

Informational Report 1076

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Injury Experience in Coal Mining, 1974

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INJURY EXPERIENCE IN COAL MINING, 1974

by

Staff, Division of Mining Information Systems
Health and Safety Analysis Center

ABSTRACT

This Mining Enforcement and Safety Administration (MESA) report reviews in detail accident, injury, and illness experience in the anthracite and bituminous coal industries of the United States for 1974. Fifty-seven tables summarize the reported work injuries by work location, principal cause of injury, degree of injury, part of body injured, and nature of injury, and contain correlative information on employment, worktime, and operating activity. Concise historical information is presented in nine tables.

INTRODUCTION

Under provisions of Section 111, Public Law 91-173, Federal Coal Mine Health and Safety Act of 1969, the Mining Enforcement and Safety Administration collects accident, injury, illness, employment, and production data for anthracite and bituminous coal mines and preparation plants in the United States by a mandatory reporting system. In 1972, the report formats and procedures for reporting and data processing were modified. Consequently, some information previously published is not now available, while other information, such as nondisabling injury data not formerly collected, is available for years after 1971.

For 1972 and subsequent years, only those data reported by operators are incorporated into the data base. No estimates are made of employment, man-hours, injuries, or tons of coal produced for nonrespondent operations except only as necessary to meet statistical processing requirements by providing minimum employment data for reported unmatched injury data in file. Prior to 1972, employment, nonfatal injury data, and coal production were estimated for nonrespondent operations based on Bureau of Mines production statistics.

SCOPE OF STATISTICS

The statistical data in this report cover the work experience of all coal industry personnel engaged in exploration, development, production, maintenance and repair, and construction work including contractors on mine property, as well as supervisory and technical personnel. Information

concerning onsite officeworkers at coal mines and preparation plants appears in the Salient Statistics table and where specifically mentioned in table title.

The compiled information is based on reports covering 3,221 mines, 767 preparation plants, and 94 independent shops in operation during all or part of 1974.

The terminology used throughout this report is that generally used by the mineral-extractive industries and by MESA. The recording and measuring of work injury experience follow the American National Standard Method.¹

DEFINITION OF TERMS

Key terms used in this publication series are defined or described as follows:

Disabling work injury.--Any injury suffered by a person that arises out of and in the course of his employment that results in death, permanent total disability, permanent partial disability, or temporary total disability.

Fatality.--Any death resulting from a work injury.

Permanent total disability.--Any disabling work injury other than death that permanently and totally incapacitates an employee from following any gainful occupation, or that results in the loss, or the complete loss of use, of both or any two: hands, arms, legs, feet, or eyes.

Permanent partial disability.--Any disabling work injury 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 pre-existing disability of the injured member or impaired body function.

Temporary total disability.--Any disabling work injury that does not result in death or permanent impairment, but which renders the injured person unable to perform a regularly established job that is open and available to him, during the entire time interval corresponding to the hours of his regular shift on any one or more days (including Sundays, days off, or plant shutdown) subsequent to the date of injury.

Injury-frequency rates.--The number of work injuries per million man-hours of exposure or per million short tons of coal, calculated by multiplying the total number of work injuries by one million and dividing the product by the total man-hours of worktime or the total short tons of coal, respectively.

¹American National Standards Institute, Inc., American National Standard Method of Recording and Measuring Work Injury Experience, ANSI Z16.1-1967 (R1973).

Days lost.--The number of full calendar days the injured employee was unable to work as the result of a temporary total disability.

Days charged.--All fatalities and permanent total disabilities have a standard time-loss charge of 6,000 days. Injuries resulting in permanent partial disability are assigned a time-loss charge depending upon the particular injury as specified in ANSI Z16.1-1967 (R1973).

Disabling injury-severity rates.--The number of days lost or charged from disabling work injuries per million man-hours of exposure or per million short tons of coal. Rates are calculated by multiplying the total number of days lost or charged by one million and dividing the product by the total man-hours of worktime or total short tons of coal.

Average severity.--The average number of days lost or charged per disabling injury. It is calculated from the total number of days lost or charged divided by the total number of disabling injuries.

Nondisabling work injury.--An injury suffered by a person that arises out of and in the course of his employment and requires medical treatment in excess of first aid but does not result in a permanent disability or cause the person to stay away from work for one or more days.

Average men working daily.--Average number of persons at work during the time period(s) that mines or plants were active for production or development. It is computed for each mine or plant by summing the reported number of persons working during each period of active operation and then dividing by the number of periods for which activity was reported. The figure is not the average number of employees working a full year in the coal mining industry.

Principal cause classification.--The cause classification used in this report has been developed through many years of analyzing descriptions of accidents resulting in injuries at mineral extracting and processing operations. It is designed to meet the need for a coding structure to classify injuries into standard accident categories to be used in comparisons and determination of trends.

The following descriptions of the principal causes provide definitions, particularly in the inclusions or exclusions of accidents, for which the principal cause may be subject to misinterpretation.

Falls of roof.--Falls of rock, coal, or slate from their in-place location in the mine roof. Excludes falls of roof caused by equipment knocking out support and falls from pressure bumps or bursts.

Falls of face, rib, or overburden.--Falls of face, side, rib, or pillar from their in-place location in underground workings and falls of high-walls in strip pits and auger mines. Excludes falls from equipment knocking out support and falls from pressure bumps or bursts.

Pressure bumps or bursts.--Falling or flying roof, face, or rib material caused by pressure bumps or bursts.

Inrush of water or material.--Includes inrushes of water or unconsolidated material caused by mining into or too close to flooded old workings, or unconsolidated sediments such as sand.

Sliding or falling material or objects.--Rolling, shifting, sliding, or falling materials or objects not being handled or disturbed by the injured worker. Includes coal or rock already broken from its in-place position.

Slips or falls of persons.--Slips or falls on the same level and from an elevation are grouped separately. Slips or falls in or from haulage equipment that resulted from an accident on haulage, from the motion of haulage equipment, or while getting on or off haulage equipment are excluded. Slips or falls into moving or operating machinery or into electrical equipment also are excluded.

Handling materials.--Injuries occurring while installing, moving, lifting, or carrying coal, rock, supplies, or materials; and injuries from flying particles from materials being handled or moved.

Handtools.--Accidents from tools in hands of injured worker or tools in hands of fellow worker, except power-driven tools. Includes flying pieces from tools being used or materials being worked on.

Stepping or kneeling on sharp or loose objects.--Stepping or kneeling on sharp or loose objects, slips or falls from stepping on loose objects, and cases resulting in bursitis or "miner's knee" from working on hands and knees.

Striking or bumping against objects.--Cases of walking or bumping into stationary objects. Excludes cases of striking or bumping in the course of servicing equipment, repairing, handling materials, using handtools, or operating machinery or haulage equipment, etc. Excludes cases of striking or bumping against moving or operating machinery or electrically powered equipment.

Haulage.--Haulage accidents are divided into the following six groups: (1) Mine-gage rail haulage; (2) standard-gage (railroad) haulage; (3) shuttle cars, mobile electric trucks, rubber-tired equipment, and other nonrail equipment; (4) water transportation; (5) automobile, gasoline or diesel trucks, tractors, etc.; and (6) miscellaneous equipment (ropes, animals, cages, belts, etc.). Included in the haulage category are falls of roof, face, or side from haulage equipment knocking out supports; slips or falls of persons in or from haulage equipment that resulted from an accident to the equipment, from the motion of the equipment, or while getting on or off equipment; and flying particles set in motion by haulage equipment or draft therefrom.

Explosions of gas or dust.--Explosions of gas or dust in the mine environment.

Explosives and breaking agents.--Cases in which the cause of injury was the detonation, fumes, flying fragments, or use of the explosive or breaking agent, fuses, caps, or detonators.

Electricity.--Cases resulting from contact with electric current or from arcs or flashes.

Machinery.--Accidents while operating machines are separated from those while moving or tramping a whole machine. Injuries occurring while moving a repair part of a machine are classed under "handling materials." Included in the machinery classification are falls of roof, face, or side from nonhaulage machinery knocking out support, setting up or servicing machinery, and flying particles set in motion by machinery. Excluded from the classification are accidents occurring in the course of repairing machines, unless the accident resulted from in-motion machinery.

Suffocation.--Divided into suffocation from: (1) natural mine gases or oxygen-deficient atmosphere; or (2) foreign gases such as fumes from oil or gasoline motors, gases and smoke drawn underground from a surface fire, or from gas wells. Excludes gases from mine fires, explosions, and explosives use.

Fires and suffocation from fires.--Fire accidents are divided into: (1) mine fires in which coal or timber is burning; and (2) other fires in which equipment or material other than coal or timber is burning.

Occupational pneumoconiosis.--A chronic dust disease of the lungs, such as might be caused by prolonged inhalation of pulverized coal or other minerals.

Miscellaneous causes.--Includes flying particles from draft or wind; gas or burns from carbide; gas, burns, or flying materials or flashes from acetylene and electric welding and cutting; irritations and burns from battery fluid or other acids; burns from controlled wood or coal fires, steam, hot grease, oil, etc.; and all other accidents not elsewhere classified.

HISTORICAL DATA

Injury experience, employment, and worktime data (excluding office-workers) for the bituminous coal, Pennsylvania anthracite, and total coal mining industries are shown for 1930-74 in tables 49-51. The man-hour data for 1930-44 in these tables have been converted to a portal-to-portal basis, which became the basis of pay in 1945. Hence the injury-frequency and the productivity rates are directly comparable for each year since 1930.¹

Historical information (excluding officeworkers) in the coal mining industry is given in tables 52-57. Figures from 1910 through 1974 represent the entire industry, while those prior to 1910 cover only the States that maintained records of fatal injuries.

¹Methodology given on pages 4-5, Bureau of Mines Bulletin 509: Injury Experience in Coal Mining, 1948.

GENERAL INJURY EXPERIENCE, 1974

During 1974, the disabling injury experience, excluding officeworkers, at 4,082 coal mines, plants, and shops was 133 fatal and 8,545 nonfatal disabling work injuries. These injuries resulted in a combined fatal and nonfatal disabling injury-frequency rate of 29.24 per million man-hours of exposure, consisting of a fatality rate of 0.45 and a nonfatal disabling rate of 28.79. The combined disabling injury-severity rate of 4,629 days lost per million man-hours of exposure consisted of a fatal injury-severity rate of 2,689 days lost and a nonfatal disabling injury-severity rate of 1,940. The average severity of all disabling injuries (excluding officeworkers) was 158 days lost or charged per injury.

This is the third year in which data are available concerning non-disabling injuries, except first aid cases. A total of 7,267 nondisabling injuries (excluding officeworkers) were reported during 1974, resulting in a nondisabling injury-frequency rate of 24.49. Therefore, the "all injury" frequency rate shown in tables 1, 2, and 3 for 1972, 1973, and 1974 is higher than for previous years, but only because of the inclusion of nondisabling injuries in the overall frequency rate.

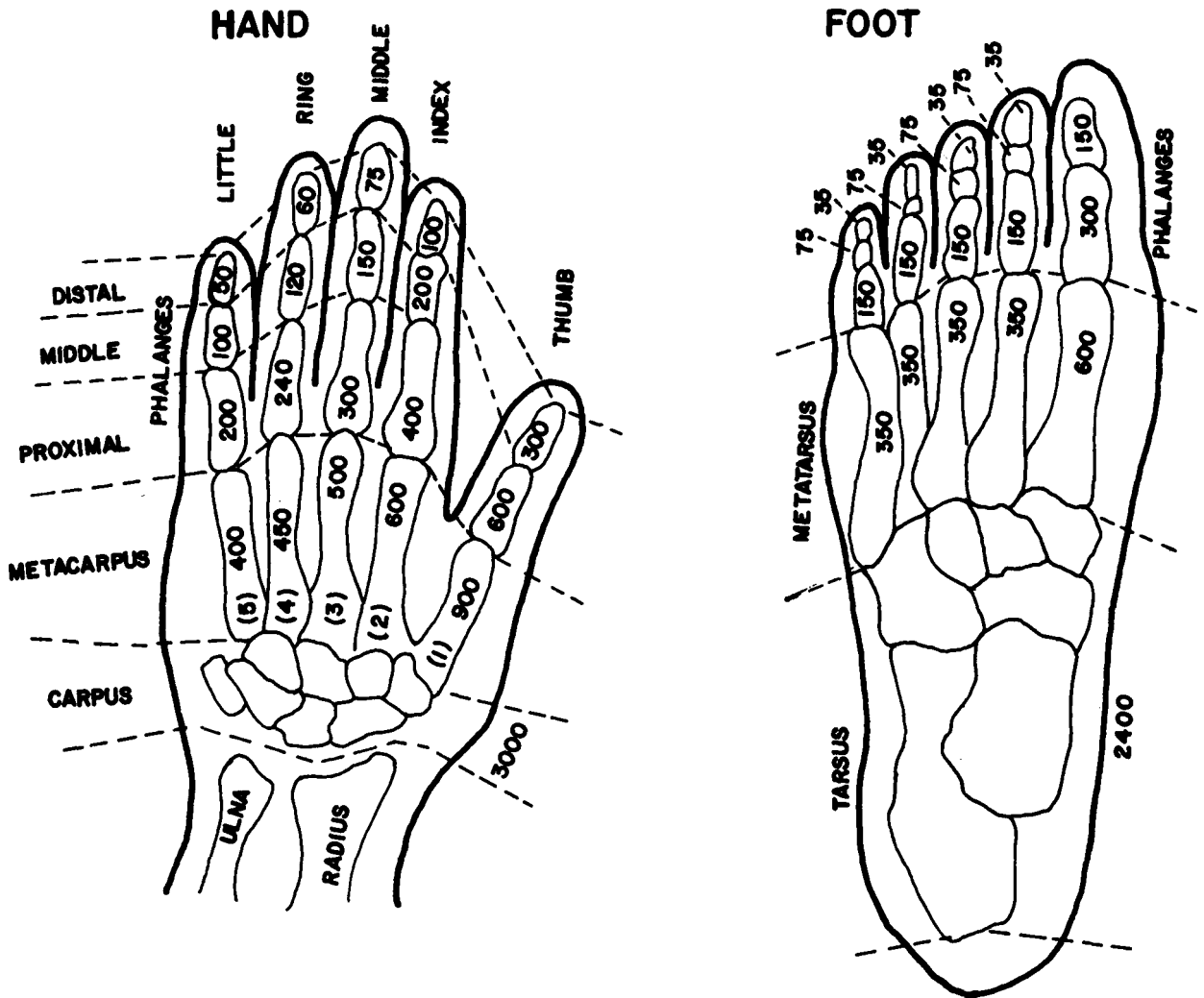
FIGURE A. - Scale of time charges^{1/} for weighting deaths, permanent total disabilities, and permanent partial disabilities for computing severity of injuries

Injury	Time charge (days)
Death.....	6,000
Permanent total disability.....	6,000
Dismemberment ^{2/} 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
Thumb.....	(3/)
Finger.....	(3/)
Leg above knee.....	4,500
Leg at or below knee and above ankle.....	3,000
Foot at ankle.....	2,400
Great toe.....	(3/)
Other toes.....	(3/)
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

^{1/} American National Standards Institute, Inc., American National Standard Method of Recording and Measuring Work Injury Experience, ANSI Z16.1-1967 (R1973).

^{2/} Dismemberment means severance of any part of the bone.

^{3/} See figure B for scheduled charges for hand and foot.



NOTE:
 NUMBERS SHOWN ON DIAGRAM ARE CHARGES IN DAYS LOST
 FOR LOSS OF ALL OR PART OF BONE. FOR ADDITIONAL
 INFORMATION ON USE OF THE CHART SEE 2.3.1.1 THROUGH
 2.3.1.5 ANSI. Z.16.1-1967 (R1973) AMERICAN NATIONAL
 STANDARD METHOD OF RECORDING AND MEASURING WORK
 INJURY EXPERIENCE

FIGURE B.- Chart of scheduled charges for loss or loss of use involving hand or foot.

Form 6-348
(February 1972)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Form Approved
O.M.B. No. 42-R1639



EMPLOYMENT AND PRODUCTION REPORT

Bureau of Mines ID Number _____ For the month of _____ 19____

Mine Name _____

Company Name _____

Mailing Address _____

1. Classification of Coal Mined: (1) Anthracite (2) Bituminous (3) Subbituminous (4) Lignite

2. Current Status of Mine: (1) Active (2) Temporarily Closed Date: _____

(3) Permanently Abandoned Date: _____ (4) Sold (5) Leased (6) Subcontracted Date: _____

If any transaction occurred, indicate name and address of the other party: _____

3. Employment, Manhours, and Production

Operations Sub-Unit (1)	Code	Number of persons working during pay period including 12th of the month (2)	Total man-hours worked during the month (3)	Production of clean coal (Short tons) (4)
UNDERGROUND MINE				
Underground	01			
Surface Shops, Yards, etc	02			
SURFACE MINE (including shops and yards)				
Strip	03			
Auger	04			
Culm Bank	05			
Dredge	06			
MECHANICAL CLEANING, PREPARATION PLANT OR BREAKER	30			
OFFICE (workers at mine and/or preparation facility)	00			

4. Other Reportable Data:

Did you have any reportable accidents, injuries, illness, during this report period (1) Yes (2) No.

If yes, total number of accidents _____ total number of injuries and illness _____

Person to be contacted regarding this report:

Name _____ Title _____

Date report completed _____ 19____

FIGURE C. - Employment and production report form.

Form No. 6-347
(February 1972)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

COAL ACCIDENT, INJURY
AND ILLNESS REPORT

Form Approved
O.M.B. No. 42-R1640

Date of Accident or Illness _____ Time of Accident _____ A.M. P.M.
A.M.
Time shift started _____ P.M. (1) Production (2) Maintenance

Bureau of Mines ID Number _____ Company Name _____

Mine Name _____ Mailing Address _____

(1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____
(7) _____ (8) _____ (9) _____ (10) _____ (11) _____ (12) _____ (13) _____
(14) _____ (15) _____ (16) _____ (17) _____ (18) _____ (19) _____ (20) _____ (21) _____
(22) _____ (23) _____ (24) _____ (25) _____ (26) _____ (27) _____ (28) _____ (29) _____
(30) _____ (31) _____ (32) _____ (33) _____ (34) _____ (35) _____ (36) _____ (37) _____ (38) _____ (39) _____ (40) _____
(41) _____ (42) _____ (43) _____ (44) _____ (45) _____ (46) _____ (47) _____ (48) _____ (49) _____
(50) _____ (51) _____ (52) _____ (53) _____

DO NOT WRITE IN THIS BLOCK — FOR OFFICIAL USE ONLY

A. LOCATION OF ACCIDENT OR ILLNESS (Circle the applicable code)		B. TYPE OF ACCIDENT (Circle the applicable code)		C. OCCUPATIONAL ILLNESS (Circle the applicable code)					
(a) Underground Mine		14 Electricity	15 Machinery	21 Occupational skin diseases					
On Section (1) <input type="checkbox"/> Section ID Number _____ Operator Section Number _____	Off Section (2) <input type="checkbox"/> Operator Location number or name _____	13 Explosive & Breaking Agent	17 Mine Fire	22 Dust diseases of the lungs					
(On Section, circle code for applicable method. Off Section, circle code for principal method used.)		12 Explosion of Gas or Dust	02 Pressure Bump or Burst	23 Respiratory diseases (toxic agents)					
01 Continuous	02 Conventional	03 Hand	04 Longwall	24 Poisoning (toxic materials)					
(Whether on section or off section, circle location codes describing accident)		03 Fall of Face, Rib, or Side	05 Sliding/Falling Material	25 Disorders (physical agents)					
01 Shaft	02 Slope	03 Drift	04 Entry	05 Room	06 Face Area	07 Intersection	01 Fall of Roof	06 Slip or Fall (Person)	26 Disorders (repeated trauma)
(On section, circle applicable status code. Off section, circle principal status code.)		08 Handtool	09 Stepping/Kneeling on object	29 All other occupational illness					
01 Development	02 Retreat	07 Handling material	10 Striking or Bumping						
(b) Surface Mine		11 Haulage	16 Suffocation						
03 Strip	04 Auger	05 Culm bank	06 Dredge						
(c) Surface Operation		20 Ignition of Gas or Dust	18 Other: Specify _____						
01 Tipple	02 Mechanical Cleaning Plant	04 Inundation	19 Lifting/Pulling						
03 Preparation Plant or Breaker	04 Tramline or railroad	05 Central Shops							
00 Office at mine	06 Other surface operations: Specify _____								

D. ACCIDENT OCCURRENCE DATA: What brought about the accident or illness reported _____

What was unsafe physical or mechanical condition(s) contributing to accident _____

Name equipment, material, or tool involved _____ Model number _____

Describe any unsafe act(s) contributing to accident _____

Personnel injured (1) Yes (2) No Number of persons injured _____

COMPLETE DATA BELOW FOR EACH PERSON INJURED OR ILL

1. REGARDING INJURY OR ILLNESS

What was the agent, object, or tool inflicting injury _____ (1) Fatal (2) Nonfatal

Type of injury or illness _____ Part of Body injured _____

Amputation (1) Yes (2) No. If yes, part of body lost _____

2. REGARDING INJURED OR ILL PERSON

Full Name of Injured or ill person _____

Social Security Number _____ Sex _____ Age _____ Total years of mining experience _____ Total years experience in this mine _____

Regular job title _____ Years of experience on regular job _____ What was employee doing when injured _____

Was that activity part of regular job (1) Yes (2) No. If no, years of experience at that activity _____

Returned to regular job next regular shift (1) Yes (2) No. If yes, at full capacity (1) Yes (2) No. Returned to another job next regular shift (1) Yes (2) No.

Was employee transferred to another job or terminated (1) Yes (2) No. If yes (1) after last work days (2) because of injury or illness, but without lost workdays.

Total number of lost work days _____ Number lost from regular job _____ Date returned to work _____

FIGURE D. - Accident, injury and illness report form.

TABLE 1. - Salient statistics on injuries, injury rates, worktime, production, and productivity
at bituminous coal mines in the United States, 1970-74

	Excluding officeworkers					Including officeworkers				
	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974
Number of injuries:										
Fatal-----	255	176	153	131	131	255	176	153	131	131
Nonfatal disabling-----	11,049	11,363	12,012	10,880	8,298	11,049	11,365	12,018	10,889	8,306
All disabling-----	11,304	11,539	12,165	11,011	8,429	11,304	11,541	12,171	11,020	8,437
Nondisabling-----	NA	NA	15,700	13,999	6,895	NA	NA	15,731	14,040	6,916
All injuries-----	11,304	11,539	27,865	25,010	15,324	11,304	11,541	27,902	25,060	15,353
Injury rates:										
Frequency per million man-hours:										
Fatal-----	1.02	0.72	0.59	0.48	0.45	1.00	0.70	0.57	0.47	0.44
Nonfatal disabling-----	44.21	46.41	45.96	40.06	28.45	43.31	45.26	44.71	38.84	27.61
All disabling-----	45.23	47.13	46.55	40.54	28.90	44.31	45.96	45.28	39.31	28.05
Nondisabling-----	NA	NA	60.08	51.55	23.64	NA	NA	58.52	50.08	22.99
All injuries-----	45.23	47.13	106.62	92.09	52.54	44.31	45.96	103.80	89.38	51.04
Frequency per million tons:										
Fatal-----	0.43	0.32	0.29	0.24	0.23	0.43	0.32	0.29	0.24	0.23
Nonfatal disabling-----	18.42	20.31	22.75	19.73	14.80	18.42	20.51	22.76	19.74	14.81
All disabling-----	18.84	20.83	23.04	19.97	15.03	18.84	20.83	23.05	19.98	15.04
Nondisabling-----	NA	NA	29.73	25.38	12.29	NA	NA	29.79	25.46	12.33
All injuries-----	18.84	20.83	52.77	45.35	27.32	18.84	20.83	52.84	45.44	27.38
Severity per million man-hours:										
Fatal-----	6,121	4,313	3,513	2,894	2,695	5,997	4,206	3,415	2,803	2,613
Nonfatal disabling-----	2,339	1,157	1,892	1,966	1,946	2,291	1,128	1,840	1,905	1,890
All disabling-----	8,460	5,470	5,405	4,860	4,641	8,288	5,334	5,255	4,709	4,503
Severity per million tons:										
Fatal-----	2,550	1,906	1,738	1,425	1,401	2,550	1,906	1,738	1,425	1,401
Nonfatal disabling-----	974	511	936	968	1,012	974	511	937	969	1,014
All disabling-----	3,525	2,417	2,675	2,393	2,414	3,525	2,418	2,675	2,394	2,415
Average severity:										
Permanent partial-----	756	871	549	695	612	756	871	549	695	612
Temporary total-----	34	12	29	33	43	34	12	29	33	43
All disabling-----	187	116	116	120	161	187	116	116	120	161
Average men working										
daily-----	138,542	137,080	157,285	143,886	173,588	141,088	140,350	162,046	148,422	178,766
Man-hours worked-----	249,945,396	244,819,831	261,338,208	271,575,488	291,672,037	255,118,360	251,083,354	268,802,713	280,366,978	300,803,928
Production--short tons--	599,917,925	553,992,881	528,092,677	551,482,432	560,839,763	599,917,925	553,992,881	528,092,677	551,482,432	560,839,763
Productivity:										
Tons per man-hour-----	2.40	2.26	2.02	2.03	1.92	2.35	2.21	1.96	1.97	1.86
Tons per man-day-----	19.09	17.96	NA	NA	NA	18.71	17.52	NA	NA	NA

TABLE 2. - Salient statistics on injuries, injury rates, worktime, production, and productivity at Pennsylvania anthracite coal mines in the United States, 1970-74

	Excluding officeworkers					Including officeworkers				
	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974
Number of injuries:										
Fatal-----	5	5	3	1	2	5	5	3	1	2
Nonfatal disabling---	503	553	317	340	247	503	553	317	341	247
All disabling-----	508	558	320	341	249	508	558	320	342	249
Nondisabling-----	NA	NA	390	492	372	NA	NA	392	493	372
All injuries-----	508	558	710	833	621	508	558	712	835	621
Injury rates:										
Frequency per million man-hours:										
Fatal-----	0.49	0.54	0.48	0.17	0.39	0.48	0.52	0.47	0.16	0.38
Nonfatal disabling--	49.20	59.37	51.03	56.24	48.40	48.08	57.66	49.25	54.50	46.91
All disabling-----	49.69	59.90	51.52	56.40	48.79	48.56	58.18	49.71	54.66	47.29
Nondisabling-----	NA	NA	62.79	81.38	72.89	NA	NA	60.90	78.79	70.65
All injuries-----	49.69	59.90	114.30	137.78	121.68	48.56	58.18	110.61	133.46	117.94
Frequency per million tons:										
Fatal-----	0.51	0.57	0.46	0.15	0.41	0.51	0.57	0.46	0.15	0.41
Nonfatal disabling--	50.88	63.36	48.82	52.57	50.06	50.88	63.36	48.82	52.73	50.06
All disabling-----	51.39	63.94	49.28	52.73	50.47	51.39	63.94	49.28	52.88	50.47
Nondisabling-----	NA	NA	60.06	76.08	75.40	NA	NA	60.37	76.23	75.40
All injuries-----	51.39	63.94	109.34	128.81	125.86	51.39	63.94	109.65	129.12	125.86
Severity per million man-hours:										
Fatal-----	2,934	3,221	2,898	992	2,351	2,868	3,128	2,796	959	2,279
Nonfatal disabling--	1,663	691	2,709	1,698	1,568	1,626	671	2,614	1,642	1,520
All disabling-----	4,598	3,912	5,606	2,690	3,919	4,493	3,800	5,410	2,601	3,799
Severity per million tons:										
Fatal-----	3,035	3,437	2,772	928	2,432	3,035	3,437	2,772	928	2,432
Nonfatal disabling--	1,720	738	2,591	1,587	1,622	1,720	738	2,591	1,589	1,622
All disabling-----	4,755	4,175	5,363	2,515	4,054	4,755	4,175	5,363	2,516	4,054
Average severity:										
Permanent partial---	717	63	238	80	-	717	63	238	80	-
Temporary total-----	27	11	33	30	32	27	11	33	30	32
All disabling-----	93	65	109	48	80	93	65	109	48	80
Average men working daily-----	5,938	5,028	4,922	3,357	3,409	6,079	5,182	5,087	3,470	3,508
Man-hours worked-----	10,223,810	9,315,193	6,211,617	6,046,040	5,103,390	10,461,595	9,590,353	6,437,045	6,256,781	5,265,235
Production---short tons-----	9,885,331	8,727,342	6,493,396	6,467,012	4,933,900	9,885,331	8,727,342	6,493,396	6,467,012	4,933,900
Productivity:										
Tons per man-hour-----	0.97	0.94	1.05	1.07	0.97	0.94	0.91	1.01	1.03	0.94
Tons per man-day-----	7.10	6.93	NA	NA	NA	6.95	6.74	NA	NA	NA

TABLE 3. - Salient statistics on injuries, injury rates, worktime, production, and productivity
at all coal mines in the United States, 1970-74

	Excluding officeworkers					Including officeworkers				
	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974
Number of injuries:										
Fatal-----	260	181	156	132	133	260	181	156	132	133
Nonfatal disabling---	11,552	11,916	12,329	11,220	8,345	11,552	11,918	12,335	11,230	8,553
All disabling-----	11,812	12,097	12,485	11,352	8,678	11,812	12,099	12,491	11,362	8,686
Nondisabling-----	NA	NA	16,090	14,491	7,267	NA	NA	16,123	14,533	7,288
All injuries-----	11,812	12,097	28,575	25,843	15,945	11,812	12,099	28,614	25,895	15,974
Injury rates:										
Frequency per million man-hours:										
Fatal-----	1.00	0.71	0.58	0.48	0.45	0.98	0.69	0.57	0.46	0.43
Nonfatal disabling--	44.40	46.89	46.08	40.41	28.79	43.50	45.72	44.82	39.18	27.94
All disabling-----	45.40	47.60	46.66	40.89	29.24	44.48	46.41	45.38	39.64	28.38
Nondisabling-----	NA	NA	60.14	52.20	24.49	NA	NA	58.58	50.70	23.61
All injuries-----	45.40	47.60	106.80	93.09	53.73	44.48	46.41	103.96	90.34	52.19
Frequency per million tons:										
Fatal-----	0.43	0.32	0.29	0.24	0.24	0.43	0.32	0.29	0.24	0.24
Nonfatal disabling--	18.94	21.18	23.06	20.11	15.10	18.94	21.18	23.07	20.13	15.12
All disabling-----	19.37	21.50	23.35	20.35	15.34	19.37	21.50	23.37	20.36	15.35
Nondisabling-----	NA	NA	30.10	25.97	12.84	NA	NA	30.16	26.05	12.88
All injuries-----	19.37	21.50	53.45	46.32	28.18	19.37	21.50	53.53	46.41	28.23
Severity per million man-hours:										
Fatal-----	5,996	4,273	3,498	2,853	2,689	5,874	4,166	3,401	2,763	2,607
Nonfatal disabling--	2,312	1,140	1,911	1,960	1,940	2,265	1,112	1,858	1,900	1,883
All disabling-----	8,308	5,413	5,409	4,813	4,629	8,139	5,278	5,259	4,663	4,491
Severity per million tons:										
Fatal-----	2,558	1,930	1,751	1,419	1,410	2,558	1,930	1,751	1,419	1,410
Nonfatal disabling--	986	515	956	975	1,018	986	515	957	976	1,019
All disabling-----	3,545	2,445	2,707	2,395	2,428	3,545	2,445	2,708	2,395	2,429
Average severity:										
Permanent partial---	756	862	546	688	612	756	862	546	688	612
Temporary total-----	33	12	29	33	43	33	12	29	33	43
All disabling-----	183	114	116	118	158	183	114	116	118	158
Average men working daily:	144,480	142,108	162,207	167,243	176,997	147,167	145,532	167,133	151,892	182,274
Man-hours worked:	260,169,206	254,135,024	267,549,825	277,621,528	296,775,427	265,579,955	260,673,707	275,239,758	286,623,759	306,069,163
Production--short tons:	609,803,256	562,720,223	534,586,073	557,949,444	565,773,663	609,803,256	562,720,223	534,586,073	557,949,444	565,773,663
Productivity:										
Tons per man-hour-----	2.34	2.21	2.00	2.01	1.91	2.30	2.16	1.94	1.95	1.85
Tons per man-day-----	18.58	17.53	NA	NA	NA	18.21	17.10	NA	NA	NA

TABLE 4. - Worktime, production, and productivity (short tons per man-hour) data at coal mines in the United States, by kind of coal and general work location, 1974

	Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of operations
Bituminous coal mines:					
Underground mines:					
Underground-----	101,350	172,876,081	263,398,189	1.52	1,402
Surface-----	11,384	17,859,676	-	-	-
Total or average-----	112,734	190,735,757	263,398,189	1.38	1,402
Strip mines-----	41,257	70,957,562	289,847,869	4.08	1,412
Auger mines-----	1,980	1,884,108	7,570,911	4.02	246
Other surface mining-----	32	24,892	22,794	.92	2
Total surface mining-----	43,269	72,866,562	297,441,574	4.08	1,660
Total or average, mining---	156,003	263,602,319	560,839,763	2.13	3,062
Independent shops and yards-----	2,776	5,349,888	-	-	86
Mechanical cleaning plants-----	14,809	22,719,830	-	-	697
Grand total or average-----	173,588	291,672,037	560,839,763	1.92	3,845
Pennsylvania anthracite mines:					
Underground mines:					
Underground-----	354	533,315	564,665	1.06	46
Surface-----	81	113,851	-	-	-
Total or average-----	435	647,166	564,665	.87	46
Strip mines-----	1,254	2,050,650	2,724,554	1.33	70
Culm banks-----	217	268,567	1,644,681	6.12	42
Dredges-----	3	494	-	-	1
Total surface mining-----	1,474	2,319,711	4,369,235	1.88	113
Total or average, mining---	1,909	2,966,877	4,933,900	1.66	159
Independent shops and yards-----	163	200,993	-	-	8
Mechanical cleaning plants-----	1,337	1,935,520	-	-	70
Grand total or average-----	3,409	5,103,390	4,933,900	.97	237
All coal mines:					
Underground mines:					
Underground-----	101,704	173,409,396	263,962,854	1.52	1,448
Surface-----	11,465	17,973,527	-	-	-
Total or average-----	113,169	191,382,923	263,962,854	1.38	1,448
Strip mines-----	42,511	73,008,212	292,572,423	4.01	1,482
Auger mines-----	1,980	1,884,108	7,570,911	4.02	246
Culm banks-----	244	284,440	1,644,681	5.78	42
Dredges-----	8	9,513	22,794	2.40	3
Total surface mining-----	44,743	75,186,273	301,810,809	4.01	1,773
Total or average, mining---	157,912	266,569,196	565,773,663	2.12	3,221
Independent shops and yards-----	2,939	5,550,881	-	-	94
Mechanical cleaning plants-----	16,146	24,655,350	-	-	767
Grand total or average-----	176,997	296,775,427	565,773,663	1.91	4,082

TABLE 5. - Injury experience at bituminous coal mines in the United States, by general work location, 1974

	Underground mines			Strip mines	Auger mines	Other surface mining	Total surface mining	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total
	Underground	Surface	Total								
Number of injuries:											
Fatal-----	89	6	95	24	2	-	26	121	-	10	131
Nonfatal disabling:											
Permanent total-----	14	1	15	4	1	-	5	20	-	1	21
Permanent partial-----	105	9	114	30	1	-	31	145	1	5	151
Temporary total-----	6,147	366	6,513	1,113	26	-	1,139	7,652	70	404	8,126
All nonfatal disabling----	6,266	376	6,642	1,147	28	-	1,175	7,817	71	410	8,298
All disabling injuries----	6,355	382	6,737	1,171	30	-	1,201	7,938	71	420	8,429
Nondisabling injuries-----	4,804	432	5,236	1,037	28	-	1,065	6,301	91	503	6,895
All injuries-----	11,159	814	11,973	2,208	58	-	2,266	14,239	162	923	15,324
Days lost:											
Fatal-----	534,000	36,000	570,000	144,000	12,000	-	156,000	726,000	-	60,000	786,000
Nonfatal disabling:											
Permanent total-----	84,000	6,000	90,000	24,000	6,000	-	30,000	120,000	-	6,000	126,000
Permanent partial-----	58,543	3,920	62,463	26,037	75	-	26,112	88,575	110	3,770	92,455
Temporary total-----	274,456	15,230	289,686	38,376	1,886	-	40,262	329,948	2,853	16,462	349,263
All nonfatal disabling----	416,999	25,150	442,149	88,413	7,961	-	96,374	538,523	2,963	26,232	567,718
All disabling-----	950,999	61,150	1,012,149	232,413	19,961	-	252,374	1,264,523	2,963	86,232	1,353,718
Frequency rates:											
Per million man-hours:											
Fatal-----	0.51	0.34	0.50	0.34	1.06	-	0.36	0.46	-	0.44	0.45
Nonfatal disabling-----	36.25	21.05	34.82	16.16	14.86	-	16.13	29.65	13.27	18.05	28.45
All disabling injuries----	36.76	21.39	35.32	16.50	15.92	-	16.48	30.11	13.27	18.49	28.90
Nondisabling injuries-----	27.79	24.19	27.45	14.61	14.86	-	14.62	23.90	17.01	22.14	23.64
All injuries-----	64.55	45.58	62.77	31.12	30.78	-	31.10	54.02	30.28	40.63	52.54
Per million tons:											
Fatal-----	.34	-	.36	.08	.26	-	.09	.22	-	-	.23
Nonfatal disabling-----	23.79	-	25.22	3.96	3.70	-	3.95	13.94	-	-	14.80
All disabling injuries----	24.13	-	25.58	4.04	3.96	-	4.04	14.15	-	-	15.03
Nondisabling injuries-----	18.24	-	19.88	3.58	3.70	-	3.58	11.23	-	-	12.29
All injuries-----	42.37	-	45.46	7.62	7.66	-	7.62	25.39	-	-	27.32
Severity rates:											
Per million man-hours:											
Fatal-----	3,089	2,016	2,988	2,029	6,369	-	2,141	2,754	-	2,641	2,695
Nonfatal disabling-----	2,412	1,408	2,318	1,246	4,225	-	1,323	2,043	554	1,155	1,946
All disabling injuries----	5,501	3,424	5,307	3,275	10,594	-	3,464	4,797	554	3,795	4,641
Per million tons:											
Fatal-----	2,027	-	2,164	497	1,585	-	524	1,294	-	-	1,401
Nonfatal disabling-----	1,583	-	1,679	305	1,052	-	324	960	-	-	1,012
All disabling injuries----	3,610	-	3,843	802	2,637	-	848	2,255	-	-	2,414
Average severity:											
Permanent partial-----	558	436	548	868	75	-	842	611	110	754	612
Temporary total-----	45	42	44	34	73	-	35	43	41	41	43
All disabling injuries----	150	160	150	198	665	-	210	159	42	205	161

TABLE 6. - Injury experience at Pennsylvania anthracite mines, by general work location, 1976

	Underground mines			Strip mines	Culm banks	Dredges	Total surface mining	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total
	Underground	Surface	Total								
Number of injuries:											
Fatal-----	1	1	2	-	-	-	-	2	-	-	2
Nonfatal disabling:											
Permanent total-----	-	-	-	-	-	-	-	-	-	-	-
Permanent partial-----	-	-	-	-	-	-	-	-	-	-	-
Temporary total-----	43	4	47	82	10	-	92	139	11	97	247
All nonfatal disabling-----	43	4	47	82	10	-	92	139	11	97	247
All disabling injuries-----	44	5	49	82	10	-	92	141	11	97	249
Nondisabling injuries-----	16	-	16	147	6	-	153	169	31	172	372
All injuries-----	60	5	65	229	16	-	245	310	42	269	621
Days lost:											
Fatal-----	6,000	6,000	12,000	-	-	-	-	12,000	-	-	12,000
Nonfatal disabling:											
Permanent total-----	-	-	-	-	-	-	-	-	-	-	-
Permanent partial-----	-	-	-	-	-	-	-	-	-	-	-
Temporary total-----	1,453	98	1,551	2,798	114	-	2,912	4,463	182	3,357	8,002
All nonfatal disabling-----	1,453	98	1,551	2,798	114	-	2,912	4,463	182	3,357	8,002
All disabling-----	7,453	6,098	13,551	2,798	114	-	2,912	16,463	182	3,357	20,002
Frequency rates:											
Per million man-hours:											
Fatal-----	1.88	8.78	3.09	-	-	-	-	0.67	-	-	0.39
Nonfatal disabling-----	80.63	35.13	72.62	39.99	37.23	-	39.66	46.85	54.73	50.12	48.40
All disabling injuries-----	82.50	43.92	75.71	39.99	37.23	-	39.66	47.52	54.73	50.12	48.79
Nondisabling injuries-----	30.00	-	24.72	71.68	22.34	-	65.96	56.96	154.23	88.87	72.89
All injuries-----	112.50	43.92	100.44	111.67	59.58	-	105.62	104.49	208.96	138.98	121.68
Per million tons:											
Fatal-----	1.77	-	3.54	-	-	-	-	.41	-	-	.41
Nonfatal disabling-----	76.15	-	83.24	30.10	6.08	-	21.06	28.17	-	-	50.06
All disabling injuries-----	77.92	-	86.78	30.10	6.08	-	21.06	28.58	-	-	50.47
Nondisabling injuries-----	28.34	-	28.34	53.95	3.65	-	35.02	34.25	-	-	75.40
All injuries-----	106.26	-	115.11	84.05	9.73	-	56.07	62.83	-	-	125.86
Severity rates:											
Per million man-hours:											
Fatal-----	11,250	52,700	18,542	-	-	-	-	4,045	-	-	2,351
Nonfatal disabling-----	2,724	861	2,397	1,364	424	-	1,255	1,504	906	1,734	1,568
All disabling injuries-----	13,975	53,561	20,939	1,364	424	-	1,255	5,549	906	1,734	3,919
Per million tons:											
Fatal-----	10,626	-	21,252	-	-	-	-	2,432	-	-	2,432
Nonfatal disabling-----	2,573	-	2,747	1,027	69	-	666	905	-	-	1,622
All disabling injuries-----	13,199	-	23,998	1,027	69	-	666	3,337	-	-	4,054
Average severity:											
Permanent partial-----	-	-	-	-	-	-	-	-	-	-	-
Temporary total-----	34	24	33	34	11	-	32	32	17	35	32
All disabling injuries-----	169	1,220	277	34	11	-	32	117	17	35	80

TABLE 7. - Injury experience at all coal mines in the United States, by general work location, 1974

	Underground mines			Strip mines	Auger mines	Culm banks	Dredges	Total surface mining	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total
	Underground	Surface	Total									
Number of injuries:												
Fatal-----	90	7	97	24	2	-	-	26	123	-	10	133
Nonfatal disabling:												
Permanent total-----	14	1	15	4	1	-	-	5	20	-	1	21
Permanent partial-----	105	9	114	30	1	-	-	31	145	1	5	151
Temporary total-----	6,190	370	6,560	1,195	26	10	-	1,231	7,791	81	501	8,373
All nonfatal disabling----	6,309	380	6,689	1,229	28	10	-	1,267	7,956	82	507	8,545
All disabling injuries----	6,399	387	6,786	1,253	30	10	-	1,293	8,079	82	517	8,678
Nondisabling injuries-----	4,820	432	5,252	1,184	28	6	-	1,218	6,470	122	675	7,267
All injuries-----	11,219	819	12,038	2,437	58	16	-	2,511	14,549	204	1,192	15,945
Days lost:												
Fatal-----	540,000	42,000	582,000	144,000	12,000	-	-	156,000	738,000	-	60,000	798,000
Nonfatal disabling:												
Permanent total-----	84,000	6,000	90,000	24,000	6,000	-	-	30,000	120,000	-	6,000	126,000
Permanent partial-----	58,543	3,920	62,463	26,037	75	-	-	26,112	88,575	110	3,770	92,455
Temporary total-----	275,909	15,328	291,237	41,174	1,886	114	-	43,174	334,411	3,035	19,819	357,265
All nonfatal disabling----	418,452	25,248	443,700	91,211	7,961	114	-	99,286	542,986	3,145	29,589	575,720
All disabling-----	958,452	67,248	1,025,700	235,211	19,961	114	-	255,286	1,280,986	3,145	89,589	1,373,720
Frequency rates:												
Per million man-hours:												
Fatal-----	0.52	0.39	0.51	0.33	1.06	-	-	0.35	0.46	-	0.41	0.45
Nonfatal disabling-----	36.38	21.14	34.95	16.83	14.86	35.16	-	16.85	29.85	14.77	20.56	28.79
All disabling injuries----	36.90	21.53	35.46	17.16	15.92	35.16	-	17.20	30.31	14.77	20.97	29.24
Nondisabling injuries-----	27.80	24.04	27.44	16.22	14.86	21.09	-	16.20	24.27	21.98	27.38	24.49
All injuries-----	64.70	45.57	62.90	33.38	30.78	56.25	-	33.40	54.58	36.75	48.35	53.73
Per million tons:												
Fatal-----	.34	-	.37	.08	.26	-	-	.09	.22	-	-	.24
Nonfatal disabling-----	23.90	-	25.34	4.20	3.70	6.08	-	4.20	14.06	-	-	15.10
All disabling injuries----	24.24	-	25.71	4.28	3.96	6.08	-	4.28	14.28	-	-	15.34
Nondisabling injuries-----	18.26	-	19.90	4.05	3.70	3.65	-	4.04	11.44	-	-	12.84
All injuries-----	42.50	-	45.60	8.33	7.66	9.73	-	8.32	25.72	-	-	28.18
Severity rates:												
Per million man-hours:												
Fatal-----	3,114	2,337	3,041	1,972	6,369	-	-	2,075	2,769	-	2,434	2,689
Nonfatal disabling-----	2,413	1,405	2,318	1,249	4,225	401	-	1,321	2,037	567	1,200	1,940
All disabling injuries----	5,527	3,742	5,359	3,222	10,594	401	-	3,395	4,805	567	3,634	4,629
Per million tons:												
Fatal-----	2,046	-	2,205	492	1,585	-	-	517	1,304	-	-	1,410
Nonfatal disabling-----	1,585	-	1,681	312	1,052	69	-	329	960	-	-	1,018
All disabling injuries----	3,631	-	3,886	804	2,637	69	-	846	2,264	-	-	2,428
Average severity:												
Permanent partial-----	558	436	548	868	75	-	-	942	611	110	754	612
Temporary total-----	45	41	44	34	73	11	-	35	43	37	40	43
All disabling injuries----	150	174	151	188	665	11	-	197	159	38	173	158

TABLE 8. - Number of injuries and frequency and severity rates at coal mines in the United States, by degree of injury, 1974

Degree of injury	Bituminous coal mines			Pennsylvania anthracite mines			All coal mines		
	Number of injuries	Injury rates		Number of injuries	Injury rates		Number of injuries	Injury rates	
		Frequency	Severity		Frequency	Severity		Frequency	Severity
Fatal-----	131	0.45	2,695	2	0.39	2,351	133	0.45	2,689
Permanent total-----	21	.07	432	-	-	-	21	.07	425
Permanent partial-----	151	.52	317	-	-	-	151	.51	312
Temporary total-----	8,126	27.86	1,197	247	48.40	1,568	8,373	28.21	1,204
All nonfatal disabling---	8,298	28.45	1,946	247	48.40	1,568	8,545	28.79	1,940
All disabling-----	8,429	28.90	4,641	249	48.79	3,919	8,678	29.24	4,629
Nondisabling-----	6,895	23.64	-	372	72.89	-	7,267	24.49	-
All injuries-----	15,324	52.54	-	621	121.68	-	15,945	53.73	-

TABLE 9. - Comparative injury data at bituminous coal operations (mines and mechanical cleaning plants) with and without fatalities in the United States, 1974

	Operations reporting fatal injuries	Operations reporting no fatal injuries	All bituminous coal operations
Number of operations <u>1/</u> -----	115	3,730	3,845
Production-----short tons-----	59,337,890	501,501,873	560,839,763
Proportion of total tonnage-----percent-----	10.6	89.4	100.0
Number of employees-----	18,741	154,847	173,588
Proportion of total employees-----percent-----	10.8	89.2	100.0
Number of employees per operation-----	163	42	45
Man-hours worked-----	34,530,387	257,141,650	291,672,037
Average hours worked per man-----	1,843	1,661	1,680
Production per man-hour-----	1.72	1.95	1.92
Number of fatalities-----	131	-	131
Number of nonfatal disabling injuries-----	899	7,399	8,298
Number of nondisabling injuries-----	1,057	5,838	6,895
Fatality rate per million man-hours-----	3.79	-	.45
Nonfatal disabling injury rate per million man-hours-----	26.04	28.77	28.45
Nondisabling injury rate per million man-hours-----	30.61	22.70	23.64

1/ Includes total of 3,147 mines and 697 mechanical cleaning plants.

