000	14	6,000
LOUISIANA-----	1	-	-	-	1	-	1	-	-	-	-	-	7	7	7	7
MISSISSIPPI-----	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-
NEBRASKA-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO-----	-	-	-	-	-	-	2	-	-	-	14	-	14	14	14	14
PENNSYLVANIA-----	-	-	1	1	1	-	8	-	-	-	9	-	4	9	4	9
SOUTH CAROLINA-----	-	-	2	2	2	-	10	-	-	-	49	-	49	49	49	49
TEXAS-----	-	-	1	1	1	-	2	-	-	-	13	-	13	13	13	13
UTAH-----	-	-	1	1	1	-	1	-	-	-	8	-	8	8	8	8
WASHINGTON-----	-	-	-	-	-	-	-	-	-	-	391	-	23	391	23	355
TOTAL OR AVERAGE-----	1	-	17	17	18	14	32	6,000	-	-	391	-	23	6,391	23	355

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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 NFDL				
GRAND TOTAL OR AVERAGE:	1	-	17	17	18	14	32	6,000	391	-	391	6,391	-	23	355
EYE-----	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE-----	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
ELBOW-----	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-
Wrist-----	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-
FINGER(S)-----	-	-	2	2	2	2	2	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC-----	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-
BACK-----	-	-	2	2	2	2	2	-	-	-	-	-	-	-	-
CHEST-----	-	-	2	2	2	2	2	-	-	-	-	-	-	-	-
ANKLE-----	-	-	4	4	4	4	4	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC-----	-	-	1	1	1	1	1	-	-	-	-	-	-	-	-
BODY SYSTEMS-----	-	-	-	-	-	-	-	6,000	-	-	-	6,000	-	-	-
MULTIPLE PARTS OF BODY-----	-	-	4	4	4	4	4	-	-	-	-	-	-	-	-
UNCLASSIFIED-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE-----	1	-	17	17	18	14	32	6,000	391	-	391	6,391	-	23	355

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION 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	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL	
		TOTAL	PARTIAL	TEMPORARY					TOTAL	PARTIAL						
SURFACE MINES:																
OPEN PIT:																
CONTUSION OR BRUISE	-	2	-	2	2	1	3	-	-	-	17	17	-	8	8	
CUT OR PUNCTURE	-	1	-	1	1	5	6	-	-	-	49	49	-	49	49	
DUST IN EYE	-	-	-	-	-	2	2	-	-	-	187	187	-	94	94	
FRACTURE	-	2	-	2	2	1	3	-	-	-	2	2	-	2	2	
SCALD/ABRASION	-	1	-	1	1	1	2	-	-	-	44	44	-	7	7	
STRAIN/SPRAIN	-	6	-	6	6	2	8	-	-	-	57	57	-	28	28	
MULTIPLE INJURIES	-	2	-	2	2	1	3	-	-	-	32	32	-	16	16	
OTHER INJURY, NEC	-	2	-	2	2	-	2	-	-	-	3	3	-	3	3	
UNCLASSIFIED (NO DATA)	-	1	-	1	1	-	1	-	-	-	-	-	-	-	-	
TOTAL OR AVERAGE	-	17	-	17	17	13	30	-	-	-	391	391	-	23	23	
DREDGE:																
CONTUSION OR BRUISE	-	-	-	-	-	1	1	6,000	-	-	-	-	-	-	-	6,000
ELECTRIC SHOCK	1	-	-	-	1	1	2	5,000	-	-	-	-	-	-	-	6,000
TOTAL OR AVERAGE	1	-	-	-	1	1	2	5,000	-	-	-	-	-	-	-	6,000
TOTAL OR AVERAGE, MINING:																
CONTUSION OR BRUISE	-	2	-	2	2	2	4	-	-	-	17	17	-	8	8	
CUT OR PUNCTURE	-	1	-	1	1	5	6	-	-	-	49	49	-	49	49	
DUST IN EYE	-	-	-	-	-	2	2	6,000	-	-	187	187	-	94	94	
FRACTURE	1	-	-	-	-	1	1	-	-	-	2	2	-	2	2	
SCALD/ABRASION	-	2	-	2	2	1	3	-	-	-	44	44	-	7	7	
STRAIN/SPRAIN	-	6	-	6	6	2	8	-	-	-	57	57	-	28	28	
MULTIPLE INJURIES	-	2	-	2	2	1	3	-	-	-	32	32	-	16	16	
OTHER INJURY, NEC	-	2	-	2	2	-	2	-	-	-	3	3	-	3	3	
UNCLASSIFIED (NO DATA)	-	1	-	1	1	-	1	6,000	-	-	391	5,391	-	23	355	
TOTAL OR AVERAGE	1	17	-	17	18	14	32	6,000	-	-	391	5,391	-	23	355	
GRAND TOTAL OR AVERAGE:																
CONTUSION OR BRUISE	-	2	-	2	2	2	4	-	-	-	17	17	-	8	8	
CUT OR PUNCTURE	-	1	-	1	1	5	6	-	-	-	49	49	-	49	49	
DUST IN EYE	-	-	-	-	-	2	2	6,000	-	-	187	187	-	94	94	
FRACTURE	1	-	-	-	-	1	1	-	-	-	2	2	-	2	2	
SCALD/ABRASION	-	2	-	2	2	1	3	-	-	-	44	44	-	7	7	
STRAIN/SPRAIN	-	6	-	6	6	2	8	-	-	-	57	57	-	28	28	
MULTIPLE INJURIES	-	2	-	2	2	1	3	-	-	-	32	32	-	16	16	
OTHER INJURY, NEC	-	2	-	2	2	-	2	-	-	-	3	3	-	3	3	
UNCLASSIFIED (NO DATA)	-	1	-	1	1	-	1	6,000	-	-	391	5,391	-	23	355	
TOTAL OR AVERAGE	1	17	-	17	18	14	32	6,000	-	-	391	5,391	-	23	355	