TABLE 10. - Comparative injury data at Pennsylvania anthracite operations (mines and mechanical cleaning plants) with and without fatalities in the United States, 1974

	Operations reporting fatal injuries	Operations reporting no fatal injuries	All anthracite coal operations
Number of operations <u>1/</u> -----	2	235	237
Production-----short tons-----	61,664	4,872,236	4,933,900
Proportion of total tonnage-----percent-----	1.2	98.8	100.0
Number of employees-----	16	3,393	3,409
Proportion of total employees-----percent-----	.5	99.5	100.0
Number of employees per operation-----	8	14	14
Man-hours worked-----	31,327	5,072,063	5,103,390
Average hours worked per man-----	1,958	1,495	1,497
Production per man-hour-----	1.97	.96	.97
Number of fatalities-----	2	-	2
Number of nonfatal disabling injuries-----	3	244	247
Number of nondisabling injuries-----	-	372	372
Fatality rate per million man-hours-----	63.84	-	.39
Nonfatal disabling injury rate per million man-hours-----	95.76	48.11	48.40
Nondisabling injury rate per million man-hours-----	-	73.34	72.89

1/ Includes total of 167 and 70 mechanical cleaning plants.

TABLE 11. - Number of injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974

Principal cause of injury	Bituminous coal mines					Pennsylvania anthracite mines					All coal mines				
	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries
Underground mines:															
Underground:															
Falls of roof or back-----	43	806	849	414	1,263	-	2	2	-	2	43	808	851	414	1,265
Falls of face or rib-----	4	220	224	109	333	-	3	3	3	6	4	223	227	112	339
Pressure bumps or bursts-----	1	2	3	9	12	-	-	-	-	-	1	2	3	9	12
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects----	3	146	149	107	256	-	5	5	3	8	3	151	154	110	264
Slips or falls of persons-----	-	385	385	344	729	-	3	3	-	3	-	388	388	344	732
Handling material-----	-	1,578	1,578	1,241	2,818	-	10	10	2	12	-	1,588	1,588	1,243	2,830
Handtools-----	-	406	406	623	1,029	-	5	5	-	5	-	411	411	623	1,034
Stepping or kneeling on sharp or loose objects-----	1	132	133	127	260	-	-	-	1	1	1	132	133	128	261
Striking or bumping against objects-----	-	64	64	68	132	-	-	-	-	-	-	64	64	68	132
Haulage-----	15	1,092	1,107	727	1,834	-	11	11	3	14	15	1,103	1,118	730	1,848
Explosions of gas or dust-----	-	3	3	3	6	-	-	-	-	-	-	3	3	3	6
Explosives-----	-	26	26	16	42	1	-	1	1	2	1	26	27	17	44
Electricity-----	4	190	194	183	377	-	1	1	-	1	4	191	195	183	378
Machinery-----	17	1,097	1,114	678	1,792	-	1	1	3	4	17	1,098	1,115	681	1,796
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	1	5	6	3	9	-	-	-	-	-	1	5	6	3	9
Miscellaneous causes-----	-	114	114	152	267	-	2	2	-	2	-	116	116	152	269
Total-----	89	6,266	6,355	4,804	11,159	1	43	44	16	60	90	6,309	6,399	4,820	11,219
Surface:															
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects----	1	11	12	18	30	-	1	1	-	1	1	12	13	18	31
Slips or falls of persons-----	-	61	61	60	121	-	1	1	-	1	-	62	62	60	122
Handling material-----	-	125	125	131	256	-	1	1	-	1	-	126	126	131	257
Handtools-----	-	19	19	58	77	-	-	-	-	-	-	19	19	58	77
Stepping or kneeling on sharp or loose objects-----	-	5	5	7	12	-	-	-	-	-	-	5	5	7	12
Striking or bumping against objects-----	-	3	3	5	8	-	-	-	-	-	-	3	3	5	8
Haulage-----	4	74	78	60	138	1	-	1	-	1	5	74	79	60	139
Explosions of gas or dust-----	-	3	3	-	3	-	-	-	-	-	-	3	3	-	3
Explosives-----	-	1	1	-	1	-	-	-	-	-	-	1	1	-	1
Electricity-----	1	7	8	11	19	-	-	-	-	-	1	7	8	11	19
Machinery-----	-	42	42	34	76	-	-	-	-	-	-	42	42	34	76
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	2	2	1	3	-	-	-	-	-	-	2	2	1	3
Miscellaneous causes-----	-	23	23	47	70	-	1	1	-	1	-	24	24	47	71
Total-----	6	376	382	432	814	1	4	5	-	5	7	380	387	432	819
Total, underground mines-----	95	6,642	6,737	5,236	11,973	2	47	49	16	65	97	6,689	6,786	5,252	12,038

TABLE 11. - Number of injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974 - Continued

Principal cause of injury	Bituminous coal mines					Pennsylvania anthracite mines					All coal mines				
	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries
Strip mines:															
Falls of face or side-----	-	14	14	5	19	-	-	-	-	-	-	14	14	5	19
Sliding or falling material or objects-----	1	34	35	19	54	-	4	4	1	5	1	38	39	20	59
Slips or falls of persons-----	1	259	260	146	406	-	22	22	32	54	1	281	282	178	460
Handling material-----	-	235	235	266	501	-	19	19	34	53	-	254	254	300	554
Handtools-----	-	99	99	193	292	-	6	6	25	31	-	105	105	218	323
Stepping or kneeling on sharp or loose objects-----	-	25	25	17	42	-	3	3	3	6	-	28	28	20	48
Striking or bumping against objects-----	-	3	3	12	15	-	-	-	3	3	-	3	3	15	18
Haulage-----	2	156	158	118	276	-	11	11	16	27	2	167	169	134	303
Explosions of gas or dust-----	-	2	2	2	4	-	-	-	-	-	-	2	2	2	4
Explosives-----	1	7	8	1	9	-	-	-	-	-	1	7	8	1	9
Electricity-----	2	8	10	7	17	-	-	-	-	-	2	8	10	7	17
Machinery-----	15	199	214	142	356	-	6	6	12	18	15	205	220	154	374
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	3	3	1	4	-	2	2	2	2	-	5	5	1	6
Miscellaneous causes-----	2	103	105	108	213	-	9	9	21	30	2	112	114	129	243
Total-----	24	1,147	1,171	1,037	2,208	-	82	82	147	229	24	1,229	1,253	1,184	2,437
Other surface mining: U															
Falls of face or side-----	-	2	2	-	2	-	-	-	-	-	-	2	2	-	2
Sliding or falling material or objects-----	1	1	2	1	3	-	-	-	-	-	1	1	2	1	3
Slips or falls of persons-----	-	2	2	4	6	-	1	1	2	3	-	3	3	6	9
Handling material-----	-	6	6	10	16	-	3	3	1	4	-	9	9	11	20
Handtools-----	-	3	3	3	6	-	1	1	-	1	-	4	4	3	7
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	1	2	3	1	4	-	1	1	-	1	1	3	4	1	5
Electricity-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	8	8	8	16	-	1	1	1	2	-	9	9	9	18
Miscellaneous causes-----	-	4	4	1	5	-	3	3	2	5	-	7	7	3	10
Total-----	2	28	30	28	58	-	10	10	6	16	2	38	40	34	74
Total, surface-----	26	1,175	1,201	1,065	2,266	-	92	92	153	245	26	1,267	1,293	1,218	2,511
Total, mining-----	121	7,817	7,938	6,301	14,239	2	139	141	169	310	123	7,956	8,079	6,470	14,549

See footnote at end of table.

TABLE 11. - Number of injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974 - Continued

Principal cause of injury	Bituminous coal mines					Pennsylvania anthracite mines					All coal mines				
	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries	Fatal	Nonfatal disabling	Total disabling	Non-disabling	All injuries
Independent shops and yards:															
Sliding or falling material or objects-----	-	3	3	3	6	-	-	-	1	1	-	3	3	4	7
Slips or falls of persons-----	-	7	7	7	14	-	-	-	2	2	-	7	7	9	16
Handling material-----	-	25	25	30	55	-	4	4	8	12	-	29	29	38	67
Handtools-----	-	8	8	19	27	-	2	2	6	8	-	10	10	25	35
Stepping or kneeling on sharp or loose objects-----	-	1	1	2	3	-	-	-	1	1	-	1	1	3	4
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	-	7	7	5	12	-	1	1	-	1	-	8	8	5	13
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	1	1	1	2	-	-	-	-	-	-	1	1	1	2
Electricity-----	-	12	12	12	24	-	2	2	2	4	-	14	14	14	28
Machinery-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suffocation (no flame or smoldering)-----	-	1	1	-	1	-	-	-	-	-	-	1	1	-	1
Fires or suffocation from fires-----	-	6	6	12	18	-	2	2	11	13	-	8	8	23	31
Miscellaneous causes-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	-	71	71	91	162	-	11	11	31	42	-	82	82	122	204
Mechanical cleaning plants:															
Falls of face or side-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	3	10	13	14	27	-	3	3	3	6	3	13	16	17	33
Slips or falls of persons-----	2	73	75	69	144	-	23	23	29	52	2	96	98	98	196
Handling material-----	-	106	106	151	257	-	32	32	53	85	-	138	138	204	342
Handtools-----	-	30	30	63	93	-	13	13	32	45	-	43	43	95	138
Stepping or kneeling on sharp or loose objects-----	-	10	10	10	20	-	1	1	4	5	-	11	11	14	25
Striking or bumping against objects-----	-	3	3	6	9	-	1	1	4	5	-	4	4	10	14
Haulage-----	1	87	88	66	154	-	11	11	16	27	1	98	99	82	181
Explosions of gas or dust-----	-	3	3	1	4	-	-	-	-	-	-	3	3	1	4
Explosives-----	-	-	-	2	2	-	-	-	-	-	-	-	-	2	2
Electricity-----	1	14	15	6	21	-	-	-	2	2	1	14	15	8	23
Machinery-----	3	38	41	46	87	-	3	3	9	12	3	41	44	55	99
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	1	1	1	2	-	-	-	-	-	-	1	1	1	2
Miscellaneous causes-----	-	35	35	68	103	-	10	10	20	30	-	45	45	88	133
Total-----	10	410	420	503	923	-	97	97	172	269	10	507	517	675	1,192
Grand total-----	131	8,298	8,429	6,895	15,324	2	247	249	372	621	133	8,545	8,678	7,267	15,945

1/ Includes bituminous coal sugar mines and anthracite culm banks and dredges.

TABLE 12. - Days of disability from injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974

Principal cause of injury	Bituminous coal mines			Pennsylvania anthracite mines			All coal mines		
	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling
Underground mines:									
Underground:									
Falls of roof or back-----	258,000	93,667	351,667	-	77	77	258,000	93,744	351,744
Falls of face or rib-----	24,000	21,443	45,443	-	358	358	24,000	21,801	45,801
Pressure bumps or bursts-----	6,000	3	6,003	-	-	-	6,000	3	6,003
Inrush of water-----	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects--	18,000	6,302	24,302	-	195	195	18,000	6,497	24,497
Slips or falls of persons-----	-	22,528	22,528	-	261	261	-	22,789	22,789
Handling material-----	-	59,375	59,375	-	203	203	-	59,578	59,578
Handtools-----	-	12,664	12,664	-	23	23	-	12,687	12,687
Stepping or kneeling on sharp or loose objects-----	6,000	3,991	9,991	-	-	-	6,000	3,991	9,991
Striking or bumping against objects----	-	1,392	1,392	-	-	-	-	1,392	1,392
Haulage-----	90,000	92,997	182,997	-	216	216	90,000	93,213	183,213
Explosions of gas or dust-----	-	58	58	-	-	-	-	58	58
Explosives-----	-	6,707	6,707	6,000	-	6,000	6,000	6,707	12,707
Electricity-----	24,000	4,597	28,597	-	16	16	24,000	4,613	28,613
Machinery-----	102,000	87,544	189,544	-	55	55	102,000	87,599	189,599
Suffocation (no flame or smoldering)----	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	6,000	63	6,063	-	-	-	6,000	63	6,063
Miscellaneous causes-----	-	3,668	3,668	-	49	49	-	3,717	3,717
Total-----	534,000	416,999	950,999	6,000	1,453	7,453	540,000	418,452	958,452
Surface:									
Falls of roof or back-----	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects--	6,000	305	6,305	-	15	15	6,000	320	6,320
Slips or falls of persons-----	-	1,906	1,906	-	75	75	-	1,981	1,981
Handling material-----	-	7,928	7,928	-	4	4	-	7,932	7,932
Handtools-----	-	535	535	-	-	-	-	535	535
Stepping or kneeling on sharp or loose objects-----	-	77	77	-	-	-	-	77	77
Striking or bumping against objects----	-	14	14	-	-	-	-	14	14
Haulage-----	24,000	10,390	34,390	6,000	-	6,000	30,000	10,390	40,390
Explosions of gas or dust-----	-	45	45	-	-	-	-	45	45
Explosives-----	-	17	17	-	-	-	-	17	17
Electricity-----	6,000	132	6,132	-	-	-	6,000	132	6,132
Machinery-----	-	2,432	2,432	-	-	-	-	2,432	2,432
Suffocation (no flame or smoldering)----	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	893	893	-	-	-	-	893	893
Miscellaneous causes-----	-	476	476	-	4	4	-	480	480
Total-----	36,000	25,150	61,150	6,000	98	6,098	42,000	25,248	67,248
Total, underground mines-----	570,000	442,149	1,012,149	12,000	1,551	13,551	582,000	443,700	1,025,700

TABLE 12. - Days of disability from injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974 - Continued

Principal cause of injury	Bituminous coal mines			Pennsylvania anthracite mines			All coal mines		
	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling
Strip mines:									
Falls of face or side-----	-	394	394	-	-	-	-	394	394
Sliding or falling material or objects----	6,000	1,944	7,944	-	51	51	6,000	1,995	7,995
Slips or falls of persons-----	6,000	15,433	21,433	-	895	895	6,000	16,328	22,328
Handling material-----	-	6,534	6,534	-	372	372	-	6,906	6,906
Handtools-----	-	13,491	13,491	-	114	114	-	13,605	13,605
Stepping or kneeling on sharp or loose objects-----	-	532	532	-	12	12	-	544	544
Striking or bumping against objects-----	-	41	41	-	-	-	-	41	41
Haulage-----	12,000	4,996	16,996	-	987	987	12,000	5,983	17,983
Explosions of gas or dust-----	-	12	12	-	-	-	-	12	12
Explosives-----	6,000	11,698	17,698	-	-	-	6,000	11,698	17,698
Electricity-----	12,000	304	12,304	-	-	-	12,000	304	12,304
Machinery-----	90,000	31,186	121,186	-	237	237	90,000	31,423	121,423
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	99	99	-	69	69	-	168	168
Miscellaneous causes-----	12,000	1,749	13,749	-	61	61	12,000	1,810	13,810
Total-----	144,000	88,413	232,413	-	2,798	2,798	144,000	91,211	235,211
Other surface mining: <u>1</u>									
Falls of face or side-----	-	51	51	-	-	-	-	51	51
Sliding or falling material or objects----	6,000	2	6,002	-	-	-	6,000	2	6,002
Slips or falls of persons-----	-	6,084	6,084	-	3	3	-	6,087	6,087
Handling material-----	-	355	355	-	18	18	-	373	373
Handtools-----	-	153	153	-	46	46	-	199	199
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-
Haulage-----	6,000	618	6,618	-	5	5	6,000	623	6,623
Electricity-----	-	-	-	-	-	-	-	-	-
Machinery-----	-	667	667	-	3	3	-	670	670
Miscellaneous causes-----	-	31	31	-	39	39	-	70	70
Total-----	12,000	7,961	19,961	-	114	114	12,000	8,075	20,075
Total, surface-----	156,000	96,374	252,374	-	2,912	2,912	156,000	99,286	255,286
Total, mining-----	726,000	538,523	1,264,523	12,000	4,463	16,463	738,000	542,986	1,280,986

See footnote at end of table.

TABLE 12. - Days of disability from injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974 - Continued

Principal cause of injury	Bituminous coal mines			Pennsylvania anthracite mines			All coal mines		
	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling	Fatal	Nonfatal disabling	Total disabling
Independent shops and yards:									
Sliding or falling material or objects-----	-	246	246	-	-	-	-	246	246
Slips or falls of persons-----	-	241	241	-	-	-	-	241	241
Handling material-----	-	747	747	-	80	80	-	827	827
Handtools-----	-	556	556	-	7	7	-	563	563
Stepping or kneeling on sharp or loose objects-----	-	4	4	-	-	-	-	4	4
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-
Haulage-----	-	324	324	-	79	79	-	403	403
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-
Electricity-----	-	19	19	-	-	-	-	19	19
Machinery-----	-	743	743	-	14	14	-	757	757
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	38	38	-	-	-	-	38	38
Miscellaneous causes-----	-	45	45	-	2	2	-	47	47
Total-----	-	2,963	2,963	-	182	182	-	3,145	3,145
Mechanical cleaning plants:									
Sliding or falling material or objects-----	18,000	161	18,161	-	31	31	18,000	192	18,192
Slips or falls of persons-----	12,000	2,340	14,340	-	1,000	1,000	12,000	3,340	15,340
Handling material-----	-	4,333	4,333	-	788	788	-	5,121	5,121
Handtools-----	-	826	826	-	155	155	-	981	981
Stepping or kneeling on sharp or loose objects-----	-	216	216	-	2	2	-	218	218
Striking or bumping against objects-----	-	207	207	-	22	22	-	229	229
Haulage-----	6,000	8,046	14,046	-	1,013	1,013	6,000	9,059	15,059
Explosions of gas or dust-----	-	295	295	-	-	-	-	295	295
Explosives-----	-	-	-	-	-	-	-	-	-
Electricity-----	6,000	529	6,529	-	-	-	6,000	529	6,529
Machinery-----	18,000	8,490	26,490	-	119	119	18,000	8,609	26,609
Suffocation (no flame or smoldering)-----	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	13	13	-	-	-	-	13	13
Miscellaneous causes-----	-	776	776	-	227	227	-	1,003	1,003
Total-----	60,000	26,232	86,232	-	3,357	3,357	60,000	29,589	89,589
Grand total-----	786,000	567,718	1,353,718	12,000	8,002	20,002	798,000	575,720	1,373,720

1/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 13. - Average severity of all disabling injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974

Principal cause of injury	Bituminous coal mines	Pennsylvania anthracite mines	All coal mines
Underground mines:			
Underground:			
Falls of roof or back-----	414	38	413
Falls of face or rib-----	203	119	202
Pressure bumps or bursts-----	2,001	-	2,001
Inrush of water-----	-	-	-
Sliding or falling material or objects-----	163	39	159
Slips or falls of persons-----	59	87	59
Handling material-----	38	20	38
Handtools-----	31	5	31
Stepping or kneeling on sharp or loose objects-----	75	-	75
Striking or bumping against objects-----	22	-	22
Haulage-----	165	20	164
Explosions of gas or dust-----	19	-	19
Explosives-----	258	6,000	471
Electricity-----	147	16	147
Machinery-----	170	55	170
Suffocation (no flame or smoldering)-----	-	-	-
Fires or suffocation from fires-----	1,010	-	1,010
Miscellaneous causes-----	32	24	32
Total-----	150	169	150
Surface:			
Falls of roof or back-----	-	-	-
Sliding or falling material or objects-----	525	15	486
Slips or falls of persons-----	31	75	32
Handling material-----	63	4	63
Handtools-----	28	-	28
Stepping or kneeling on sharp or loose objects-----	15	-	15
Striking or bumping against objects-----	5	-	5
Haulage-----	441	6,000	511
Explosions of gas or dust-----	15	-	15
Explosives-----	17	-	17
Electricity-----	766	-	766
Machinery-----	58	-	58
Suffocation (no flame or smoldering)-----	-	-	-
Fires or suffocation from fires-----	446	-	446
Miscellaneous causes-----	21	4	20
Total-----	160	1,220	174
Total, underground mines-----	150	277	151
Strip mines:			
Falls of face or side-----	28	-	28
Sliding or falling material or objects-----	227	13	205
Slips or falls of persons-----	82	41	79
Handling material-----	28	20	27
Handtools-----	136	19	130
Stepping or kneeling on sharp or loose objects-----	21	4	19
Striking or bumping against objects-----	14	-	14
Haulage-----	108	90	106
Explosions of gas or dust-----	6	-	6
Explosives-----	2,212	-	2,212
Electricity-----	1,230	-	1,230
Machinery-----	566	40	552
Suffocation (no flame or smoldering)-----	-	-	-
Fires or suffocation from fires-----	33	34	34
Miscellaneous causes-----	131	7	121
Total-----	198	34	188

TABLE 13. - Average severity of all disabling injuries at coal mines in the United States, by principal cause of injury, kind of coal, and general work location, 1974 - Continued

Principal cause of injury	Bituminous coal mines	Pennsylvania anthracite mines	All coal mines
Other surface mining: 1/			
Falls of face or side-----	26	-	26
Sliding or falling material or objects-----	3,001	-	3,001
Slips or falls of persons-----	3,042	3	2,029
Handling material-----	59	6	41
Handtools-----	51	46	50
Stepping or kneeling on sharp or loose objects---	-	-	-
Striking or bumping against objects-----	-	-	-
Haulage-----	2,206	5	1,656
Electricity-----	-	-	-
Machinery-----	83	3	74
Miscellaneous causes-----	8	13	10
Total-----	665	11	502
Total, surface-----	210	32	197
Total, mining-----	159	117	159
Independent shops and yards:			
Sliding or falling material or objects-----	82	-	82
Slips or falls of persons-----	34	-	34
Handling material-----	30	20	29
Handtools-----	70	4	56
Stepping or kneeling on sharp or loose objects---	4	-	4
Striking or bumping against objects-----	-	-	-
Haulage-----	46	79	50
Explosions of gas or dust-----	-	-	-
Explosives-----	-	-	-
Electricity-----	19	-	19
Machinery-----	62	7	54
Suffocation (no flame or smoldering)-----	-	-	-
Fires or suffocation from fires-----	38	-	38
Miscellaneous causes-----	8	1	6
Total-----	42	17	38
Mechanical cleaning plants:			
Sliding or falling material or objects-----	1,397	10	1,137
Slips or falls of persons-----	191	43	157
Handling material-----	41	25	37
Handtools-----	28	12	23
Stepping or kneeling on sharp or loose objects---	22	2	20
Striking or bumping against objects-----	69	22	57
Haulage-----	160	92	152
Explosions of gas or dust-----	98	-	98
Explosives-----	-	-	-
Electricity-----	435	-	435
Machinery-----	646	40	605
Suffocation (no flame or smoldering)-----	-	-	-
Fires or suffocation from fires-----	13	-	13
Miscellaneous causes-----	22	23	22
Total-----	205	35	173
Grand total-----	161	80	158

1/ Includes bituminous coal sugar mines and anthracite culm banks and dredges.

TABLE 14. - Number and average severity of injuries at bituminous coal mines by occupation at the time of injury, general work location, and degree of injury, 1974

Occupation at time of injury and general work location	Number of injuries							Distri- bution of all disabling injuries percent	Average severity			
	Fatal	Nonfatal disabling			All disabling injuries	Non- disabling injuries	All injuries		Permanent partial injuries	Temporary total injuries	All disabling injuries	
		Permanent		Temporary total								
		Total	Partial									
Underground mines:												
Underground:												
Continuous miner operators/helpers-----	15	1	8	452	461	476	349	825	7.5	803	56	269
Cutting-machine operators/helpers-----	2	-	2	98	100	102	52	154	1.6	990	40	175
Loading-machine operators/helpers-----	7	1	3	197	201	208	148	356	3.3	147	55	285
Roof bolters/helpers-----	12	4	20	978	1,002	1,014	691	1,705	16.0	275	51	149
Timbermen and jacksetters-----	6	-	8	301	309	315	116	431	5.0	596	31	159
Belt and boom operators-----	2	1	2	311	314	316	172	488	5.0	2,444	36	108
Trainmen-----	3	-	9	263	272	275	258	533	4.3	196	53	123
Shuttle/scoop operators-----	6	2	6	595	603	609	403	1,012	9.6	604	46	130
Electricians/helpers-----	-	-	2	174	176	176	164	340	2.8	160	37	39
Laborers-----	8	1	11	1,047	1,059	1,067	729	1,796	16.8	425	42	96
Mechanics, oilers and greasers-----	6	2	10	464	476	482	530	1,012	7.6	182	43	145
Supervisors and technical-----	4	-	5	99	104	108	177	285	1.7	770	37	291
Other, not elsewhere classified-----	17	2	19	1,167	1,188	1,205	1,015	2,220	19.0	973	42	150
Not stated-----	1	-	-	1	1	2	-	2	(1/)	-	45	3,022
Total or average-----	89	14	105	6,147	6,266	6,355	4,804	11,159	-	558	45	150
Surface:												
Bulldozer, grader, mobile equipment operators-----	1	-	1	13	14	15	14	29	3.9	60	39	437
Car droppers-----	-	-	-	9	9	9	16	25	2.4	-	63	63
Electricians/helpers-----	1	-	1	24	25	26	27	53	6.8	400	27	271
Laborers-----	1	1	-	80	81	82	85	167	21.5	-	44	189
Mechanics/helpers-----	-	-	3	63	66	66	96	164	17.3	140	34	39
Motormen and trainmen-----	2	-	1	5	6	8	3	11	2.1	2,400	-	44
Supervisors and technical-----	-	-	-	15	15	15	34	49	3.9	-	10	10
Truck drivers-----	-	-	-	18	18	18	20	38	4.7	-	28	28
Other, not elsewhere classified-----	-	-	3	139	142	142	135	277	37.2	213	50	54
Not stated-----	1	-	-	-	-	1	-	1	(1/)	-	-	6,000
Total or average-----	6	1	9	366	376	382	432	814	-	436	42	160
Total or average, underground mines (bituminous)-	95	15	114	6,513	6,642	6,737	5,236	11,973	-	548	44	150
Surface mines (includes strip, auger, culm bank, dredge and independent shops and yards):												
Auger operators/helpers-----	-	-	-	14	14	14	17	31	1.1	-	73	73
Bulldozer, grader, mobile equipment operators-----	6	-	2	236	238	244	164	408	19.2	476	35	185
Drillers/helpers-----	-	-	4	59	63	63	43	106	5.0	832	52	102
Electricians/helpers-----	2	-	-	24	24	26	47	73	2.0	-	20	480
Laborers-----	1	-	3	163	166	167	127	294	13.1	1,917	40	110
Mechanics/helpers-----	1	1	4	163	168	169	222	391	13.3	181	28	102
Oilers and greasers-----	3	-	6	125	131	134	78	212	10.5	862	31	202
Power shovel and dragline operators-----	-	3	3	46	52	52	50	102	4.1	1,897	41	492
Supervisors and technical-----	4	-	1	38	39	43	58	101	3.4	75	48	602
Truck drivers-----	1	-	3	112	115	116	75	191	9.1	142	37	91
Welders-----	3	-	3	110	113	116	159	275	9.1	1,099	31	213
Other, not elsewhere classified-----	3	1	3	119	123	126	116	242	9.9	270	34	229
Not stated-----	2	-	-	-	-	2	-	2	.2	-	-	6,000
Total or average-----	26	5	32	1,209	1,246	1,272	1,156	2,428	-	819	36	201

See footnote at end of table.

TABLE 14. - Number and average severity of injuries at bituminous coal mines, by occupation at the time of injury, general work location, and degree of injury, 1974 - Continued

Occupation at time of injury and general work location	Number of injuries								Distri- bution of all disabling injuries percent	Average severity		
	Fatal	Nonfatal disabling			All disabling injuries	Non- disabling injuries	All injuries	Permanent partial injuries		Temporary total injuries	All disabling injuries	
		Permanent		Temporary total								All nonfatal disabling injuries
		Total	Partial									
Mechanical cleaning plants:												
Bulldozer, grader, mobile equipment operators-----	3	-	-	18	18	21	17	38	5.0	-	54	904
Car droppers-----	1	-	-	39	39	40	31	71	9.5	-	64	213
Cleaning equipment operators-----	-	-	-	14	14	14	23	37	3.3	-	55	55
Laborers-----	-	1	1	103	105	105	128	233	25.0	3,000	31	116
Mechanics, oilers, greasers-----	-	-	1	72	73	73	100	173	17.4	150	44	46
Supervisors and technical-----	3	-	2	22	24	27	42	69	6.4	285	34	715
Tipple, scalper-screen operators-----	1	-	-	22	22	23	23	46	5.5	-	28	288
Truck drivers-----	-	-	-	20	20	20	15	35	4.8	-	28	28
Welders-----	-	-	1	23	24	24	48	72	5.7	50	33	34
Other, not elsewhere classified-----	2	-	-	71	71	73	76	149	17.4	-	45	208
Total or average-----	10	1	5	404	410	420	503	923	-	754	41	209
Grand total or average-----	131	21	151	8,126	8,298	8,429	6,895	15,324	-	612	43	161

1/ Less than 0.05.

TABLE 15. - Number and average severity of injuries at Pennsylvania anthracite mines, by occupation at the time of injury, general work location, and degree of injury, 1974

Occupation at time of injury and general work location	Number of injuries								Distri- bution of all disabling injuries percent	Average severity		
	Fatal	Nonfatal disabling			All disabling injuries	Non- disabling injuries	All injuries	Permanent partial injuries		Temporary total injuries	All disabling injuries	
		Permanent		Temporary total								All nonfatal disabling injuries
		Total	Partial									
Underground mines:												
Underground:	-	-	-	3	3	3	-	3	6.8	-	9	9
Trainmen-----	-	-	-	38	38	38	10	48	86.4	-	37	37
Laborers-----	1	-	-	-	-	1	3	4	2.3	-	-	6,000
Supervisors and technical-----	-	-	-	2	2	2	3	5	4.5	-	6	6
Other, not elsewhere classified-----												
Total or average-----	1	-	-	43	43	44	16	60	-	-	34	169
Surface:												
Surface:	-	-	-	1	1	1	-	1	20.0	-	4	4
Laborers-----	-	-	-	1	1	1	-	1	20.0	-	4	4
Supervisors and technical-----	1	-	-	-	-	1	-	1	20.0	-	-	6,000
Truck drivers-----	-	-	-	2	2	2	-	2	40.0	-	45	45
Other, not elsewhere classified-----												
Total or average-----	1	-	-	4	4	5	-	5	-	-	24	1,220
Total or average, underground mines-----	2	-	-	47	47	49	16	65	-	-	33	277
Surface mines (includes strip, auger, culm bank, dredge, and independent shops and yards):												
Bulldozer, grader, mobile equipment operators-----	-	-	-	9	9	9	13	22	8.7	-	22	22
Drillers/helpers-----	-	-	-	10	10	10	6	16	9.7	-	25	25
Electricians/helpers-----	-	-	-	1	1	1	4	5	1.0	-	26	26
Laborers-----	-	-	-	9	9	9	23	32	8.7	-	28	28
Mechanics/helpers-----	-	-	-	18	18	18	31	49	17.5	-	48	48
Oilers and greasers-----	-	-	-	8	8	8	18	26	7.8	-	71	71
Power shovel and dragline operators-----	-	-	-	8	8	8	23	31	7.8	-	31	31
Supervisors and technical-----	-	-	-	3	3	3	9	12	2.9	-	7	7
Truck drivers-----	-	-	-	10	10	10	21	31	9.7	-	39	39
Welders-----	-	-	-	22	22	22	25	47	21.4	-	9	9
Other, not elsewhere classified-----	-	-	-	5	5	5	11	16	4.9	-	15	15
Total or average-----	-	-	-	103	103	103	184	287	-	-	30	30
Mechanical cleaning plants:												
Bulldozer, grader, mobile equipment operators-----	-	-	-	7	7	7	10	17	7.2	-	67	67
Car droppers-----	-	-	-	13	13	13	6	19	13.4	-	20	20
Cleaning equipment operators-----	-	-	-	3	3	3	3	6	3.1	-	5	5
Laborers-----	-	-	-	35	35	35	64	99	36.1	-	21	21
Mechanics, oilers and greasers-----	-	-	-	13	13	13	23	36	13.4	-	40	40
Supervisors and technical-----	-	-	-	4	4	4	11	15	4.1	-	6	6
Tippie, scalper-screen operators-----	-	-	-	-	-	-	4	4	-	-	-	-
Truck drivers-----	-	-	-	4	4	4	10	14	4.1	-	18	18
Welders-----	-	-	-	11	11	11	16	27	11.3	-	13	13
Other, not elsewhere classified-----	-	-	-	7	7	7	25	32	7.2	-	157	157
Total or average-----	-	-	-	97	97	97	172	269	-	-	35	35
Grand total or average-----	2	-	-	247	247	249	372	621	-	-	32	80

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Underground:						
First shift ^{1/}						
Hour of shift:						
1st-----	6	166	172	6.3	127	299
2nd-----	3	375	378	13.9	246	624
3rd-----	4	378	382	14.0	355	737
4th-----	13	401	414	15.2	330	744
5th-----	2	252	254	9.3	215	469
6th-----	10	318	328	12.0	262	590
7th-----	10	404	414	15.2	343	757
8th-----	2	288	290	10.6	202	492
9th-----	1	65	66	2.4	35	101
10th and over-----	-	27	27	1.0	27	54
Total first shift----	51	2,674	2,725	-	2,142	4,867
Second shift ^{2/}						
Hour of shift:						
1st-----	3	142	145	6.4	84	229
2nd-----	4	296	300	13.2	168	468
3rd-----	3	352	355	15.6	267	622
4th-----	3	325	328	14.4	241	569
5th-----	5	286	291	12.8	218	509
6th-----	2	306	308	13.5	210	518
7th-----	3	322	325	14.3	194	519
8th-----	-	169	169	7.4	106	275
9th-----	-	25	25	1.1	12	37
10th and over-----	-	29	29	1.3	15	44
Total second shift----	23	2,252	2,275	-	1,515	3,790
Third shift ^{3/}						
Hour of shift:						
1st-----	2	137	139	10.3	122	261
2nd-----	1	206	207	15.3	149	356
3rd-----	3	225	228	16.8	200	428
4th-----	1	187	188	13.9	178	366
5th-----	1	182	183	13.5	159	342
6th-----	6	167	173	12.8	145	318
7th-----	1	131	132	9.7	105	237
8th-----	-	77	77	5.7	70	147
9th-----	-	15	15	1.1	12	27
10th and over-----	-	13	13	1.0	7	20
Total third shift	15	1,340	1,355	-	1,147	2,502
All shifts						
Hour of shift:						
1st-----	11	445	456	7.2	333	789
2nd-----	8	877	885	13.9	563	1,448
3rd-----	10	955	965	15.2	822	1,787
4th-----	17	913	930	14.6	749	1,679
5th-----	8	720	728	11.5	592	1,320
6th-----	18	791	809	12.7	617	1,426
7th-----	14	857	871	13.7	642	1,513
8th-----	2	534	536	8.4	378	914
9th-----	1	105	106	1.7	59	165
10th and over-----	-	69	69	1.1	49	118
Total all shifts----	89	6,266	6,355	-	4,804	11,159

See footnotes at end of table.

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Surface at underground:						
First shift ^{1/}						
Hour of shift:						
1st-----	-	24	24	11.1	14	38
2nd-----	2	28	30	13.9	31	61
3rd-----	-	24	24	11.1	47	71
4th-----	-	32	32	14.8	39	71
5th-----	2	12	14	6.5	18	32
6th-----	1	21	22	10.2	29	51
7th-----	-	35	35	16.2	38	73
8th-----	1	15	16	7.4	23	39
9th-----	-	12	12	5.6	12	24
10th and over-----	-	7	7	3.2	7	14
Total first shift----	6	210	216	-	258	474
Second shift ^{2/}						
Hour of shift:						
1st-----	-	8	8	8.8	11	19
2nd-----	-	12	12	13.2	16	28
3rd-----	-	13	13	14.3	14	27
4th-----	-	8	8	8.8	17	25
5th-----	-	11	11	12.1	11	22
6th-----	-	17	17	18.7	17	34
7th-----	-	6	6	6.6	7	13
8th-----	-	7	7	7.7	3	10
9th-----	-	6	6	6.6	6	12
10th and over-----	-	3	3	3.3	4	7
Total second shift----	-	91	91	-	106	197
Third shift ^{3/}						
Hour of shift:						
1st-----	-	8	8	10.7	14	22
2nd-----	-	17	17	22.7	7	24
3rd-----	-	9	9	12.0	15	24
4th-----	-	4	4	5.3	4	8
5th-----	-	8	8	10.7	9	17
6th-----	-	13	13	17.3	4	17
7th-----	-	5	5	6.7	6	11
8th-----	-	5	5	6.7	5	10
9th-----	-	2	2	2.7	1	3
10th and over-----	-	4	4	5.3	3	7
Total third shift----	-	75	75	-	68	143
All shifts						
Hour of shift:						
1st-----	-	40	40	10.5	39	79
2nd-----	2	57	59	15.4	54	113
3rd-----	-	46	46	12.0	76	122
4th-----	-	44	44	11.5	60	104
5th-----	2	31	33	8.6	38	71
6th-----	1	51	52	13.6	50	102
7th-----	-	46	46	12.0	51	97
8th-----	1	27	28	7.3	31	59
9th-----	-	20	20	5.2	19	39
10th and over-----	-	14	14	3.7	14	28
Total all shifts----	6	376	382	-	432	814

See footnotes at end of table.