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY INJURED AND NATURE OF INJURY
AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

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
-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-				
EYE: CUT OR PUNCTURE----- DUST IN EYE----- SCRATCH/ABRASION----- TOTAL OR AVERAGE-----	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-				
MOUTH/TEETH/TONGUE: CUT OR PUNCTURE----- TOTAL OR AVERAGE-----	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-				
ELBOW: CONTUSION OR BRUISE----- STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-				
WRIST: CONTUSION OR BRUISE----- TOTAL OR AVERAGE-----	-	-	1	1	1	1	-	-	-	-	4	4	-	4	4				
FINGER(S): CUT OR PUNCTURE----- FRACTURE----- TOTAL OR AVERAGE-----	-	-	1	1	1	1	-	-	-	-	49	49	-	49	49				
UPPER EXTREMITIES, NEC: CUT OR PUNCTURE----- STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	-	-	2	2	2	2	-	-	-	-	63	63	-	32	32				
BACK: STRAIN, SPRAIN----- TOTAL OR AVERAGE-----	-	-	2	2	2	1	-	-	-	-	14	14	-	7	7				
CHEST: CONTUSION OR BRUISE----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	-	-	1	1	1	-	-	-	-	-	13	13	-	13	13				

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE, RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HAND TOOL		NONPROTECTED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OPEN PIT:																						
ALABAMA																						
CALIFORNIA																						
COLORADO																						
MISSISSIPPI																						
NEW MEXICO																						
PENNSYLVANIA																						
SOUTH CAROLINA																						
TEXAS																						
UTAH																						
WASHINGTON																						
TOTAL																						
DREDGE																						
LOUISIANA																						
NEBRASKA																						
TOTAL																						
TOTAL MINING:																						
ALABAMA																						
CALIFORNIA																						
COLORADO																						
LOUISIANA																						
MISSISSIPPI																						
NEW MEXICO																						
NEBRASKA																						
PENNSYLVANIA																						
SOUTH CAROLINA																						
TEXAS																						
UTAH																						
WASHINGTON																						
TOTAL																						
GRAND TOTAL:																						
ALABAMA																						
CALIFORNIA																						
COLORADO																						
LOUISIANA																						
MISSISSIPPI																						
NEW MEXICO																						
NEBRASKA																						
PENNSYLVANIA																						
SOUTH CAROLINA																						
TEXAS																						
UTAH																						
WASHINGTON																						
TOTAL																						