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations, by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Strip:						
First shift ¹/₁						
Hour of shift:						
1st-----	2	59	61	7.9	48	109
2nd-----	1	80	81	10.4	84	165
3rd-----	4	103	107	13.8	103	210
4th-----	2	84	86	11.1	110	196
5th-----	1	64	65	8.4	62	127
6th-----	1	67	68	8.8	51	119
7th-----	-	102	102	13.1	86	188
8th-----	2	88	90	11.6	77	167
9th-----	-	51	51	6.6	47	98
10th and over-----	1	64	65	8.4	61	126
Total first shift-----	14	762	776	-	729	1,505
Second shift ²/₂						
Hour of shift:						
1st-----	1	16	17	5.9	24	41
2nd-----	1	54	55	19.2	35	90
3rd-----	-	35	35	12.2	42	77
4th-----	-	32	32	11.1	22	54
5th-----	-	26	26	9.1	27	53
6th-----	1	45	46	16.0	23	69
7th-----	3	35	38	13.2	23	61
8th-----	-	20	20	7.0	19	39
9th-----	-	10	10	3.5	3	13
10th and over-----	-	8	8	2.8	4	12
Total second shift-----	6	281	287	-	222	509
Third shift ³/₃						
Hour of shift:						
1st-----	1	13	14	13.0	7	21
2nd-----	-	18	18	16.7	15	33
3rd-----	-	15	15	13.9	12	27
4th-----	-	16	16	14.8	11	27
5th-----	-	13	13	12.0	8	21
6th-----	-	8	8	7.4	8	16
7th-----	1	11	12	11.1	10	22
8th-----	2	6	8	7.4	11	19
9th-----	-	-	-	-	1	1
10th and over-----	-	4	4	3.7	3	7
Total third shift-----	4	104	108	-	86	194
All shifts						
Hour of shift:						
1st-----	4	88	92	7.9	79	171
2nd-----	2	152	154	13.2	134	288
3rd-----	4	153	157	13.4	157	314
4th-----	2	132	134	11.4	143	277
5th-----	1	103	104	8.9	97	201
6th-----	2	120	122	10.4	82	204
7th-----	4	148	152	13.0	119	271
8th-----	4	114	118	10.1	107	225
9th-----	-	61	61	5.2	51	112
10th and over-----	1	76	77	6.6	68	145
Total all shifts-----	24	1,147	1,171	-	1,037	2,208

See footnotes at end of table.

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Auger:						
First shift ^{1/}						
Hour of shift:						
1st-----	-	-	-	-	1	1
2nd-----	-	5	5	18.5	3	8
3rd-----	-	2	2	7.4	3	5
4th-----	-	5	5	18.5	4	9
5th-----	-	2	2	7.4	4	6
6th-----	-	4	4	14.8	2	6
7th-----	-	2	2	7.4	1	3
8th-----	-	2	2	7.4	5	7
9th-----	2	-	2	7.4	2	4
10th and over-----	-	3	3	11.1	3	6
Total first shift----	2	25	27	-	28	55
Second shift ^{2/}						
Hour of shift:						
1st-----	-	1	1	33.3	-	1
2nd-----	-	-	-	-	-	-
3rd-----	-	-	-	-	-	-
4th-----	-	1	1	33.3	-	1
5th-----	-	-	-	-	-	-
6th-----	-	-	-	-	-	-
7th-----	-	-	-	-	-	-
8th-----	-	-	-	-	-	-
9th-----	-	1	1	33.3	-	1
10th and over-----	-	-	-	-	-	-
Total second shift----	-	3	3	-	-	3
Third shift ^{3/}						
Hour of shift:						
1st-----	-	-	-	-	-	-
2nd-----	-	-	-	-	-	-
3rd-----	-	-	-	-	-	-
4th-----	-	-	-	-	-	-
5th-----	-	-	-	-	-	-
6th-----	-	-	-	-	-	-
7th-----	-	-	-	-	-	-
8th-----	-	-	-	-	-	-
9th-----	-	-	-	-	-	-
10th and over-----	-	-	-	-	-	-
Total third shift----	-	-	-	-	-	-
All shifts						
Hour of shift:						
1st-----	-	1	1	3.3	1	2
2nd-----	-	5	5	16.7	3	8
3rd-----	-	2	2	6.7	3	5
4th-----	-	6	6	20.0	4	10
5th-----	-	2	2	6.7	4	6
6th-----	-	4	4	13.3	2	6
7th-----	-	2	2	6.7	1	3
8th-----	-	2	2	6.7	5	7
9th-----	2	1	3	10.0	2	5
10th and over-----	-	3	3	10.0	3	6
Total all shifts----	2	28	30	-	28	58

See footnotes at end of table

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Independent shops and yards:						
First shift ^{1/}						
Hour of shift:						
1st-----	-	4	4	8.7	2	6
2nd-----	-	8	8	17.4	14	22
3rd-----	-	5	5	10.9	9	14
4th-----	-	8	8	17.4	5	13
5th-----	-	3	3	6.5	5	8
6th-----	-	7	7	15.2	8	15
7th-----	-	10	10	21.7	14	24
8th-----	-	1	1	2.2	3	4
9th-----	-	-	-	-	3	3
10th and over-----	-	-	-	-	-	-
Total first shift-----	-	46	46	-	63	109
Second shift ^{2/}						
Hour of shift:						
1st-----	-	-	-	-	-	-
2nd-----	-	4	4	21.1	2	6
3rd-----	-	1	1	5.3	4	5
4th-----	-	2	2	10.5	6	8
5th-----	-	2	2	10.5	2	4
6th-----	-	4	4	21.1	6	10
7th-----	-	2	2	10.5	1	3
8th-----	-	2	2	10.5	1	3
9th-----	-	1	1	5.3	-	1
10th and over-----	-	1	1	5.3	-	1
Total second shift-----	-	19	19	-	22	41
Third shift ^{3/}						
Hour of shift:						
1st-----	-	1	1	16.7	2	3
2nd-----	-	3	3	50.0	-	3
3rd-----	-	-	-	-	1	1
4th-----	-	-	-	-	-	-
5th-----	-	2	2	33.3	1	3
6th-----	-	-	-	-	1	1
7th-----	-	-	-	-	1	1
8th-----	-	-	-	-	-	-
9th-----	-	-	-	-	-	-
10th and over-----	-	-	-	-	-	-
Total third shift-----	-	6	6	-	6	12
All shifts						
Hour of shift:						
1st-----	-	5	5	7.0	4	9
2nd-----	-	15	15	21.1	16	31
3rd-----	-	6	6	8.5	14	20
4th-----	-	10	10	14.1	11	21
5th-----	-	7	7	9.9	8	15
6th-----	-	11	11	15.5	15	26
7th-----	-	12	12	16.9	16	28
8th-----	-	3	3	4.2	4	7
9th-----	-	1	1	1.4	3	4
10th and over-----	-	1	1	1.4	-	1
Total all shifts-----	-	71	71	-	91	162

See footnotes at end of table.

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Mechanical cleaning plants:						
First shift ^{1/}						
Hour of shift:						
1st-----	-	27	27	9.8	25	52
2nd-----	1	30	31	11.3	45	76
3rd-----	2	43	45	16.4	54	99
4th-----	-	37	37	13.5	48	85
5th-----	1	22	23	8.4	23	46
6th-----	4	25	29	10.5	34	63
7th-----	1	39	40	14.5	43	83
8th-----	-	22	22	8.0	29	51
9th-----	-	12	12	4.4	11	23
10th and over-----	-	9	9	3.3	15	24
Total first shift-----	9	266	275	-	327	602
Second shift ^{2/}						
Hour of shift:						
1st-----	1	11	12	13.8	8	20
2nd-----	-	15	15	17.2	22	37
3rd-----	-	11	11	12.6	14	25
4th-----	-	12	12	13.8	9	21
5th-----	-	7	7	8.0	12	19
6th-----	-	9	9	10.3	14	23
7th-----	-	11	11	12.6	17	28
8th-----	-	5	5	5.7	4	9
9th-----	-	1	1	1.1	6	7
10th and over-----	-	4	4	4.6	1	5
Total second shift-----	1	86	87	-	107	194
Third shift ^{3/}						
Hour of shift:						
1st-----	-	12	12	20.7	8	20
2nd-----	-	11	11	19.0	12	23
3rd-----	-	5	5	8.6	15	20
4th-----	-	2	2	3.4	13	15
5th-----	-	11	11	19.0	8	19
6th-----	-	4	4	6.9	6	10
7th-----	-	8	8	13.8	3	11
8th-----	-	4	4	6.9	-	4
9th-----	-	1	1	1.7	3	4
10th and over-----	-	-	-	-	1	1
Total third shift-----	-	58	58	-	69	127
All shifts						
Hour of shift:						
1st-----	1	50	51	12.1	41	92
2nd-----	1	56	57	13.6	79	136
3rd-----	2	59	61	14.5	83	144
4th-----	-	51	51	12.1	70	121
5th-----	1	40	41	9.8	43	84
6th-----	4	38	42	10.0	54	96
7th-----	1	58	59	14.0	63	122
8th-----	-	31	31	7.4	33	64
9th-----	-	14	14	3.3	20	34
10th and over-----	-	13	13	3.1	17	30
Total all shifts-----	10	410	420	-	503	923

See footnotes at end of table.

TABLE 16. - Hour of shift of injury occurrence at bituminous coal operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
All work locations:						
First shift ^{1/}						
Hour of shift:						
1st-----	8	280	288	7.1	217	505
2nd-----	7	526	533	13.1	423	956
3rd-----	10	555	565	13.9	571	1,136
4th-----	15	567	582	14.3	536	1,118
5th-----	6	355	361	8.9	327	688
6th-----	16	442	458	11.3	386	844
7th-----	11	592	603	14.8	525	1,128
8th-----	5	416	421	10.4	339	760
9th-----	3	140	143	3.5	110	253
10th and over-----	1	110	111	2.7	113	224
Total first shift-----	82	3,983	4,065	-	3,547	7,612
Second shift ^{2/}						
Hour of shift:						
1st-----	5	178	183	6.6	127	310
2nd-----	5	381	386	14.0	243	629
3rd-----	3	412	415	15.0	341	756
4th-----	3	380	383	13.9	295	678
5th-----	5	332	337	12.2	270	607
6th-----	3	381	384	13.9	270	654
7th-----	6	376	382	13.8	242	624
8th-----	-	203	203	7.3	133	336
9th-----	-	44	44	1.6	27	71
10th and over-----	-	45	45	1.6	24	69
Total second shift-----	30	2,732	2,762	-	1,972	4,734
Third shift ^{3/}						
Hour of shift:						
1st-----	3	171	174	10.9	153	327
2nd-----	1	255	256	16.0	183	439
3rd-----	3	254	257	16.0	243	500
4th-----	1	209	210	13.1	206	416
5th-----	1	216	217	13.5	185	402
6th-----	6	192	198	12.4	164	362
7th-----	2	155	157	9.8	125	282
8th-----	2	92	94	5.9	86	180
9th-----	-	18	18	1.1	17	35
10th and over-----	-	21	21	1.3	14	35
Total third shift-----	19	1,583	1,602	-	1,376	2,978
All shifts						
Hour of shift:						
1st-----	16	629	645	7.7	497	1,142
2nd-----	13	1,162	1,175	13.9	849	2,024
3rd-----	16	1,221	1,237	14.7	1,155	2,392
4th-----	19	1,156	1,175	13.9	1,037	2,212
5th-----	12	903	915	10.9	782	1,697
6th-----	25	1,015	1,040	12.3	820	1,860
7th-----	19	1,123	1,142	13.5	892	2,034
8th-----	7	711	718	8.5	558	1,276
9th-----	3	202	205	2.4	154	359
10th and over-----	1	176	177	2.1	151	328
Total all shifts-----	131	8,298	8,429	-	6,895	15,324

^{1/} Work shift starting anytime between 4:00 A.M. and 11:59 A.M.^{2/} Work shift starting anytime between 12:00 noon and 7:59 P.M.^{3/} Work shift starting anytime between 8:00 P.M. and 3:59 A.M.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Underground:						
First shift: 1/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	4	4	11.4	3	7
3rd -----	1	2	3	8.6	2	5
4th -----	-	8	8	22.9	3	11
5th -----	-	9	9	25.7	1	10
6th -----	-	1	1	2.9	-	1
7th -----	-	9	9	25.7	2	11
8th -----	-	1	1	2.9	-	1
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total first shift --	1	34	35	-	11	46
Second shift: 2/						
Hour of shift:						
1st -----	-	1	1	11.1	-	1
2nd -----	-	-	-	-	-	-
3rd -----	-	5	5	55.6	-	5
4th -----	-	2	2	22.2	-	2
5th -----	-	-	-	-	-	-
6th -----	-	1	1	11.1	2	3
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	1	1
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total second shift --	-	9	9	-	3	12
Third shift: 2/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	1	1
3rd -----	-	-	-	-	-	-
4th -----	-	-	-	-	-	-
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	1	1
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	-	-	-	2	2
All shifts:						
Hour of shift:						
1st -----	-	1	1	2.3	-	1
2nd -----	-	4	4	9.1	4	8
3rd -----	1	7	8	18.2	2	10
4th -----	-	10	10	22.7	3	13
5th -----	-	9	9	20.5	1	10
6th -----	-	2	2	4.5	2	4
7th -----	-	9	9	20.5	3	12
8th -----	-	1	1	2.3	1	2
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total all shifts ---	1	43	44	-	16	60

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Surface at underground:						
First shift: 1/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	1	1	20.0	-	1
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	1	1	20.0	-	1
8th -----	-	2	2	40.0	-	2
9th -----	1	-	1	20.0	-	1
10th and over -----	-	-	-	-	-	-
Total first shift --	1	4	5	-	-	5
Second shift: 2/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	-	-	-	-	-
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total second shift -	-	-	-	-	-	-
Third shift: 3/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	-	-	-	-	-
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	-	-	-	-	-
All shifts:						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	1	1	20.0	-	1
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	1	1	20.0	-	1
8th -----	-	2	2	40.0	-	2
9th -----	1	-	1	20.0	-	1
10th and over -----	-	-	-	-	-	-
Total all shifts ---	1	4	5	-	-	5

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Strip:						
First shift: 1/						
Hour of shift:						
1st -----	-	6	6	10.3	6	12
2nd -----	-	6	6	10.3	17	23
3rd -----	-	9	9	15.5	10	19
4th -----	-	12	12	20.7	24	36
5th -----	-	6	6	10.3	22	28
6th -----	-	2	2	3.4	3	5
7th -----	-	8	8	13.8	13	21
8th -----	-	6	6	10.3	9	15
9th -----	-	1	1	1.7	1	2
10th and over -----	-	2	2	3.4	2	4
Total first shift --	-	58	58	-	107	165
Second shift: 2/						
Hour of shift:						
1st -----	-	2	2	12.5	4	6
2nd -----	-	3	3	18.8	-	3
3rd -----	-	3	3	18.8	6	9
4th -----	-	3	3	18.8	4	7
5th -----	-	1	1	6.2	4	5
6th -----	-	1	1	6.2	5	6
7th -----	-	1	1	6.2	4	5
8th -----	-	2	2	12.5	2	4
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	1	1
Total second shift --	-	16	16	-	30	46
Third shift: 2/						
Hour of shift:						
1st -----	-	1	1	12.5	3	4
2nd -----	-	3	3	37.5	6	9
3rd -----	-	2	2	25.0	-	2
4th -----	-	-	-	-	-	-
5th -----	-	1	1	12.5	-	1
6th -----	-	1	1	12.5	-	1
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	1	1
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	8	8	-	10	18
All shifts:						
Hour of shift:						
1st -----	-	9	9	11.0	13	22
2nd -----	-	12	12	14.6	23	35
3rd -----	-	14	14	17.1	16	30
4th -----	-	15	15	18.3	28	43
5th -----	-	8	8	9.8	26	34
6th -----	-	4	4	4.9	8	12
7th -----	-	9	9	11.0	17	26
8th -----	-	8	8	9.8	12	20
9th -----	-	1	1	1.2	1	2
10th and over -----	-	2	2	2.4	3	5
Total all shifts ---	-	82	82	-	147	229

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Culm banks:						
First shift: 1/						
Hour of shift:						
1st -----	-	-	-	-	1	1
2nd -----	-	1	1	16.7	-	1
3rd -----	-	1	1	16.7	-	1
4th -----	-	2	2	33.3	-	2
5th -----	-	1	1	16.7	1	2
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	1	1
8th -----	-	1	1	16.7	1	2
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total first shift --	-	6	6	-	4	10
Second shift: 2/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	1	1	33.3	-	1
4th -----	-	-	-	-	1	1
5th -----	-	2	2	66.7	-	2
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	1	1
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total second shift -	-	3	3	-	2	5
Third shift: 3/						
Hour of shift:						
1st -----	-	1	1	100.0	-	1
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	-	-	-	-	-
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	1	1	-	-	1
All shifts:						
Hour of shift:						
1st -----	-	1	1	10.0	1	2
2nd -----	-	1	1	10.0	-	1
3rd -----	-	2	2	20.0	-	2
4th -----	-	2	2	20.0	1	3
5th -----	-	3	3	30.0	1	4
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	2	2
8th -----	-	1	1	10.0	1	2
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total all shifts ---	-	10	10	-	6	16

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Independent shops and yards:						
First shift: 1/						
Hour of shift:						
1st -----	-	1	1	11.1	-	1
2nd -----	-	1	1	11.1	3	4
3rd -----	-	4	4	44.4	2	6
4th -----	-	3	3	33.3	7	10
5th -----	-	-	-	-	7	7
6th -----	-	-	-	-	1	1
7th -----	-	-	-	-	4	4
8th -----	-	-	-	-	5	5
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total first shift --	-	9	9	-	29	38
Second shift: 2/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	1	1	50.0	1	2
4th -----	-	-	-	-	-	-
5th -----	-	1	1	50.0	1	2
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total second shift -	-	2	2	-	2	4
Third shift: 3/						
Hour of shift:						
1st -----	-	-	-	-	-	-
2nd -----	-	-	-	-	-	-
3rd -----	-	-	-	-	-	-
4th -----	-	-	-	-	-	-
5th -----	-	-	-	-	-	-
6th -----	-	-	-	-	-	-
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	-	-
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	-	-	-	-	-
All shifts:						
Hour of shift:						
1st -----	-	1	1	9.1	-	1
2nd -----	-	1	1	9.1	3	4
3rd -----	-	5	5	45.5	3	8
4th -----	-	3	3	27.3	7	10
5th -----	-	1	1	9.1	8	9
6th -----	-	-	-	-	1	1
7th -----	-	-	-	-	4	4
8th -----	-	-	-	-	5	5
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total all shifts ---	-	11	11	-	31	42

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations,
by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
Mechanical cleaning plants:						
First shift: 1/						
Hour of shift:						
1st -----	-	4	4	6.0	10	14
2nd -----	-	9	9	13.4	6	15
3rd -----	-	5	5	7.5	16	21
4th -----	-	10	10	14.9	18	28
5th -----	-	20	20	29.9	31	51
6th -----	-	2	2	3.0	3	5
7th -----	-	10	10	14.9	23	33
8th -----	-	6	6	9.0	11	17
9th -----	-	1	1	1.5	8	9
10th and over -----	-	-	-	-	6	6
Total first shift --	-	67	67	-	132	199
Second shift: 2/						
Hour of shift:						
1st -----	-	3	3	11.5	3	6
2nd -----	-	1	1	3.8	4	5
3rd -----	-	2	2	7.7	5	7
4th -----	-	5	5	19.2	4	9
5th -----	-	4	4	15.4	7	11
6th -----	-	6	6	23.1	8	14
7th -----	-	3	3	11.5	3	6
8th -----	-	2	2	7.7	1	3
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total second shift -	-	26	26	-	35	61
Third shift: 3/						
Hour of shift:						
1st -----	-	1	1	25.0	1	2
2nd -----	-	1	1	25.0	1	2
3rd -----	-	1	1	25.0	2	1
4th -----	-	-	-	-	-	2
5th -----	-	-	-	-	-	-
6th -----	-	1	1	25.0	-	1
7th -----	-	-	-	-	-	-
8th -----	-	-	-	-	1	1
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift --	-	4	4	-	5	9
All shifts:						
Hour of shift:						
1st -----	-	8	8	8.2	14	22
2nd -----	-	11	11	11.3	11	22
3rd -----	-	8	8	8.2	21	29
4th -----	-	15	15	15.5	24	39
5th -----	-	24	24	24.7	38	62
6th -----	-	9	9	9.3	11	20
7th -----	-	13	13	13.4	26	39
8th -----	-	8	8	8.2	13	21
9th -----	-	1	1	1.0	8	9
10th and over -----	-	-	-	-	6	6
Total all shifts ---	-	97	97	-	172	269

See footnotes at end of table.

TABLE 17. - Hour of shift of injury occurrence at Pennsylvania anthracite operations, by general work location, 1974 - Continued

Work location, shift designation, and hour of shift	Disabling injuries			Distribution of all disabling injuries, percent	Nondisabling injuries	All injuries
	Fatal	Nonfatal	All disabling			
All work locations:						
First shift: 1/						
Hour of shift:						
1st -----	-	11	11	6.1	17	28
2nd -----	-	21	21	11.7	29	50
3rd -----	1	21	22	12.2	30	52
4th -----	-	36	36	20.0	52	88
5th -----	-	36	36	20.0	62	98
6th -----	-	5	5	2.8	7	12
7th -----	-	28	28	15.6	43	71
8th -----	-	16	16	8.9	26	42
9th -----	1	2	3	1.7	9	12
10th and over -----	-	2	2	1.1	8	10
Total first shift ----	2	178	180	-	283	463
Second shift: 2/						
Hour of shift:						
1st -----	-	6	6	10.7	7	13
2nd -----	-	4	4	7.1	4	8
3rd -----	-	12	12	21.4	12	24
4th -----	-	10	10	17.9	9	19
5th -----	-	8	8	14.3	12	20
6th -----	-	8	8	14.3	15	23
7th -----	-	4	4	7.1	8	12
8th -----	-	4	4	7.1	4	8
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	1	1
Total second shift ----	-	56	56	-	72	128
Third shift: 3/						
Hour of shift:						
1st -----	-	3	3	23.1	4	7
2nd -----	-	4	4	30.8	8	12
3rd -----	-	3	3	23.1	-	3
4th -----	-	-	-	-	2	2
5th -----	-	1	1	7.7	-	1
6th -----	-	2	2	15.4	-	2
7th -----	-	-	-	-	1	1
8th -----	-	-	-	-	2	2
9th -----	-	-	-	-	-	-
10th and over -----	-	-	-	-	-	-
Total third shift ----	-	13	13	-	17	30
All shifts:						
Hour of shift:						
1st -----	-	20	20	8.0	28	48
2nd -----	-	29	29	11.6	41	70
3rd -----	1	36	37	14.9	42	79
4th -----	-	46	46	18.5	63	109
5th -----	-	45	45	18.1	74	119
6th -----	-	15	15	6.0	22	37
7th -----	-	32	32	12.9	52	84
8th -----	-	20	20	8.0	32	52
9th -----	1	2	3	1.2	9	12
10th and over -----	-	2	2	.8	9	11
Total all shifts ----	2	247	249	-	372	621

1/ Work shift starting anytime between 4:00 A.M. and 11:59 A.M.

2/ Work shift starting anytime between 12:00 noon and 7:59 P.M.

3/ Work shift starting anytime between 8:00 P.M. and 3:59 A.M.

TABLE 18. - Number of injuries, injury rates and average severity at bituminous coal mines in the United States, by part of body injured, 1974

General work location and part of body injured	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity			
	Fatal	Nonfatal disabling			All non-fatal disabling	All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling	
		Permanent		Temporary total																All non-fatal disabling
		Total	Partial																	
Underground mines:																				
Underground:																				
Head, face, neck (excl. eye)-----	11	-	1	453	454	465	483	948	7.3	0.06	2.63	2.69	2.79	382	98	480	18	37	178	
Eye-----	-	-	2	261	263	263	478	741	4.1	-	1.52	1.52	2.76	-	41	41	1,800	13	27	
Trunk-----	11	10	-	1,873	1,883	1,894	1,041	2,935	29.8	.06	10.89	10.96	6.02	382	904	1,285	-	51	117	
Arm (above wrist)-----	-	-	3	275	278	278	245	523	4.4	-	1.61	1.61	1.42	-	147	147	3,129	58	92	
Wrist, hand, fingers-----	-	-	84	1,184	1,268	1,268	1,307	2,575	20.0	-	7.33	7.33	7.56	-	338	338	3,500	30	46	
Leg (above ankle)-----	2	-	3	794	797	799	558	1,357	12.6	.01	4.61	4.62	3.23	69	337	406	494	60	88	
Ankle, foot, toes-----	1	-	10	811	821	822	451	1,273	12.9	.01	4.75	4.75	2.61	35	207	242	3,600	38	51	
Multiple-----	47	4	2	444	450	497	202	699	7.8	.27	2.60	2.87	1.17	1,631	329	1,960	-	58	682	
Unclassified (no data)---	17	-	-	52	52	69	39	108	1.1	.10	.30	.40	.23	590	11	602	-	38	1,507	
Total or average-----	89	14	105	6,147	6,266	6,355	4,804	11,159	-	.51	36.25	36.76	27.79	3,089	2,412	5,501	558	45	150	
Surface:																				
Head, face, neck (excl. eye)-----	-	-	-	27	27	27	31	58	7.1	-	1.51	1.51	1.74	-	25	25	-	17	17	
Eye-----	-	-	-	17	17	17	64	81	4.5	-	.95	.95	3.58	-	9	9	-	10	10	
Trunk-----	2	-	1	116	117	119	79	198	31.2	.11	6.55	6.66	4.42	672	401	1,073	2,400	41	161	
Arm (above wrist)-----	-	-	-	16	16	16	10	26	4.2	-	.90	.90	.56	-	27	27	-	30	30	
Wrist, hand, fingers-----	-	-	8	60	68	68	120	188	17.8	-	3.81	3.81	6.72	-	163	163	190	23	43	
Leg (above ankle)-----	-	-	-	38	38	38	48	86	9.9	-	2.13	2.13	2.69	-	130	130	-	61	61	
Ankle, foot, toes-----	-	-	-	62	62	62	53	115	16.2	-	3.47	3.47	2.97	-	154	154	-	44	44	
Multiple-----	2	1	-	28	29	31	24	55	8.1	.11	1.62	1.74	1.34	672	494	1,166	-	101	672	
Unclassified (no data)---	2	-	-	2	2	4	3	7	1.0	.11	.11	.22	.17	672	5	677	-	47	3,024	
Total or average-----	6	1	9	366	376	382	432	814	-	.34	21.05	21.39	24.19	2,016	1,408	3,424	436	42	160	
Total or average, underground mines-----	95	15	114	6,513	6,642	6,737	5,236	11,973	-	.50	34.82	35.32	27.45	2,988	2,318	5,307	548	44	150	
Strip mines:																				
Head, face, neck (excl. eye)-----	4	2	-	67	69	73	117	190	6.2	.06	.97	1.03	1.65	338	205	543	-	38	528	
Eye-----	-	-	-	71	71	71	146	217	6.1	-	1.00	1.00	2.06	-	10	10	-	10	10	
Trunk-----	2	-	-	348	348	350	186	536	29.9	.03	4.90	4.93	2.62	169	184	353	-	38	72	
Arm (above wrist)-----	-	-	1	51	52	52	67	119	4.4	-	.73	.73	.94	-	104	104	5,340	41	143	
Wrist, hand, fingers-----	-	-	24	147	171	171	297	468	14.6	-	2.41	2.41	4.19	-	109	109	200	20	45	
Leg (above ankle)-----	1	-	4	149	153	154	103	257	13.2	.01	2.16	2.17	1.45	85	303	387	3,750	43	178	
Ankle, foot, toes-----	-	-	1	155	156	156	72	228	13.3	-	2.20	2.20	1.01	-	84	84	900	33	38	
Multiple-----	9	2	-	108	110	119	36	155	10.2	.13	1.55	1.68	.51	761	237	998	-	44	595	
Unclassified (no data)---	8	-	-	17	17	25	13	38	2.1	.11	.24	.35	.18	676	11	687	-	45	1,950	
Total or average-----	24	4	30	1,113	1,147	1,171	1,037	2,208	-	.34	16.16	16.50	14.61	2,029	1,246	3,275	868	34	198	

TABLE 18. - Number of injuries, injury rates and average severity at bituminous coal mines in the United States, by part of body injured, 1974 - Continued

General work location and part of body injured	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Total	Partial
		Total	Partial																		
Auger mines:																					
Head, face, neck (excl. eye)-----	1	-	-	-	-	1	2	3	3.3	0.53	-	0.53	1.06	3,185	-	3,185	-	-	6,000		
Eye-----	-	-	-	3	3	3	4	7	10.0	-	1.59	1.59	2.12	-	23	23	-	15	15		
Trunk-----	-	1	-	6	7	7	2	9	23.3	-	3.72	3.72	1.06	-	3,579	3,579	-	124	963		
Arm (above wrist)-----	-	-	-	1	1	1	2	3	3.3	-	.53	.53	1.06	-	1	1	-	2	2		
Wrist, hand, fingers-----	-	-	1	3	4	4	11	15	13.3	-	2.12	2.12	5.84	-	146	146	75	67	69		
Leg (above ankle)-----	-	-	-	7	7	7	4	11	23.3	-	3.72	3.72	2.12	-	278	278	-	75	75		
Ankle, foot, toes-----	-	-	-	3	3	3	2	5	10.0	-	1.59	1.59	1.06	-	92	92	-	58	58		
Multiple-----	-	-	-	2	2	2	-	2	6.7	-	1.06	1.06	-	-	103	103	-	98	98		
Unclassified (no data)---	1	-	-	1	1	2	1	3	6.7	.53	.53	1.06	.53	3,185	2	3,187	-	4	3,002		
Total or average-----	2	1	1	26	28	30	28	58	-	1.06	14.86	15.92	14.86	6,369	4,225	10,594	75	73	665		
Total or average, surface-----	26	5	31	1,139	1,175	1,201	1,065	2,266	-	.36	16.13	16.48	14.62	2,141	1,323	3,464	842	35	210		
Total or average, mining-----	121	20	145	7,652	7,817	7,938	6,301	14,239	-	.46	29.65	30.11	23.90	2,754	2,043	4,797	611	43	159		
Independent shops and yards:																					
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	4	4	-	-	-	-	.75	-	-	-	-	-	-		
Eye-----	-	-	-	12	12	12	15	27	16.9	-	2.24	2.24	2.80	-	61	61	-	27	27		
Trunk-----	-	-	-	21	21	21	17	38	29.6	-	3.93	3.93	3.18	-	110	110	-	28	28		
Arm (above wrist)-----	-	-	-	1	1	1	6	7	1.4	-	.19	.19	1.12	-	2	2	-	13	13		
Wrist, hand, fingers-----	-	-	1	12	13	13	29	42	18.3	-	2.43	2.43	5.42	-	106	106	110	38	43		
Leg (above ankle)-----	-	-	-	10	10	10	11	21	14.1	-	1.87	1.87	2.06	-	172	172	-	92	92		
Ankle, foot, toes-----	-	-	-	11	11	11	7	18	15.5	-	2.06	2.06	1.31	-	67	67	-	32	32		
Multiple-----	-	-	-	2	2	2	2	4	2.8	-	.37	.37	.37	-	30	30	-	79	79		
Unclassified (no data)---	-	-	-	1	1	1	-	1	1.4	-	.19	.19	-	-	7	7	-	38	38		
Total or average-----	-	-	1	70	71	71	91	162	-	-	13.27	13.27	17.01	-	554	554	110	41	42		
Mechanical cleaning:																					
Head-----	3	-	-	18	18	21	48	69	5.0	.13	.79	.92	2.11	792	39	831	-	49	899		
-	-	-	-	36	36	36	78	114	8.6	-	1.58	1.58	3.43	-	15	15	-	10	10		
-	-	-	131	131	131	92	223	31.2	-	-	5.77	5.77	4.05	-	267	267	-	46	46		
-	-	-	15	15	15	37	52	3.6	-	-	.66	.66	1.63	-	63	63	-	96	96		
-	-	5	64	69	69	126	195	16.4	-	-	3.04	3.04	5.55	-	258	258	754	33	85		
-	-	-	45	45	45	47	92	10.7	-	-	1.98	1.98	2.07	-	82	82	-	41	41		
-	-	-	53	53	53	47	100	12.6	-	-	2.33	2.33	2.07	-	57	57	-	25	25		
5	1	-	39	40	45	23	68	10.7	.22	1.76	1.98	1.01	1,320	373	1,694	-	64	855			
2	-	-	3	3	5	5	10	1.2	.09	.13	.22	.22	528	(1/)	529	-	3	2,402			
Total or average-----	10	1	5	404	410	420	503	923	-	.44	18.05	18.49	22.14	2,641	1,155	3,795	754	41	205		
Total or average, mining-----	131	21	151	8,126	8,298	8,429	6,895	15,324	-	.45	28.65	28.90	23.64	2,595	1,946	4,641	612	43	161		

TABLE 19. - Number of injuries, injury rates and average severity at Pennsylvania anthracite mines, by part of body injured, 1974

General work location and part of body injured	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity		
	Fatal	Nonfatal disabling			All disabling injuries	Non-disabling injuries	All injuries	Fatal		Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling	
		Permanent		Temporary total															All non-fatal disabling
		Total	Partial																
Underground mines:																			
Underground:																			
Head, face, neck (excl. eye)-----	-	-	-	4	4	4	3	7	9.1	-	7.50	7.50	5.63	-	83	83	-	11	11
Eye-----	-	-	-	5	5	5	2	7	11.4	-	9.38	9.38	3.75	-	15	15	-	2	2
Trunk-----	-	-	-	10	10	10	2	12	22.7	-	18.75	18.75	3.75	-	1,041	1,041	-	56	56
Arm (above wrist)-----	-	-	-	1	1	1	1	2	2.3	-	1.88	1.88	1.88	-	8	8	-	4	4
Wrist, hand, fingers-----	-	-	-	6	6	6	3	9	13.6	-	11.25	11.25	5.63	-	171	171	-	15	15
Leg (above ankle)-----	-	-	-	9	9	9	1	10	20.5	-	16.88	16.88	1.88	-	784	784	-	46	46
Ankle, foot, toes-----	-	-	-	7	7	7	1	8	15.9	-	13.13	13.13	1.88	-	469	469	-	36	36
Multiple-----	-	-	-	1	1	1	2	3	2.3	-	1.88	1.88	3.75	-	156	156	-	83	83
Unclassified (no data)-----	1	-	-	-	-	1	1	2	2.3	1.88	-	1.88	1.88	11,250	-	11,250	-	-	6,000
Total or average-----	1	-	-	43	43	44	16	60	-	1.88	80.63	82.50	30.00	11,250	2,724	13,975	-	34	169
Surface:																			
Head, face, neck (excl. eye)-----																			
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eye-----	-	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	35	35	-	4	4
Trunk-----	-	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	35	35	-	4	4
Arm (above wrist)-----	-	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	659	659	-	75	75
Wrist, hand, fingers-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leg (above ankle)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ankle, foot, toes-----	-	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	132	132	-	15	15
Multiple-----	1	-	-	-	-	1	-	1	20.0	8.78	-	8.78	-	52,700	-	52,700	-	-	6,000
Unclassified (no data)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average-----	1	-	-	4	4	5	-	5	-	8.78	35.13	43.92	-	52,700	861	53,561	-	24	1,220
Total or average, underground mines-----	2	-	-	47	47	49	16	65	-	3.09	72.62	75.71	24.72	18,542	2,397	20,939	-	33	277
Strip mines:																			
Head, face, neck (excl. eye)-----																			
Head, face, neck (excl. eye)-----	-	-	-	3	3	3	17	20	3.7	-	1.46	1.46	8.29	-	13	13	-	9	9
Eye-----	-	-	-	4	4	4	24	28	4.9	-	1.95	1.95	11.70	-	17	17	-	8	8
Trunk-----	-	-	-	29	29	29	26	55	35.4	-	14.14	14.14	12.68	-	487	487	-	34	34
Arm (above wrist)-----	-	-	-	8	8	8	11	19	9.8	-	3.90	3.90	5.36	-	112	112	-	29	29
Wrist, hand, fingers-----	-	-	-	11	11	11	39	50	13.4	-	5.36	5.36	19.02	-	104	104	-	19	19
Leg (above ankle)-----	-	-	-	6	6	6	11	17	7.3	-	2.93	2.93	5.36	-	29	29	-	10	10
Ankle, foot, toes-----	-	-	-	12	12	12	9	21	14.6	-	5.85	5.85	4.39	-	371	371	-	63	63
Multiple-----	-	-	-	7	7	7	8	15	8.5	-	3.41	3.41	3.90	-	224	224	-	66	66
Unclassified (no data)-----	-	-	-	2	2	2	2	4	2.4	-	.98	.98	.98	-	8	8	-	8	8
Total or average-----	-	-	-	82	82	82	147	229	-	-	39.99	39.99	71.68	-	1,364	1,364	-	34	34

TABLE 19. - Number of injuries, injury rates and average severity at Pennsylvania anthracite mines, by part of body injured, 1974 - Continued

General work location and part of body injured	Number of injuries							Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity			
	Fatal	Nonfatal disabling		Temporary total	All non-fatal disabling	All disabling injuries	Non-disabling injuries		All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling
		Permanent																	
		Total	Partial																
Culm banks:																			
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eye-----	-	-	-	-	-	3	3	-	-	-	11.17	-	-	-	-	-	-		
Trunk-----	-	-	2	2	2	-	2	20.0	-	7.45	7.45	-	-	127	127	-	17		
Arm (above wrist)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Wrist, hand, fingers-----	-	-	3	3	3	1	4	30.0	-	11.17	11.17	3.72	-	201	201	-	18		
Leg (above ankle)-----	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-		
Ankle, foot, toes-----	-	-	3	3	3	1	4	30.0	-	11.17	11.17	3.72	-	63	63	-	6		
Multiple-----	-	-	2	2	2	-	2	20.0	-	7.45	7.45	-	-	34	34	-	4		
Unclassified (no data)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total or average-----	-	-	-	10	10	10	6	16	-	-	37.23	37.23	22.34	-	424	424	-	11	
Dredges:																			
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eye-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trunk-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arm (above wrist)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wrist, hand, fingers-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Leg (above ankle)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ankle, foot, toes-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Multiple-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unclassified (no data)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average, surface mines-----	-	-	-	92	92	92	153	245	-	-	39.66	39.66	65.96	-	1,255	1,255	-	32	
Total or average mining	2	-	-	139	139	141	169	310	-	0.67	46.85	47.52	56.96	4,045	1,504	5,549	-	32	
Independent shops and yards:																			
Head, face, neck (excl. eye)-----	-	-	-	-	-	3	3	-	-	-	-	14.93	-	-	-	-	-	-	
Eye-----	-	-	3	3	3	3	6	27.3	-	14.93	14.93	14.93	-	15	15	-	1		
Trunk-----	-	-	1	1	1	3	4	9.1	-	4.98	4.98	14.93	-	45	45	-	9		
Arm (above wrist)-----	-	-	1	1	1	4	5	9.1	-	4.98	4.98	19.90	-	393	393	-	79		
Wrist, hand, fingers-----	-	-	3	3	3	10	13	27.3	-	14.93	14.93	49.75	-	124	124	-	8		
Leg (above ankle)-----	-	-	1	1	1	5	6	9.1	-	4.98	4.98	24.88	-	30	30	-	6		
Ankle, foot, toes-----	-	-	2	2	2	2	4	18.2	-	9.95	9.95	9.95	-	299	299	-	30		
Multiple-----	-	-	-	-	-	1	1	-	-	-	-	4.98	-	-	-	-	-		
Unclassified (no data)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average-----	-	-	-	11	11	11	31	42	-	-	54.73	54.73	154.23	-	906	906	-	17	

TABLE 19. - Number of injuries, injury rates and average severity at Pennsylvania anthracite mines, by part of body injured, 1974 - Continued

General work location and part of body injured	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Total	Partial
		Total	Partial																		
Mechanical cleaning plants:																					
Head, face, neck (excl. eye)-----	-	-	-	4	4	4	16	20	4.1	-	2.07	2.07	8.27	-	17	17	-	8	8		
Eye-----	-	-	-	8	8	8	23	31	8.2	-	4.13	4.13	11.88	-	21	21	-	5	5		
Trunk-----	-	-	-	35	35	35	33	68	36.1	-	18.08	18.08	17.05	-	597	597	-	33	33		
Arm (above wrist)-----	-	-	-	5	5	5	18	23	5.2	-	2.58	2.58	9.30	-	74	74	-	29	29		
Wrist, hand, fingers-----	-	-	-	18	18	18	51	69	18.6	-	9.30	9.30	26.35	-	212	212	-	23	23		
Leg (above ankle)-----	-	-	-	10	10	10	17	27	10.3	-	5.17	5.17	8.78	-	179	179	-	35	35		
Ankle, foot, toes-----	-	-	-	11	11	11	8	19	11.3	-	5.68	5.68	4.13	-	129	129	-	23	23		
Multiple-----	-	-	-	4	4	4	5	9	4.1	-	2.07	2.07	2.58	-	451	451	-	218	218		
Unclassified (no data)----	-	-	-	2	2	2	1	3	2.1	-	1.03	1.03	.52	-	55	55	-	54	54		
Total or average-----	-	-	-	97	97	97	172	269	-	-	50.12	50.12	88.87	-	1,734	1,734	-	35	35		
Grand total or average--	2	-	-	247	247	249	372	621	-	0.39	48.40	48.79	72.89	2,351	1,568	3,919	-	32	80		

TABLE 20. - Number of injuries and average severity by degree at bituminous coal mines in the United States, by part of body and principal cause of injury, 1974