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOWMENT			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			
OPEN PIT:																																	
ALABAMA																																	
CALIFORNIA			2																													2	
COLORADO			2																													2	
MISSISSIPPI																																2	
NEW MEXICO																																8	
PENNSYLVANIA																																1	
SOUTH CAROLINA			1																													1	
TEXAS																																	
UTAH																																	
WASHINGTON																																	
TOTAL			5																													17	
DREDGE:																																	
LOUISIANA																																1	
NEBRASKA																																1	
TOTAL																																	
TOTAL MINING:																																	
ALABAMA			2																													2	
CALIFORNIA																																2	
COLORADO			2																													2	
LOUISIANA																																1	
MISSISSIPPI																																1	
NEBRASKA																																2	
NEW MEXICO																																1	
PENNSYLVANIA																																2	
SOUTH CAROLINA			1																													8	
TEXAS																																1	
UTAH																																	
WASHINGTON																																	
TOTAL			5																													17	
GRAND TOTAL:																																	
ALABAMA			2																													2	
CALIFORNIA																																2	
COLORADO			2																													2	
LOUISIANA																																1	
MISSISSIPPI																																1	
NEBRASKA																																2	
NEW MEXICO																																8	
PENNSYLVANIA																																1	
SOUTH CAROLINA			1																													1	
TEXAS																																	
UTAH																																	
WASHINGTON																																	
TOTAL			5																													17	

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND STATE	ELECTRICAL		ENTANGLEMENT		EXPLODING VESSEL UNDER PRESSURE		EXPLOSIVE AND BREAKING AGENT		FALLING, ROLLING 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
OPEN PIT:																						
ALABAMA																						
CALIFORNIA																						
COLORADO																		4				
MISSISSIPPI																		14				
PENNSYLVANIA																						
SOUTH CAROLINA																						
TEXAS																						
UTAH																		13				
WASHINGTON																		8				
TOTAL																		39				
DREDGE:																						
LOUISIANA	6,000																					
TOTAL	6,000																					
TOTAL MINING:																						
ALABAMA																						
CALIFORNIA																		4				
COLORADO																						
LOUISIANA	6,000																					
MISSISSIPPI																		14				
PENNSYLVANIA																						
SOUTH CAROLINA																						
TEXAS																						
UTAH																		13				
WASHINGTON																		8				
TOTAL	6,000																	39				
GRAND TOTAL:																						
ALABAMA																						
CALIFORNIA																		4				
COLORADO																						
LOUISIANA	6,000																					
MISSISSIPPI																						
PENNSYLVANIA																		14				
SOUTH CAROLINA																						
TEXAS																						
UTAH																		13				
WASHINGTON																		8				
TOTAL	6,000																	39				

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969 (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
OPEN PIT:																						
ALABAMA		45																				45
CALIFORNIA																						176
COLORADO		28																				70
MISSISSIPPI																						7
PENNSYLVANIA																						14
SOUTH CAROLINA																						9
TEXAS		49																				49
UTAH																						13
WASHINGTON																						8
TOTAL		122												225								391
DREDGE:																						
LOUISIANA																					6,000	
TOTAL																					6,000	
TOTAL MINING:																						
ALABAMA		45																				45
CALIFORNIA																						176
COLORADO		28																				70
LOUISIANA																						7
MISSISSIPPI																						14
PENNSYLVANIA																						9
SOUTH CAROLINA																						49
TEXAS		49																				13
UTAH																						8
WASHINGTON																						
TOTAL		122												225								391
GRAND TOTAL:																						
ALABAMA		45																				45
CALIFORNIA																						176
COLORADO		28																				70
LOUISIANA																						7
MISSISSIPPI																						14
PENNSYLVANIA																						9
SOUTH CAROLINA																						49
TEXAS		49																				13
UTAH																						8
WASHINGTON																						
TOTAL		122												225								391
																					6,000	

TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE, FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY						
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOI	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL				
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL NFDL	TEMPO- RARY	TOTAL NFDL								
																TOTAL	PARTIAL	TOTAL	PARTIAL
SURFACE MINES:																			
OPEN PIT:																			
HANDLING MATERIAL	-	-	4	-	4	3	7	-	-	-	39	39	-	10	10	10			
HAND TOOL	-	-	4	-	4	5	5	-	-	-	122	122	-	24	24	24			
POWERED HAULAGE	-	-	5	-	5	5	7	-	-	-	5	5	-	2	2	2			
MACHINERY	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-			
SLIP OR FALL OF PERSON	-	-	6	-	6	-	6	-	-	-	225	225	-	38	38	38			
TOTAL OR AVERAGE	-	-	17	-	17	13	30	-	-	-	391	391	-	23	23	23			
DREDGE:																			
ELECTRICAL	1	-	-	-	1	1	1	6,000	-	-	-	6,000	-	-	-	6,000			
POWERED HAULAGE	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	6,000			
TOTAL OR AVERAGE	1	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-			
MINING:																			
TOTAL OR AVERAGE	1	-	-	-	-	-	-	6,000	-	-	-	6,000	-	-	-	6,000			
ELECTRICAL	-	-	4	-	4	3	7	-	-	-	39	39	-	10	10	10			
HANDLING MATERIAL	-	-	4	-	4	5	5	-	-	-	122	122	-	24	24	24			
HAND TOOL	-	-	5	-	5	1	6	-	-	-	5	5	-	2	2	2			
POWERED HAULAGE	-	-	2	-	2	5	7	-	-	-	-	-	-	-	-	-			
MACHINERY	-	-	6	-	6	-	6	-	-	-	225	225	-	38	38	38			
SLIP OR FALL OF PERSON	-	-	17	-	17	14	32	6,000	-	-	391	391	-	23	23	355			
TOTAL OR AVERAGE	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GRAND TOTAL OR AVERAGE:																			
ELECTRICAL	1	-	-	-	1	1	1	6,000	-	-	-	6,000	-	-	-	6,000			
HANDLING MATERIAL	-	-	4	-	4	3	7	-	-	-	39	39	-	10	10	10			
HAND TOOL	-	-	5	-	5	1	6	-	-	-	5	5	-	2	2	2			
POWERED HAULAGE	-	-	2	-	2	5	7	-	-	-	-	-	-	-	-	-			
MACHINERY	-	-	6	-	6	-	6	-	-	-	225	225	-	38	38	38			
SLIP OR FALL OF PERSON	-	-	17	-	17	14	32	6,000	-	-	391	391	-	23	23	355			
TOTAL OR AVERAGE	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