Part of body and principal cause of injury	Number of injuries							Average severity			
	Fatal	Nonfatal disabling			All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tempo- rary total	All dis- abling injuries	
		Total	Partial	Tempo- rary total							All nonfatal disabling
Head, face, neck (excl. eye):											
Falls of roof or back-----	4	-	-	78	78	82	5A	140	-	39	330
Falls of face or rib-----	1	-	-	15	15	16	9	25	-	60	431
Pressure bumps or bursts-----	-	-	-	1	1	1	2	3	-	1	1
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	1	-	-	18	18	19	19	38	-	60	372
Slips or falls of persons-----	-	1	-	24	25	25	31	56	-	30	269
Handling material-----	-	-	-	48	48	48	97	145	-	29	29
Handtools-----	-	1	-	62	63	63	122	185	-	23	118
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects--	-	-	-	25	25	25	36	61	-	32	32
Haulage-----	5	-	-	151	151	156	128	284	-	36	227
Explosions of gas or dust-----	-	-	-	4	4	4	3	7	-	17	17
Explosives-----	-	-	-	6	6	6	10	16	-	101	101
Electricity-----	-	-	-	20	20	20	11	31	-	15	15
Machinery-----	7	-	1	96	97	104	120	224	18	50	450
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	2	2	2	1	3	-	61	61
Miscellaneous causes-----	1	-	-	15	15	16	37	53	-	14	388
Total or average-----	19	2	1	565	568	587	685	1,272	18	37	250
Eye:											
Falls of roof or back-----	-	-	-	12	12	12	16	28	-	5	5
Falls of face or rib-----	-	-	-	2	2	2	3	5	-	1	1
Pressure bumps or bursts-----	-	-	-	-	-	-	5	5	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	8	8	8	26	34	-	10	10
Slips or falls of persons-----	-	-	-	1	1	1	2	3	-	1	1
Handling material-----	-	-	-	76	76	76	162	238	-	13	13
Handtools-----	-	-	-	78	78	78	125	203	-	28	28
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	3	3	3	4	7	-	6	6
Haulage-----	-	-	-	23	23	23	45	68	-	7	7
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	2	2	2	-	2	-	75	75
Electricity-----	-	-	-	46	46	46	75	121	-	5	5
Machinery-----	-	-	2	51	53	53	120	173	1,800	11	78
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	98	98	98	202	300	-	7	7
Total or average-----	-	-	2	400	402	402	785	1,167	1,800	13	22
Trunk:											
Falls of roof or back-----	4	6	-	200	206	210	76	286	-	77	359
Falls of face or rib-----	-	-	-	56	56	56	22	78	-	66	66
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	33	33	33	11	44	-	54	54
Slips or falls of persons-----	-	2	-	289	291	291	198	489	-	37	78
Handling material-----	-	-	1	1,037	1,038	1,038	576	1,614	2,400	44	46
Handtools-----	-	-	-	140	140	140	94	234	-	41	41
Stepping or kneeling on sharp or loose objects-----	-	-	-	10	10	10	8	18	-	30	30
Striking or bumping against objects--	-	-	-	14	14	14	10	24	-	12	12
Haulage-----	6	2	-	381	383	389	256	639	-	52	174
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	6	6	6	1	7	-	22	22
Electricity-----	-	-	-	6	6	6	6	12	-	56	56
Machinery-----	5	1	-	271	272	277	139	416	-	56	185
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	1	1	-	-	-
Miscellaneous causes-----	-	-	-	52	52	52	25	77	-	46	46
Total or average-----	15	11	1	2,495	2,507	2,522	1,417	3,939	2,400	49	111

TABLE 20. - Number of injuries and average severity by degree at bituminous coal mines in the United States, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries								Average severity		
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tem- porary total	All dis- abling injuries
		Permanent		Tem- porary total	All nonfatal disabling						
		Total	Partial								
Arm (above wrist):											
Falls of roof or back-----	-	-	-	31	31	31	37	68	-	81	81
Falls of face or rib-----	-	-	-	12	12	12	6	18	-	102	102
Pressure bumps or bursts-----	-	-	-	-	-	-	1	1	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	11	11	11	5	16	-	18	18
Slips or falls of persons-----	-	-	-	32	32	32	32	64	-	46	46
Handling material-----	-	-	-	40	40	40	55	95	-	35	35
Handtools-----	-	-	-	14	14	14	53	67	-	22	22
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects---	-	-	-	2	2	2	5	7	-	3	3
Haulage-----	-	-	1	77	78	78	70	148	4,500	61	118
Explosions of gas or dust-----	-	-	-	1	1	1	-	-	-	1	1
Explosives-----	-	-	1	3	4	4	-	5	5,340	81	1,396
Electricity-----	-	-	-	17	17	17	11	28	-	24	24
Machinery-----	-	-	2	110	112	112	72	184	2,444	69	111
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	9	9	9	18	27	-	5	5
Total or average-----	-	-	4	359	363	363	367	730	3,682	56	96
Wrist, hand, and fingers:											
Falls of roof or back-----	-	-	3	123	126	126	92	218	150	41	44
Falls of face or rib-----	-	-	-	18	18	18	19	37	-	69	69
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	4	45	49	49	40	89	228	33	49
Slips or falls of persons-----	-	-	2	56	58	58	79	137	158	36	40
Handling material-----	-	-	31	450	481	481	648	1,129	159	23	32
Handtools-----	-	-	7	173	180	180	436	616	338	19	31
Stepping or kneeling on sharp or loose objects-----	-	-	-	1	1	1	-	1	-	20	20
Striking or bumping against objects---	-	-	-	2	2	2	6	8	-	19	19
Haulage-----	-	-	21	179	200	200	195	395	344	37	69
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	3	3	3	1	4	-	11	11
Electricity-----	-	-	-	75	75	75	70	145	-	24	24
Machinery-----	-	-	55	329	384	384	260	644	309	32	72
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	1	1	1	-	1	-	13	13
Miscellaneous causes-----	-	-	-	15	15	15	44	59	-	8	8
Total or average-----	-	-	123	1,470	1,593	1,593	1,890	3,483	270	29	48
Leg (above ankle):											
Falls of roof or back-----	-	-	1	96	97	97	40	137	3,000	81	111
Falls of face or rib-----	1	-	-	41	41	42	22	64	-	65	206
Pressure bumps or bursts-----	-	-	1	1	1	1	-	1	-	2	2
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	28	28	28	23	51	-	46	46
Slips or falls of persons-----	-	-	-	177	177	177	186	363	-	46	46
Handling material-----	-	-	-	122	122	122	92	214	-	40	40
Handtools-----	-	-	1	47	48	48	98	146	4,500	20	114
Stepping or kneeling on sharp or loose objects-----	-	-	-	60	60	60	40	100	-	47	47
Striking or bumping against objects---	-	-	-	20	20	20	22	42	-	29	29
Haulage-----	2	-	2	201	203	205	124	329	3,750	68	162
Explosions of gas or dust-----	-	-	-	-	-	-	1	1	-	-	-
Explosives-----	-	-	-	2	2	2	3	5	-	13	13
Electricity-----	-	-	-	6	6	6	6	12	-	22	22
Machinery-----	-	-	3	196	199	199	91	290	3,500	77	128
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	46	46	46	23	69	-	42	42
Total or average-----	3	-	7	1,043	1,050	1,053	771	1,824	3,643	57	98

TABLE 29. - Number of injuries and average severity by degree at bituminous coal mines in the United States, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries								Average severity		
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Teg- porary total	All dis- abling injuries
		Permanent		Tem- porary total	All nonfatal disabling						
		Total	Partial								
Ankle, foot, and toes:											
Falls of roof or back-----	-	-	-	107	107	107	35	142	-	61	61
Falls of face or rib-----	-	-	-	43	43	43	15	58	-	31	31
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	47	47	47	27	74	-	41	41
Slips or falls of persons-----	-	-	-	133	133	133	68	201	-	30	30
Handling material-----	-	-	2	219	221	221	160	381	188	24	26
Handtools-----	-	-	1	25	26	26	21	47	150	18	23
Stepping or kneeling on sharp or loose objects-----	1	-	-	99	99	100	111	211	-	16	76
Striking or bumping against objects-----	-	-	-	3	3	3	3	6	-	10	10
Haulage-----	-	-	5	209	214	214	87	301	312	53	59
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	1	1	1	1	2	-	9	9
Machinery-----	-	-	3	186	189	189	86	275	1,250	42	61
Suffocation (no flame or smoldering) Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	23	23	23	18	41	-	18	18
Total or average-----	1	-	11	1,095	1,106	1,107	632	1,739	531	37	47
Multiple:											
Falls of roof or back-----	25	1	-	140	141	166	56	222	-	50	982
Falls of face or rib-----	2	1	1	46	48	50	18	68	1,800	65	456
Pressure bumps or bursts-----	-	-	-	-	-	-	1	1	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	6	-	-	9	9	15	11	26	-	15	2,409
Slips or falls of persons-----	2	-	-	62	62	64	27	91	-	50	236
Handling material-----	-	-	-	37	37	37	24	61	-	28	28
Handtools-----	-	-	-	13	13	13	5	18	-	66	66
Stepping or kneeling on sharp or loose objects-----	-	-	-	1	1	1	2	3	-	38	38
Striking or bumping against objects-----	-	-	-	4	4	4	5	9	-	5	5
Haulage-----	9	2	-	154	156	165	72	237	-	70	465
Explosions of gas or dust-----	-	-	-	6	6	6	2	8	-	57	57
Explosives-----	-	1	1	7	9	9	3	12	5,400	24	1,285
Electricity-----	-	-	-	39	39	39	19	58	-	56	56
Machinery-----	18	3	-	81	84	102	27	129	-	71	1,292
Suffocation (no flame or smoldering) Fires or suffocation from fires-----	1	-	-	3	3	4	1	5	-	303	1,727
Miscellaneous causes-----	-	-	-	21	21	21	14	35	-	42	42
Total or average-----	63	8	2	623	633	696	287	983	3,600	58	674
Unclassified (no data):											
Falls of roof or back-----	10	-	-	9	9	19	4	23	-	100	3,205
Falls of face or rib-----	-	-	-	1	1	1	1	2	-	4	4
Pressure bumps or bursts-----	1	-	-	-	-	1	-	1	-	-	6,000
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	2	-	-	2	2	4	-	4	-	48	3,024
Slips or falls of persons-----	1	-	-	8	8	9	7	16	-	13	678
Handling material-----	-	-	-	12	12	12	14	26	-	38	38
Handtools-----	-	-	-	3	3	3	5	8	-	5	5
Stepping or kneeling on sharp or loose objects-----	-	-	-	2	2	2	-	2	-	6	6
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	1	-	-	10	10	11	6	17	-	50	591
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	1	-	-	2	2	3	-	3	-	165	2,110
Electricity-----	8	-	-	10	10	18	9	27	-	16	2,676
Machinery-----	5	-	-	6	6	11	5	16	-	28	2,742
Suffocation (no flame or smoldering) Fires or suffocation from fires-----	-	-	-	6	6	6	3	9	-	11	11
Miscellaneous causes-----	1	-	-	5	5	6	7	13	-	15	1,013
Total or average-----	30	-	-	76	76	106	61	167	-	38	1,725
Grand total or average-----	171	21	151	8,126	8,298	8,429	6,895	15,324	612	43	161

TABLE 21. - Number of injuries and average severity by degree at Pennsylvania anthracite mines, by part of body and principal cause of injury, 1974

Part of body and principal cause of injury	Number of injuries								Average severity		
	Fatal	Nonfatal disabling			All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tem- porary total	All dis- abling injuries	
		Permanent		Tem- porary total							
		Total	Partial								
Head, face, neck (excl. eye):											
Falls of roof or back-----	-	-	-	1	1	1	-	1	-	4	4
Falls of face or rib-----	-	-	-	1	1	1	-	1	-	3	3
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	1	1	1	3	4	-	12	12
Slips or falls of persons-----	-	-	-	1	1	1	4	5	-	11	11
Handling material-----	-	-	-	2	2	2	6	8	-	11	11
Handtools-----	-	-	-	2	2	2	10	12	-	8	8
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	-	-	-	1	1	-	-	-
Haulage-----	-	-	-	2	2	2	4	6	-	18	18
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	-	-	-	5	5	-	-	-
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	1	1	1	6	7	-	1	1
Total or average-----	-	-	-	11	11	11	39	50	-	9	9
Eye:											
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	-	-	-	-	-	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	1	1	1	1	2	-	1	1
Slips or falls of persons-----	-	-	-	-	-	-	1	1	-	-	-
Handling material-----	-	-	-	2	2	2	15	17	-	3	3
Handtools-----	-	-	-	7	7	7	10	17	-	4	4
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	-	-	-	-	-	-	1	1	-	-	-
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	1	1	-	-	-
Machinery-----	-	-	-	-	-	-	2	2	-	-	-
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	11	11	11	24	35	-	5	5
Total or average-----	-	-	-	21	21	21	55	76	-	4	4
Trunk:											
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	1	1	1	-	1	-	102	102
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	3	3	3	-	3	-	28	28
Slips or falls of persons-----	-	-	-	23	23	23	21	44	-	47	47
Handling material-----	-	-	-	26	26	26	23	49	-	26	26
Handtools-----	-	-	-	6	6	6	5	11	-	16	16
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects--	-	-	-	-	-	-	3	3	-	-	-
Haulage-----	-	-	-	12	12	12	7	19	-	29	29
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	4	4	4	3	7	-	74	74
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	3	3	3	1	4	-	23	23
Total or average-----	-	-	-	78	78	78	64	142	-	35	35

TABLE 21. - Number of injuries and average severity by degree at Pennsylvania anthracite mines, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries							Average severity		
	Fatal	Nonfatal disabling			All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tempo- rary total	All dis- abling injuries
		Permanent		Tempo- rary total						
		Total	Partial							
Arm (above wrist):										
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	-	-	1	1	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	-	-	2	2	-	-	-
Slips or falls of persons-----	-	-	-	4	4	5	9	-	51	51
Handling material-----	-	-	-	6	6	9	15	-	18	18
Handtools-----	-	-	-	2	2	4	6	-	39	39
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-
Haulage-----	-	-	-	2	2	2	3	-	65	65
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	-	-	4	4	-	-	-
Suffocation (no flame or smoldering)- Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	2	2	2	8	-	5	5
Total or average-----	-	-	-	16	16	16	34	-	33	33
Wrist, hand, and fingers:										
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	-	-	-	-	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	1	1	2	3	-	14	14
Slips or falls of persons-----	-	-	-	5	5	8	13	-	36	36
Handling material-----	-	-	-	19	19	35	54	-	17	17
Handtools-----	-	-	-	4	4	4	29	-	19	19
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-
Haulage-----	-	-	-	3	3	3	9	-	25	25
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	1	1	1	2	-	16	16
Machinery-----	-	-	-	5	5	5	12	-	9	9
Suffocation (no flame or smoldering)- Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	3	3	3	8	-	21	21
Total or average-----	-	-	-	41	41	41	104	-	19	19
Leg (above ankle):										
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	1	1	1	1	-	253	253
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	3	3	3	3	-	30	30
Slips or falls of persons-----	-	-	-	7	7	7	15	-	37	37
Handling material-----	-	-	-	3	3	3	4	-	8	8
Handtools-----	-	-	-	2	2	2	3	-	4	4
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects-----	-	-	-	1	1	1	3	-	22	22
Haulage-----	-	-	-	6	6	6	7	-	20	20
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	1	1	1	1	-	2	2
Suffocation (no flame or smoldering)- Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	2	2	2	4	-	27	27
Total or average-----	-	-	-	26	26	26	35	-	32	32

TABLE 21. - Number of injuries and average severity by degree at Pennsylvania anthracite mines, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries							Average severity			
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tem- porary total	All dis- abling injuries
		Permanent		Tem- porary total	All nonfatal disabling						
		Total	Partial								
Ankle, foot, and toes:											
Falls of roof or back-----	-	-	-	1	1	1	-	1	-	73	73
Falls of face or rib-----	-	-	-	-	-	-	-	-	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	3	3	3	-	3	-	21	21
Slips or falls of persons-----	-	-	-	4	4	4	5	9	-	16	16
Handling material-----	-	-	-	10	10	10	1	11	-	30	30
Handtools-----	-	-	-	4	4	4	1	5	-	11	11
Stepping or kneeling on sharp or loose objects-----	-	-	-	4	4	4	8	12	-	4	4
Striking or bumping against objects--	-	-	-	-	-	-	1	1	-	-	-
Haulage-----	-	-	-	6	6	6	3	9	-	102	102
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	2	2	2	-	2	-	37	37
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	2	2	2	2	4	-	56	56
Total or average-----	-	-	-	36	36	36	21	57	-	38	38
Multiple:											
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	-	-	-	2	2	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	1	1	1	-	1	-	29	29
Slips or falls of persons-----	-	-	-	6	6	6	5	11	-	72	72
Handling material-----	-	-	-	-	-	-	3	3	-	-	-
Handtools-----	-	-	-	-	-	-	1	1	-	-	-
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	1	-	-	3	3	4	3	7	-	294	1,721
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	-	-	-	1	1	-	-	-
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	2	2	2	-	2	-	35	35
Miscellaneous causes-----	-	-	-	2	2	2	1	3	-	5	5
Total or average-----	1	-	-	14	14	15	16	31	-	102	495
Unclassified (no data):											
Falls of roof or back-----	-	-	-	-	-	-	-	-	-	-	-
Falls of face or rib-----	-	-	-	-	-	-	-	-	-	-	-
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	-	-	-	-	-	-	-	-
Slips or falls of persons-----	-	-	-	-	-	-	1	1	-	-	-
Handling material-----	-	-	-	1	1	1	2	3	-	3	3
Handtools-----	-	-	-	-	-	-	-	-	-	-	-
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	-	-	-	1	1	1	-	1	-	95	95
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	1	-	-	-	-	1	1	2	-	-	6,000
Electricity-----	-	-	-	-	-	-	-	-	-	-	-
Machinery-----	-	-	-	1	1	1	-	1	-	12	12
Suffocation (no flame or smoldering)--	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	1	1	1	-	1	-	14	14
Total or average-----	1	-	-	4	4	5	4	9	-	31	1,225
Grand total or average-----	2	-	-	247	247	249	372	621	-	32	80

TABLE 22. - Number of injuries and average severity by degree at all coal mines in the United States, by part of body and principal cause of injury, 1974

Part of body and principal cause of injury	Number of injuries							Average severity			
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tem- porary total	All dis- abling injuries
		Permanent		Tem- porary total	All nonfatal disabling						
		Total	Partial								
Head, face, neck (excl. eye):											
Falls of roof or back-----	4	-	-	79	79	83	58	141	-	38	326
Falls of face or rib-----	1	-	-	16	16	17	9	26	-	56	406
Pressure bumps or bursts-----	-	-	-	1	1	1	2	3	-	1	1
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	1	-	-	19	19	20	22	42	-	57	354
Slips or falls of persons-----	-	1	-	25	26	26	35	61	-	29	259
Handling material-----	-	-	-	50	50	50	103	153	-	28	28
Handtools-----	-	1	-	64	65	65	132	197	-	23	114
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects--	-	-	-	25	25	25	37	62	-	32	32
Haulage-----	5	-	-	153	153	158	132	290	-	35	224
Explosions of gas or dust-----	-	-	-	4	4	4	3	7	-	17	17
Explosives-----	-	-	-	6	6	6	10	16	-	101	101
Electricity-----	-	-	-	20	20	20	11	31	-	15	15
Machinery-----	7	-	1	96	97	104	125	229	18	50	450
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	2	2	2	1	3	-	61	61
Miscellaneous causes-----	1	-	-	16	16	17	43	60	-	13	366
Total or average-----	19	2	1	576	579	598	724	1,322	18	36	246
Eye:											
Falls of roof or back-----	-	-	-	12	12	12	16	28	-	5	5
Falls of face or rib-----	-	-	-	2	2	2	3	5	-	1	1
Pressure bumps or bursts-----	-	-	-	-	-	-	5	5	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	9	9	9	27	36	-	9	9
Slips or falls of persons-----	-	-	-	1	1	1	3	4	-	1	1
Handling material-----	-	-	-	78	78	78	177	255	-	13	13
Handtools-----	-	-	-	85	85	85	135	220	-	26	26
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	-	-	-	-	-
Striking or bumping against objects--	-	-	-	3	3	3	4	7	-	6	6
Haulage-----	-	-	-	23	23	23	46	69	-	7	7
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	2	2	2	-	2	-	75	75
Electricity-----	-	-	-	46	46	46	76	122	-	5	5
Machinery-----	-	-	2	51	53	53	122	175	1,800	11	78
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	109	109	109	226	335	-	6	6
Total or average-----	-	-	2	421	423	423	840	1,263	1,800	12	21
Trunk:											
Falls of roof or back-----	4	6	-	200	206	210	76	286	-	77	359
Falls of face or rib-----	-	-	-	57	57	57	22	79	-	67	67
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	36	36	36	11	47	-	52	52
Slips or falls of persons-----	-	2	-	312	314	314	219	533	-	38	76
Handling material-----	-	-	1	1,063	1,064	1,064	599	1,663	2,400	44	46
Handtools-----	-	-	-	146	146	146	99	245	-	40	40
Stepping or kneeling on sharp or loose objects-----	-	-	-	10	10	10	9	19	-	30	30
Striking or bumping against objects--	-	-	-	14	14	14	13	27	-	12	12
Haulage-----	6	2	-	393	395	401	257	658	-	51	170
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	6	6	6	1	7	-	22	22
Electricity-----	-	-	-	6	6	6	6	12	-	56	56
Machinery-----	5	1	-	275	276	281	142	423	-	57	183
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	1	1	-	-	-
Miscellaneous causes-----	-	-	-	55	55	55	26	81	-	45	45
Total or average-----	15	11	1	2,573	2,585	2,600	1,481	4,081	2,400	48	109

TABLE 22. - Number of injuries and average severity by degree at all coal mines in the United States, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries							Average severity			
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries	Perma- nent partial	Tem- porary total	All dis- abling injuries
		Permanent		Tem- porary total	All nonfatal disabling						
		Total	Partial								
Arm (above wrist):											
Falls of roof or back-----	-	-	-	31	31	31	37	68	-	81	81
Falls of face or rib-----	-	-	-	12	12	12	7	19	-	102	102
Pressure bumps or bursts-----	-	-	-	-	-	-	1	1	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	11	11	11	7	18	-	18	18
Slips or falls of persons-----	-	-	-	36	36	36	37	73	-	47	47
Handling material-----	-	-	-	46	46	46	64	110	-	33	33
Handtools-----	-	-	-	16	16	16	57	73	-	24	24
Stepping or kneeling on sharp or loose objects-----	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects--	-	-	-	2	2	2	5	7	-	3	3
Haulage-----	-	-	1	79	80	80	71	151	4,500	61	117
Explosions of gas or dust-----	-	-	-	1	1	1	-	1	-	1	1
Explosives-----	-	-	1	3	4	4	1	5	5,340	81	1,396
Electricity-----	-	-	-	17	17	17	11	28	-	24	24
Machinery-----	-	-	2	110	112	112	76	188	2,444	69	111
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	11	11	11	26	37	-	5	5
Total or average-----	-	-	4	375	379	379	401	780	3,682	55	93
Wrist, hand, and fingers:											
Falls of roof or back-----	-	-	3	123	126	126	92	218	150	41	46
Falls of face or rib-----	-	-	-	18	18	18	19	37	-	69	69
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	4	46	50	50	42	92	228	33	48
Slips or falls of persons-----	-	-	2	61	63	63	87	150	158	36	40
Handling material-----	-	-	31	469	500	500	683	1,183	159	23	31
Handtools-----	-	-	7	177	184	184	465	649	338	19	31
Stepping or kneeling on sharp or loose objects-----	-	-	-	1	1	1	-	1	-	20	20
Striking or bumping against objects--	-	-	-	2	2	2	6	8	-	19	19
Haulage-----	-	-	21	182	203	203	204	407	344	37	68
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	3	3	3	-	4	-	11	11
Electricity-----	-	-	-	76	76	76	71	147	-	24	24
Machinery-----	-	-	55	334	389	389	272	661	309	32	71
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	1	1	1	-	1	-	13	13
Miscellaneous causes-----	-	-	-	18	18	18	52	70	-	10	10
Total or average-----	-	-	123	1,511	1,634	1,634	1,994	3,628	270	29	47
Leg (above ankle):											
Falls of roof or back-----	-	-	1	96	97	97	40	137	3,000	81	111
Falls of face or rib-----	1	-	-	42	42	43	22	65	-	69	207
Pressure bumps or bursts-----	-	-	-	1	1	1	-	1	-	2	2
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	31	31	31	23	54	-	44	44
Slips or falls of persons-----	-	-	-	184	184	184	201	385	-	45	45
Handling material-----	-	-	-	125	125	125	96	221	-	39	39
Handtools-----	-	-	1	49	50	50	101	151	4,500	20	109
Stepping or kneeling on sharp or loose objects-----	-	-	-	60	60	60	40	100	-	47	47
Striking or bumping against objects--	-	-	-	21	21	21	24	45	-	28	28
Haulage-----	2	-	2	207	209	211	131	342	3,750	67	158
Explosions of gas or dust-----	-	-	-	-	-	-	1	1	-	-	-
Explosives-----	-	-	-	2	2	2	3	5	-	13	13
Electricity-----	-	-	-	6	6	6	6	12	-	22	22
Machinery-----	-	-	3	197	200	200	91	291	3,500	76	128
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	48	48	48	27	75	-	41	41
Total or average-----	3	-	7	1,069	1,076	1,079	806	1,885	3,643	57	97

TABLE 22. - Number of injuries and average severity by degree at all coal mines in the United States, by part of body and principal cause of injury, 1974 - Continued

Part of body and principal cause of injury	Number of injuries							Average severity			
	Fatal	Nonfatal disabling			All nonfatal disabling	All disabling injuries	Non-disabling injuries	All injuries	Perman-ent partial	Tempo-rary total	All dis-abling injuries
		Permanent		Tempo-rary total							
		Total	Partial								
Ankle, foot, and toes:											
Falls of roof or back-----	-	-	-	108	108	108	35	143	-	62	62
Falls of face or rib-----	-	-	-	43	43	43	15	58	-	31	31
Pressure bumps or bursts-----	-	-	-	-	-	-	-	-	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	-	-	-	50	50	50	27	77	-	40	40
Slips or falls of persons-----	-	-	-	137	137	137	73	210	-	29	29
Handling material-----	-	-	2	229	231	231	161	392	188	24	26
Handtools-----	-	-	1	29	30	30	22	52	150	17	22
Stepping or kneeling on sharp or loose objects-----	1	-	-	103	103	104	119	223	-	16	73
Striking or bumping against objects-----	-	-	-	3	3	3	4	7	-	10	10
Haulage-----	-	-	5	215	220	220	90	310	312	55	61
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	-	-	-	-	-	-	-	-	-	-	-
Electricity-----	-	-	-	1	1	1	1	2	-	9	9
Machinery-----	-	-	3	188	191	191	86	277	1,250	42	61
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous causes-----	-	-	-	25	25	25	20	45	-	21	21
Total or average-----	1	-	11	1,131	1,142	1,143	653	1,796	531	37	47
Multiple:											
Falls of roof or back-----	25	1	-	140	141	166	56	222	-	50	982
Falls of face or rib-----	2	1	1	46	48	50	20	70	1,800	65	456
Pressure bumps or bursts-----	-	-	-	-	-	-	1	1	-	-	-
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	6	-	-	10	10	16	11	27	-	17	2,260
Slips or falls of persons-----	2	-	-	68	68	70	32	102	-	52	222
Handling material-----	-	-	-	37	37	37	27	64	-	28	28
Handtools-----	-	-	-	13	13	13	6	19	-	66	66
Stepping or kneeling on sharp or loose objects-----	-	-	-	1	1	1	2	3	-	38	38
Striking or bumping against objects-----	-	-	-	4	4	4	5	9	-	5	5
Haulage-----	10	2	-	157	159	169	75	244	-	74	495
Explosions of gas or dust-----	-	-	-	6	6	6	2	8	-	57	57
Explosives-----	-	1	1	7	9	9	3	12	5,400	24	1,285
Electricity-----	-	-	-	39	39	39	19	58	-	56	56
Machinery-----	18	3	-	81	84	102	28	130	-	71	1,292
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	1	-	-	5	5	6	1	7	-	195	1,163
Miscellaneous causes-----	-	-	-	23	23	23	15	38	-	39	39
Total or average-----	64	8	2	637	647	711	303	1,014	3,600	59	670
Unclassified (no data):											
Falls of roof or back-----	10	-	-	9	9	19	4	23	-	100	3,205
Falls of face or rib-----	-	-	-	1	1	1	1	2	-	4	4
Pressure bumps or bursts-----	1	-	-	-	-	1	-	1	-	-	6,000
Inrush of water-----	-	-	-	-	-	-	-	-	-	-	-
Sliding or falling material or objects-----	2	-	-	2	2	4	-	4	-	48	3,024
Slips or falls of persons-----	1	-	-	8	8	9	8	17	-	13	678
Handling material-----	-	-	-	13	13	13	16	29	-	36	36
Handtools-----	-	-	-	3	3	3	5	8	-	5	5
Stepping or kneeling on sharp or loose objects-----	-	-	-	2	2	2	-	2	-	6	6
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-	-
Haulage-----	1	-	-	11	11	12	6	18	-	54	550
Explosions of gas or dust-----	-	-	-	-	-	-	-	-	-	-	-
Explosives-----	2	-	-	2	2	4	1	5	-	165	3,082
Electricity-----	8	-	-	10	10	18	9	27	-	16	2,676
Machinery-----	5	-	-	7	7	12	5	17	-	26	2,515
Suffocation (no flame or smoldering)-	-	-	-	-	-	-	-	-	-	-	-
Fires or suffocation from fires-----	-	-	-	6	6	6	3	9	-	11	11
Miscellaneous causes-----	1	-	-	6	6	7	7	14	-	15	870
Total or average-----	31	-	-	80	80	111	65	176	-	38	1,703
Grand total or average-----	133	21	151	8,373	8,545	8,678	7,267	15,945	612	43	158

TABLE 23. - Number of injuries, injury rates, and average severity at bituminous coal mines, by nature of injury, 1974

General work location and nature of injury	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Severity rates per million man-hours	
		Total	Partial																	Fatal	Non-fatal disabling
Underground mines:																					
Underground:																					
Amputation, enucleation-----	-	-	102	-	102	102	-	102	1.6	-	0.59	0.59	-	-	314	314	533	-	533		
Asphyxiation-----	-	-	-	6	6	6	4	10	.1	-	.03	.03	0.02	-	(1/)	(1/)	-	10	7		
Burn, scald (except chemical)-----	1	-	-	16	16	17	37	54	.3	0.01	.09	.10	.21	35	1	36	-	13	365		
Burn, chemical-----	-	-	-	17	17	17	14	31	.3	-	.10	.10	.08	-	1	1	-	7	7		
Concussion-----	-	-	-	12	12	12	2	14	.2	-	.07	.07	.01	-	7	7	-	104	104		
Crushing, contusion-----	21	1	-	1,742	1,743	1,764	1,650	3,414	27.8	.12	10.08	10.20	9.54	729	325	1,054	-	29	103		
Cut, laceration-----	-	-	-	705	705	705	832	1,537	11.1	-	4.08	4.08	4.81	-	100	100	-	24	24		
Dermatitis-----	-	-	-	1	1	1	5	6	(2/)	-	.01	.01	.03	-	(1/)	(1/)	-	4	4		
Dislocation-----	-	-	-	31	31	31	13	44	.5	-	.18	.18	.08	-	9	9	-	51	51		
Electric shock-----	3	-	-	7	7	10	6	16	.2	.02	.04	.06	.03	104	1	105	-	26	1,818		
Fracture-----	10	6	-	902	908	918	298	1,216	14.4	.06	5.25	5.31	1.72	347	700	1,047	-	94	197		
Hearing loss-----	-	-	1	2	3	3	2	5	(2/)	-	.02	.02	.01	-	1	1	18	44	35		
Hernia-----	-	-	-	51	51	51	14	65	.8	-	.30	.30	.08	-	17	17	-	56	56		
Inflammation-----	-	-	-	16	16	16	5	21	.3	-	.09	.09	.03	-	3	3	-	29	29		
Radiation-----	-	-	-	-	-	-	1	1	-	-	-	-	.01	-	-	-	-	-	-		
Scratches-----	-	-	-	49	49	49	63	112	.8	-	.28	.28	.36	-	7	7	-	25	25		
Strain, sprain-----	-	-	-	1,505	1,505	1,505	937	2,442	23.7	-	8.71	8.71	5.42	-	399	399	-	46	46		
Multiple injuries-----	38	2	2	-	262	300	149	449	4.7	.22	1.52	1.74	.86	1,319	162	1,481	2,100	46	853		
Other, not elsewhere classified-----	-	-	-	310	310	310	481	791	4.9	-	1.79	1.79	2.78	-	37	37	-	20	20		
Unclassified (no data)-----	16	5	-	517	522	538	291	829	8.5	.09	3.02	3.11	1.68	555	329	885	-	52	284		
Total or average-----	89	14	105	6,147	6,266	6,355	4,804	11,159	-	.51	36.25	36.76	27.79	3,089	2,412	5,501	558	45	150		
Surface:																					
Amputation, enucleation-----	-	-	8	-	8	8	-	8	2.1	-	.45	.45	-	-	85	85	190	-	190		
Asphyxiation-----	1	-	-	-	-	1	-	1	.3	.06	-	.06	-	336	-	336	-	-	6,000		
Burn, scald (except chemical)-----	-	-	-	12	12	12	17	29	3.1	-	.67	.67	.95	-	65	65	-	96	96		
Burn, chemical-----	-	-	-	3	3	3	-	3	.8	-	.17	.17	-	-	3	3	-	19	19		
Crushing, contusion-----	1	-	-	68	68	69	112	181	18.1	.06	3.81	3.86	6.27	336	129	465	-	34	120		
Cut, laceration-----	-	-	-	47	47	47	93	140	12.3	-	2.63	2.63	5.21	-	45	45	-	17	17		
Dermatitis-----	-	-	-	-	-	-	2	2	-	-	-	-	.11	-	-	-	-	-	-		
Dislocation-----	-	-	-	-	-	-	1	1	-	-	-	-	.06	-	-	-	-	-	-		
Electric shock-----	1	-	-	-	-	1	1	2	.3	.06	-	-	.06	336	-	336	-	-	6,000		
Fracture-----	-	-	-	63	63	63	22	85	16.5	-	3.53	3.53	1.23	-	249	249	-	71	71		
Heat Exhaustion-----	-	-	-	1	1	1	-	1	.3	-	.06	.06	-	-	2	2	-	32	32		
Hernia-----	-	-	-	7	7	7	-	7	1.8	-	.39	.39	-	-	17	17	-	44	44		
Scratches-----	-	-	-	2	2	2	6	8	.5	-	.11	.11	.34	-	1	1	-	6	6		
Strain, sprain-----	-	-	1	107	108	108	80	188	28.3	-	6.05	6.05	4.48	-	355	355	2,400	37	59		
Multiple injuries-----	2	1	-	15	16	18	10	28	4.7	.11	.90	1.01	.56	672	402	1,074	-	79	1,065		
Other, not elsewhere classified-----	-	-	-	17	17	17	65	82	4.5	-	.95	.95	3.64	-	11	11	-	12	12		
Unclassified (no data)-----	1	-	-	24	24	25	23	48	6.5	.06	1.34	1.40	1.29	336	45	381	-	34	272		
Total or average-----	6	1	9	366	376	382	432	814	-	.34	21.05	21.39	24.19	2,016	1,408	3,424	436	42	160		
Total or average, underground mines-----	95	15	114	6,513	6,642	6,737	5,236	11,973	-	.50	34.82	35.32	27.45	2,988	2,318	5,307	548	44	150		

See footnotes at end of table.

TABLE 23. - Number of injuries, injury rates, and average severity at bituminous coal mines, by nature of injury, 1974 - Continued

General work location and nature of injury	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Fatal	
		Total	Partial																	Total	Non-fatal disabling
Strip mines:																					
Amputation, enucleation-----	1	1	29	-	30	31	1	32	2.6	0.01	0.42	0.44	0.01	85	439	523	867	-	1,198		
Asphyxiation-----	1	-	-	2	2	3	-	3	.3	.01	.03	.04	-	85	-	85	-	11	2,007		
Burn, scald (except chemical)	-	-	-	45	45	45	29	74	3.8	-	.63	.63	.41	-	14	14	-	22	22		
Burn, chemical-----	-	-	-	6	6	6	3	9	.5	-	.08	.08	.04	-	2	2	-	26	26		
Concussion-----	-	-	-	2	2	2	-	2	.2	-	.03	.03	-	-	1	1	-	20	20		
Crushing, contusion-----	3	1	-	170	171	174	199	373	14.9	.04	2.41	2.45	2.80	254	131	384	-	19	157		
Cut, laceration-----	-	-	-	103	103	103	296	399	8.8	-	1.45	1.45	4.17	-	25	25	-	17	17		
Dermatitis-----	-	-	-	-	-	-	2	2	-	-	-	-	.03	-	-	-	-	-	-	-	
Dislocation-----	1	-	-	9	9	10	3	13	.9	.01	.13	.14	.04	85	10	94	-	78	670		
Electric shock-----	2	-	-	-	-	2	1	3	.2	.03	-	.03	.01	169	-	169	-	-	6,000		
Fracture-----	2	1	1	177	179	181	71	252	15.5	.03	2.52	2.55	1.00	169	257	426	900	64	167		
Hearing loss-----	-	-	-	1	1	1	2	3	.1	-	.01	.01	.03	-	(1/)	(1/)	-	3	3		
Hernia-----	-	-	-	22	22	22	1	23	1.9	-	.31	.31	.01	-	16	16	-	52	52		
Inflammation-----	-	-	-	1	1	1	-	1	.1	-	.01	.01	-	-	(1/)	(1/)	-	19	19		
Scratches-----	-	-	-	6	6	6	11	17	.5	-	.08	.08	.16	-	1	1	-	10	10		
Strain, sprain-----	-	-	-	297	297	297	179	476	25.4	-	4.19	4.19	2.52	-	129	129	-	31	31		
Multiple injuries-----	7	1	-	60	61	68	28	96	5.8	.10	.86	.96	.39	592	131	723	-	55	754		
Other, not elsewhere classified-----	-	-	-	72	72	72	138	210	6.1	-	1.01	1.01	1.94	-	13	13	-	13	13		
Unclassified (no data)-----	7	-	-	140	140	147	73	220	12.6	.10	1.97	2.07	1.03	592	78	670	-	39	323		
Total or average-----	24	4	30	1,113	1,147	1,171	1,037	2,208	-	.34	16.16	16.50	14.61	2,029	1,246	3,275	868	34	198		
Auger mines:																					
Amputation, enucleation-----	-	-	1	-	1	1	-	1	3.3	-	.53	.53	-	-	40	40	75	-	75		
Burn, chemical-----	-	-	-	1	1	1	-	1	3.3	-	.53	.53	-	-	3	3	-	6	6		
Crushing, contusion-----	1	-	-	3	3	4	8	12	13.3	.53	1.59	2.12	4.25	3,185	11	3,195	-	7	1,505		
Cut, laceration-----	-	-	-	2	2	2	11	13	6.7	-	1.06	1.06	5.84	-	6	6	-	6	6		
Dislocation-----	-	-	-	1	1	1	-	1	3.3	-	.53	.53	-	-	11	11	-	20	20		
Fracture-----	-	-	-	10	10	10	1	11	33.3	-	5.31	5.31	.53	-	582	582	-	110	110		
Poisoning-----	-	-	-	1	1	1	-	1	3.3	-	.53	.53	-	-	2	2	-	4	4		
Strain, sprain-----	-	1	-	3	4	4	3	7	13.3	-	2.12	2.12	1.59	-	3,211	3,211	-	17	1,512		
Multiple injuries-----	-	-	-	2	2	2	-	2	6.7	-	1.06	1.06	-	-	22	22	-	21	21		
Other, not elsewhere classified-----	-	-	-	2	2	2	4	6	6.7	-	1.06	1.06	2.12	-	20	20	-	19	19		
Unclassified (no data)-----	1	-	-	1	1	2	1	3	6.7	.53	.53	1.06	.53	3,185	318	3,502	-	599	3,300		
Total or average-----	2	1	1	26	28	30	28	58	-	1.06	14.86	15.92	14.86	6,369	4,225	10,594	75	73	665		
Total or average, surface-----	26	5	31	1,139	1,175	1,201	1,065	2,266	-	.36	16.13	16.48	14.62	2,141	1,323	3,464	842	35	210		
Total or average, mining-----	121	20	145	7,452	7,817	7,938	6,301	14,239	-	.46	29.65	30.11	23.90	2,754	2,043	4,797	611	43	159		

See footnote at end of table.

TABLE 23. - Number of injuries, injury rates, and average severity at bituminous coal mines, by nature of injury, 1974 - Continued

General work location and nature of injury	Number of injuries							Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity					
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries		All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Severity rates per million man-hours	
		Total	Partial																	Fatal	Non-fatal disabling
Independent shops and yards:																					
Amputation, enucleation-----	-	-	1	-	1	1	-	1	1.4	-	0.19	0.19	-	-	21	21	110	-	110		
Asphyxiation-----	-	-	-	1	1	1	-	1	1.4	-	.19	.19	-	-	7	7	-	38	38		
Burn, scald (except chemical)-----	-	-	-	1	1	1	5	6	1.4	-	.19	.19	0.93	-	2	2	-	12	12		
Burn, chemical-----	-	-	-	1	1	1	-	1	1.4	-	.19	.19	-	-	3	3	-	16	16		
Crushing, contusion-----	-	-	-	9	9	9	10	19	12.7	-	1.68	1.68	1.87	-	72	72	-	43	43		
Cut, laceration-----	-	-	-	11	11	11	34	45	15.5	-	2.06	2.06	6.36	-	41	41	-	20	20		
Dislocation-----	-	-	-	1	1	1	-	1	1.4	-	.19	.19	-	-	1	1	-	6	6		
Fracture-----	-	-	-	12	12	12	5	17	16.9	-	2.24	2.24	.93	-	182	182	-	81	81		
Hernia-----	-	-	-	1	1	1	1	2	1.4	-	.19	.19	.19	-	8	8	-	45	45		
Scratches-----	-	-	-	2	2	2	4	6	2.8	-	.37	.37	.75	-	43	43	-	114	114		
Strain, sprain-----	-	-	-	17	17	17	17	34	23.9	-	3.18	3.18	3.18	-	117	117	-	37	37		
Multiple injuries-----	-	-	-	3	3	3	3	6	4.2	-	.56	.56	.56	-	19	19	-	34	34		
Others, not elsewhere classified-----	-	-	-	6	6	6	8	14	8.5	-	1.12	1.12	1.50	-	9	9	-	8	8		
Unclassified (no data)-----	-	-	-	5	5	5	4	9	7.0	-	.93	.93	.75	-	28	28	-	30	30		
Total or average-----	-	-	1	70	71	71	91	162	-	-	13.27	13.27	17.01	-	554	554	110	41	42		
Mechanical cleaning plants:																					
Amputation, enucleation-----	-	-	5	-	5	5	-	5	1.2	-	.22	.22	-	-	166	166	754	-	754		
Asphyxiation-----	1	-	-	-	-	1	1	2	.2	0.04	-	.04	.04	264	264	-	-	6,000			
Burn, scald (except chemical)-----	2	-	-	16	16	18	24	42	4.3	.09	.70	.79	1.06	528	34	562	-	49	710		
Burn, chemical-----	-	-	-	3	3	3	8	11	.7	-	.13	.13	.35	-	2	2	-	14	14		
Concussion-----	-	-	-	2	2	2	-	2	.5	-	.09	.09	-	-	11	11	-	124	124		
Crushing, contusion-----	2	-	-	74	76	76	124	200	18.1	.09	3.26	3.35	5.46	528	87	615	-	27	184		
Cut, laceration-----	-	-	-	39	39	39	106	145	9.3	-	1.72	1.72	4.67	-	34	34	-	20	20		
Dermatitis-----	-	-	-	-	-	1	1	2	.2	-	-	-	.04	-	-	-	-	-	-		
Dislocation-----	-	-	-	1	1	1	1	2	1.4	-	.04	.04	.04	-	(1/)	(1/)	-	3	3		
Electric shock-----	1	-	-	3	3	4	1	5	1.0	.04	.13	.18	.04	264	(1/)	264	-	3	1,502		
Fracture-----	3	1	-	52	53	56	26	82	13.3	.13	2.33	2.46	1.14	792	427	1,220	-	71	495		
Hernia-----	-	-	-	7	7	7	3	10	1.7	-	.31	.31	.13	-	21	21	-	69	69		
Inflammation-----	-	-	-	1	1	1	-	1	.2	-	.04	.04	-	-	(1/)	(1/)	-	6	6		
Scratches-----	-	-	-	3	3	3	7	10	.7	-	.13	.13	.31	-	2	2	-	13	13		
Strain, sprain-----	-	-	-	112	112	112	86	198	26.7	-	4.93	4.93	3.79	-	196	196	-	40	40		
Multiple injuries-----	1	-	-	17	17	18	18	36	4.3	.04	.75	.79	.79	264	69	333	-	92	421		
Other, not elsewhere classified-----	-	-	-	35	35	35	68	103	8.3	-	1.54	1.54	2.99	-	24	24	-	15	15		
Unclassified (no data)-----	-	-	-	39	39	39	29	68	9.3	-	1.72	1.72	1.28	-	81	81	-	47	47		
Total or average-----	10	1	5	404	410	420	503	923	-	.44	18.05	18.49	22.14	2,641	1,155	3,795	754	41	205		
Grand total or average-----	131	21	151	8,126	8,298	8,429	6,895	15,324	-	.45	28.45	28.90	23.64	2,695	1,946	4,641	612	43	161		

1/ Less than 0.5.

2/ Less than 0.05.

TABLE 24. - Number of injuries, injury rates, and average severity at Pennsylvania anthracite mines, by nature of injury, 1974

General work location and nature of injury	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Total	Partial
		Total	Partial																		
Underground mines:																					
Underground:																					
Asphyxiation-----	-	-	-	-	-	1	1	-	-	-	-	1.88	-	-	-	-	-	-			
Crushing, contusion-----	-	-	15	15	15	4	19	34.1	-	28.13	28.13	7.50	-	707	707	-	25	25			
Cut, laceration-----	-	-	5	5	5	2	7	11.4	-	9.38	9.38	3.75	-	86	86	-	9	9			
Dislocation-----	-	-	1	1	1	-	1	2.3	-	1.88	1.88	-	-	191	191	-	102	102			
Fracture-----	-	-	8	8	8	1	9	18.2	-	15.00	15.00	1.88	-	1,326	1,326	-	88	88			
Hernia-----	-	-	1	1	1	-	1	2.3	-	1.88	1.88	-	-	148	148	-	79	79			
Scratches-----	-	-	1	1	1	1	2	2.3	-	1.88	1.88	1.88	-	4	4	-	2	2			
Strain, sprain-----	-	-	5	5	5	3	8	11.4	-	9.38	9.38	5.63	-	92	92	-	10	10			
Other, not elsewhere classified-----	-	-	5	5	5	2	7	11.4	-	9.38	9.38	3.75	-	41	41	-	4	4			
Unclassified (no data)-----	1	-	2	2	3	2	5	6.8	1.88	3.75	5.63	3.75	11,250	129	11,380	-	34	2,023			
Total or average-----	1	-	43	43	44	16	60	-	1.88	80.63	82.50	30.00	11,250	2,724	13,975	-	34	169			
Surface:																					
Crushing, contusion-----	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	132	132	-	15	15			
Fracture-----	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	659	659	-	75	75			
Strain, sprain-----	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	35	35	-	4	4			
Other, not elsewhere classified-----	1	-	-	-	1	-	1	20.0	8.78	-	8.78	-	52,700	-	52,700	-	-	6,000			
Unclassified-----	-	-	1	1	1	-	1	20.0	-	8.78	8.78	-	-	35	35	-	4	4			
Total or average-----	1	-	4	4	5	-	5	-	8.78	35.13	43.92	-	52,700	861	53,561	-	24	1,220			
Total or average, underground mines-----	2	-	47	47	49	16	65	-	3.09	72.62	75.71	24.72	18,542	2,397	20,939	-	33	277			
Strip mines:																					
Burn, scald (except chemical)-----	-	-	6	6	6	8	14	7.3	-	2.93	2.93	3.90	-	44	44	-	15	15			
Crushing, contusion-----	-	-	19	19	19	38	57	23.2	-	9.27	9.27	18.53	-	199	199	-	21	21			
Cut, laceration-----	-	-	3	3	3	32	35	3.7	-	1.46	1.46	15.60	-	37	37	-	25	25			
Dislocation-----	-	-	1	1	1	-	1	1.2	-	.49	.49	-	-	38	38	-	77	77			
Fracture-----	-	-	8	8	8	6	14	9.8	-	3.90	3.90	2.93	-	425	425	-	109	109			
Heat exhaustion-----	-	-	1	1	1	-	1	1.2	-	.49	.49	-	-	7	7	-	14	14			
Hernia-----	-	-	1	1	1	-	1	1.2	-	.49	.49	-	-	35	35	-	71	71			
Scratches-----	-	-	1	1	1	2	3	1.2	-	.49	.49	.98	-	(1/)	(1/)	-	1	1			
Strain, sprain-----	-	-	27	27	27	19	46	32.9	-	13.17	13.17	9.27	-	367	367	-	28	28			
Multiple injuries-----	-	-	4	4	4	6	10	4.9	-	1.95	1.95	2.93	-	107	107	-	55	55			
Other, not elsewhere classified-----	-	-	3	3	3	23	26	3.7	-	1.46	1.46	11.22	-	2	2	-	2	2			
Unclassified (no data)-----	-	-	8	8	8	13	21	9.8	-	3.90	3.90	6.34	-	104	104	-	27	27			
Total or average-----	-	-	82	82	82	147	229	-	-	39.99	39.99	71.68	-	1,364	1,364	-	34	34			

See footnote at end of table.

TABLE 24. - Number of injuries, injury rates, and average severity at Pennsylvania anthracite mines, by nature of injury, 1974 - Continued

General work location and nature of injury	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity				
	Fatal	Nonfatal disabling				All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling		
		Permanent		Temporary total	All non-fatal disabling															Severity rates per million man-hours	
		Total	Partial																	Severity rates per million man-hours	Average severity
Culm banks:																					
Burn, scald (except chemical)	-	-	-	1	1	1	-	1	10.0	-	3.72	3.72	-	-	11	11	-	3	3		
Crushing, contusion	-	-	-	1	1	1	1	2	10.0	-	3.72	3.72	3.72	-	19	19	-	5	5		
Cut, laceration	-	-	-	-	-	-	-	1	-	-	-	3.72	-	-	-	-	-	-	-		
Fracture	-	-	-	1	1	1	1	2	10.0	-	3.72	3.72	3.72	-	171	171	-	46	46		
Strain, sprain	-	-	-	4	4	4	-	4	40.0	-	14.89	14.89	-	-	78	78	-	5	5		
Other, not elsewhere classified	-	-	-	-	-	-	3	3	-	-	-	11.17	-	-	-	-	-	-	-		
Unclassified (no data)	-	-	-	3	3	3	-	3	30.0	-	11.17	11.17	-	-	145	145	-	13	13		
Total or average	-	-	-	10	10	10	6	16	-	-	37.23	37.23	22.34	-	424	424	-	11	11		
Total or average, surface	-	-	-	92	92	92	153	245	-	-	39.66	39.66	65.96	-	1,255	1,255	-	32	32		
Total or average, mining	2	-	-	139	139	141	169	310	-	0.67	46.85	47.52	56.96	4,045	1,504	5,549	-	32	117		
Independent shops and yards:																					
Burn, scald (except chemical)	-	-	-	-	-	-	6	6	-	-	-	-	29.85	-	-	-	-	-	-		
Crushing, contusion	-	-	-	3	3	3	5	8	27.3	-	14.93	14.93	24.88	-	100	100	-	7	7		
Cut, laceration	-	-	-	-	-	-	8	8	-	-	-	-	39.80	-	-	-	-	-	-		
Fracture	-	-	-	4	4	4	-	4	36.4	-	19.90	19.90	-	-	711	711	-	36	36		
Scratches	-	-	-	-	-	-	1	1	-	-	-	4.98	-	-	-	-	-	-	-		
Strain, sprain	-	-	-	-	-	-	6	6	-	-	-	-	29.85	-	-	-	-	-	-		
Multiple injuries	-	-	-	3	3	3	4	7	27.3	-	14.93	14.93	19.90	-	15	15	-	1	1		
Unclassified (no data)	-	-	-	1	1	1	1	2	9.1	-	4.98	4.98	4.98	-	80	80	-	16	16		
Total or average	-	-	-	11	11	11	31	42	-	-	54.73	54.73	154.23	-	906	906	-	17	17		
Mechanical cleaning plants:																					
Burn, scald (except chemical)	-	-	-	7	7	7	7	14	7.2	-	3.62	3.62	3.62	-	92	92	-	26	26		
Crushing, contusion	-	-	-	24	24	24	45	69	24.7	-	12.40	12.40	23.25	-	380	380	-	31	31		
Cut, laceration	-	-	-	15	15	15	51	66	15.5	-	7.75	7.75	26.35	-	100	100	-	13	13		
Dermatitis	-	-	-	-	-	-	1	1	-	-	-	-	.52	-	-	-	-	-	-		
Dislocation	-	-	-	1	1	1	-	1	1.0	-	.52	.52	-	-	19	19	-	36	36		
Fracture	-	-	-	7	7	7	7	3	10	-	3.62	3.62	1.55	-	240	240	-	66	66		
Hernia	-	-	-	1	1	1	-	1	1.0	-	.52	.52	-	-	43	43	-	84	84		
Strain, sprain	-	-	-	19	19	19	25	44	19.6	-	9.82	9.82	12.92	-	235	235	-	24	24		
Multiple injuries	-	-	-	6	6	6	6	12	6.2	-	3.10	3.10	3.10	-	462	462	-	149	149		
Other, not elsewhere classified	-	-	-	7	7	7	26	33	7.2	-	3.62	3.62	13.43	-	21	21	-	6	6		
Unclassified (no data)	-	-	-	10	10	10	8	18	10.3	-	5.17	5.17	4.13	-	143	143	-	28	28		
Total or average	-	-	-	97	97	97	172	269	-	-	50.12	50.12	88.87	-	1,734	1,734	-	35	35		
Grand total or average	2	-	-	247	247	249	372	621	-	.39	48.40	48.79	72.89	2,351	1,568	3,919	-	32	80		

1/ Less than 0.5.

TABLE 25. - Number of injuries at bituminous coal mines in the United States, by part of body injured and nature of injury, 1974

Nature of injury	Total			Part of body											
				Head, face, neck (excluding eye)			Eye			Trunk			Arm (above wrist)		
	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling
Amputation, enucleation---	1	147	1	-	-	-	-	2	-	-	-	-	-	4	-
Asphyxiation-----	3	9	5	-	-	-	-	-	-	1	-	1	-	-	-
Burn, scald (except chemical)-----	3	90	112	-	12	26	-	8	13	-	2	1	-	9	14
Burn, chemical-----	-	31	25	-	2	2	-	19	16	-	1	-	-	-	2
Concussion-----	-	16	2	-	16	2	-	-	-	-	-	-	-	-	-
Crushing, contusion-----	28	2,068	2,103	4	87	113	-	18	30	10	467	355	-	114	168
Cut, laceration-----	-	907	1,372	-	179	300	-	63	70	-	15	18	-	38	78
Dermatitis-----	-	1	10	-	1	-	-	-	-	-	-	-	-	-	2
Dislocation-----	1	43	18	-	2	-	-	-	-	1	25	7	-	1	-
Electric shock-----	7	10	9	-	-	-	-	-	-	-	-	-	-	1	1
Fracture-----	15	1,225	423	12	57	65	-	-	-	-	194	36	-	107	18
Freezing-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hearing loss-----	-	4	4	-	4	4	-	-	-	-	-	-	-	-	-
Heat exhaustion-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Hernia-----	-	88	19	-	-	-	-	-	-	-	87	19	-	-	-
Inflammation-----	-	18	5	-	-	-	-	-	-	-	1	1	-	-	1
Poisoning-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiation-----	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
Scratches-----	-	62	91	-	4	6	-	17	30	-	10	11	-	8	4
Strain, sprain-----	-	2,043	1,302	-	85	53	-	-	-	-	1,376	820	-	27	33
Cerebral hemorrhage-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multiple injuries-----	48	361	208	1	38	34	-	2	3	-	43	15	-	10	17
Other not elsewhere classified-----	-	442	764	-	25	28	-	257	606	-	9	8	-	17	10
Unclassified (no data)---	25	731	421	2	56	52	-	16	16	3	277	125	-	27	19
Total-----	131	8,298	6,895	19	568	685	-	402	735	15	2,507	1,417	-	363	367

TABLE 25. - Number of injuries at bituminous coal mines in the United States, by part of body injured and nature of injury, 1974 - Continued

Nature of injury	Part of body														
	Wrist, hand, fingers			Leg (above ankle)			Ankle, foot, toes			Multiple parts			Unclassified (no data)		
	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling
Amputation, enucleation-----	-	123	1	-	7	-	-	9	-	1	2	-	-	-	-
Asphyxiation-----	-	-	-	-	-	-	-	-	-	-	-	-	2	9	4
Burn, scald (except chemical)-----	-	15	35	-	11	6	-	5	8	3	28	7	-	-	2
Burn, chemical-----	-	-	2	-	8	3	-	1	-	-	-	-	-	-	-
Concussion-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crushing, contusion-----	-	387	636	1	405	383	-	388	285	10	192	121	3	10	12
Cut, laceration-----	-	411	673	-	96	134	-	72	83	-	31	11	-	2	5
Dermatitis-----	-	-	3	-	-	1	-	-	-	-	-	4	-	-	-
Dislocation-----	-	4	10	-	10	1	-	1	-	-	-	-	-	-	-
Electric shock-----	-	1	-	-	-	-	-	-	-	-	-	-	7	8	8
Fracture-----	-	335	229	2	171	4	1	312	71	-	48	-	-	1	-
Freezing-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hearing loss-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heat exhaustion-----	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Hernia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Inflammation-----	-	-	-	-	17	3	-	-	-	-	-	-	-	-	-
Poisoning-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Radiation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scratches-----	-	12	14	-	7	18	-	-	3	-	4	4	-	-	1
Strain, sprain-----	-	62	63	-	200	154	-	226	136	-	58	34	-	9	9
Cerebral hemorrhage-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multiple injuries-----	-	59	63	-	31	12	-	13	9	47	165	54	-	-	1
Other not elsewhere classified-----	-	77	80	-	14	10	-	2	-	-	40	22	-	1	-
Unclassified (no data)-----	-	107	81	-	73	42	-	77	37	2	64	30	18	34	19
Total-----	-	1,593	1,890	3	1,050	771	1	1,106	632	63	633	287	30	76	61

TABLE 26. - Number of injuries at Pennsylvania anthracite mines in the United States, by part of body injured and nature of injury, 1974

Nature of injury	Total			Part of body											
				Head, face, neck (excluding eye)			Eye			Trunk			Arm (above wrist)		
	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling	Fatal	Nonfatal disabling	Non- disabling
Amputation, enucleation---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asphyxiation-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Burn, scald (except chemical)-----	-	14	21	-	1	4	-	2	1	-	-	-	-	2	7
Burn, chemical-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Concussion-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crushing, contusion---	-	63	93	-	3	6	-	-	1	-	20	17	-	5	14
Cut, laceration-----	-	23	94	-	5	19	-	1	2	-	1	1	-	1	6
Dermatitis-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Dislocation-----	-	3	-	-	-	-	-	-	-	-	2	-	-	-	-
Electric shock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fracture-----	-	29	11	-	-	3	-	-	-	-	6	-	-	5	-
Freezing-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hearing loss-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heat exhaustion-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Hernia-----	-	3	-	-	-	-	-	-	-	-	3	-	-	-	-
Inflammation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poisoning-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scratches-----	-	2	4	-	-	-	-	1	1	-	1	-	-	-	2
Strain, sprain-----	-	56	53	-	2	1	-	-	-	-	34	36	-	2	1
Cerebral hemorrhage---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multiple injuries-----	1	10	12	-	-	3	-	-	-	-	-	1	-	-	1
Other, not elsewhere classified-----	-	19	58	-	-	1	-	16	49	-	2	2	-	-	1
Unclassified (no data)---	1	24	24	-	-	2	-	1	1	-	9	7	-	1	2
Total-----	2	247	372	-	11	39	-	21	55	-	78	64	-	16	34

TABLE 26. - Number of injuries at Pennsylvania anthracite mines in the United States, by part of body injured and nature of injury, 1974 - Continued

Nature of injury	Part of body														
	Wrist, hand, fingers			Leg (above ankle)			Ankle, foot, toes			Multiple parts			Unclassified (no data)		
	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling	Fatal	Nonfatal disabling	Non-disabling
Amputation, enucleation---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asphyxiation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burn, scald (except chemical)-----	-	3	5	-	1	2	-	3	2	-	2	-	-	-	-
Burn, chemical-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Concussion-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crushing, contusion-----	-	8	26	-	16	14	-	8	5	-	3	8	-	-	2
Cut, laceration-----	-	12	52	-	1	5	-	2	8	-	-	1	-	-	-
Dermatitis-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Dislocation-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Electric shock-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fracture-----	-	9	6	-	3	-	-	6	2	-	-	-	-	-	-
Freezing-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hearing loss-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heat exhaustion-----	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Hernia-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inflammation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poisoning-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiation-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scratches-----	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Strain, sprain-----	-	1	3	-	2	9	-	12	3	-	2	-	-	1	-
Heart attack-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cerebral hemorrhage-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multiple injuries-----	-	1	1	-	1	1	-	2	1	1	6	4	-	-	-
Other, not elsewhere classified-----	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-
Unclassified (no data)----	-	5	7	-	2	2	-	3	-	-	1	2	1	2	1
Total-----	-	41	104	-	26	35	-	36	21	1	14	16	1	4	4

TABLE 27. - Closed cases ^{1/} of temporary total injuries, for which companies reported days of disability, at coal mines, by days of disability per injury and kind of coal, 1974

Days of disability per injury	Number of closed temporary total injuries			Percent of total
	Bituminous coal	Pennsylvania anthracite	Total	
1-----	601	32	633	7.9
2-----	347	20	367	4.6
3-----	435	13	448	5.6
4-----	437	14	451	5.7
5-----	391	16	407	5.1
6-----	346	8	354	4.4
7-----	197	5	202	2.5
8-----	144	5	149	1.9
9-----	198	5	203	2.5
10-----	198	6	204	2.6
11-----	162	5	167	2.1
12-----	154	4	158	2.0
13-----	191	3	194	2.4
14-----	84	3	87	1.1
15-----	91	3	94	1.2
16-----	120	5	125	1.6
17-----	119	3	122	1.5
18-----	98	7	105	1.3
19-----	104	2	106	1.3
20-----	93	3	96	1.2
21-----	51	1	52	.7
22-----	54	3	57	.7
23-----	71	0	71	.9
24-----	75	2	77	1.0
25-----	57	2	59	.7
26-----	64	0	64	.8
27-----	65	2	67	.8
28-----	42	0	42	.5
29-----	41	3	44	.6
30-----	47	1	48	.6
31-----	63	1	64	.8
32-----	61	1	62	.8
33-----	64	1	65	.8
34-----	54	0	54	.7
35-----	31	0	31	.4
36-----	32	0	32	.4
37-----	54	3	57	.7
38-----	56	0	56	.7
39-----	48	0	48	.6
40-----	42	0	42	.5
41-----	59	1	60	.8
42-----	27	0	27	.3
43-----	28	0	28	.4
44-----	53	1	54	.7
45-----	60	1	61	.8
46-60-----	509	18	527	6.6
61-90-----	542	19	561	7.0
91-120-----	281	6	287	3.6
121-150-----	198	2	200	2.5
151 or more-----	404	8	412	5.2
Total-----	7,743	238	7,981	-

^{1/} In addition to the closed temporary total injuries, there were 383 temporary total injuries for which days of disability were not reported at bituminous coal mines and 9 at Pennsylvania anthracite mines. To obtain total severity data for the industry, these "open cases" were closed by assigning average days of disability by detailed cause classification.

TABLE 28. - Number of injuries, frequency rates per million man-hours, employment, worktime, and production data at bituminous coal mines in the United States, by general work location and employment size group, 1974

General work location and employment size group	Number of injuries					Frequency rates per million man-hours					Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of operations	
	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries						
Underground mines (includes surface works):																
1 to 4-----	5	10	15	1	16	18.46	36.92	55.38	3.69	59.07	291	270,863	366,722	1.35	87	
5 to 9-----	5	39	44	16	60	2.97	23.13	26.09	9.49	35.58	1,683	1,686,325	3,157,616	1.88	212	
10 to 19-----	6	189	195	119	314	1.01	31.76	32.77	20.00	52.77	4,604	5,950,670	10,490,793	1.76	324	
20 to 34-----	7	317	324	231	555	1.03	46.81	47.85	34.11	81.96	4,682	6,771,476	11,333,833	1.67	179	
35 to 49-----	7	311	318	235	553	.90	39.94	40.83	30.18	71.01	4,545	7,787,639	11,660,519	1.50	110	
50 to 99-----	9	774	783	655	1,438	.52	44.69	45.20	37.81	83.02	10,252	17,321,233	22,981,463	1.33	138	
100 to 149-----	9	855	864	560	1,424	.45	42.35	42.80	27.74	70.54	14,573	20,187,781	25,085,259	1.24	120	
150 to 249-----	13	1,465	1,478	1,093	2,571	.36	40.90	41.26	30.51	71.78	20,579	35,819,491	49,236,865	1.37	107	
250 or more-----	34	2,682	2,716	2,326	5,042	.36	28.25	28.61	24.50	53.11	51,525	94,940,279	129,085,119	1.36	125	
Total or average---	95	6,642	6,737	5,236	11,973	.50	34.82	35.32	27.45	62.77	112,734	190,735,757	263,398,189	1.38	1,402	
Strip mines:																
1 to 4-----	-	7	7	7	14	-	6.73	6.73	6.73	13.46	799	1,040,197	4,126,132	3.97	280	
5 to 9-----	1	43	44	21	65	.30	12.86	13.16	6.28	19.44	2,045	3,343,795	11,493,396	3.44	288	
10 to 19-----	7	102	109	88	197	.85	12.33	13.17	10.64	23.81	4,985	8,273,353	26,890,232	3.25	346	
20 to 34-----	2	203	205	184	389	.19	18.99	19.18	17.22	36.40	5,839	10,688,108	37,075,702	3.47	225	
35 to 49-----	4	75	79	75	154	.65	12.12	12.77	12.12	24.89	3,191	6,188,376	25,778,540	4.17	77	
50 to 99-----	4	265	269	229	498	.32	21.10	21.42	18.24	39.66	6,697	12,556,667	54,290,459	4.32	99	
100 to 149-----	4	210	214	210	424	.36	18.71	19.07	18.71	37.78	5,382	11,221,525	61,120,504	5.45	44	
150 to 249-----	1	137	138	102	240	.12	16.28	16.40	12.12	28.52	6,884	8,413,794	31,540,418	3.75	36	
250 or more-----	1	105	106	121	227	.11	11.37	11.48	13.11	24.59	5,435	9,231,747	37,532,486	4.07	17	
Total or average---	24	1,147	1,171	1,037	2,208	.34	16.16	16.50	14.61	31.12	41,257	70,957,562	289,847,869	4.08	1,412	
Auger mines:																
1 to 4-----	1	14	15	4	19	2.12	29.68	31.80	8.48	40.28	415	471,641	2,597,377	5.51	136	
5 to 9-----	1	3	4	11	15	1.56	4.69	6.25	17.18	23.43	486	640,152	3,214,224	5.02	78	
10 to 19-----	-	2	2	9	11	-	6.29	6.29	28.29	34.57	265	318,151	1,180,799	3.71	22	
20 to 34-----	-	4	4	3	7	-	33.45	33.45	25.09	58.54	74	119,579	299,648	2.51	3	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	74	143,494	247,144	1.72	2	
50 to 99-----	-	1	1	-	1	-	29.36	29.36	-	29.36	75	34,056	9,372	.28	1	
100 to 149-----	-	2	2	1	3	-	20.53	20.53	10.26	30.79	215	97,437	22,347	.23	2	
150 to 249-----	-	2	2	-	2	-	33.56	33.56	-	33.56	376	59,598	-	-	2	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average---	2	28	30	28	58	1.06	14.86	15.92	14.86	30.78	1,980	1,884,108	7,570,911	4.02	246	

TABLE 28. - Number of injuries, frequency rates per million man-hours, employment, worktime, and production data at bituminous coal mines in the United States, by general work location and employment size group, 1974 - Continued

General work location and employment size group	Number of injuries					Frequency rates per million man-hours					Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of operations	
	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries						
Other surface mining:																
1 to 4-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 to 9-----	-	-	-	-	-	-	-	-	-	-	12	11,212	22,794	2.03	1	
10 to 19-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 to 34-----	-	-	-	-	-	-	-	-	-	-	20	13,680	-	-	1	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50 to 99-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 to 149-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average-----	-	-	-	-	-	-	-	-	-	-	32	24,892	22,794	.92	2	
Total or average, surface-----	26	1,175	1,201	1,065	2,266	0.36	16.13	16.48	14.62	31.10	43,269	72,866,562	297,441,574	4.08	1,660	
Total or average, mining-----	121	7,817	7,938	6,301	14,239	.46	29.65	30.11	23.90	54.02	156,003	263,602,319	560,839,763	2.13	3,062	
Independent shops and yards:																
1 to 4-----	-	1	1	-	1	-	11.84	11.84	-	11.84	41	84,481	-	-	16	
5 to 9-----	-	2	2	-	2	-	19.62	19.62	-	19.62	55	101,924	-	-	9	
10 to 19-----	-	14	14	15	29	-	31.56	31.56	33.81	65.37	228	443,652	-	-	17	
20 to 34-----	-	14	14	11	25	-	21.46	21.46	16.86	38.31	345	652,487	-	-	13	
35 to 49-----	-	10	10	20	30	-	11.99	11.99	23.98	35.97	456	834,057	-	-	11	
50 to 99-----	-	27	27	28	55	-	12.26	12.26	12.72	24.98	1,131	2,201,593	-	-	16	
100 to 149-----	-	3	3	14	17	-	4.35	4.35	20.29	24.63	328	690,154	-	-	3	
150 to 249-----	-	-	-	3	3	-	-	-	8.78	8.78	192	341,540	-	-	1	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average-----	-	71	71	91	162	-	13.27	13.27	17.01	30.28	2,776	5,349,888	-	-	86	
Mechanical cleaning plants:																
1 to 4-----	2	29	31	14	45	2.39	34.64	37.03	16.72	53.76	508	837,080	-	-	181	
5 to 9-----	2	29	31	22	53	1.11	16.10	17.21	12.21	29.42	1,138	1,801,305	-	-	158	
10 to 19-----	-	84	84	76	160	-	23.84	23.84	21.57	45.42	1,893	3,523,002	-	-	130	
20 to 34-----	2	95	97	133	230	.35	16.69	17.04	23.36	40.40	3,324	5,692,421	-	-	122	
35 to 49-----	3	65	68	70	138	.81	17.55	18.36	18.90	37.25	2,029	3,704,213	-	-	49	
50 to 99-----	-	90	90	164	254	-	18.79	18.79	34.24	53.03	2,529	4,790,168	-	-	39	
100 to 149-----	-	2	2	11	13	-	2.15	2.15	11.82	13.97	504	930,252	-	-	4	
150 to 249-----	1	12	13	11	24	.79	9.52	10.31	8.72	19.04	2,250	1,260,758	-	-	12	
250 or more-----	-	4	4	2	6	-	22.14	22.14	11.07	33.22	634	180,631	-	-	2	
Total or average-----	10	410	420	503	923	.44	18.05	18.49	22.14	40.63	14,809	22,719,830	-	-	697	
Grand total or average-----	131	8,298	8,429	6,895	15,324	.45	28.45	28.90	23.64	52.54	173,588	291,672,037	560,839,763	1.92	3,845	

TABLE 29. - Number of injuries, frequency rates per million man-hours, employment, worktime, and production data at Pennsylvania anthracite mines in the United States, by general work location and employment size group, 1974

General work location and employment size group	Number of injuries					Frequency rates per million man-hours					Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of operations	
	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries						
Underground mines (includes surface works):																
1 to 4-----	1	-	1	1	2	10.07	-	10.07	10.07	20.14	71	99,284	75,147	0.76	24	
5 to 9-----	-	3	3	2	5	-	24.77	24.77	16.51	41.28	84	121,114	88,893	.73	12	
10 to 19-----	1	24	25	7	32	6.18	148.41	154.59	43.29	197.88	84	161,715	188,359	1.16	7	
20 to 34-----	-	-	-	-	-	-	-	-	-	-	20	29,755	36,585	1.23	1	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50 to 99-----	-	20	20	6	26	-	85.00	85.00	25.50	110.50	176	235,298	175,681	.75	2	
100 to 149-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average----	2	47	49	16	65	3.09	72.62	75.71	24.72	100.44	435	647,166	564,665	.87	46	
Strip mines:																
1 to 4-----	-	2	2	-	2	-	34.02	34.02	-	34.02	41	58,787	84,264	1.43	20	
5 to 9-----	-	6	6	8	14	-	30.30	30.30	40.40	70.70	128	198,026	240,223	1.21	18	
10 to 19-----	-	11	11	21	32	-	32.03	32.03	61.15	93.18	195	343,437	440,944	1.28	15	
20 to 34-----	-	6	6	9	15	-	16.61	16.61	24.91	41.52	189	361,255	452,151	1.25	7	
35 to 49-----	-	3	3	8	11	-	16.16	16.16	43.11	59.27	110	185,592	266,294	1.43	3	
50 to 99-----	-	47	47	73	120	-	80.76	80.76	125.44	206.20	346	581,951	1,024,622	1.76	5	
100 to 149-----	-	7	7	28	35	-	21.77	21.77	87.06	108.83	245	321,602	216,056	.67	2	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average----	-	82	82	147	229	-	39.99	39.99	71.68	111.67	1,254	2,050,650	2,724,554	1.33	70	
Culm banks:																
1 to 4-----	-	-	-	-	-	-	-	-	-	-	75	73,748	702,905	9.53	28	
5 to 9-----	-	3	3	2	5	-	43.02	43.02	28.68	71.71	50	69,730	800,594	11.48	9	
10 to 19-----	-	1	1	-	1	-	48.07	48.07	-	48.07	17	20,804	-	-	1	
20 to 34-----	-	6	6	4	10	-	57.53	57.53	38.36	95.89	75	104,285	141,182	1.35	4	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50 to 99-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 to 149-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average----	-	10	10	6	16	-	37.23	37.23	22.34	59.58	217	268,567	1,644,681	6.12	42	

TABLE 29. - Number of injuries, frequency rates per million man-hours, employment, worktime, and production data at Pennsylvania anthracite mines in the United States, by general work location and employment size group, 1974 - Continued

General work location and employment size group	Number of injuries					Frequency rates per million man-hours					Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of operations	
	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries						
Dredges:																
1 to 4-----	-	-	-	-	-	-	-	-	-	-	3	494	-	-	1	
5 to 9-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 to 19-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 to 34-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50 to 99-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 to 149-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average---	-	-	-	-	-	-	-	-	-	-	3	494	-	-	1	
Total or average, surface-----	-	92	92	153	245	-	39.66	39.66	65.96	105.62	1,474	2,319,711	4,369,235	1.88	113	
Total or average, mining-----	2	139	141	169	310	0.67	46.85	47.52	56.96	104.49	1,909	2,966,877	4,933,900	1.66	159	
Independent shops and yards:																
1 to 4-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5 to 9-----	-	1	1	3	4	-	33.31	33.31	99.94	133.25	13	30,019	-	-	2	
10 to 19-----	-	5	5	15	20	-	64.05	64.05	192.16	256.22	46	78,058	-	-	3	
20 to 34-----	-	5	5	11	16	-	64.99	64.99	142.97	207.95	47	76,940	-	-	2	
35 to 49-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50 to 99-----	-	-	-	2	2	-	-	-	125.19	125.19	57	15,976	-	-	1	
100 to 149-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150 to 249-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average---	-	11	11	31	42	-	54.73	54.73	154.23	208.96	163	200,993	-	-	8	
Mechanical cleaning plants:																
1 to 4-----	-	3	3	-	3	-	29.61	29.61	-	29.61	51	101,317	-	-	19	
5 to 9-----	-	3	3	2	5	-	15.98	15.98	10.66	26.64	123	187,699	-	-	18	
10 to 19-----	-	8	8	10	18	-	28.70	28.70	35.87	64.57	177	278,772	-	-	13	
20 to 34-----	-	27	27	55	82	-	61.05	61.05	124.36	185.41	242	442,258	-	-	9	
35 to 49-----	-	29	29	47	76	-	65.28	65.28	105.80	171.08	241	444,228	-	-	6	
50 to 99-----	-	21	21	39	60	-	69.07	69.07	128.28	197.35	209	304,028	-	-	3	
100 to 149-----	-	6	6	18	24	-	40.70	40.70	122.10	162.80	106	147,419	-	-	1	
150 to 249-----	-	-	-	1	1	-	-	-	33.56	33.56	188	29,799	-	-	1	
250 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average---	-	97	97	172	269	-	50.12	50.12	88.87	138.98	1,337	1,935,520	-	-	70	
Grand total or average-----	2	247	249	372	621	.39	48.40	48.79	72.89	121.68	3,409	5,103,390	4,933,900	.97	237	

TABLE 30. - Number of injuries and frequency rates per million tons at bituminous coal mines in the United States,
by general work location and employment size group, 1974

General work location and employment size group	Number of injuries					Frequency rates per million tons				
	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries
Underground mines (includes surface works):										
1 to 4-----	5	10	15	1	16	13.63	27.27	40.90	2.73	43.63
5 to 9-----	5	39	44	16	60	1.58	12.35	13.93	5.07	19.00
10 to 19-----	6	189	195	119	314	.57	18.02	18.59	11.34	29.93
20 to 34-----	7	317	324	231	555	.62	27.97	28.59	20.38	48.97
35 to 49-----	7	311	318	235	553	.60	26.67	27.27	20.15	47.42
50 to 99-----	9	774	783	655	1,438	.39	33.68	34.07	28.50	62.57
100 to 149-----	9	855	864	560	1,424	.36	34.08	34.44	22.32	56.77
150 to 249-----	13	1,465	1,478	1,093	2,571	.26	29.75	30.02	22.20	52.22
250 or more-----	34	2,682	2,716	2,326	5,042	.26	20.78	21.04	18.02	39.06
Total or average-----	95	6,642	6,737	5,236	11,973	.36	25.22	25.58	19.88	45.46
Strip mines:										
1 to 4-----	-	7	7	7	14	-	1.70	1.70	1.70	3.39
5 to 9-----	1	43	44	21	65	.09	3.74	3.83	1.83	5.66
10 to 19-----	7	102	109	88	197	.26	3.79	4.05	3.27	7.33
20 to 34-----	2	203	205	184	389	.05	5.48	5.53	4.96	10.49
35 to 49-----	4	75	79	75	154	.16	2.91	3.06	2.91	5.97
50 to 99-----	4	265	269	229	498	.07	4.88	4.95	4.22	9.17
100 to 149-----	4	210	214	210	424	.07	3.44	3.50	3.44	6.94
150 to 249-----	1	137	138	102	240	.03	4.34	4.38	3.23	7.61
250 or more-----	1	105	106	121	227	.03	2.80	2.82	3.22	6.05
Total or average-----	24	1,147	1,171	1,037	2,208	.08	3.96	4.04	3.58	7.62
Auger mines:										
1 to 4-----	1	14	15	4	19	.39	5.39	5.78	1.54	7.32
5 to 9-----	1	3	4	11	15	.31	.93	1.24	3.42	4.67
10 to 19-----	-	2	2	9	11	-	1.69	1.69	7.62	9.32
20 to 34-----	-	4	4	3	7	-	13.35	13.35	10.01	23.36
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	1	1	-	1	-	106.70	106.70	-	106.70
100 to 149-----	-	2	2	1	3	-	89.50	89.50	44.75	134.25
150 to 249-----	-	2	2	-	2	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	2	28	30	28	58	.26	3.70	3.96	3.70	7.66

TABLE 30. - Number of injuries and frequency rates per million tons at bituminous coal mines in the United States,
by general work location and employment size group, 1974 - Continued

General work location and employment size group	Number of injuries					Frequency rates per million tons				
	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries
Other surface mining:										
1 to 4-----	-	-	-	-	-	-	-	-	-	-
5 to 9-----	-	-	-	-	-	-	-	-	-	-
10 to 19-----	-	-	-	-	-	-	-	-	-	-
20 to 34-----	-	-	-	-	-	-	-	-	-	-
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	-	-	-	-	-	-	-	-	-
100 to 149-----	-	-	-	-	-	-	-	-	-	-
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	-	-	-	-	-	-	-	-	-
Total or average, surface-----	26	1,175	1,201	1,065	2,266	0.09	3.95	4.04	3.58	7.62
Total or average, mining-----	121	7,817	7,938	6,301	14,239	.22	13.94	14.15	11.23	25.39
Independent shops and yards:										
1 to 4-----	-	1	1	-	1	-	-	-	-	-
5 to 9-----	-	2	2	-	2	-	-	-	-	-
10 to 19-----	-	14	14	15	29	-	-	-	-	-
20 to 34-----	-	14	14	11	25	-	-	-	-	-
35 to 49-----	-	10	10	20	30	-	-	-	-	-
50 to 99-----	-	27	27	28	55	-	-	-	-	-
100 to 149-----	-	3	3	14	17	-	-	-	-	-
150 to 249-----	-	-	-	3	3	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	71	71	91	162	-	-	-	-	-
Mechanical cleaning plants:										
1 to 4-----	2	29	31	14	45	-	-	-	-	-
5 to 9-----	2	29	31	22	53	-	-	-	-	-
10 to 19-----	-	84	84	76	160	-	-	-	-	-
20 to 34-----	2	95	97	133	230	-	-	-	-	-
35 to 49-----	3	65	68	70	138	-	-	-	-	-
50 to 99-----	-	90	90	164	254	-	-	-	-	-
100 to 149-----	-	2	2	11	13	-	-	-	-	-
150 to 249-----	1	12	13	11	24	-	-	-	-	-
250 or more-----	-	4	4	2	6	-	-	-	-	-
Total or average-----	10	410	420	503	923	-	-	-	-	-
Grand total or average-----	131	8,298	8,429	6,895	15,324	.23	14.80	15.03	12.29	27.32

TABLE 31. - Number of injuries and frequency rates per million tons at Pennsylvania anthracite mines in the United States, by general work location and employment size group, 1974

General work location and employment size group	Number of injuries					Frequency rates per million tons				
	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries
Underground mines (includes surface works):										
1 to 4-----	1	-	1	1	2	13.31	-	13.31	13.31	26.61
5 to 9-----	-	3	3	2	5	-	33.75	33.75	22.50	56.25
10 to 19-----	1	24	25	7	32	5.31	127.42	132.73	37.16	169.89
20 to 34-----	-	-	-	-	-	-	-	-	-	-
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	20	20	6	26	-	113.84	113.84	34.15	148.00
100 to 149-----	-	-	-	-	-	-	-	-	-	-
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	2	47	49	16	65	3.54	83.24	86.78	28.34	115.11
Strip mines:										
1 to 4-----	-	2	2	-	2	-	23.73	23.73	-	23.73
5 to 9-----	-	6	6	8	14	-	24.98	24.98	33.30	58.28
10 to 19-----	-	11	11	21	32	-	24.95	24.95	47.63	72.57
20 to 34-----	-	6	6	9	15	-	13.27	13.27	19.90	33.17
35 to 49-----	-	3	3	8	11	-	11.27	11.27	30.04	41.31
50 to 99-----	-	47	47	73	120	-	45.87	45.87	71.25	117.12
100 to 149-----	-	7	7	28	35	-	32.40	32.40	129.60	162.00
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	82	82	147	229	-	30.10	30.10	53.95	84.05
Culm banks:										
1 to 4-----	-	-	-	-	-	-	-	-	-	-
5 to 9-----	-	3	3	2	5	-	3.75	3.75	2.50	6.25
10 to 19-----	-	1	1	-	1	-	-	-	-	-
20 to 34-----	-	6	6	4	10	-	42.50	42.50	28.33	70.83
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	-	-	-	-	-	-	-	-	-
100 to 149-----	-	-	-	-	-	-	-	-	-	-
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	10	10	6	16	-	6.08	6.08	3.65	9.73

TABLE 31. - Number of injuries and frequency rates per million tons at Pennsylvania anthracite mines in the United States, by general work location and employment size group, 1974 - Continued