TABLE 15 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES						LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFOL			TOTAL FATAL AND NFOL	TOTAL INJURIES	FATAL	NFOL			TOTAL FATAL AND NFOL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFOL	
		PERMANENT	TOTAL					TOTAL	TEMPO- RARY	TOTAL NFOL					
			TOTAL	PARTIAL											PARTIAL
ELECTRICAL BODY SYSTEMS----- TOTAL OR AVERAGE-----	1 1	- -	- -	- -	1 1	1 1	6,000 6,000	- -	- -	- -	6,000 6,000	- -	- -	6,000 6,000	
HANDLING MATERIAL----- ELBOW----- WRIST----- FINGER(S)----- UPPER EXTREMITIES, NEC----- BACK----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - - - -	- - - - - - -	- 1 1 1 1 1 1	- 1 1 1 1 1 1	1 1 1 2 1 1	1 1 1 1 1 1	- - - - - -	- - - - - -	- 4 4 13 8 39	- 4 14 13 8 39	- 4 14 13 8 39	- 4 14 13 8 39	- 4 14 13 8 10	- 4 14 13 8 10	
HAND TOOL----- EYE----- ELBOW----- FINGER(S)----- UNCLASSIFIED----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	- - - - -	- - - - -	2 1 1 1 5	2 1 1 1 5	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
POWERED MACHINERY----- FINGER(S)----- CHEST----- ANKLE----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	1 2 1 1 5	1 2 1 1 5	1 2 1 2 6	1 2 1 1 6	- - - - -	- - - - -	49 39 2 32 122	49 39 2 32 122	49 39 2 32 122	- - - - -	49 20 2 32 24	49 20 2 32 24	
MACHINERY----- EYE----- MOUTH/TEETH/TONGUE----- FINGER(S)----- UPPER EXTREMITIES, NEC----- LOWER EXTREMITIES, NEC----- TOTAL OR AVERAGE-----	- - - - - -	- - - - - -	- - - 1 1 2	3 1 1 1 1 5	3 1 1 1 1 7	3 1 1 1 1 7	- - - - - -	- - - - - -	- - - 2 3 5	- - - 2 3 5	- - - 2 3 5	- - - 2 3 5	- - - 2 3 2	- - - 2 3 2	
SLIP OR FALL OF PERSON----- BACK----- ANKLE----- MULTIPLE PARTS OF BODY----- TOTAL OR AVERAGE-----	- - - -	- - - -	1 3 2 6	1 3 2 6	1 3 2 5	1 3 2 5	- - - -	- - - -	1 193 31 225	1 193 31 225	1 193 31 225	- - - -	1 64 16 38	1 64 16 38	

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY INJURED AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989 (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			PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL			
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL	PARTIAL	TOTAL NFDL						
TOTAL OR AVERAGE:	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-
EYE	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-
ELBOW	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
WRIST	-	-	1	1	1	2	2	-	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-	-	-
UPPER EXTREMITIES, NEC	-	-	1	1	2	1	2	-	-	-	-	-	-	-	-	-	-
BACK	-	-	2	2	2	1	3	-	-	-	-	-	-	-	-	-	-
CHEST	-	-	2	2	4	-	2	-	-	-	-	-	-	-	-	-	-
ANKLE	-	-	4	4	4	-	4	-	-	-	-	-	-	-	-	-	-
LOWER EXTREMITIES, NEC	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-
BODY SYSTEMS	1	-	-	-	1	-	1	6,000	-	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY	-	-	4	4	4	1	5	-	-	-	-	-	-	-	-	-	-
UNCLASSIFIED	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	1	-	17	17	18	14	32	6,000	391	-	-	-	-	-	-	-	-

TABLE 16. - NUMBER OF INJURIES, LOST HOURS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1969

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES						LOST HOURS						AVERAGE SEVERITY			
	FATAL	NFDL			TOTAL FATAL AND NFDL	NOI	TOTAL INJURIES	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL	
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL	PARTIAL	TEMPO- RARY					TOTAL NFDL
ELECTRICAL ELECTRIC SHOCK----- TOTAL OR AVERAGE-----	1 1	- -	- -	- -	1 1	- -	1 1	6,000 6,000	- -	- -	- -	6,000 6,000	- -	- -	- -	6,000 6,000
HANDLING MATERIAL: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- FRACTURE----- STRAIN/SPRAIN----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	1 1 2 4	1 1 2 4	1 1 2 7	- 1 2 3	1 1 4 7	- - - -	- - - -	- - - -	4 14 21 39	4 14 21 39	- - - -	4 14 10 10	4 14 10 10	4 14 21 39
HAND TOOL: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- DUST IN EYE----- MULTIPLE INJURIES----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	- - - - -	- - - - -	1 2 1 1 5	1 2 1 1 5	1 2 1 1 5	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
POWERED HAULAGE: CONTUSION OR BRUISE----- CUT OR PUNCTURE----- SCRATCH/ABRASION----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - - - - -	- - - - - -	1 1 1 1 1	1 1 1 1 5	2 1 1 1 6	1 1 - - 1	2 1 1 1 6	- - - - -	- - - - -	- - - - -	13 49 2 32 122	13 49 2 32 122	- - - - -	13 49 2 32 24	13 49 2 32 24	13 49 2 32 24
MACHINERY: CUT OR PUNCTURE----- DUST IN EYE----- FRACTURE----- SCRATCH/ABRASION----- STRAIN/SPRAIN----- UNCLASSIFIED (NO DATA)----- TOTAL OR AVERAGE-----	- - - - - -	- - - - - -	- - - - 1 2	- - - - 1 2	2 1 1 1 7	2 1 1 1 5	2 1 1 1 7	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
SLIP OR FALL OF PERSON: FRACTURE----- STRAIN/SPRAIN----- MULTIPLE INJURIES----- OTHER INJURY, NEC----- TOTAL OR AVERAGE-----	- - - - -	- - - - -	1 3 1 1 6	1 3 1 1 6	1 3 1 1 6	- - - - -	1 3 1 1 6	- - - - -	- - - - -	- - - - -	173 21 26 6 225	173 21 26 6 225	- - - - -	173 21 26 6 38	173 21 26 6 38	173 21 26 6 38

TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL 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	TOTAL INJURIES	NOL	FATAL	NFDL			TOTAL FATAL AND NFDL	PERMA- NENT PARTIAL	TEMPO- RARY	TOTAL FATAL AND NFDL
		PERMANENT	TEMPO- RARY	TOTAL NFDL					TOTAL	PARTIAL	TOTAL NFDL				
1	-	-	-	2	4	2	-	-	-	17	-	-	8		
CONCUSSION OR BRUISE	-	-	-	2	6	5	-	-	-	49	-	-	49		
CUT OR FRACTURE	-	-	-	1	2	2	-	-	-	-	-	-	-		
DUST IN EYE	-	-	-	1	1	1	-	-	-	-	-	-	-		
ELECTRIC SHOCK	1	-	-	2	3	1	6,000	-	-	6,000	-	-	94		
FRACTURE	-	-	-	1	2	1	-	-	-	187	-	-	2		
SCALD/ABRASION	-	-	-	6	8	2	-	-	-	2	-	-	7		
STRAIN/SPRAIN	-	-	-	2	3	1	-	-	-	44	-	-	28		
MULTIPLE INJURIES	-	-	-	2	3	1	-	-	-	57	-	-	16		
OTHER INJURY, NEC	-	-	-	1	2	-	-	-	-	32	-	-	3		
UNCLASSIFIED (NO DATA)	-	-	-	1	1	-	-	-	-	3	-	-	-		
TOTAL OR AVERAGE	1	-	-	17	32	14	6,000	-	-	6,391	-	-	23		
													355		

TABLE 17. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT CONTRACTIONS SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1989

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 (NONTRAUMATIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
		NO ..	OCCUPATIONAL	ILLNESSES	REPORTED	FOR ...	1989	

TABLE 18 - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, AND EMPLOYEE-HOURS BY MINERAL INDUSTRY AND WORK LOCATION, 1989
(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	1		53		32		86			
NONMETAL			6		5		11			
STONE		.09	1		1		2			
TOTAL, UNDERGROUND MINES	1		60		38	3.29	99	8.57	3,076	2,309,341
SURFACE MINES										
METAL	2		127		97		226			
NONMETAL	1		22		8		31			
STONE	2		53		24		79			
SUBTOTAL, SURFACE MINES	5		202		129		336			
SAND AND GRAVEL	1		17		14		32			
TOTAL, SURFACE MINES	6	.07	219		143	1.78	368	4.59	13,115	16,026,741
TOTAL, MINES	7	.08	279		181	1.97	467	5.09	16,191	18,336,082
MILLS										
METAL			223		155		378			
NONMETAL	2		36		42		80			
STONE	2		126		59		187			
TOTAL, MILLS	4	.08	385		256	4.91	645	12.37	8,685	10,431,388
INDEPENDENT SHOPS AND YARDS										
METAL										
NONMETAL										
STONE										
TOTAL, SHOPS AND YARDS									2	735
ALL MINES, MILLS AND SHOPS										
METAL	3		403		284		687			
NONMETAL	3		64		55		122			
STONE	4		180		84		268			
SUBTOTAL	10		647		423		1,080			
SAND AND GRAVEL	1		17		14		32			
TOTAL, MINES/MILLS/SHOPS	11	.08	664		437	3.04	1,112	7.73	24,878	28,768,205
OFFICEMEN										
METAL			12		8		20			
NONMETAL					1		1			
STONE					2		2			
SAND AND GRAVEL										
TOTAL, OFFICEMEN			12		11	1.38	23	2.90	1,340	1,588,753
SUMMARY TOTAL (INCLUDES OFFICE WORKERS)										
METAL	3		415		292		710			
NONMETAL	3		64		56		123			
STONE	4		180		86		270			
SUBTOTAL	10		659		434		1,103			
SAND AND GRAVEL	1		17		14		32			
GRAND TOTAL	11	.07	676		448	4.45	1,135	7.48	26,218	30,356,959