General work location and employment size group	Number of injuries					Frequency rates per million tons				
	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries	Fatal	Nonfatal disabling	All disabling	Nondisabling	All injuries
Dredges:										
1 to 4-----	-	-	-	-	-	-	-	-	-	-
5 to 9-----	-	-	-	-	-	-	-	-	-	-
10 to 19-----	-	-	-	-	-	-	-	-	-	-
20 to 34-----	-	-	-	-	-	-	-	-	-	-
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	-	-	-	-	-	-	-	-	-
100 to 149-----	-	-	-	-	-	-	-	-	-	-
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	-	-	-	-	-	-	-	-	-
Total or average, surface-----	-	92	92	153	245	-	21.06	21.06	35.02	56.07
Total or average, mining-----	2	139	141	169	310	0.41	28.17	28.58	34.25	62.83
Independent shops and yards:										
1 to 4-----	-	-	-	-	-	-	-	-	-	-
5 to 9-----	-	1	1	3	4	-	-	-	-	-
10 to 19-----	-	5	5	15	20	-	-	-	-	-
20 to 34-----	-	5	5	11	16	-	-	-	-	-
35 to 49-----	-	-	-	-	-	-	-	-	-	-
50 to 99-----	-	-	-	2	2	-	-	-	-	-
100 to 149-----	-	-	-	-	-	-	-	-	-	-
150 to 249-----	-	-	-	-	-	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	11	11	31	42	-	-	-	-	-
Mechanical cleaning plants:										
1 to 4-----	-	3	3	-	3	-	-	-	-	-
5 to 9-----	-	3	3	2	5	-	-	-	-	-
10 to 19-----	-	8	8	10	18	-	-	-	-	-
20 to 34-----	-	27	27	55	82	-	-	-	-	-
35 to 49-----	-	29	29	47	76	-	-	-	-	-
50 to 99-----	-	21	21	39	60	-	-	-	-	-
100 to 149-----	-	6	6	18	24	-	-	-	-	-
150 to 249-----	-	-	-	1	1	-	-	-	-	-
250 or more-----	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	97	97	172	269	-	-	-	-	-
Grand total or average-----	2	247	249	372	621	.41	50.06	50.47	75.40	125.86

TABLE 33. - Injury experience, worktime, and production data at Pennsylvania anthracite mines in the United States, by production size group, 1974

General work location and production size group	Number of injuries					Frequency rates										Average men working daily	Man-hours worked	Production, short tons	Tons per man-hour	Number of mines
						Per million man-hours					Per million tons									
	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries	Fatal	Non-fatal disabling	All disabling	Non-disabling	All injuries					
Underground mines (includes surface works):																				
Less than 25,000-----	2	21	23	11	34	4.86	51.03	55.89	26.73	82.61	8.33	87.43	95.76	45.80	141.55	310	411,552	240,194	0.58	41
25,000 to 49,999-----	-	9	9	5	14	-	118.31	118.31	65.73	184.04	-	81.49	81.49	45.27	126.76	43	76,069	110,448	1.45	3
50,000 to 99,999-----	-	3	3	-	3	-	160.68	160.68	-	160.68	-	56.27	56.27	-	56.27	10	18,671	53,315	2.86	1
100,000 to 149,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150,000 to 249,999-----	-	14	14	-	14	-	99.38	99.38	-	99.38	-	87.11	87.11	-	87.11	72	140,874	160,708	1.14	1
250,000 to 499,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500,000 to 749,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750,000 to 999,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average-----	2	47	49	16	65	3.09	72.62	75.71	24.72	100.44	3.54	83.24	86.78	28.34	115.11	435	647,166	564,665	.87	46
Strip mines:																				
Less than 25,000-----	-	10	10	15	25	-	24.74	24.74	37.11	61.85	-	29.89	29.89	44.84	74.73	295	404,195	334,547	.83	44
25,000 to 49,999-----	-	10	10	16	26	-	32.30	32.30	51.69	83.99	-	26.01	26.01	41.61	67.62	170	309,555	384,521	1.24	11
50,000 to 99,999-----	-	5	5	18	23	-	11.87	11.87	42.72	54.59	-	9.49	9.49	34.15	43.63	264	421,353	527,117	1.25	7
100,000 to 149,999-----	-	25	25	43	68	-	52.01	52.01	89.46	141.47	-	53.27	53.27	91.63	144.90	277	480,678	469,286	.98	4
150,000 to 249,999-----	-	12	12	20	32	-	66.15	66.15	110.25	176.39	-	28.70	28.70	47.83	76.52	86	181,412	418,179	2.31	2
250,000 to 499,999-----	-	20	20	35	55	-	78.90	78.90	138.07	216.97	-	33.85	33.85	59.23	93.08	162	253,487	590,904	2.33	2
500,000 to 749,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750,000 to 999,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	82	82	147	229	-	39.99	39.99	71.68	111.67	-	30.10	30.10	53.95	84.05	1,254	2,050,650	2,724,554	1.33	70
Culm banks:																				
Less than 25,000-----	-	2	2	2	4	-	24.73	24.73	24.73	49.46	-	11.34	11.34	11.34	22.68	108	80,871	176,362	2.18	24
25,000 to 49,999-----	-	-	-	1	1	-	-	-	26.93	26.93	-	-	-	4.02	4.02	25	37,139	248,950	6.70	7
50,000 to 99,999-----	-	5	5	2	7	-	47.07	47.07	18.83	65.90	-	12.89	12.89	5.16	18.05	54	106,219	387,843	3.65	5
100,000 to 149,999-----	-	3	3	1	4	-	88.97	88.97	29.66	118.62	-	5.37	5.37	1.79	7.16	24	33,720	559,047	16.58	5
150,000 to 249,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250,000 to 499,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	10,618	272,479	25.66	1
500,000 to 749,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750,000 to 999,999-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 or more-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average-----	-	10	10	6	16	-	37.23	37.23	22.34	59.58	-	6.08	6.08	3.65	9.73	217	268,567	1,644,681	6.12	42
Dredges:																				
Total or average, surface---	-	92	92	153	245	-	39.66	39.66	65.96	105.62	-	21.06	21.06	35.02	56.07	1,474	2,319,711	4,369,235	1.88	113
Total or average, mining----	2	139	141	169	310	.67	46.85	47.52	56.96	104.49	.41	28.17	28.58	34.25	62.83	1,909	2,966,877	4,933,900	1.66	159
Independent shops and yards:	-	11	11	31	42	-	54.73	54.73	154.23	208.96	-	-	-	-	-	163	200,993	-	-	8
Mechanical cleaning plants:	-	97	97	172	269	-	50.12	50.12	88.87	138.98	-	-	-	-	-	1,337	1,935,520	-	-	70
Grand total or average-----	2	247	249	372	621	.39	48.40	48.79	72.89	121.68	.41	50.06	50.47	75.40	125.86	3,409	5,103,390	4,933,900	.97	237

TABLE 34. - Relative standing of States according to fatal, nonfatal, all disabling, and nondisabling injury rates per million man-hours of exposure, 1974

State	Fatality rate	State	Nonfatal disabling injury rate	State	All disabling injury rate	State	Non-disabling injury rate
Alaska-----	-	Maryland-----	4.42	Maryland-----	5.90	Iowa-----	-
Arkansas-----	-	Indiana-----	8.70	Indiana-----	8.87	Missouri-----	1.27
Iowa-----	-	Montana-----	12.13	Montana-----	12.13	Arizona-----	1.48
Kansas-----	-	Oklahoma-----	12.73	Oklahoma-----	12.73	Washington-----	2.68
Missouri-----	-	Arkansas-----	14.46	Arkansas-----	14.46	Arkansas-----	3.62
Montana-----	-	North Dakota-----	15.32	North Dakota-----	15.32	Oklahoma-----	5.88
North Dakota-----	-	New Mexico-----	15.54	Texas-----	15.64	Maryland-----	5.90
Oklahoma-----	-	Texas-----	15.64	New Mexico-----	16.61	Wyoming-----	7.86
Texas-----	-	Wyoming-----	18.72	Wyoming-----	19.09	Virginia-----	9.37
Washington-----	-	Tennessee-----	19.02	Ohio-----	19.29	Indiana-----	10.20
Indiana-----	0.17	Ohio-----	19.06	Alabama-----	19.61	Tennessee-----	11.66
Ohio-----	.23	Alabama-----	19.10	Tennessee-----	19.63	Illinois-----	12.10
Utah-----	.30	Arizona-----	20.67	Iowa-----	21.92	North Dakota-----	13.61
Pennsylvania (bituminous)--	.37	Iowa-----	21.92	Arizona-----	22.15	New Mexico-----	14.47
Wyoming-----	.37	Illinois-----	22.10	Illinois-----	22.58	Montana-----	15.17
Pennsylvania (anthracite)--	.39	Pennsylvania (bituminous)--	22.28	Pennsylvania (bituminous)--	22.65	Utah-----	15.25
Kentucky-----	.45	Colorado-----	24.47	Colorado-----	25.15	Colorado-----	15.29
U. S. Average (bituminous)-	.45	Missouri-----	26.03	Missouri-----	26.03	Alaska-----	16.25
U. S. Average (all coal)---	.45	Washington-----	26.84	Washington-----	26.84	Ohio-----	16.79
West Virginia-----	.48	Kentucky-----	27.25	Kentucky-----	27.71	U. S. Average (bituminous)-	23.64
Illinois-----	.49	U. S. Average (bituminous)-	28.45	U. S. Average (bituminous)-	28.90	U. S. Average (all coal)---	24.49
Alabama-----	.51	U. S. Average (all coal)---	28.79	U. S. Average (all coal)---	29.24	Pennsylvania (bituminous)--	24.50
Tennessee-----	.61	Virginia-----	28.91	Virginia-----	29.61	Kentucky-----	25.48
Colorado-----	.68	Kansas-----	30.38	Kansas-----	30.38	Alabama-----	27.05
Virginia-----	.70	West Virginia-----	41.35	West Virginia-----	41.83	Texas-----	28.43
New Mexico-----	1.07	Pennsylvania (anthracite)--	48.40	Pennsylvania (anthracite)--	48.79	West Virginia-----	34.84
Maryland-----	1.47	Utah-----	53.53	Utah-----	53.83	Kansas-----	43.88
Arizona-----	1.48	Alaska-----	65.00	Alaska-----	65.00	Pennsylvania (anthracite)--	72.89

TABLE 35. - Worktime and production data at coal mines in the United States, by State and general work location, 1974

State	Number of operations								Average men working daily									
	Under-ground	Strip	Other surface mining ¹	Total surface	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total	Underground mines			Strip mines	Other surface mining ¹	Total surface	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total
									Under-ground	Surface	Total							
Alabama-----	17	74	1	75	92	-	21	113	3,370	511	3,881	2,320	5	2,325	6,206	-	499	6,705
Alaska-----	-	1	-	1	1	-	1	2	-	-	-	73	-	73	73	-	6	79
Arizona-----	-	2	-	2	2	-	1	3	-	-	-	443	-	443	443	-	35	478
Arkansas-----	-	7	-	7	7	-	1	8	-	-	-	136	-	136	136	-	4	140
Colorado-----	22	7	-	7	29	-	7	36	1,114	158	1,272	222	-	222	1,494	-	25	1,519
Illinois-----	23	31	-	31	54	11	37	102	6,778	787	7,565	3,006	-	3,006	10,571	367	1,124	12,062
Indiana-----	2	29	-	29	31	3	13	47	24	12	36	2,447	-	2,447	2,483	167	241	2,891
Iowa-----	2	7	-	7	9	-	-	9	50	12	62	43	-	43	105	-	-	105
Kansas-----	-	5	-	5	5	-	1	6	-	-	-	147	-	147	147	-	16	163
Kentucky-----	376	275	93	368	744	6	160	910	17,526	2,166	19,692	10,715	775	11,490	31,182	192	3,176	34,550
Maryland-----	1	31	4	35	36	-	2	38	18	-	18	495	14	509	527	-	7	534
Missouri-----	-	10	1	11	11	1	5	17	-	-	-	653	3	656	656	47	50	753
Montana-----	-	7	1	8	8	-	-	8	-	-	-	461	38	499	499	-	-	499
New Mexico-----	1	5	-	5	6	-	4	10	205	45	250	478	-	478	728	-	255	983
North Dakota-----	-	9	-	9	9	-	2	11	-	-	-	293	-	293	293	-	5	298
Ohio-----	31	158	17	175	206	8	39	253	6,138	466	6,604	4,147	71	4,218	10,822	377	973	12,172
Oklahoma-----	-	17	-	17	17	-	6	23	-	-	-	498	-	498	498	-	26	524
Pennsylvania (bituminous)--	139	347	30	377	516	9	100	625	17,256	2,104	19,360	5,145	109	5,254	24,614	303	1,923	26,840
Tennessee-----	31	49	9	58	89	-	25	114	897	99	996	867	41	908	1,904	-	115	2,019
Texas-----	-	4	-	4	4	-	-	4	-	-	-	478	-	478	478	-	-	478
Utah-----	16	-	-	-	16	-	11	27	1,651	243	1,894	-	-	-	1,894	-	154	2,048
Virginia-----	198	125	25	150	348	17	42	407	9,481	537	10,018	2,107	295	2,402	12,420	306	756	13,482
Washington-----	1	2	-	2	3	-	2	5	7	3	10	358	-	358	368	-	29	397
West Virginia--	538	199	67	266	804	31	216	1,051	36,716	4,178	40,894	4,279	661	4,940	45,834	1,017	5,381	52,232
Wyoming-----	4	11	-	11	15	-	1	16	119	63	182	1,446	-	1,446	1,628	-	9	1,637
Total or average, bituminous--	1,402	1,412	248	1,660	3,062	86	697	3,845	101,350	11,384	112,734	41,257	2,012	43,269	156,003	2,776	14,809	173,588
Pennsylvania (anthracite)--	46	70	43	113	159	8	70	237	354	81	435	1,254	220	1,474	1,909	163	1,337	3,409
Grand total or average--	1,448	1,482	291	1,773	3,221	94	767	4,082	101,704	11,465	113,169	42,511	2,232	44,743	157,912	2,939	16,146	176,997

See footnote at end of table.

TABLE 35. - Worktime and production data at coal mines in the United States, by State and general work location, 1974 - Continued

State	Man-hours of work									
	Underground mines			Strip mines	Other surface mining ^{1/}	Total surface	Total mining	Independent shops and yards	Mechanical cleaning plants	Grand total
	Underground	Surface	Total							
Alabama-----	5,929,312	958,986	6,888,298	4,198,826	23,968	4,222,794	11,111,092	-	719,021	11,830,113
Alaska-----	-	-	-	169,409	-	169,409	169,409	-	15,210	184,619
Arizona-----	-	-	-	610,690	-	610,690	610,690	-	66,466	677,156
Arkansas-----	-	-	-	268,465	-	268,465	268,465	-	8,072	276,537
Colorado-----	2,141,692	268,504	2,410,196	481,041	-	481,041	2,891,237	-	51,621	2,942,858
Illinois-----	13,401,969	1,618,979	15,020,948	6,858,358	-	6,858,358	21,879,306	735,707	2,004,901	24,619,914
Indiana-----	29,983	15,290	45,273	5,069,219	-	5,069,219	5,114,492	348,630	514,905	5,978,027
Iowa-----	114,242	31,120	145,362	82,778	-	82,778	228,140	-	-	228,140
Kansas-----	-	-	-	266,285	-	266,285	266,285	-	29,982	296,267
Kentucky-----	29,573,416	2,997,457	32,570,873	14,701,686	868,427	15,570,113	48,140,986	351,727	4,457,863	52,950,576
Maryland-----	26,599	-	26,599	613,469	22,591	636,060	662,659	-	15,553	678,212
Missouri-----	-	-	-	1,384,024	3,884	1,387,908	1,387,908	82,963	104,002	1,574,873
Montana-----	-	-	-	910,650	78,272	988,922	988,922	-	-	988,922
New Mexico-----	384,284	85,067	469,351	1,012,013	-	1,012,013	1,481,364	-	384,801	1,866,165
North Dakota-----	-	-	-	579,859	-	579,859	579,859	-	7,748	587,607
Ohio-----	10,232,145	803,335	11,035,480	8,305,213	107,057	8,412,270	19,447,750	753,295	1,416,232	21,617,277
Oklahoma-----	-	-	-	984,243	-	984,243	984,243	-	36,636	1,020,879
Pennsylvania (bituminous)-----	31,652,416	3,935,089	35,587,505	10,864,311	62,770	10,927,081	46,514,586	539,390	3,717,117	50,771,093
Tennessee-----	1,565,360	143,962	1,709,322	1,261,176	67,284	1,328,460	3,037,782	-	222,397	3,260,179
Texas-----	-	-	-	703,518	-	703,518	703,518	-	-	703,518
Utah-----	2,663,339	416,208	3,079,547	-	-	-	3,079,547	-	264,313	3,343,860
Virginia-----	15,939,694	913,735	16,853,429	2,355,166	178,015	2,533,181	19,386,610	681,224	1,375,614	21,443,448
Washington-----	5,960	2,320	8,280	684,369	-	684,369	692,649	-	52,421	745,070
West Virginia-----	58,993,196	5,534,088	64,527,284	6,293,583	496,732	6,790,315	71,317,599	1,856,952	7,241,020	80,415,571
Wyoming-----	222,474	135,536	358,010	2,299,211	-	2,299,211	2,657,221	-	13,935	2,671,156
Total or average, bituminous-----	172,876,081	17,859,676	190,735,757	70,957,562	1,909,000	72,866,562	263,602,319	5,349,888	22,719,830	291,672,037
Pennsylvania (anthracite)-----	533,315	113,851	647,166	2,050,650	269,061	2,319,711	2,966,877	200,993	1,935,520	5,103,390
Grand total or average-----	173,409,396	17,973,527	191,382,923	73,008,212	2,178,061	75,186,273	266,569,196	5,550,881	24,655,350	296,775,427

See footnote at end of table.

TABLE 35. - Worktime and production data at coal mines in the United States, by State and general work location, 1974 - Continued

State	Production short tons					Tons per man-hour				
	Underground mines	Strip mines	Other surface mining ^{1/}	Total surface	Grand total	Underground mines	Strip mines	Other surface mining ^{1/}	Total surface	Grand total
Alabama-----	7,073,370	11,894,042	56,718	11,950,760	19,024,130	1.03	2.83	2.37	2.83	1.61
Alaska-----	-	716,360	-	716,360	716,360	-	4.23	-	4.23	3.88
Arizona-----	-	6,578,783	-	6,578,783	6,578,783	-	10.77	-	10.77	9.72
Arkansas-----	-	449,809	-	449,809	449,809	-	1.68	-	1.68	1.63
Colorado-----	3,200,039	3,626,231	-	3,626,231	6,826,270	1.33	-	-	-	2.32
Illinois-----	31,117,315	27,020,559	-	27,020,559	58,137,874	2.07	3.94	-	3.94	2.36
Indiana-----	126,592	23,331,163	-	23,331,163	23,457,755	2.80	4.60	-	4.60	3.92
Iowa-----	365,554	216,409	-	216,409	581,963	2.51	2.61	-	2.61	2.55
Kansas-----	-	427,435	-	427,435	427,435	-	1.61	-	1.61	1.44
Kentucky-----	55,252,452	53,279,118	3,593,291	56,872,409	112,124,861	1.70	3.62	4.14	3.65	2.12
Maryland-----	93,276	1,692,088	50,871	1,742,959	1,836,235	3.51	2.76	2.25	2.74	2.71
Missouri-----	-	4,764,311	26,567	4,790,878	4,790,878	-	3.44	6.84	3.45	3.04
Montana-----	-	14,160,742	-	14,160,742	14,160,742	-	15.55	-	14.32	14.32
New Mexico-----	528,535	8,710,311	-	8,710,311	9,238,846	1.13	8.61	-	8.61	4.95
North Dakota-----	-	7,428,385	-	7,428,385	7,428,385	-	12.81	-	12.81	12.64
Ohio-----	14,726,426	30,254,201	800,000	31,054,201	45,780,627	1.33	3.64	7.47	3.69	2.12
Oklahoma-----	-	2,290,641	-	2,290,641	2,290,641	-	2.33	-	2.33	2.24
Pennsylvania (bituminous)-----	42,286,775	33,692,036	322,734	34,014,770	76,301,545	1.19	3.10	5.14	3.11	1.50
Tennessee-----	2,790,747	3,069,539	213,238	3,282,777	6,073,524	1.63	2.43	3.17	2.47	1.86
Texas-----	-	7,329,234	-	7,329,234	7,329,234	-	10.42	-	10.42	10.42
Utah-----	5,802,063	-	-	-	5,802,063	1.88	-	-	-	1.74
Virginia-----	19,120,542	7,652,203	782,367	8,434,570	27,555,112	1.13	3.25	4.39	3.33	1.29
Washington-----	8,146	3,897,545	-	3,897,545	3,905,691	.98	5.70	-	5.70	5.24
West Virginia-----	80,394,638	17,689,777	1,747,919	19,437,696	99,832,334	1.25	2.81	3.52	2.86	1.24
Wyoming-----	511,719	19,676,947	-	19,676,947	20,188,666	1.43	8.56	-	8.56	7.56
Total or average, bituminous-----	263,398,189	289,847,869	7,593,705	297,441,574	560,839,763	1.38	4.08	3.98	4.08	1.92
Pennsylvania (anthracite)-----	564,665	2,724,554	1,644,681	4,369,235	4,933,900	.87	1.33	6.11	1.88	.97
Grand total or average-----	263,962,854	292,572,423	9,238,386	301,810,809	565,773,663	1.38	4.01	4.24	4.01	1.91

^{1/} Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 36. - Number of fatal injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974

State	Underground mines										Strip mines						Other surface mining 1/		Mechanical, cleaning plants						Grand total										
	Underground					Surface																													
	Falls of roof or back	Pressure bumps or bursts	Falls of face or rib	Sliding or falling material or objects	Stepping or kneeling on sharp or loose objects	Haulage	Explosives	Electricity	Machinery	Fires or suffocation from fires	Total, underground	Sliding or falling material or objects	Haulage	Electricity	Total, surface	Total, underground mines	Sliding or falling material or objects	Slips or falls of persons	Haulage	Explosives	Electricity	Machinery	Miscellaneous causes	Total, strip mines		Sliding or falling material or objects	Haulage	Total, other surface mining	Total, surface mines	Total, mining	Sliding or falling material or objects	Slips or falls of persons	Haulage	Electricity	Machinery
Alabama-----	1		1					1		3					3			1				2		3			3	6							6
Alaska-----																																			1
Arizona-----																																			1
Arkansas-----																																			
California-----																																			
Colorado-----																																			
Illinois-----	3		1				1	4		9					9					1			1		1		1	2						2	
Indiana-----																																			12
Iowa-----																																			1
Kansas-----																																			
Kentucky-----	9				1	2		1	1	14	1	1		2	16	1						4		5		1	6	22		1			1	24	
Maryland-----																						1		1		1		1						1	
Missouri-----																																			1
Montana-----																																			
New Mexico-----																		1				1		2		2								2	
North Dakota-----																																			
Ohio-----	2					3				5					5																				5
Oklahoma-----																																			
Pennsylvania (bituminous)-----	5					4		2	1	12		1	1	2	14							1	1	1	3		3	17	1	1			2	19	
Tennessee-----								1		1					1																				2
Texas-----																			1																
Utah-----	1									1					1																				1
Virginia-----	8	1						2		11		2		2	13					1					1	1	2	15						15	
Washington-----																																			
West Virginia-----	14		2	3		6		2	5	32				32								1		1		1	33	2		1	1	2	6	39	
Wyoming-----																						1		1		1	1	1							1
Total bituminous-----	43	1	4	3	1	15		4	17	89	1	4	1	6	95	1	1	2	1	2	15	2	24	1	1	2	121	3	2	1	1	3	10	131	
Pennsylvania (anthracite)-----							1			1		1		1	2												2								2
All coal-----	43	1	4	3	1	15	1	4	17	90	1	5	1	7	97	1	1	2	1	2	15	2	24	1	1	2	123	3	2	1	1	3	10	133	

1/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974

State	Underground																
	Falls of roof or back	Falls of face or rib	Pressure bumps or bursts	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total underground
Alabama-----	12	8	-	5	5	14	5	1	1	31	-	1	2	31	-	2	118
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	15	2	-	3	3	14	1	2	-	13	-	1	5	-	-	-	59
Illinois-----	47	22	-	9	23	58	17	12	1	54	-	3	16	51	2	-	315
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	149	33	-	23	50	196	65	21	13	212	1	11	36	207	1	23	1,041
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	3	3	-	-	-	-	1	-	-	1	-	-	1	3	-	-	12
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	45	5	-	7	35	67	14	8	2	58	-	1	12	56	-	1	311
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)-----	106	10	-	21	57	271	58	19	12	140	-	-	18	154	1	10	877
Tennessee-----	8	3	-	1	1	5	1	-	1	8	-	-	3	8	-	-	39
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	19	19	-	3	8	39	11	7	-	22	-	-	4	25	1	4	162
Virginia-----	84	22	-	8	15	119	33	7	1	91	1	3	11	97	-	13	505
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia-----	313	92	2	66	185	793	200	55	33	458	1	7	85	455	2	59	2,806
Wyoming-----	3	1	-	-	3	2	-	-	-	4	-	-	-	5	-	-	18
Total bituminous-----	806	220	2	146	385	1,578	406	132	64	1,092	3	26	190	1,097	5	114	6,266
Pennsylvania (anthracite)-----	2	3	-	5	3	10	5	-	-	11	-	-	1	1	-	2	43
All coal-----	808	223	2	151	388	1,588	411	132	64	1,103	3	26	191	1,098	5	116	6,309

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Surface at underground													Total, underground mines	
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes		Total, surface at underground
Alabama-----	1	1	5	-	-	-	2	-	-	-	5	-	1	15	133
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	1	-	1	-	1	-	-	-	3	-	-	6	65
Illinois-----	-	6	5	2	-	-	4	-	-	-	2	-	2	21	336
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	2	12	24	2	1	1	16	1	-	3	3	-	3	68	1,109
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	-	-	-	2	-	-	-	-	-	-	2	14
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	2	5	1	-	-	3	-	-	-	-	-	-	11	322
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)---	1	11	12	2	-	-	6	1	-	1	3	-	2	39	916
Tennessee-----	-	1	1	-	-	-	1	-	-	-	1	-	-	4	43
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	1	4	4	-	-	1	2	-	-	-	2	-	-	14	176
Virginia-----	2	3	11	3	1	-	9	-	-	-	8	1	4	42	547
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia-----	4	21	55	9	2	1	28	1	1	3	15	1	11	152	2,958
Wyoming-----	-	-	2	-	-	-	-	-	-	-	-	-	-	2	20
Total bituminous-----	11	61	125	19	5	3	74	3	1	7	42	2	23	376	6,642
Pennsylvania (anthracite)---	1	1	1	-	-	-	-	-	-	-	-	-	1	4	47
All coal-----	12	62	126	19	5	3	74	3	1	7	42	2	24	380	6,689

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Strip														
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Hauling	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, strip
Alabama-----	1	2	21	17	5	-	1	12	1	-	-	13	-	3	76
Alaska-----	-	1	4	-	-	1	-	1	-	-	-	3	-	1	11
Arizona-----	-	2	4	-	-	-	-	1	-	-	-	6	-	-	13
Arkansas-----	-	1	-	2	-	-	-	1	-	-	-	-	-	-	4
Colorado-----	-	1	-	1	-	-	-	1	-	-	-	-	-	1	4
Illinois-----	3	4	35	44	17	6	-	21	-	1	2	27	-	14	174
Indiana-----	1	2	8	9	6	-	-	7	1	-	1	5	-	2	42
Iowa-----	-	1	-	-	-	-	-	1	-	-	-	-	-	-	2
Kansas-----	1	1	2	3	1	-	-	-	-	-	-	1	-	-	9
Kentucky-----	4	4	56	44	18	1	-	38	-	1	1	33	-	25	225
Maryland-----	-	-	-	-	1	-	-	1	-	-	-	-	1	-	3
Missouri-----	-	2	8	12	4	1	-	4	-	-	-	4	-	4	39
Montana-----	-	-	4	4	2	-	-	-	-	-	-	2	-	-	12
New Mexico-----	-	-	1	-	4	-	-	-	-	-	-	3	-	1	9
North Dakota-----	-	-	2	1	1	-	-	-	-	-	-	3	-	1	8
Ohio-----	1	3	23	10	5	-	-	5	-	-	-	21	-	5	73
Oklahoma-----	2	-	1	3	1	-	-	1	-	-	-	4	-	-	13
Pennsylvania (bituminous)---	-	2	47	35	14	8	2	11	-	2	-	25	-	18	164
Tennessee-----	-	1	2	3	1	-	-	4	-	-	-	3	1	3	18
Texas-----	-	1	2	1	-	1	-	1	-	-	-	2	-	3	11
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	1	1	8	10	3	1	-	11	-	2	-	8	-	3	48
Washington-----	-	-	5	3	1	-	-	2	-	-	1	5	-	1	18
West Virginia-----	-	6	18	28	14	5	-	28	-	-	-	25	1	16	141
Wyoming-----	-	-	7	5	1	1	-	5	-	-	3	6	-	2	30
Total bituminous-----	14	34	259	235	99	25	3	156	2	7	8	199	3	103	1,147
Pennsylvania (anthracite)---	-	4	22	19	6	3	-	11	-	-	-	6	2	9	82
All coal-----	14	38	281	254	105	28	3	167	2	7	8	205	5	112	1,229

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Other surface mining ^{1/}								Total, surface	Total, mining	
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Haulage	Machinery	Miscellaneous causes			Total, other surface mining
Alabama-----	76	209
Alaska-----	11	11
Arizona-----	13	13
Arkansas-----	4	4
Colorado-----	4	69
Illinois-----	174	510
Indiana-----	42	42
Iowa-----	2	5
Kansas-----	9	9
Kentucky-----	1	1	2	3	2	2	3	1	15	240	1,349
Maryland-----	3	3
Missouri-----	39	39
Montana-----	12	12
New Mexico-----	9	23
North Dakota-----	8	8
Ohio-----	1	.	.	.	1	.	.	.	3	76	398
Oklahoma-----	13	13
Pennsylvania (bituminous)---	164	1,080
Tennessee-----	18	61
Texas-----	11	11
Utah-----	-	176
Virginia-----	2	.	2	50	597
Washington-----	18	18
West Virginia-----	.	.	.	3	.	.	2	3	8	149	3,107
Wyoming-----	30	50
Total bituminous-----	2	1	2	6	3	2	8	4	28	1,175	7,817
Pennsylvania (anthracite)---	-	-	1	3	1	1	1	3	10	92	139
All coal-----	2	1	3	9	4	3	9	7	38	1,267	7,956

See footnote at end of table.

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Independent shops and yards										
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Haulage	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, independent shops and yards
Illinois-----	2	2	6	3	-	2	-	1	-	1	17
Indiana-----	-	1	1	-	-	2	-	3	-	1	8
Kentucky-----	-	-	1	-	-	-	-	2	1	-	4
Ohio-----	1	-	1	-	-	1	-	1	-	-	4
Pennsylvania (bituminous)--	-	1	-	-	-	-	-	-	-	-	1
Virginia-----	-	-	5	1	1	-	-	1	-	-	8
West Virginia-----	-	3	11	4	-	2	1	4	-	4	29
Total bituminous-----	3	7	25	8	1	7	1	12	1	6	71
Pennsylvania (anthracite)--	-	-	4	2	-	1	-	2	-	2	11
All coal-----	3	7	29	10	1	8	1	14	1	8	82

TABLE 37. - Number of nonfatal disabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Mechanical cleaning plants													Grand total
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, mechanical cleaning plants	
Alabama-----	-	8	5	-	-	-	-	1	2	-	1	17	226	
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	1	12	
Arizona-----	-	1	-	-	-	-	-	-	-	-	-	1	14	
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	4	
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	3	72	
Illinois-----	-	3	5	2	-	-	-	1	3	-	2	17	544	
Indiana-----	-	-	1	-	-	-	-	-	1	-	-	2	52	
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	5	
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	9	
Kentucky-----	-	16	18	3	4	-	22	2	4	-	9	12	1,443	
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	3	
Missouri-----	-	-	-	-	-	-	1	-	-	-	1	2	41	
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	12	
New Mexico-----	-	2	2	1	-	-	-	1	-	-	-	6	29	
North Dakota-----	-	-	-	1	-	-	-	-	-	-	-	1	9	
Ohio-----	1	2	5	-	-	-	1	-	-	1	-	10	412	
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	13	
Pennsylvania (bituminous)--	2	5	10	4	1	-	17	-	1	7	3	50	1,131	
Tennessee-----	-	1	-	-	-	-	-	-	-	-	-	1	62	
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	11	
Utah-----	-	1	-	1	-	-	1	-	-	-	-	3	179	
Virginia-----	1	3	7	1	-	-	-	1	2	-	-	15	620	
Washington-----	-	-	1	1	-	-	-	-	-	-	-	2	20	
West Virginia-----	6	31	51	16	5	-	41	-	6	-	17	189	3,325	
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	50	
Total bituminous-----	10	73	106	30	10	3	87	3	14	38	1	410	8,298	
Pennsylvania (anthracite)--	3	23	32	13	1	1	11	-	-	3	-	97	247	
All coal-----	13	96	138	43	11	4	98	3	14	41	1	507	8,545	

1/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 38. - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974

State	Underground																
	Falls of roof or back	Falls of face or rib	Pressure bumps or bursts	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Hoisting	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total underground
Alabama-----	10	6	-	6	13	62	28	8	3	27	-	-	6	23	-	4	196
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	3	1	-	-	2	12	8	-	1	5	-	-	1	5	-	3	41
Illinois-----	29	9	-	4	14	42	26	3	2	35	-	-	10	28	-	10	212
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	93	18	-	21	42	195	107	16	18	127	-	10	39	98	1	37	822
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	2	-	-	-	-	-	-	1	1	2	-	-	1	5	-	-	15
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	20	4	-	4	17	34	24	2	3	23	-	-	6	37	-	2	176
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)---	65	18	-	21	108	253	96	35	15	151	1	-	25	145	-	28	961
Tennessee-----	4	1	-	-	-	6	1	-	-	4	-	-	1	-	-	-	17
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	6	3	4	-	4	9	4	-	1	5	-	-	1	6	-	1	44
Virginia-----	18	3	3	3	4	25	23	4	1	22	1	-	3	22	-	5	137
Washington-----	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
West Virginia-----	164	46	2	48	139	600	306	58	23	326	1	6	90	309	2	62	2,182
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total bituminous-----	414	109	9	107	344	1,241	623	127	68	727	3	16	183	678	3	152	4,804
Pennsylvania (anthracite)---	-	3	-	3	-	2	-	1	-	3	-	1	-	3	-	-	16
All coal-----	414	112	9	110	344	1,243	623	128	68	730	3	17	183	681	3	152	4,820

TABLE 38. - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Surface at underground											Total, underground mines	
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes		Total, surface
Alabama-----	-	1	3	4	-	-	1	1	2	-	-	12	208
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	2	1	-	-	-	-	-	-	-	-	3	44
Illinois-----	1	1	6	2	-	-	2	-	-	-	3	15	227
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	3	14	32	13	1	1	15	2	7	9	97	919	
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	1	-	-	-	-	-	-	-	-	1	16
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	2	1	4	4	-	1	2	-	-	-	-	14	190
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)---	3	12	23	5	1	2	12	1	5	1	8	73	1,034
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-	17
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	1	2	1	-	-	-	-	1	-	2	6	50
Virginia-----	2	1	3	1	2	-	1	-	-	-	4	14	151
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	1
West Virginia-----	7	27	56	28	3	1	27	7	19	-	22	197	2,379
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-
Total bituminous-----	18	60	131	58	7	5	60	11	34	1	47	432	5,236
Pennsylvania (anthracite)---	-	-	-	-	-	-	-	-	-	-	-	-	16
All coal-----	18	60	131	58	7	5	60	11	34	1	47	432	5,252

TABLE 38. - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Strip														
	Falls of roof or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes	Total, strip
Alabama-----	-	1	8	31	19	2	-	17	-	-	-	9	-	6	93
Alaska-----	-	-	-	-	1	-	-	-	-	-	-	-	-	2	3
Arizona-----	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Arkansas-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Colorado-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Illinois-----	2	3	5	10	10	1	-	2	-	-	-	9	-	9	51
Indiana-----	-	1	8	10	10	1	-	6	-	-	-	10	-	2	48
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	1	7	2	-	-	1	-	-	-	-	-	-	13
Kentucky-----	1	6	38	80	54	6	6	34	1	-	3	27	-	34	290
Maryland-----	-	-	-	2	-	-	-	-	-	-	-	2	-	-	4
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Montana-----	-	-	4	2	1	-	-	4	-	-	-	3	-	1	15
New Mexico-----	-	-	-	2	-	-	-	1	-	-	-	2	-	-	5
North Dakota-----	-	-	1	1	1	1	-	2	-	-	-	1	-	1	8
Ohio-----	-	-	29	38	26	2	2	14	1	1	3	18	-	13	147
Oklahoma-----	-	-	-	2	2	1	-	-	-	-	-	1	-	-	6
Pennsylvania (bituminous)---	-	2	29	23	30	1	1	9	-	-	-	22	1	12	130
Tennessee-----	-	1	4	2	-	-	-	3	-	-	1	4	-	-	15
Texas-----	-	1	1	5	4	1	1	1	-	-	-	2	-	4	20
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	1	-	7	4	-	-	2	-	-	-	4	-	5	23
Washington-----	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
West Virginia-----	2	1	14	38	26	-	1	21	-	-	-	21	-	16	140
Wyoming-----	-	1	3	4	3	1	1	1	-	-	-	4	-	3	21
Total bituminous-----	5	19	146	266	193	17	12	118	2	1	7	142	1	108	1,037
Pennsylvania (anthracite)---	-	1	32	34	25	3	3	16	-	-	-	12	-	21	147
All coal-----	5	20	178	300	218	20	15	134	2	1	7	154	1	129	1,184

TABLE 38. - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Other surface mining ^{1/}							Total, surface	Total, mining	
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Haulage	Machinery	Miscellaneous causes			Total, other surface mining
Alabama-----	-	-	-	-	-	-	-	-	93	301
Alaska-----	-	-	-	-	-	-	-	-	3	3
Arizona-----	-	-	-	-	-	-	-	-	1	1
Arkansas-----	-	-	-	-	-	-	-	-	1	1
Colorado-----	-	-	-	-	-	-	-	-	1	45
Illinois-----	-	-	-	-	-	-	-	-	51	278
Indiana-----	-	-	-	-	-	-	-	-	48	48
Iowa-----	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	13	13
Kentucky-----	1	2	7	3	1	2	-	16	13	13
Maryland-----	-	-	-	-	-	-	-	-	306	1,225
Missouri-----	-	-	-	-	-	-	-	-	4	4
Montana-----	-	-	-	-	-	-	-	-	1	1
New Mexico-----	-	-	-	-	-	-	-	-	15	15
North Dakota-----	-	-	-	-	-	-	-	-	5	21
Ohio-----	-	-	-	-	-	-	-	-	8	8
Oklaoma-----	-	-	-	-	-	-	-	-	147	337
Oklahoma-----	-	-	-	-	-	-	-	-	6	6
Pennsylvania (bituminous)-----	-	-	-	-	-	-	-	-	130	1,164
Tennessee-----	-	-	3	-	-	1	-	4	19	36
Texas-----	-	-	-	-	-	-	-	-	20	20
Utah-----	-	-	-	-	-	-	-	-	-	50
Virginia-----	-	-	-	-	-	-	-	-	23	174
Washington-----	-	-	-	-	-	-	-	-	1	2
West Virginia-----	-	2	-	-	-	5	-	8	148	2,527
Wyoming-----	-	-	-	-	-	-	-	-	21	21
Total bituminous-----	1	4	10	3	1	8	-	28	1,065	6,301
Pennsylvania (anthracite)-----	-	2	1	-	-	1	-	6	153	169
All coal-----	1	6	11	3	1	9	3	34	1,218	6,470

See footnote at end of table.

TABLE 38. - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Independent shops and yards									
	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Haulage	Electricity	Machinery	Miscellaneous causes	Total, independent shops and yards
Illinois-----	-	1	1	1	-	-	-	1	1	5
Indiana-----	-	-	-	-	-	-	-	-	1	1
Kentucky-----	-	-	1	-	1	1	-	1	-	4
Missouri-----	-	-	1	-	-	-	-	-	-	1
Ohio-----	-	1	7	1	-	-	-	3	1	13
Pennsylvania (bituminous)-----	-	2	-	3	-	-	-	1	1	7
Virginia-----	-	1	3	5	1	-	-	1	2	13
West Virginia-----	3	2	17	9	-	4	1	5	6	47
Total bituminous-----	3	7	30	19	2	5	1	12	12	91
Pennsylvania (anthracite)-----	1	2	8	6	1	-	-	2	11	31
All coal-----	4	9	38	25	3	5	1	14	23	122

TABLE 38 - Number of nondisabling injuries at coal mines in the United States, by State, general work location, and principal cause of injury, 1974 - Continued

State	Mechanical cleaning plants														Grand total	
	Falls of face or side	Sliding or falling material or objects	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Explosions of gas or dust	Explosives	Electricity	Machinery	Fires or suffocation from fires	Miscellaneous causes		Total, mechanical cleaning plants
Alabama-----	-	-	3	8	2	1	2	-	-	-	-	1	-	-	19	320
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	45
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	298
Illinois-----	-	-	3	4	2	-	-	1	1	-	-	1	3	-	12	61
Indiana-----	-	-	1	2	5	-	-	-	-	-	-	1	3	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Kentucky-----	-	4	10	30	16	3	1	13	-	-	-	13	-	30	120	1,349
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
New Mexico-----	-	-	3	1	1	-	-	-	-	-	-	-	-	1	6	27
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Ohio-----	-	1	1	4	-	-	-	4	1	-	1	1	1	1	13	363
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Pennsylvania (bituminous)-----	-	1	13	27	10	-	-	11	-	-	-	5	-	6	73	1,244
Tennessee-----	-	-	1	-	1	-	-	-	-	-	-	-	-	-	2	38
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Utah-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	51
Virginia-----	-	-	2	3	2	-	-	3	-	-	1	2	-	1	14	201
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
West Virginia-----	-	8	32	71	24	6	3	34	-	2	4	22	1	21	228	2,802
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Total bituminous-----	-	14	69	151	63	10	6	66	1	2	6	46	1	68	503	6,895
Pennsylvania (anthracite)-----	-	3	29	53	32	4	4	16	-	-	2	9	-	20	172	372
All coal-----	-	17	98	204	95	14	10	82	1	2	8	55	1	88	675	7,267

1/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal				All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries		Per million man-hours				Per million tons			
		Permanent		Tempo- rary total	Total non- fatal dis- abling					Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling
		Total	Par- tial														
Underground mines:																	
Underground:																	
Alabama-----	3	-	7	111	118	121	196	317	1.9	0.51	19.90	20.41	33.06	0.42	16.68	17.11	27.71
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	1	-	1	58	59	60	41	101	.9	.47	27.55	28.02	19.14	.31	18.44	18.75	12.81
Illinois-----	9	-	8	307	315	324	212	536	5.1	.67	23.50	24.18	15.82	.29	10.12	10.41	6.81
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	3	3	3	-	3	(1/)	-	26.26	26.26	-	-	8.21	8.21	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	14	8	20	1,013	1,041	1,055	822	1,877	16.6	.47	35.20	35.67	27.80	.25	18.84	19.09	14.88
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	12	12	12	15	27	.2	-	31.23	31.23	39.03	-	22.70	22.70	28.38
North Dakota---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	5	-	5	306	311	316	176	492	5.0	.49	30.39	30.88	17.20	.34	21.12	21.46	11.95
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)--	12	4	20	853	877	889	961	1,850	14.0	.38	27.71	28.09	30.36	.28	20.74	21.02	22.73
Tennessee-----	1	-	1	38	39	40	17	57	.6	.64	24.91	25.55	10.86	.36	13.97	14.33	6.09
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	1	-	3	159	162	163	44	207	2.6	.38	60.83	61.20	16.52	.17	27.92	28.09	7.58
Virginia-----	11	-	7	498	505	516	137	653	8.1	.69	31.68	32.37	8.59	.58	26.41	26.99	7.17
Washington-----	-	-	-	-	-	-	1	1	-	-	-	-	167.79	-	-	-	122.76
West Virginia--	32	2	33	2,771	2,806	2,838	2,182	5,020	44.7	.54	47.56	48.11	36.99	.40	34.90	35.30	27.14
Wyoming-----	-	-	-	18	18	18	-	18	.3	-	80.91	80.91	-	-	35.18	35.18	-
Total or average, bituminous--	89	14	105	6,147	6,266	6,355	4,804	11,159	-	.51	36.25	36.76	27.79	.34	23.79	24.13	18.24
Pennsylvania (anthracite)--	1	-	-	43	43	44	16	60	-	1.88	80.63	82.50	30.00	1.77	76.15	77.92	28.34
Total or average, underground-	90	14	105	6,190	6,309	6,399	4,820	11,219	-	.52	36.38	36.90	27.80	.34	23.90	24.24	18.26

See footnotes at end of table.

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates								
	Fatal	Nonfatal			All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries	Per million man-hours				Per million tons						
		Permanent		Tempo- rary total				Total non- fatal dis- abling		Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	
		Total	Par- tial															
Underground mines:																		
Surface:																		
Alabama-----	-	-	-	15	15	15	12	27	3.9	-	15.64	15.64	12.51	-	-	-	-	-
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	-	6	6	6	3	9	1.6	-	22.35	22.35	11.17	-	-	-	-	-
Illinois-----	-	-	1	20	21	21	15	36	5.5	-	12.97	12.97	9.27	-	-	-	-	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	2	-	2	66	68	70	97	167	18.3	0.67	22.69	23.35	32.36	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	2	2	2	1	3	.5	-	23.51	23.51	11.76	-	-	-	-	-
North Dakota---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	11	11	11	14	25	2.9	-	13.69	13.69	17.43	-	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)---	2	-	-	39	39	41	73	114	10.7	.51	9.91	10.42	18.55	-	-	-	-	-
Tennessee-----	-	-	-	4	4	4	-	4	1.0	-	27.79	27.79	-	-	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	-	1	13	14	14	6	20	3.7	-	33.64	33.64	14.42	-	-	-	-	-
Virginia-----	2	-	3	39	42	44	14	58	11.5	2.19	45.97	48.15	15.32	-	-	-	-	-
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia---	-	1	2	149	152	152	197	349	39.8	-	27.47	27.47	35.60	-	-	-	-	-
Wyoming-----	-	-	-	2	2	2	-	2	.5	-	14.76	14.76	-	-	-	-	-	-
Total or average, bituminous--	6	1	9	366	376	382	432	814	-	.34	21.05	21.39	24.19	-	-	-	-	-
Pennsylvania (anthracite)---	1	-	-	4	4	5	-	5	-	8.78	35.13	43.92	-	-	-	-	-	-
Total or average, surface-----	7	1	9	370	380	387	432	819	-	.39	21.14	21.53	24.04	-	-	-	-	-

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distrib- ution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal				All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries		Per million man-hours				Per million tons			
		Permanent		Tempo- rary total	Total non- fatal dis- abling					Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling
		Total	Par- tial														
Underground mines:																	
Deep mines:																	
Alabama-----	3	-	7	126	133	136	208	344	2.0	0.44	19.31	19.74	30.20	0.42	18.80	19.23	29.41
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	1	-	1	64	65	66	44	110	1.0	.41	26.97	27.38	18.26	.31	20.31	20.62	13.75
Illinois-----	9	-	9	327	336	345	227	572	5.1	.60	22.37	22.97	15.11	.29	10.80	11.09	7.29
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	3	3	3	-	3	(1/)	-	20.64	20.64	-	-	8.21	8.21	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	16	8	22	1,079	1,109	1,125	919	2,044	16.7	.49	34.05	34.54	28.22	.29	20.07	20.36	16.63
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	14	14	14	16	30	.2	-	29.83	29.83	34.09	-	26.49	26.49	30.27
North Dakota--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	5	-	5	317	322	327	190	517	4.9	.45	29.18	29.63	17.22	.34	21.87	22.20	12.90
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)--	14	4	20	892	916	930	1,034	1,964	13.8	.39	25.74	26.13	29.06	.33	21.66	21.99	24.45
Tennessee-----	1	-	1	42	43	44	17	61	.7	.59	25.16	25.74	9.95	.36	15.41	15.77	6.09
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	1	-	4	172	176	177	50	227	2.6	.32	57.15	57.48	16.24	.17	30.33	30.51	8.62
Virginia-----	13	-	10	537	547	560	151	711	8.3	.77	32.46	33.23	8.96	.68	28.61	29.29	7.90
Washington-----	-	-	-	-	-	-	1	1	-	-	-	-	120.77	-	-	-	122.76
West Virginia--	32	3	35	2,920	2,958	2,990	2,379	5,369	44.4	.50	45.84	46.34	36.87	.40	36.79	37.19	29.59
Wyoming-----	-	-	-	20	20	20	-	20	.3	-	55.86	55.86	-	-	39.08	39.08	-
Total or average, bituminous--	95	15	114	6,513	6,642	6,737	5,236	11,973	-	.50	34.82	35.32	27.45	.36	25.22	25.58	19.88
Pennsylvania (anthracite)--	2	-	-	47	47	49	16	65	-	3.09	72.62	75.71	24.72	3.54	83.24	86.78	28.34
Total or average, deep mines--	97	15	114	6,560	6,689	6,786	5,252	12,038	-	.51	34.95	35.46	27.44	.37	25.34	25.71	19.90

See footnotes at end of table.

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates								
	Fatal	Nonfatal				All disabling injuries	Non-disabling injuries	All injuries		Per million man-hours				Per million tons				
		Permanent		Temporary total	Total non-fatal disabling					Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Non-disabling	
		Total	Partial															
Strip mines:																		
Alabama-----	3	-	1	75	76	79	93	172	6.7	0.71	18.10	18.81	22.15	0.25	6.39	6.64	7.82	
Alaska-----	-	-	-	11	11	11	3	14	.9	-	64.93	64.93	17.71	-	15.36	15.36	4.19	
Arizona-----	1	-	2	11	13	14	1	15	1.2	1.64	21.29	22.92	1.64	.15	1.98	2.13	.15	
Arkansas-----	-	-	-	4	4	4	1	5	.3	-	14.90	14.90	3.72	-	8.89	8.89	2.22	
Colorado-----	1	-	-	4	4	5	1	6	.4	2.08	8.32	10.39	2.08	.28	1.10	1.38	.28	
Illinois-----	3	-	1	173	174	177	51	228	15.1	.44	25.37	25.81	7.44	.11	6.44	6.55	1.89	
Indiana-----	1	-	-	42	42	43	48	91	3.7	.20	8.29	8.48	9.47	.04	1.80	1.84	2.06	
Iowa-----	-	-	-	2	2	2	-	2	.2	-	24.16	24.16	-	-	9.24	9.24	-	
Kansas-----	-	-	-	9	9	9	13	22	.8	-	33.80	33.80	48.82	-	21.06	21.06	30.41	
Kentucky-----	5	1	6	218	225	230	290	520	19.6	.34	15.30	15.64	19.73	.09	4.22	4.32	5.44	
Maryland-----	1	-	-	3	3	4	4	8	.3	1.63	4.89	6.52	6.52	.59	1.77	2.36	2.36	
Missouri-----	-	-	2	37	39	39	1	40	3.3	-	28.18	28.18	.72	-	8.19	8.19	.21	
Montana-----	-	-	-	12	12	12	15	27	1.0	-	13.18	13.18	16.47	-	.85	.85	1.06	
New Mexico-----	2	-	1	8	9	11	5	16	.9	1.98	8.89	10.87	4.94	.23	1.03	1.26	.57	
North Dakota-----	-	1	-	7	8	8	8	16	.7	-	13.80	13.80	13.80	-	1.08	1.08	1.08	
Ohio-----	-	1	6	66	73	73	147	220	6.2	-	8.79	8.79	17.70	-	2.41	2.41	4.86	
Oklahoma-----	-	-	3	10	13	13	6	19	1.1	-	13.21	13.21	6.10	-	5.68	5.68	2.62	
Pennsylvania (bituminous)----	3	1	2	161	164	167	130	297	14.3	.28	15.10	15.37	11.97	.09	4.87	4.96	3.86	
Tennessee-----	1	-	-	18	18	19	15	34	1.6	.79	14.27	15.07	11.89	.33	5.86	6.19	4.89	
Texas-----	-	-	-	11	11	11	20	31	.9	-	15.64	15.64	28.43	-	1.50	1.50	2.73	
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Virginia-----	1	-	1	47	48	49	23	72	4.2	.42	20.38	20.81	9.77	.13	6.27	6.40	3.01	
Washington-----	-	-	-	18	18	18	1	19	1.5	-	26.30	26.30	1.46	-	4.62	4.62	.26	
West Virginia-----	1	-	3	138	141	142	140	282	12.1	.16	22.40	22.56	22.24	.06	7.97	8.03	7.91	
Wyoming-----	1	-	2	28	30	31	21	52	2.6	.43	13.05	13.48	9.13	.05	1.52	1.58	1.07	
Total or average, bituminous----	24	4	30	1,113	1,147	1,171	1,037	2,208	-	.34	16.16	16.50	14.61	.08	3.96	4.04	3.58	
Pennsylvania (anthracite)----	-	-	-	82	82	82	147	229	-	-	39.99	39.99	71.68	-	30.10	30.10	53.95	
Total or average, strip mines----	24	4	30	1,195	1,229	1,253	1,184	2,437	-	.33	16.83	17.16	16.22	.08	4.20	4.28	4.05	

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal			All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries	Per million man-hours				Per million tons					
		Permanent		Tempo- rary total				Total non- fatal dis- abling		Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling
		Total	Par- tial														
Other surface mining: 2/																	
Kentucky-----	1	1	1	13	15	16	16	32	53.3	1.15	17.27	18.42	18.42	0.28	4.17	4.45	4.45
Ohio-----	-	-	-	3	3	3	-	3	10.0	-	28.02	28.02	-	-	3.75	3.75	-
Tennessee-----	-	-	-	-	-	-	4	4	-	-	-	-	59.45	-	-	-	18.76
Virginia-----	1	-	-	2	2	3	-	3	10.0	5.62	11.24	16.85	-	1.28	2.56	3.83	-
West Virginia----	-	-	-	8	8	8	8	16	26.7	-	16.11	16.11	16.11	-	4.58	4.58	4.58
Total or average, bituminous----	2	1	1	26	28	30	28	58	-	1.05	14.67	15.72	14.67	.26	3.69	3.95	3.69
Pennsylvania (anthracite)----	-	-	-	10	10	10	6	16	-	-	37.17	37.17	22.30	-	6.08	6.08	3.65
Total or average, other surface mining-----	2	1	1	36	38	40	34	74	-	.92	17.45	18.36	15.61	.22	4.11	4.33	3.68

See footnotes at end of table.

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries							Distri- bution of all disabling injuries, percent	Frequency rates									
	Fatal	Nonfatal			All dis- abling inju- ries	Non- dis- abling inju- ries	All in- ju- ries		Per million man-hours				Per million tons					
		Permanent		Tempo- rary total					Total non- fatal dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	
		Total	Par- tial															
Total surface mining:																		
Alabama-----	3	-	1	75	76	79	93	172	6.6	0.71	18.00	18.71	22.02	0.25	6.36	6.61	7.78	
Alaska-----	-	-	-	11	11	11	3	14	.9	-	64.93	64.93	17.71	-	15.36	15.36	4.19	
Arizona-----	1	-	2	11	13	14	1	15	1.2	1.64	21.29	22.92	1.64	.15	1.98	2.13	.15	
Arkansas-----	-	-	-	4	4	4	1	5	.3	-	14.90	14.90	3.72	-	8.89	8.89	2.22	
Colorado-----	1	-	-	4	4	5	1	6	.4	2.08	8.32	10.39	2.08	.28	1.10	1.38	.28	
Illinois-----	3	-	1	173	174	177	51	228	14.7	.44	25.37	25.81	7.44	.11	6.44	6.55	1.89	
Indiana-----	1	-	-	42	42	43	48	91	3.6	.20	8.29	8.48	9.47	.04	1.80	1.84	2.06	
Iowa-----	-	-	-	2	2	2	-	2	.2	-	24.16	24.16	-	-	9.24	9.24	-	
Kansas-----	-	-	-	9	9	9	13	22	.7	-	33.80	33.80	48.82	-	21.06	21.06	30.41	
Kentucky-----	6	2	7	231	240	246	306	552	20.5	.39	15.41	15.80	19.65	.11	4.22	4.33	5.38	
Maryland-----	1	-	-	3	3	4	4	8	.3	1.57	4.72	6.29	6.29	.57	1.72	2.29	2.29	
Missouri-----	-	-	2	37	39	39	1	40	3.2	-	28.10	28.10	.72	-	8.14	8.14	.21	
Montana-----	-	-	-	12	12	12	15	27	1.0	-	12.13	12.13	15.17	-	.85	.85	1.06	
New Mexico-----	2	-	1	8	9	11	5	16	.9	1.98	8.89	10.87	4.94	.23	1.03	1.26	.57	
North Dakota----	-	1	-	7	8	8	8	16	.7	-	13.80	13.80	13.80	-	1.08	1.08	1.08	
Ohio-----	-	1	6	69	76	76	147	223	6.3	-	9.03	9.03	17.47	-	2.45	2.45	4.73	
Oklahoma-----	-	-	3	10	13	13	6	19	1.1	-	13.21	13.21	6.10	-	5.68	5.68	2.62	
Pennsylvania (bituminous)----	3	1	2	161	164	167	130	297	13.9	.27	15.01	15.28	11.90	.09	4.82	4.91	3.82	
Tennessee-----	1	-	-	18	18	19	19	38	1.6	.75	13.55	14.30	14.30	.30	5.48	5.79	5.79	
Texas-----	-	-	-	11	11	11	20	31	.9	-	15.64	15.64	28.43	-	1.50	1.50	2.73	
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Virginia-----	2	-	1	49	50	52	23	75	4.3	.79	19.74	20.53	9.08	.24	5.93	6.17	2.73	
Washington-----	-	-	-	18	18	18	1	19	1.5	-	26.30	26.30	1.46	-	4.62	4.62	.26	
West Virginia----	1	-	3	146	149	150	148	298	12.5	.15	21.94	22.09	21.80	.05	7.67	7.72	7.61	
Wyoming-----	1	-	2	28	30	31	21	52	2.6	.43	13.05	13.48	9.13	.05	1.52	1.58	1.07	
Total or average, bituminous----	26	5	31	1,139	1,175	1,201	1,065	2,266	-	.36	16.13	16.48	14.62	.09	3.95	4.04	3.58	
Pennsylvania (anthracite)----	-	-	-	92	92	92	153	245	-	-	39.66	39.66	65.96	-	21.06	21.06	35.02	
Total or average, surface mining-----	26	5	31	1,231	1,267	1,293	1,218	2,511	-	.35	16.85	17.20	16.20	.09	4.20	4.28	4.04	

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal				All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries		Per million man-hours				Per million tons			
		Permanent		Tempo- rary total	Total non- fatal dis- abling					Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling
		Total	Par- tial														
Total mining:	6	-	8	201	209	215	301	516	2.7	0.54	18.81	19.35	27.09	0.32	10.99	11.30	15.82
Alabama-----	-	-	-	11	11	11	3	14	.1	-	64.93	64.93	17.71	-	15.36	15.36	4.19
Arizona-----	1	-	2	11	13	14	1	15	.2	1.64	21.29	22.92	1.64	.15	1.98	2.13	.15
Arkansas-----	-	-	-	4	4	4	1	5	.1	-	14.90	14.90	3.72	-	8.89	8.89	2.22
Colorado-----	2	-	1	68	69	71	45	116	.9	.69	23.87	24.56	15.56	.29	10.11	10.40	6.59
Illinois-----	12	-	10	500	510	522	278	800	6.6	.55	23.31	23.86	12.71	.21	8.77	8.98	4.78
Indiana-----	1	-	-	42	42	43	48	91	.5	.20	8.21	8.41	9.39	.04	1.79	1.83	2.05
Iowa-----	-	-	-	5	5	5	-	5	.1	-	21.92	21.92	-	-	8.59	8.59	-
Kansas-----	-	-	-	9	9	9	13	22	.1	-	33.80	33.80	48.82	-	21.06	21.06	30.41
Kentucky-----	22	10	29	1,310	1,349	1,371	1,225	2,596	17.3	.46	28.02	28.48	25.45	.20	12.03	12.23	10.93
Maryland-----	1	-	-	3	3	4	4	8	.1	1.51	4.53	6.04	6.04	.54	1.63	2.18	2.18
Missouri-----	-	-	2	37	39	39	1	40	.5	-	28.10	28.10	.72	-	8.14	8.14	.21
Montana-----	-	-	-	12	12	12	15	27	.2	-	12.13	12.13	15.17	-	.85	.85	1.06
New Mexico-----	2	-	1	22	23	25	21	46	.3	1.35	15.53	16.88	14.18	.22	2.49	2.71	2.27
North Dakota----	-	1	-	7	8	8	8	16	.1	-	13.80	13.80	13.80	-	1.08	1.08	1.08
Ohio-----	5	1	11	386	398	403	337	740	5.1	.26	20.47	20.72	17.33	.11	8.69	8.80	7.36
Oklahoma-----	-	-	3	10	13	13	6	19	.2	-	13.21	13.21	6.10	-	5.68	5.68	2.62
Pennsylvania (bituminous)----	17	5	22	1,053	1,080	1,097	1,164	2,261	13.8	.37	23.22	23.58	25.02	.22	14.15	14.38	15.26
Tennessee-----	2	-	1	60	61	63	36	99	.8	.66	20.08	20.74	11.85	.33	10.04	10.37	5.93
Texas-----	-	-	-	11	11	11	20	31	.1	-	15.64	15.64	28.43	-	1.50	1.50	2.73
Utah-----	1	-	4	172	176	177	50	227	2.2	.32	57.15	57.48	16.24	.17	30.33	30.51	8.62
Virginia-----	15	-	11	586	597	612	174	786	7.7	.77	30.79	31.57	8.98	.54	21.67	22.21	6.31
Washington-----	-	-	-	18	18	18	2	20	.2	-	25.99	25.99	2.89	-	4.61	4.61	.51
West Virginia----	33	3	38	3,066	3,107	3,140	2,527	5,667	39.6	.46	43.57	44.03	35.43	.33	31.12	31.45	25.31
Wyoming-----	1	-	2	48	50	51	21	72	.6	.38	18.82	19.19	7.90	.05	2.48	2.53	1.04
Total or average, bituminous----	121	20	145	7,652	7,817	7,938	6,301	14,239	-	.46	29.65	30.11	23.90	.22	13.94	14.15	11.23
Pennsylvania (anthracite)----	2	-	-	139	139	141	169	310	-	.67	46.85	47.52	56.96	.41	28.17	28.58	34.25
Total or average, total mining--	123	20	145	7,791	7,956	8,079	6,470	14,549	-	.46	29.85	30.31	24.27	.22	14.06	14.28	11.44

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal			All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries	Per million man-hours				Per million tons					
		Permanent		Tempo- rary total				Fatal		Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	
		Total	Par- tial														
Independent shops and yards:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	1	16	17	17	5	22	23.9	-	23.11	23.11	6.80	-	-	-	-
Indiana-----	-	-	-	8	8	8	1	9	11.3	-	22.95	22.95	2.87	-	-	-	-
Kentucky-----	-	-	-	4	4	4	4	8	5.6	-	11.37	11.37	11.37	-	-	-	-
Missouri-----	-	-	-	-	-	-	1	1	-	-	-	-	12.05	-	-	-	-
Ohio-----	-	-	-	4	4	4	13	17	5.6	-	5.31	5.31	17.26	-	-	-	-
Pennsylvania (bituminous)----	-	-	-	1	1	1	7	8	1.4	-	1.85	1.85	12.98	-	-	-	-
Virginia-----	-	-	-	8	8	8	13	21	11.3	-	11.74	11.74	19.08	-	-	-	-
West Virginia----	-	-	-	29	29	29	47	76	40.8	-	15.62	15.62	25.31	-	-	-	-
Total or average, bituminous----	-	-	1	70	71	71	91	162	-	-	13.27	13.27	17.01	-	-	-	-
Pennsylvania (anthracite)----	-	-	-	11	11	11	31	42	-	-	54.73	54.73	154.23	-	-	-	-
Total or average, independent shops and yards-----	-	-	1	81	82	82	122	204	-	-	14.77	14.77	21.98	-	-	-	-

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal			All disabling injuries	Non-disabling injuries	All injuries	Per million man-hours				Per million tons					
		Permanent		Temporary total				Total non-fatal disabling		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Non-disabling
		Total	Partial														
Mechanical cleaning plants:																	
Alabama-----	-	-	-	17	17	17	19	36	4.0	-	23.64	23.64	26.42	-	-	-	-
Alaska-----	-	-	-	1	1	1	-	1	.2	-	65.75	65.75	-	-	-	-	-
Arizona-----	-	-	-	1	1	1	-	1	.2	-	15.05	15.05	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	1	2	3	3	-	3	.7	-	58.12	58.12	-	-	-	-	-
Illinois-----	-	-	2	15	17	17	15	32	4.0	-	8.48	8.48	7.48	-	-	-	-
Indiana-----	-	-	-	2	2	2	12	14	.5	-	3.88	3.88	23.31	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	2	1	2	87	90	92	120	212	21.9	0.45	20.19	20.64	26.92	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	2	2	2	-	2	.5	-	19.23	19.23	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	6	6	6	6	12	1.4	-	15.59	15.59	15.59	-	-	-	-
North Dakota-----	-	-	-	1	1	1	-	1	.2	-	129.07	129.07	-	-	-	-	-
Ohio-----	-	-	-	10	10	10	13	23	2.4	-	7.06	7.06	9.18	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)----	2	-	-	50	50	52	73	125	12.4	.54	13.45	13.99	19.64	-	-	-	-
Tennessee-----	-	-	-	1	1	1	2	3	.2	-	4.50	4.50	8.99	-	-	-	-
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	-	-	3	3	3	1	4	.7	-	11.35	11.35	3.78	-	-	-	-
Virginia-----	-	-	-	15	15	15	14	29	3.6	-	10.90	10.90	10.18	-	-	-	-
Washington-----	-	-	-	2	2	2	-	2	.5	-	38.15	38.15	-	-	-	-	-
West Virginia-----	6	-	-	189	189	195	228	423	46.4	.83	26.10	26.93	31.49	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average, bituminous-----	10	1	5	404	410	420	503	923	-	.44	18.05	18.49	22.14	-	-	-	-
Pennsylvania (anthracite)----	-	-	-	97	97	97	172	269	-	-	50.12	50.12	88.87	-	-	-	-
Total or average, mechanical cleaning plants-----	10	1	5	501	507	517	675	1,192	-	.41	20.56	20.97	27.38	-	-	-	-

TABLE 39. - Number of injuries by degree, percentage distribution, and injury-frequency rates at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Distri- bution of all disabling injuries, percent	Frequency rates							
	Fatal	Nonfatal				All dis- abling inju- ries	Non- dis- abling inju- ries	All inju- ries		Per million man-hours				Per million tons			
		Permanent		Tempo- rary total	Total non- fatal dis- abling					Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling	Fatal	Non- fatal dis- abling	All dis- abling	Non- dis- abling
		Total	Par- tial														
Grand total:	6	-	8	218	226	232	320	552	2.8	0.51	19.10	19.61	27.05	0.32	11.88	12.20	16.82
Alabama-----	-	-	-	12	12	12	3	15	.1	-	65.00	65.00	16.25	-	16.75	16.75	4.19
Alaska-----	1	-	2	12	14	15	1	16	.2	1.48	20.67	22.15	1.48	.15	2.13	2.28	.15
Arizona-----	-	-	-	4	4	4	1	5	(1/)	-	14.46	14.46	3.62	-	8.89	8.89	2.22
Arkansas-----	2	-	2	70	72	74	45	119	.9	.68	24.47	25.15	15.29	.29	10.55	10.84	6.59
Colorado-----	12	-	13	531	544	556	298	854	6.6	.49	22.10	22.58	12.10	.21	9.36	9.56	5.13
Illinois-----	1	-	-	52	52	53	61	114	.6	.17	8.70	8.87	10.20	.04	2.22	2.26	2.60
Indiana-----	-	-	-	5	5	5	-	5	.1	-	21.92	21.92	-	-	8.59	8.59	-
Iowa-----	-	-	-	9	9	9	13	22	.1	-	30.38	30.38	43.88	-	21.06	21.06	30.41
Kansas-----	24	11	31	1,401	1,443	1,467	1,349	2,816	17.4	.45	27.25	27.71	25.48	.21	12.87	13.08	12.03
Kentucky-----	1	-	-	3	3	4	4	8	(1/)	1.47	4.42	5.90	5.90	.54	1.63	2.18	2.18
Maryland-----	-	-	2	39	41	41	2	43	.5	-	26.03	26.03	1.27	-	8.56	8.56	.42
Missouri-----	-	-	-	12	12	12	15	27	.1	-	12.13	12.13	15.17	-	.85	.85	1.06
Montana-----	2	-	1	28	29	31	27	58	.4	1.07	15.54	16.61	14.47	.22	3.14	3.36	2.92
New Mexico-----	-	1	-	8	9	9	8	17	.1	-	15.32	15.32	13.61	-	1.21	1.21	1.08
North Dakota---	5	1	11	400	412	417	363	780	4.9	.23	19.06	19.29	16.79	.11	9.00	9.11	7.93
Ohio-----	-	-	3	10	13	13	6	19	.2	-	12.73	12.73	5.88	-	5.68	5.68	2.62
Oklahoma-----																	
Oklahoma-----																	
Pennsylvania (bituminous)----	19	5	22	1,104	1,131	1,150	1,244	2,394	13.6	.37	22.28	22.65	24.50	.25	14.82	15.07	16.30
Tennessee-----	2	-	1	61	62	64	38	102	.8	.61	19.02	19.63	11.66	.33	10.21	10.54	6.26
Texas-----	-	-	-	11	11	11	20	31	.1	-	15.64	15.64	28.43	-	1.50	1.50	2.73
Utah-----	1	-	4	175	179	180	51	231	2.1	.30	53.53	53.83	15.25	.17	30.85	31.02	8.79
Virginia-----	15	-	11	609	620	635	201	836	7.5	.70	28.91	29.61	9.37	.54	22.50	23.04	7.29
Washington-----	-	-	-	20	20	20	2	22	.2	-	26.84	26.84	2.68	-	5.12	5.12	.51
West Virginia----	39	3	38	3,284	3,325	3,364	2,802	6,166	40.0	.48	41.35	41.83	34.84	.39	33.31	33.70	28.07
Wyoming-----	1	-	2	48	50	51	21	72	.6	.37	18.72	19.09	7.86	.05	2.48	2.53	1.04
Total or average, bituminous----	131	21	151	8,126	8,298	8,429	6,895	15,324	-	.45	28.45	28.90	23.64	.23	14.80	15.03	12.29
Pennsylvania (anthracite)----	2	-	-	247	247	249	372	621	-	.39	48.40	48.79	72.89	.41	50.06	50.47	75.40
Total or average-----	133	21	151	8,373	8,545	8,678	7,267	15,945	-	.45	28.79	29.24	24.49	.24	15.10	15.34	12.84

1/ Less than 0.05.

2/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Underground mines:																	
Underground:																	
Alabama-----	3	-	7	111	118	121	196	317	3,036	2,123	5,159	2,545	1,780	4,325	1,046	47	253
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	1	-	1	58	59	60	41	101	2,802	1,421	4,222	1,875	951	2,826	300	47	151
Illinois-----	9	-	8	307	315	324	212	536	4,029	1,561	5,590	1,735	672	2,408	271	61	231
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	3	3	3	-	3	-	4,596	4,596	-	1,436	1,436	-	175	175
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	14	8	20	1,013	1,041	1,055	822	1,877	2,840	3,651	6,491	1,520	1,954	3,474	1,140	37	182
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	12	12	12	15	27	-	1,907	1,907	-	1,387	1,387	-	61	61
North Dakota---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	5	-	5	306	311	316	176	492	2,932	1,489	4,420	2,037	1,034	3,071	493	42	143
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania																	
(bituminous)--	12	4	20	853	877	889	961	1,850	2,275	2,484	4,758	1,703	1,859	3,562	443	54	169
Tennessee-----	1	-	1	38	39	40	17	57	3,833	1,496	5,328	2,150	839	2,989	240	55	209
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	1	-	3	159	162	163	44	207	2,253	2,461	4,714	1,034	1,130	2,164	242	37	77
Virginia-----	11	-	7	498	505	516	137	653	4,141	1,588	5,728	3,452	1,323	4,775	433	45	177
Washington-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
West Virginia--	32	2	33	2,771	2,806	2,838	2,182	5,020	3,255	2,415	5,670	2,388	1,772	4,160	322	43	118
Wyoming-----	-	-	-	18	18	18	-	18	-	3,160	3,160	-	1,374	1,374	-	39	39
Total or average, bituminous--	89	14	105	6,147	6,266	6,355	4,804	11,159	3,089	2,412	5,501	2,027	1,583	3,610	558	45	150
Pennsylvania (anthracite)--	1	-	-	43	43	44	16	60	11,250	2,724	13,975	10,626	2,573	13,199	-	34	169
Total or average, underground-	90	14	105	6,190	6,309	6,399	4,820	11,219	3,114	2,413	5,527	2,046	1,585	3,631	558	45	150

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries							Severity rates						Average severity			
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-ment par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Underground mines:																	
Surface:																	
Alabama-----	-	-	-	15	15	15	12	27	-	520	520	-	-	-	-	33	33
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	-	6	6	6	3	9	-	574	574	-	-	-	-	26	26
Illinois-----	-	-	1	20	21	21	15	36	-	617	617	-	-	-	110	44	48
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	2	-	2	66	68	70	97	167	4,003	1,074	5,078	-	-	-	270	41	217
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	2	2	2	1	3	-	517	517	-	-	-	-	22	22
North Dakota--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	11	11	11	14	25	-	250	250	-	-	-	-	18	18
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania																	
(bituminous)--	2	-	-	39	39	41	73	114	3,049	576	3,625	-	-	-	-	58	348
Tennessee-----	-	-	-	4	4	4	-	4	-	1,174	1,174	-	-	-	-	42	42
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	-	1	13	14	14	6	20	-	2,427	2,427	-	-	-	60	73	72
Virginia-----	2	-	3	39	42	44	14	58	13,133	4,024	17,157	-	-	-	903	25	356
Washington-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia--	-	1	2	149	152	152	197	349	-	2,321	2,321	-	-	-	250	43	84
Wyoming-----	-	-	-	2	2	2	-	2	-	494	494	-	-	-	-	34	34
Total or average, bituminous--	6	1	9	366	376	382	432	814	2,016	1,408	3,424	-	-	-	436	42	160
Pennsylvania (anthracite)--	1	-	-	4	4	5	-	5	52,700	861	53,561	-	-	-	-	24	1,220
Total or average, surface-----	7	1	9	370	380	387	432	819	2,337	1,405	3,742	-	-	-	436	41	174

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Underground mines:																	
Deep mines:																	
Alabama-----	3	-	7	126	133	136	208	344	2,613	1,900	4,513	2,545	1,850	4,395	1,046	46	229
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	1	-	1	64	65	66	44	110	2,489	1,326	3,816	1,875	999	2,874	300	45	139
Illinois-----	9	-	9	327	336	345	227	572	3,595	1,459	5,054	1,735	704	2,440	253	60	220
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa-----	-	-	-	3	3	3	-	3	-	3,612	3,612	-	1,436	1,436	-	175	175
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	16	8	22	1,079	1,109	1,125	919	2,044	2,947	3,414	6,361	1,737	2,012	3,750	1,061	37	184
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	14	14	14	16	30	-	1,655	1,655	-	1,470	1,470	-	56	56
North Dakota---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio-----	5	-	5	317	322	327	190	517	2,719	1,398	4,117	2,037	1,048	3,085	493	41	139
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania																	
(bituminous)--	14	4	20	892	916	930	1,034	1,964	2,360	2,273	4,633	1,986	1,913	3,899	443	54	177
Tennessee-----	1	-	1	42	43	44	17	61	3,510	1,468	4,979	2,150	899	3,049	240	54	193
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	1	-	4	172	176	177	50	227	1,948	2,456	4,405	1,034	1,304	2,338	196	39	77
Virginia-----	13	-	10	537	547	560	151	711	4,628	1,720	6,348	4,079	1,516	5,595	574	43	191
Washington-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
West Virginia--	32	3	35	2,920	2,958	2,990	2,379	5,369	2,975	2,407	5,382	2,388	1,932	4,320	318	43	116
Wyoming-----	-	-	-	20	20	20	-	20	-	2,151	2,151	-	1,505	1,505	-	38	38
Total or average, bituminous--	95	15	114	6,513	6,642	6,737	5,236	11,973	2,988	2,318	5,307	2,164	1,679	3,843	548	44	150
Pennsylvania (anthracite)--	2	-	-	47	47	49	16	65	18,542	2,397	20,939	21,252	2,747	23,998	-	33	277
Total or average, deep mines--	97	15	114	6,560	6,689	6,786	5,252	12,038	3,041	2,318	5,359	2,205	1,681	3,886	548	44	151

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Strip mines:																	
Alabama-----	3	-	1	75	76	79	93	172	4,287	329	4,616	1,513	116	1,630	50	18	245
Alaska-----	-	-	-	11	11	11	3	14	-	1,003	1,003	-	237	237	-	15	15
Arizona-----	1	-	2	11	13	14	1	15	9,825	4,087	13,912	912	379	1,291	925	59	607
Arkansas-----	-	-	-	4	4	4	1	5	-	358	358	-	213	213	-	24	24
Colorado-----	1	-	-	4	4	5	1	6	12,473	33	12,506	1,655	4	1,659	-	4	1,203
Illinois-----	3	-	1	173	174	177	51	228	2,625	994	3,618	666	252	918	240	38	140
Indiana-----	1	-	-	42	42	43	48	91	1,184	410	1,594	257	89	346	-	49	188
Iowa-----	-	-	-	2	2	2	-	2	-	761	761	-	291	291	-	32	32
Kansas-----	-	-	-	9	9	9	13	22	-	270	270	-	168	168	-	8	8
Kentucky-----	5	1	6	218	225	230	290	520	2,041	1,469	3,510	563	405	969	1,386	33	224
Maryland-----	1	-	-	3	3	4	4	8	9,780	135	9,916	3,546	49	3,595	-	28	1,521
Missouri-----	-	-	2	37	39	39	1	40	-	1,572	1,572	-	457	457	190	49	56
Montana-----	-	-	-	12	12	12	15	27	-	413	413	-	27	27	-	31	31
New Mexico-----	2	-	1	8	9	11	5	16	11,858	195	12,052	1,378	23	1,400	75	15	1,109
North Dakota----	-	1	-	7	8	8	8	16	-	10,753	10,753	-	839	839	-	34	779
Ohio-----	-	1	6	66	73	73	147	220	-	2,068	2,068	-	568	568	1,355	46	235
Oklahoma-----	-	-	3	10	13	13	6	19	-	691	691	-	297	297	107	36	52
Pennsylvania (bituminous)----	3	1	2	161	164	167	130	297	1,657	1,464	3,120	534	472	1,006	2,696	28	203
Tennessee-----	1	-	-	18	18	19	15	34	4,757	437	5,194	1,955	180	2,134	-	31	345
Texas-----	-	-	-	11	11	11	20	31	-	563	563	-	54	54	-	36	36
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	1	-	1	47	48	49	23	72	2,548	990	3,537	784	305	1,089	240	44	170
Washington-----	-	-	-	18	18	18	1	19	-	636	636	-	112	112	-	24	24
West Virginia----	1	-	3	138	141	142	140	282	953	806	1,759	339	287	626	232	32	78
Wyoming-----	1	-	2	28	30	31	21	52	2,610	874	3,484	305	102	407	175	59	258
Total or average, bituminous----	24	4	30	1,113	1,147	1,171	1,037	2,208	2,029	1,246	3,275	497	305	802	868	34	198
Pennsylvania (anthracite)----	-	-	-	82	82	82	147	229	-	1,364	1,364	-	1,027	1,027	-	34	34
Total or average, strip mines---	24	4	30	1,195	1,229	1,253	1,184	2,437	1,972	1,249	3,222	492	312	804	868	34	188

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Other surface mining: 1/																	
Kentucky-----	1	1	1	13	15	16	16	32	6,909	8,631	15,540	1,670	2,086	3,756	75	109	843
Ohio-----	-	-	-	3	3	3	-	3	-	560	560	-	75	75	-	20	20
Tennessee-----	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
Virginia-----	1	-	-	2	2	3	-	3	33,705	1,045	34,750	7,669	238	7,907	-	93	2,062
West Virginia----	-	-	-	8	8	8	8	16	-	443	443	-	126	126	-	28	28
Total or average, bituminous----	2	1	1	26	28	30	28	58	6,286	4,170	10,456	1,580	1,048	2,629	75	73	665
Pennsylvania (anthracite)----	-	-	-	10	10	10	6	16	-	424	424	-	69	69	-	11	11
Total or average, other surface mining-----	2	1	1	36	38	40	34	74	5,509	3,707	9,217	1,299	874	2,173	75	56	502

1/ See footnote at end of table.