TABLE 19 - 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, 1989
(CONTRACTOR 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:	-		60		18		78				
SURFACE:	1	.07	35	2.30	24	1.58	59				
TOTAL, UNDERGROUND MINES:	1	.05	95	4.39	42	1.94	137				
SURFACE MINES:	3		123		84		210				
AUGER MINES:	-		3		2		5				
OTHER SURFACE MINES:	-		-		-		-				
TOTAL, SURFACE MINES:	3		126		86		215				
TOTAL, PRODUCTION MINING:	4	.10	226	2.97	128	1.68	352				
PREPARATION PLANTS:	2	.10	111	5.61	42	2.12	153				
INDEPENDENT SHOPS/YARDS:	-		1	45.92	3	137.77	4				
TOTAL, OTHER OPERATIONS:	2	.10	112	5.66	45	2.27	159				
TOTAL, BITUMINOUS MINING:	6	.06	338	3.53	173	1.80	517				
PENNSYLVANIA ANTHRACITE COAL:											
UNDERGROUND MINES:	-		-		-		-				
SURFACE:	-		1		-		1				
TOTAL, UNDERGROUND MINES:	-		1		-		1				
SURFACE MINES:	-		4		-		4				
CULM BANK:	-		1		-		1				
DREDGE:	-		-		-		-				
TOTAL, SURFACE MINES:	-		5		-		5				
TOTAL, PRODUCTION MINING:	-		6		-		6				
PREPARATION PLANTS:	-		1		-		1				
INDEPENDENT SHOPS/YARDS:	-		-		-		-				
TOTAL, OTHER OPERATIONS:	-		1		-		1				
TOTAL, ANTHRACITE MINING:	-		7		-		7				
ALL COAL:											
UNDERGROUND MINES:	-		60	9.36	18	2.82	78				
SURFACE:	1	.05	95	4.39	42	1.94	138				
TOTAL, UNDERGROUND MINES:	1		155		60		215				
SURFACE MINES:	3	.06	127	2.41	84	1.59	214				
AUGER MINES:	-		3	3.31	2	2.21	5				
CULM BANK:	-		1	1.62	-		1				
DREDGE:	-		-		-		-				
TOTAL, SURFACE MINES:	3	.06	131	2.41	86	1.58	220				
TOTAL, PRODUCTION MINING:	4	.10	226	2.97	128	1.68	358				
PREPARATION PLANTS:	2	.10	111	5.61	42	2.12	153				
INDEPENDENT SHOPS/YARDS:	-		1	45.92	3	137.77	4				
TOTAL, OTHER OPERATIONS:	2	.10	112	5.66	45	2.27	159				
TOTAL, ALL COAL:	6	.06	338	3.53	173	1.80	517				
OFFICEWORKERS:											
BITUMINOUS:	-		3		3		6				
ANTHRACITE:	-		3	.30	3	.30	6				
TOTAL, OFFICEWORKERS:	-		6		6		12				
GRAND TOTAL:	6	.06	341	3.22	176	1.66	523				

END

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