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines
in the United States, by general work location and State, 1974 - Continued

State	Number of injuries							Severity rates						Average severity			
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-ment par-tial	Tempo-rary total	All dis-abling	
		Total	Par-tial	Tempo-rary total				Total non-fatal dis-abling	Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling				All dis-abling
Total surface mining:																	
Alabama-----	3	-	1	75	76	79	93	172	4,263	327	4,590	1,506	116	1,622	50	18	245
Alaska-----	-	-	-	11	11	11	3	14	-	1,003	1,003	-	237	237	-	15	15
Arizona-----	1	-	2	11	13	14	1	15	9,825	4,087	13,912	912	379	1,291	925	59	607
Arkansas-----	-	-	-	4	4	4	1	5	-	358	358	-	213	213	-	24	24
Colorado-----	1	-	-	4	4	5	1	6	12,473	33	12,506	1,655	4	1,659	-	4	1,203
Illinois-----	3	-	1	173	174	177	51	228	2,625	994	3,618	666	252	918	240	38	140
Indiana-----	1	-	-	42	42	43	48	91	1,184	410	1,594	257	89	346	-	49	188
Iowa-----	-	-	-	2	2	2	-	2	-	761	761	-	291	291	-	32	32
Kansas-----	-	-	-	9	9	9	13	22	-	270	270	-	168	168	-	8	8
Kentucky-----	6	2	7	231	240	246	306	552	2,312	1,869	4,181	633	512	1,145	1,199	38	265
Maryland-----	1	-	-	3	3	4	4	8	9,433	130	9,564	3,442	48	3,490	-	28	1,521
Missouri-----	-	-	2	37	39	39	1	40	-	1,568	1,568	-	454	454	190	49	56
Montana-----	-	-	-	12	12	12	15	27	-	380	380	-	27	27	-	31	31
New Mexico-----	2	-	1	8	9	11	5	16	11,858	195	12,052	1,378	23	1,400	75	15	1,109
North Dakota-----	-	1	-	7	8	8	8	16	-	10,753	10,753	-	839	839	-	34	779
Ohio-----	-	1	6	69	76	76	147	223	-	2,049	2,049	-	555	555	1,355	45	227
Oklahoma-----	-	-	3	10	13	13	6	19	-	691	691	-	297	297	107	36	52
Pennsylvania (bituminous)----	3	1	2	161	164	167	130	297	1,647	1,455	3,103	529	468	997	2,696	28	203
Tennessee-----	1	-	-	18	18	19	19	38	4,517	415	4,931	1,828	168	1,996	-	31	345
Texas-----	-	-	-	11	11	11	20	31	-	563	563	-	54	54	-	36	36
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	2	-	1	49	50	52	23	75	4,737	994	5,731	1,423	298	1,721	240	46	279
Washington-----	-	-	-	18	18	18	1	19	-	636	636	-	112	112	-	24	24
West Virginia----	1	-	3	146	149	150	148	298	884	779	1,663	309	272	581	232	31	75
Wyoming-----	1	-	2	28	30	31	21	52	2,610	874	3,484	305	102	407	175	59	258
Total or average, bituminous----	26	5	31	1,139	1,175	1,201	1,065	2,266	2,141	1,323	3,464	524	324	848	842	35	210
Pennsylvania (anthracite)----	-	-	-	92	92	92	153	245	-	1,255	1,255	-	666	666	-	32	32
Total or average, surface mining-----	26	5	31	1,231	1,267	1,293	1,218	2,511	2,075	1,321	3,395	517	329	846	842	35	197

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines
in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Total mining:																	
Alabama-----	6	-	8	201	209	215	301	516	3,240	1,302	4,542	1,892	761	2,653	922	35	235
Alaska-----	-	-	-	11	11	11	3	14	-	1,003	1,003	-	237	237	-	15	15
Arizona-----	1	-	2	11	13	14	1	15	9,825	4,087	13,912	912	379	1,291	925	59	607
Arkansas-----	-	-	-	4	4	4	1	5	-	358	358	-	213	213	-	24	24
Colorado-----	2	-	1	68	69	71	45	116	4,150	1,111	5,262	1,758	471	2,229	300	43	214
Illinois-----	12	-	10	500	510	522	278	800	3,291	1,313	4,604	1,238	494	1,733	252	52	193
Indiana-----	1	-	-	42	42	43	48	91	1,173	406	1,579	256	89	344	-	49	188
Iowa-----	-	-	-	5	5	5	-	5	-	2,577	2,577	-	1,010	1,010	-	118	118
Kansas-----	-	-	-	9	9	9	13	22	-	270	270	-	168	168	-	8	8
Kentucky-----	22	10	29	1,310	1,349	1,371	1,225	2,596	2,742	2,914	5,656	1,177	1,251	2,428	1,094	37	199
Maryland-----	1	-	-	3	3	4	4	8	9,054	125	9,180	3,268	45	3,313	-	28	1,521
Missouri-----	-	-	2	37	39	39	1	40	-	1,568	1,568	-	454	454	190	49	56
Montana-----	-	-	-	12	12	12	15	27	-	380	380	-	27	27	-	31	31
New Mexico-----	2	-	1	22	23	25	21	46	8,101	658	8,758	1,299	105	1,404	75	41	519
North Dakota----	-	1	-	7	8	8	8	16	-	10,753	10,753	-	839	839	-	34	779
Ohio-----	5	1	11	386	398	403	337	740	1,543	1,680	3,222	655	714	1,369	963	42	156
Oklahoma-----	-	-	3	10	13	13	6	19	-	691	691	-	297	297	107	36	52
Pennsylvania (bituminous)----	17	5	22	1,053	1,080	1,097	1,164	2,261	2,193	2,081	4,274	1,337	1,268	2,605	648	50	181
Tennessee-----	2	-	1	60	61	63	36	99	3,950	1,008	4,958	1,976	504	2,480	240	47	239
Texas-----	-	-	-	11	11	11	20	31	-	563	563	-	54	54	-	36	36
Utah-----	1	-	4	172	176	177	50	227	1,948	2,456	4,405	1,034	1,304	2,338	196	39	77
Virginia-----	15	-	11	586	597	612	174	786	4,642	1,625	6,267	3,266	1,143	4,409	544	44	199
Washington-----	-	-	-	18	18	18	2	20	-	628	628	-	111	111	-	24	24
West Virginia----	33	3	38	3,066	3,107	3,140	2,527	5,667	2,776	2,252	5,028	1,983	1,609	3,592	311	43	114
Wyoming-----	1	-	2	48	50	51	21	72	2,258	1,046	3,304	297	138	435	175	51	172
Total or average, bituminous----	121	20	145	7,652	7,817	7,938	6,301	14,239	2,754	2,043	4,797	1,294	960	2,255	611	43	159
Pennsylvania (anthracite)----	2	-	-	139	139	141	169	310	4,045	1,504	5,549	2,432	905	3,337	-	32	117
Total or average, total mining--	123	20	145	7,791	7,956	8,079	6,470	14,549	2,769	2,037	4,805	1,304	960	2,264	611	43	159

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries							Severity rates						Average severity			
	Fatal	Nonfatal			All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling	
		Permanent		Tempo-rary total				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling				
		Total	Par-tial														
Independent shops and yards:																	
Illinois-----	-	-	1	16	17	17	5	22	-	972	972	-	-	-	110	38	42
Indiana-----	-	-	-	8	8	8	1	9	-	2,105	2,105	-	-	-	-	92	92
Kentucky-----	-	-	-	4	4	4	4	8	-	202	202	-	-	-	-	18	18
Missouri-----	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Ohio-----	-	-	-	4	4	4	13	17	-	173	173	-	-	-	-	33	33
Pennsylvania (bituminous)----	-	-	-	1	1	1	7	8	-	13	13	-	-	-	-	7	7
Virginia-----	-	-	-	8	8	8	13	21	-	327	327	-	-	-	-	28	28
West Virginia----	-	-	-	29	29	29	47	76	-	583	583	-	-	-	-	37	37
Total or average, bituminous----	-	-	1	70	71	71	91	162	-	554	554	-	-	-	110	41	42
Pennsylvania (anthracite)----	-	-	-	11	11	11	31	42	-	906	906	-	-	-	-	17	17
Total or average, independent shops and yards-----	-	-	1	81	82	82	122	204	-	567	567	-	-	-	110	37	38

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal				All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling
		Permanent		Tempo-rary total	Total non-fatal dis-abling				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling			
		Total	Par-tial														
Mechanical cleaning plants:																	
Alabama-----	-	-	-	17	17	17	19	36	-	228	228	-	-	-	-	10	10
Alaska-----	-	-	-	1	1	1	-	1	-	1,249	1,249	-	-	-	-	19	19
Arizona-----	-	-	-	1	1	1	-	1	-	15	15	-	-	-	-	1	1
Arkansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	1	2	3	3	-	3	-	1,298	1,298	-	-	-	50	8	22
Illinois-----	-	-	2	15	17	17	15	32	-	577	577	-	-	-	335	32	68
Indiana-----	-	-	-	2	2	2	12	14	-	27	27	-	-	-	-	7	7
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky-----	2	1	2	87	90	92	120	212	2,692	2,678	5,369	-	-	-	1,525	33	260
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri-----	-	-	-	2	2	2	-	2	-	404	404	-	-	-	-	21	21
Montana-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico-----	-	-	-	6	6	6	6	12	-	390	390	-	-	-	-	25	25
North Dakota-----	-	-	-	1	1	1	-	1	-	8,389	8,389	-	-	-	-	65	65
Ohio-----	-	-	-	10	10	10	13	23	-	400	400	-	-	-	-	57	57
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania (bituminous)----	2	-	-	50	50	52	73	125	3,228	832	4,061	-	-	-	-	62	250
Tennessee-----	-	-	-	1	1	1	2	3	-	40	40	-	-	-	-	9	9
Texas-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Utah-----	-	-	-	3	3	3	1	4	-	235	235	-	-	-	-	21	21
Virginia-----	-	-	-	15	15	15	14	29	-	505	505	-	-	-	-	46	46
Washington-----	-	-	-	2	2	2	-	2	-	248	248	-	-	-	-	6	6
West Virginia-----	6	-	-	189	189	195	228	423	4,972	1,130	6,101	-	-	-	-	43	227
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total or average, bituminous-----	10	1	5	404	410	420	503	923	2,641	1,155	3,795	-	-	-	754	41	205
Pennsylvania (anthracite)----	-	-	-	97	97	97	172	269	-	1,734	1,734	-	-	-	-	35	35
Total or average, mechanical cleaning plants-----	10	1	5	501	507	517	675	1,192	2,434	1,200	3,634	-	-	-	754	40	173

TABLE 40. - Number of injuries by degree, injury-severity rates and average severity at coal mines in the United States, by general work location and State, 1974 - Continued

State	Number of injuries								Severity rates						Average severity		
	Fatal	Nonfatal				All dis-abling inju-ries	Non-dis-abling inju-ries	All inju-ries	Per million man-hours			Per million tons			Perma-nent par-tial	Tempo-rary total	All dis-abling
		Permanent		Tempo-rary total	Total non-fatal dis-abling				Fatal	Non-fatal dis-abling	All dis-abling	Fatal	Non-fatal dis-abling	All dis-abling			
		Total	Par-tial														
Grand total:	6	-	8	218	226	232	320	552	3,043	1,237	4,280	1,892	769	2,662	922	33	218
Alabama-----	-	-	-	12	12	12	3	15	-	1,024	1,024	-	264	264	-	16	16
Alaska-----	1	-	2	12	14	15	1	16	8,861	3,687	12,548	912	380	1,292	925	54	566
Arizona-----	-	-	-	4	4	4	1	5	-	347	347	-	213	213	-	24	24
Arkansas-----	2	-	2	70	72	74	45	119	4,078	1,115	5,192	1,758	480	2,238	175	42	206
Colorado-----	12	-	13	531	544	556	298	854	2,924	1,243	4,168	1,238	526	1,765	253	51	185
Illinois-----	1	-	-	52	52	53	61	114	1,004	473	1,476	256	120	376	-	54	167
Indiana-----	-	-	-	5	5	5	-	5	-	2,577	2,577	-	1,010	1,010	-	118	118
Iowa-----	-	-	-	9	9	9	13	22	-	243	243	-	168	168	-	8	8
Kansas-----	24	11	31	1,401	1,443	1,467	1,349	2,816	2,720	2,876	5,596	1,284	1,358	2,643	1,122	37	202
Kentucky-----	1	-	-	3	3	4	4	8	8,847	122	8,969	3,268	45	3,313	-	28	1,521
Maryland-----	-	-	2	39	41	41	2	43	-	1,408	1,408	-	463	463	190	47	54
Missouri-----	-	-	-	12	12	12	15	27	-	380	380	-	27	27	-	31	31
Montana-----	2	-	1	28	29	31	27	58	6,430	602	7,033	1,299	122	1,421	75	37	423
New Mexico-----	-	1	-	8	9	9	8	17	-	10,721	10,721	-	848	848	-	38	700
North Dakota----	5	1	11	400	412	417	363	780	1,388	1,543	2,931	655	729	1,384	963	42	152
Ohio-----	-	-	3	10	13	13	6	19	-	666	666	-	297	297	107	36	52
Oklahoma-----																	
Oklahoma-----																	
Pennsylvania (bituminous)----	19	5	22	1,104	1,131	1,150	1,244	2,394	2,245	1,967	4,213	1,494	1,309	2,803	648	50	186
Tennessee-----	2	-	1	61	62	64	38	102	3,681	942	4,622	1,976	505	2,481	240	46	235
Texas-----	-	-	-	11	11	11	20	31	-	563	563	-	54	54	-	36	36
Utah-----	1	-	4	175	179	180	51	231	1,794	2,281	4,075	1,034	1,314	2,348	197	39	76
Virginia-----	15	-	11	609	620	635	201	836	4,197	1,512	5,709	3,266	1,176	4,443	544	43	193
Washington-----	-	-	-	20	20	20	2	22	-	601	601	-	115	115	-	22	22
West Virginia----	39	3	38	3,284	3,325	3,364	2,802	6,166	2,910	2,112	5,022	2,344	1,702	4,045	311	43	120
Wyoming-----	1	-	2	48	50	51	21	72	2,246	1,041	3,287	297	138	435	175	51	172
Total or average, bituminous----	131	21	151	8,126	8,298	8,429	6,895	15,324	2,695	1,946	4,641	1,401	1,012	2,414	612	43	161
Pennsylvania (anthracite)----	2	-	-	247	247	249	372	621	2,351	1,568	3,919	2,432	1,622	4,054	-	32	80
Total or average-----	133	21	151	8,373	8,545	8,678	7,267	15,945	2,689	1,940	4,629	1,410	1,018	2,428	612	43	158

1/ Includes bituminous coal auger mines and anthracite culm banks and dredges.

TABLE 41. - Single accidents in which five or more fatalities occurred
at coal mines in the United States, 1965-74

Date	Mine	Location of mine	Cause	Number killed
1965: May 24-----	No. 2A-----	Robbins, Tenn.-----	Explosion-----	5
Oct. 16-----	Mars No. 2-----	Wilsonburg, W. Va.----	Mine fire-----	7
Dec. 28-----	Dutch Creek-----	Redstone, Colo.-----	Explosion-----	9
1966: June 1-----	Dora No. 2-----	Dora, Pa.-----	Suffocation-----	5
July 23-----	Siltex-----	Mt. Hope, W. Va.-----	Explosion-----	7
1967: No occurrence	-----	-----	-----	-
1968: Aug. 7-----	River Queen No. 1-	Greenville, Ky.-----	Explosion-----	9
Nov. 20-----	Consol. No. 9-----	Farmington, W. Va.----	-----do-----	78
1969: No occurrence	-----	-----	-----	-
1970: Dec. 30-----	Nos. 15 and 16----	Hyden, Ky.-----	Explosion-----	38
1971: No occurrence	-----	-----	-----	-
1972: July 22-----	Blacksville No. 1-	Blacksville, W. Va.----	Mine fire-----	9
Dec. 16-----	Itmann No. 3-----	Itmann, W. Va.-----	Explosion-----	5
1973: No occurrence	-----	-----	-----	-
1974: No occurrence	-----	-----	-----	-

TABLE 42. - Injury experience and worktime data on officeworkers at coal mines in the United States, by State, 1974

State	Injuries				Frequency rates per million man-hours				Severity rates per million man-hours			Average men working daily	Man-hours worked
	Fatal	Nonfatal disabling	All disabling	Non-disabling	Fatal	Nonfatal disabling	All disabling	Non-disabling	Fatal	Nonfatal disabling	All disabling		
Alabama -----	-	-	-	-	-	-	-	-	-	-	-	169	334,097
Alaska -----	-	-	-	-	-	-	-	-	-	-	-	7	10,934
Arizona -----	-	-	-	-	-	-	-	-	-	-	-	10	28,461
Arkansas -----	-	-	-	-	-	-	-	-	-	-	-	7	13,196
Colorado -----	-	-	-	-	-	-	-	-	-	-	-	86	189,657
Illinois -----	-	2	2	1	-	2.36	2.36	1.18	-	12	12	395	845,803
Indiana -----	-	-	-	1	-	-	-	4.66	-	-	-	96	214,377
Iowa -----	-	-	-	-	-	-	-	-	-	-	-	18	7,880
Kansas -----	-	-	-	-	-	-	-	-	-	-	-	2	4,384
Kentucky -----	-	2	2	3	-	1.36	1.36	2.05	-	55	55	797	1,465,485
Maryland -----	-	-	-	-	-	-	-	-	-	-	-	9	13,448
Missouri -----	-	-	-	-	-	-	-	-	-	-	-	52	132,195
Montana -----	-	-	-	1	-	-	-	6.25	-	-	-	62	159,992
New Mexico -----	-	-	-	-	-	-	-	-	-	-	-	105	217,155
North Dakota -----	-	1	1	-	-	11.64	11.64	-	-	128	128	42	85,922
Ohio -----	-	-	-	-	-	-	-	-	-	-	-	610	1,228,199
Oklahoma -----	-	-	-	-	-	-	-	-	-	-	-	13	27,390
Pennsylvania (bituminous) -----	-	1	1	1	-	.95	.95	.95	-	558	558	597	1,057,079
Tennessee -----	-	-	-	-	-	-	-	-	-	-	-	55	99,697
Texas -----	-	-	-	-	-	-	-	-	-	-	-	33	70,325
Utah -----	-	-	-	2	-	-	-	14.39	-	-	-	66	139,013
Virginia -----	-	-	-	2	-	-	-	11.41	-	-	-	136	175,355
Washington -----	-	-	-	-	-	-	-	-	-	-	-	82	160,780
West Virginia -----	-	2	2	10	-	.84	.84	4.18	-	10	10	1,696	2,393,000
Wyoming -----	-	-	-	-	-	-	-	-	-	-	-	33	57,467
Total or average bituminous --	-	8	8	21	-	.88	.88	2.30	-	78	78	5,178	9,131,891
Pennsylvania (anthracite) -----	-	-	-	-	-	-	-	-	-	-	-	99	161,845
Total or average, all mines --	-	8	8	21	-	.86	.86	2.26	-	77	77	5,277	9,293,736

TABLE 43. - Injuries, distribution, average severity by degree, and injury rates for officeworkers at bituminous coal mines in the United States, by part of body injured and nature of injury, 1974

Part of body injured	Number of injuries								Distribution of all disabling injuries, percent	Frequency rates per million man-hours				Severity rates per million man-hours			Average severity		
	Fatal	Nonfatal disabling		Temporary total	All non-fatal disabling	All disabling injuries	Non-disabling injuries	All injuries		Fatal	Non-fatal disabling	All disabling	Non-disabling	Fatal	Non-fatal disabling	All disabling	Permanent partial	Temporary total	All disabling
		Permanent																	
		Total	Partial																
Head, face, neck (excl. eye)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eye-----	-	-	-	-	-	-	1	1	-	-	-	0.11	-	-	-	-	-	-	
Trunk-----	-	-	3	3	3	7	10	37.5	-	0.33	0.33	.77	-	4	4	-	12	12	
Arm (above wrist)-----	-	-	-	-	-	2	2	-	-	-	-	.22	-	-	-	-	-	-	
Wrist, hand, fingers-----	-	-	1	1	1	6	7	12.5	-	.11	.11	.66	-	65	65	590	-	590	
Leg (above ankle)-----	-	-	2	2	2	1	3	25.0	-	.22	.22	.11	-	2	2	-	8	8	
Ankle, foot, toes-----	-	-	2	2	2	3	5	25.0	-	.22	.22	.33	-	8	8	-	37	37	
Multiple-----	-	-	-	-	-	1	1	-	-	-	-	.11	-	-	-	-	-	-	
Unclassified (no data)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total or average, office-----	-	-	1	7	8	8	21	29	-	-	.88	.88	2.30	-	78	78	590	18	89
Nature of injury																			
Amputation, enucleation-----	-	-	1	1	1	-	1	12.5	-	.11	.11	-	-	65	65	590	-	590	
Crushing, contusion-----	-	-	-	-	-	1	1	-	-	-	-	.11	-	-	-	-	-	-	
Cut, laceration-----	-	-	1	1	1	6	7	12.5	-	.11	.11	.66	-	1	1	-	11	11	
Fracture-----	-	-	-	-	-	2	2	-	-	-	-	.22	-	-	-	-	-	-	
Hernia-----	-	-	-	-	-	1	1	-	-	-	-	.11	-	-	-	-	-	-	
Strain, sprain-----	-	-	6	6	6	7	13	75.0	-	.66	.66	.77	-	12	12	-	19	19	
Multiple-----	-	-	-	-	-	1	1	-	-	-	-	.11	-	-	-	-	-	-	
Other, not elsewhere classified-----	-	-	-	-	-	2	2	-	-	-	-	.22	-	-	-	-	-	-	
Unclassified (no data)-----	-	-	-	-	-	1	1	-	-	-	-	.11	-	-	-	-	-	-	
Total or average, office-----	-	-	1	7	8	8	21	29	-	-	.88	.88	2.30	-	78	78	590	18	89

TABLE 45 - Injuries by principal cause for officeworkers at coal mines in the United States, by State, 1974

State	Nonfatal disabling									Nonfatal disabling									Total	Grand total		
	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Electricity	Machinery	Miscellaneous causes	Total	Slips or falls of persons	Handling material	Handtools	Stepping or kneeling on sharp or loose objects	Striking or bumping against objects	Haulage	Electricity	Machinery			Miscellaneous causes	Total
Illinois-----	1					1				2											1	3
Indiana-----										2											1	1
Kentucky-----										2											3	5
Montana-----																					1	1
North Dakota-----										1											1	1
Pennsylvania (bituminous)-----								1		1											1	2
Utah-----										1											2	2
Virginia-----											1							1			1	2
West Virginia-----	1					1				2	3	3	2	1			1				10	12
Total bituminous-----	3	-	1	-	-	2	-	1	1	8	5	9	2	1	1	-	1	2	-	-	21	29
Pennsylvania (anthracite)-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total-----	3	-	1	-	-	2	-	1	1	8	5	9	2	1	1	-	1	2	-	-	21	29

TABLE 46. - Number and average severity of injuries by degree for officeworkers at bituminous coal mines
in the United States, by principal cause of injury, 1974

Officeworkers only, principal cause of injury	Injuries								Average severity		
	Fatal	Nonfatal disabling				All disabling	Non- disabling	All injuries	Permanent partial	Temporary total	All disabling
		Permanent		Temporary total	All nonfatal disabling						
		Total	Partial								
Slips or falls of persons-----	-	-	-	3	3	3	5	8	-	29	29
Handling material-----	-	-	-	-	-	-	9	9	-	-	-
Handtools-----	-	-	-	1	1	1	2	3	-	11	11
Stepping or kneeling on sharp or loose objects--	-	-	-	-	-	-	1	1	-	-	-
Striking or bumping against objects-----	-	-	-	-	-	-	1	1	-	-	-
Haulage-----	-	-	-	2	2	2	-	2	-	8	8
Electricity-----	-	-	-	-	-	-	1	1	-	-	-
Machinery-----	-	-	1	-	1	1	2	3	590	-	590
Miscellaneous causes-----	-	-	-	1	1	1	-	1	-	11	11
Total or average-----	-	-	1	7	8	8	21	29	590	18	89

TABLE 47. - Number and average severity of injuries by degree for officeworkers at Pennsylvania anthracite mines in the United States, by principal cause of injury, 1974

Officeworkers only, principal cause of injury	Injuries								Average severity		
	Fatal	Nonfatal disabling			All disabling	Non- disabling	All injuries	Permanent partial	Temporary total	All disabling	
		Permanent		Temporary total							
		Total	Partial								
Slips or falls of persons-----	-	-	-	-	-	-	-	-	-	-	
Handling material-----	-	-	-	-	-	-	-	-	-	-	
Handtools-----	-	-	-	-	-	-	-	-	-	-	
Stepping or kneeling on sharp or loose objects--	-	-	-	-	-	-	-	-	-	-	
Striking or bumping against objects-----	-	-	-	-	-	-	-	-	-	-	
Haulage-----	-	-	-	-	-	-	-	-	-	-	
Electricity-----	-	-	-	-	-	-	-	-	-	-	
Machinery-----	-	-	-	-	-	-	-	-	-	-	
Miscellaneous causes-----	-	-	-	-	-	-	-	-	-	-	
Total or average-----	-	-	-	-	-	-	-	-	-	-	

TABLE 48. - Injury experience and worktime data for all work locations combined (includes officeworkers) at coal mines in the United States, by State, 1974

State	Injuries				Frequency rates per million man-hours				Severity rates per million man-hours			Average men working daily	Man-hours worked
	Fatal	Nonfatal disabling	All disabling	Non-disabling	Fatal	Nonfatal disabling	All disabling	Non-disabling	Fatal	Nonfatal disabling	All disabling		
Alabama-----	6	226	232	320	0.49	18.58	19.07	26.31	2,960	1,203	4,163	6,874	12,164,210
Alaska-----	-	12	12	3	-	61.36	61.36	15.34	-	966	966	86	195,553
Arizona-----	1	14	15	1	1.42	19.84	21.26	1.42	8,503	3,539	12,042	488	705,617
Arkansas-----	-	4	4	1	-	13.81	13.81	3.45	-	331	-	147	289,733
Colorado-----	2	72	74	45	.64	22.98	23.62	14.37	3,831	1,047	4,878	1,605	3,132,515
Illinois-----	12	546	558	299	.47	21.44	21.91	11.74	2,827	1,202	4,030	12,457	25,465,717
Indiana-----	1	52	53	62	.16	8.40	8.56	10.01	969	456	1,425	2,987	6,192,404
Iowa-----	-	5	5	-	-	21.18	21.18	-	-	2,491	2,491	123	236,020
Kansas-----	-	9	9	13	-	29.94	29.94	43.24	-	239	239	165	300,651
Kentucky-----	24	1,445	1,469	1,352	.44	26.55	27.00	24.85	2,646	2,800	5,446	35,347	54,416,061
Maryland-----	1	3	4	4	1.45	4.34	5.78	5.78	8,675	120	8,795	543	691,660
Missouri-----	-	41	41	2	-	24.02	24.02	1.17	-	1,299	1,299	805	1,707,068
Montana-----	-	12	12	16	-	10.44	10.44	13.93	-	327	327	561	1,148,914
New Mexico-----	2	29	31	27	.96	13.92	14.88	12.96	5,760	540	6,300	1,088	2,083,320
North Dakota-----	-	10	10	8	-	14.85	14.85	11.88	-	9,370	9,370	340	673,529
Ohio-----	5	412	417	363	.22	18.03	18.25	15.89	1,313	1,461	2,774	12,782	22,845,476
Oklahoma-----	-	13	13	6	-	12.40	12.40	5.72	-	649	649	537	1,048,269
Pennsylvania (bituminous)-----	19	1,132	1,151	1,245	.37	21.84	22.21	24.02	2,200	1,939	4,138	27,437	51,828,172
Tennessee-----	2	62	64	38	.60	18.45	19.05	11.31	3,572	914	4,485	2,074	3,359,876
Texas-----	-	11	11	20	-	14.20	14.20	25.83	-	511	511	511	774,443
Utah-----	1	179	180	53	.29	51.39	51.68	15.22	1,723	2,190	3,912	2,114	3,482,873
Virginia-----	15	620	635	203	.69	28.68	29.37	9.39	4,163	1,499	5,662	13,618	21,618,803
Washington-----	-	20	20	2	-	22.08	22.08	2.21	-	495	495	479	905,850
West Virginia-----	39	3,327	3,366	2,812	.47	40.18	40.65	33.96	2,826	2,052	4,877	53,928	82,808,571
Wyoming-----	1	50	51	21	.37	18.32	18.69	7.70	2,199	1,019	3,218	1,670	2,728,623
Total or average, bituminous-----	131	8,306	8,437	6,916	.44	27.61	28.05	22.99	2,613	1,890	4,503	178,766	300,803,928
Pennsylvania (anthracite)-----	2	247	249	372	.38	46.91	47.29	70.65	2,279	1,520	3,799	3,508	5,265,235
Grand total-----	133	8,553	8,686	7,288	.43	27.94	28.38	23.81	2,607	1,883	4,491	182,274	306,069,163

TABLE 49. - Injury, worktime, production, and productivity data at bituminous coal mines in the United States, 1930-74

Year	Number of injuries			Frequency rates						Severity rates per million man-hours		Average severity, all disabling injuries	Average men working daily	Average days active	Man-days worked (thousands)	Man-hours worked (thousands) 1/	Production, short tons (thousands)
				Per million man-hours			Per million tons										
	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling						
1930-----	1,619	71,217	NA	1.90	83.75	NA	3.46	152.33	NA	NA	NA	493,202	187	92,326	850,359	467,526	
1931-----	1,080	53,975	NA	1.60	79.98	NA	2.83	141.26	NA	NA	NA	450,274	163	73,349	674,871	382,105	
1932-----	958	39,352	NA	1.77	72.58	NA	3.09	127.06	NA	NA	NA	406,380	146	59,260	542,181	309,710	
1933-----	833	43,946	NA	1.31	68.87	NA	2.50	131.72	NA	NA	NA	418,752	167	69,882	638,124	333,631	
1934-----	958	46,982	NA	1.41	69.39	NA	2.67	130.74	NA	NA	NA	458,044	178	81,648	677,115	359,368	
1935-----	968	47,529	NA	1.46	71.47	NA	2.60	127.64	NA	NA	NA	462,354	178	82,292	655,047	372,369	
1936-----	1,098	50,514	NA	1.43	65.62	NA	2.52	115.73	NA	NA	NA	482,500	197	95,262	769,819	436,468	
1937-----	1,198	52,847	NA	1.54	68.05	NA	2.68	118.21	NA	NA	NA	490,771	196	96,130	776,581	447,047	
1938-----	880	36,794	NA	1.52	63.47	NA	2.52	105.26	NA	NA	NA	445,246	161	71,747	579,747	349,548	
1939-----	867	38,544	NA	1.36	60.52	NA	2.19	97.18	NA	NA	NA	445,044	177	78,966	636,828	396,631	
1940-----	1,204	43,994	NA	1.68	61.28	NA	2.61	95.37	NA	NA	NA	440,847	201	88,771	717,969	461,319	
1941-----	1,072	46,637	NA	1.35	58.93	NA	2.08	90.42	NA	NA	NA	457,744	214	98,000	791,429	515,769	
1942-----	1,245	53,193	NA	1.41	60.21	NA	2.14	91.44	NA	NA	NA	448,797	244	109,491	883,518	581,705	
1943-----	1,225	51,067	NA	1.39	57.79	NA	2.06	86.05	NA	NA	NA	407,135	263	106,912	883,709	593,471	
1944-----	1,124	51,253	NA	1.23	56.02	NA	1.81	82.49	NA	7,371	2,198	376,203	278	104,695	814,925	621,358	
1945-----	925	46,194	NA	1.13	56.52	NA	1.60	80.12	NA	6,791	2,497	364,997	257	93,854	817,316	576,925	
1946-----	795	42,817	NA	1.09	58.81	NA	1.49	80.25	NA	6,552	2,552	385,142	215	82,850	727,995	533,520	
1947-----	985	46,025	NA	1.23	57.32	NA	1.57	73.28	NA	7,360	2,689	411,845	236	97,105	803,016	628,034	
1948-----	862	42,078	NA	1.15	56.28	NA	1.45	70.97	NA	6,917	2,687	429,378	220	94,575	747,686	592,923	
1949-----	494	27,548	NA	.93	51.67	NA	1.13	63.22	NA	5,559	3,231	409,431	165	67,552	533,166	435,719	
1950-----	550	28,390	NA	.92	47.73	NA	1.06	54.82	NA	5,548	2,876	408,623	185	75,510	594,836	517,879	
1951-----	684	28,081	NA	1.16	47.56	NA	1.28	52.67	NA	6,951	3,097	372,138	201	74,898	590,406	533,132	
1952-----	449	23,719	NA	.90	47.64	NA	.96	50.53	NA	5,411	2,998	338,719	186	63,028	497,914	469,373	
1953-----	397	20,112	NA	.89	45.26	NA	.87	44.12	NA	5,361	2,681	295,425	191	56,294	444,319	455,885	
1954-----	334	14,746	NA	.99	43.66	NA	.85	37.62	NA	5,934	2,566	241,919	177	42,765	337,727	391,952	
1955-----	360	15,966	NA	.96	42.76	NA	.78	34.52	NA	5,785	2,398	225,539	210	47,306	373,384	462,519	
1956-----	392	16,486	NA	1.02	42.99	NA	.79	33.22	NA	6,134	2,196	227,778	212	48,392	383,442	496,231	
1957-----	427	15,915	NA	1.17	43.74	NA	.87	32.53	NA	7,040	2,197	223,900	206	46,020	363,896	489,175	
1958-----	326	12,036	NA	1.14	41.97	NA	.79	29.29	NA	6,821	2,825	198,350	183	36,260	298,758	610,936	
1959-----	246	10,440	NA	.92	39.15	NA	.60	25.33	NA	5,535	2,446	180,303	187	33,738	266,660	412,078	
1960-----	290	10,501	NA	1.13	40.85	NA	.70	25.24	NA	6,768	2,502	170,628	190	32,417	257,075	416,098	
1961-----	275	9,902	NA	1.18	42.52	NA	.68	24.56	NA	7,085	2,692	151,776	224	29,453	232,871	403,222	
1962-----	263	9,783	NA	1.15	42.86	NA	.62	23.14	NA	6,913	2,799	147,276	196	28,863	228,267	422,838	
1963-----	252	9,838	NA	1.09	42.38	NA	.55	21.37	NA	6,513	3,321	143,628	204	29,289	232,136	460,285	
1964-----	218	9,728	NA	.94	41.92	NA	.45	19.93	NA	5,637	2,675	137,617	194	29,200	232,037	488,086	
1965-----	251	10,071	NA	1.08	43.30	NA	.49	19.63	NA	6,474	2,769	137,602	213	29,242	232,613	513,083	
1966-----	227	9,617	NA	.99	41.80	NA	.43	18.06	NA	5,919	1,981	135,952	213	28,928	230,087	532,558	
1967-----	213	9,506	NA	.93	41.44	NA	.39	17.33	NA	5,571	2,247	131,562	220	28,910	229,415	548,503	
1968-----	307	9,135	NA	1.37	40.89	NA	.57	16.86	NA	8,245	2,580	127,535	221	28,144	223,406	541,849	
1969-----	190	9,425	NA	.84	41.44	NA	.34	16.86	NA	5,013	2,269	127,375	225	28,677	227,411	558,931	
1970-----	255	11,049	NA	1.02	44.21	NA	.43	18.42	NA	6,121	2,339	138,542	227	31,423	249,945	599,918	
1971-----	176	11,363	NA	.72	46.41	NA	.32	20.51	NA	4,313	1,157	137,080	225	30,839	244,820	553,993	
1972-----	153	12,012	15,700	.59	45.96	60.08	.29	22.75	29.73	3,513	1,892	157,285	NA	NA	261,438	528,093	
1973-----	131	10,880	13,999	.48	40.06	51.55	.24	19.73	25.38	2,894	1,966	143,886	NA	NA	271,575	551,482	
1974-----	131	8,298	6,895	.45	28.45	23.64	.23	14.80	12.29	2,695	1,946	173,588	NA	NA	291,672	560,840	

1/ Man-hours of exposure were reported by coal producers for the first time in 1930; from 1930 through 1944, these hours represented worktime or face-time only for underground employees. Since portal-to-portal hours were reported from 1945 on, the face-time hours reported from 1930 through 1944 were converted to portal-to-portal hours--See Bulletin 509, "Injury Experience in Coal Mining, 1948," page 5, for method used. NA Not available.

TABLE 50. - Injury, worktime, production, and productivity data at Pennsylvania anthracite mines, 1930-74

Year	Number of injuries			Frequency rates						Severity rates per million man-hours		Average severity, all disabling injuries	Average men working daily	Average days active	Man-days worked (thousands)	Man-hours worked (thousands)	Production, short tons (thousands)
				Per million man-hours			Per million tons			Fatal	Non-fatal disabling						
	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling									
1930-----	444	28,764	NA	1.76	113.90	NA	6.40	414.56	NA	NA	NA	150,804	209	31,568	252,543	69,385	
1931-----	383	23,983	NA	1.84	115.07	NA	6.42	402.09	NA	NA	NA	139,431	186	25,915	208,415	59,646	
1932-----	249	16,931	NA	1.59	107.88	NA	4.99	339.60	NA	NA	NA	121,243	161	19,486	156,944	49,855	
1933-----	231	15,183	NA	1.49	98.13	NA	4.66	306.47	NA	NA	NA	104,430	185	19,344	154,723	49,541	
1934-----	268	18,577	NA	1.50	104.15	NA	4.69	324.95	NA	NA	NA	108,382	206	22,292	178,372	57,168	
1935-----	274	15,897	NA	1.78	103.16	NA	5.24	304.17	NA	NA	NA	102,848	187	19,280	154,096	52,263	
1936-----	244	17,026	NA	1.56	108.80	NA	4.46	311.43	NA	NA	NA	102,082	192	19,630	156,486	54,670	
1937-----	215	13,412	NA	1.58	98.72	NA	4.15	259.19	NA	NA	NA	99,085	189	18,741	135,854	51,745	
1938-----	225	12,842	NA	1.94	110.85	NA	4.88	278.27	NA	NA	NA	102,082	192	16,528	115,852	46,149	
1939-----	211	13,229	NA	1.71	107.37	NA	4.11	257.65	NA	NA	NA	94,331	186	17,524	123,211	51,346	
1940-----	184	13,782	NA	1.50	112.55	NA	3.57	267.67	NA	NA	NA	92,420	189	17,468	122,447	51,489	
1941-----	194	14,420	NA	1.49	110.83	NA	3.58	266.47	NA	NA	NA	88,948	207	18,444	130,107	54,115	
1942-----	226	13,581	NA	1.64	98.73	NA	3.88	232.89	NA	NA	NA	82,064	239	19,644	137,560	58,316	
1943-----	226	13,527	NA	1.50	89.68	NA	3.80	227.32	NA	NA	NA	79,381	269	21,385	150,832	59,506	
1944-----	174	12,438	NA	1.06	76.05	NA	2.74	195.59	NA	6,383	1,776	106	22,805	17,734	163,549	63,592	
1945-----	143	10,923	NA	1.01	77.32	NA	2.60	198.60	NA	6,073	1,990	103	19,569	14,275	151,633	54,999	
1946-----	173	12,533	NA	1.14	82.65	NA	2.86	207.31	NA	6,845	2,171	108	20,997	15,633	146,523	57,128	
1947-----	173	11,635	NA	1.18	79.41	NA	3.03	203.67	NA	7,084	2,132	114	20,207	14,653	150,545	57,080	
1948-----	137	11,394	NA	.91	75.69	NA	2.40	199.62	NA	5,460	2,685	106	20,508	15,545	109,310	43,201	
1949-----	91	7,857	NA	.83	71.88	NA	2.11	181.87	NA	4,995	2,388	95	14,885	10,931	116,554	44,426	
1950-----	93	8,874	NA	.80	76.14	NA	2.09	199.75	NA	4,787	2,495	95	14,885	10,931	116,554	44,426	
1951-----	101	7,472	NA	.95	69.94	NA	2.41	178.64	NA	5,672	2,787	119	16,467	10,841	106,841	41,828	
1952-----	99	6,355	NA	1.03	66.35	NA	2.44	156.55	NA	6,201	2,369	127	12,975	9,578	104,595	40,595	
1953-----	64	4,146	NA	.92	59.85	NA	2.10	135.85	NA	5,543	2,064	125	9,275	6,925	95,784	30,518	
1954-----	62	2,972	NA	1.23	59.18	NA	2.14	102.72	NA	7,407	2,664	167	41,786	164	50,223	28,933	
1955-----	60	2,919	NA	1.30	63.46	NA	2.07	100.84	NA	7,827	2,423	158	34,550	182	45,995	28,948	
1956-----	56	3,330	NA	1.12	66.31	NA	1.74	103.36	NA	6,691	2,818	141	32,507	212	6,893	50,220	32,216
1957-----	51	2,877	NA	1.15	64.93	NA	2.00	112.69	NA	6,906	2,420	141	30,825	196	6,057	44,311	25,530
1958-----	32	2,124	NA	.90	59.88	NA	1.51	99.90	NA	5,413	2,303	127	26,540	183	4,861	35,471	21,260
1959-----	47	1,723	NA	1.60	58.66	NA	2.29	84.07	NA	9,601	2,081	194	23,294	173	4,036	29,371	20,496
1960-----	35	1,401	NA	1.43	57.30	NA	1.85	73.98	NA	8,588	1,897	179	19,051	176	3,360	24,452	18,938
1961-----	19	1,295	NA	.85	57.75	NA	1.09	73.97	NA	5,084	2,618	131	15,792	196	3,098	22,424	17,507
1962-----	26	1,161	NA	1.26	56.14	NA	1.52	67.76	NA	7,544	1,877	164	14,010	204	2,853	20,680	17,133
1963-----	32	1,295	NA	1.52	61.53	NA	1.74	70.60	NA	9,122	3,245	196	13,498	216	2,912	21,048	18,344
1964-----	24	1,342	NA	1.18	65.89	NA	1.37	76.74	NA	7,070	2,580	144	13,144	214	2,812	20,368	17,487
1965-----	8	1,067	NA	.49	65.16	NA	.54	71.57	NA	2,931	2,004	75	11,132	204	2,271	16,375	14,909
1966-----	6	829	NA	.44	60.64	NA	.46	64.24	NA	2,633	1,844	73	9,292	203	1,883	13,672	12,905
1967-----	9	609	NA	.73	49.27	NA	.73	49.67	NA	4,369	1,142	110	7,750	219	1,701	12,359	12,262
1968-----	4	504	NA	.36	45.77	NA	.35	43.86	NA	2,180	2,002	91	6,932	217	1,508	11,011	11,492
1969-----	13	492	NA	1.29	48.85	NA	1.27	47.99	NA	7,744	1,347	181	5,927	232	1,377	10,073	10,251
1970-----	5	503	NA	.49	49.20	NA	.51	50.88	NA	2,934	1,663	93	5,938	234	1,392	10,224	9,885
1971-----	5	553	NA	.54	59.37	NA	.57	63.36	NA	3,221	691	65	5,028	250	1,259	9,315	8,727
1972-----	3	317	390	.48	51.03	62.79	.46	48.82	60.06	2,898	2,709	109	4,922	NA	NA	6,212	6,493
1973-----	1	340	492	.17	56.24	81.38	.15	52.57	76.08	992	1,698	48	3,357	NA	NA	6,046	6,467
1974-----	2	247	372	.39	48.40	72.89	.41	50.06	75.40	2,351	1,568	80	3,409	NA	NA	5,103	4,934

NA Not available.

TABLE 51. - Injury, worktime, production, and productivity data at all coal mines in the United States, 1930-74

Year	Number of injuries			Frequency rates						Severity rates per million man-hours		Average severity, all disabling injuries	Average men working daily	Average days active	Man-days worked (thousands)	Man-hours worked (thousands) 1/	Production, short tons (thousands)
				Per million man-hours			Per million tons										
	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling	Non-disabling	Fatal	Non-fatal disabling						
1930----	2,063	99,981	NA	1.87	90.65	NA	3.84	186.22	NA	NA	NA	NA	644,006	192	123,894	1,102,902	536,911
1931----	1,463	77,958	NA	1.66	88.26	NA	3.31	176.47	NA	NA	NA	NA	589,705	168	99,264	883,286	441,751
1932----	1,207	56,283	NA	1.73	80.50	NA	3.36	156.53	NA	NA	NA	NA	527,623	149	78,745	699,125	359,565
1933----	1,064	59,129	NA	1.34	74.58	NA	2.78	154.31	NA	NA	NA	NA	523,182	171	89,226	792,847	383,172
1934----	1,226	65,559	NA	1.43	76.63	NA	2.94	157.39	NA	NA	NA	NA	566,426	184	103,940	855,487	416,536
1935----	1,242	63,426	NA	1.52	77.43	NA	2.92	149.37	NA	NA	NA	NA	565,202	180	101,572	819,143	424,632
1936----	1,342	67,540	NA	1.45	72.91	NA	2.73	137.52	NA	NA	NA	NA	584,582	197	114,891	926,305	491,139
1937----	1,413	66,259	NA	1.55	72.62	NA	2.83	132.84	NA	NA	NA	NA	589,856	195	114,871	912,435	498,793
1938----	1,105	49,636	NA	1.59	71.36	NA	2.79	125.44	NA	NA	NA	NA	541,528	163	88,276	695,599	395,697
1939----	1,078	51,773	NA	1.42	68.12	NA	2.41	115.57	NA	NA	NA	NA	539,375	179	96,490	760,039	447,977
1940----	1,388	57,776	NA	1.65	68.75	NA	2.71	112.67	NA	NA	NA	NA	533,267	199	106,239	840,416	512,808
1941----	1,266	61,057	NA	1.37	66.26	NA	2.22	107.14	NA	NA	NA	NA	546,692	213	116,444	921,536	569,884
1942----	1,471	66,774	NA	1.44	65.40	NA	2.30	104.33	NA	NA	NA	NA	530,861	243	129,136	1,021,078	640,021
1943----	1,451	64,594	NA	1.40	62.44	NA	2.22	98.92	NA	NA	NA	NA	486,516	264	128,297	1,034,561	652,977
1944----	1,298	63,691	NA	1.20	59.06	NA	1.90	92.99	NA	7,221	2,134	155	453,937	281	127,500	1,078,474	684,950
1945----	1,068	57,117	NA	1.11	59.58	NA	1.69	90.44	NA	6,685	2,422	150	437,921	259	113,424	958,591	631,523
1946----	968	55,350	NA	1.10	62.92	NA	1.63	93.19	NA	6,603	2,486	142	463,079	224	103,847	879,628	593,576
1947----	1,158	57,660	NA	1.22	60.72	NA	1.69	84.16	NA	7,317	2,603	160	490,356	239	117,312	949,539	685,162
1948----	999	53,472	NA	1.11	59.53	NA	1.54	82.26	NA	6,673	2,686	154	507,333	227	115,083	898,231	650,003
1949----	585	35,405	NA	.91	55.11	NA	1.22	73.93	NA	5,463	3,087	153	485,306	170	82,437	642,476	478,920
1950----	643	37,264	NA	.90	52.38	NA	1.14	66.27	NA	5,423	2,814	155	483,239	189	91,231	711,390	562,305
1951----	785	35,553	NA	1.13	50.99	NA	1.37	61.84	NA	6,755	3,049	188	441,905	202	89,365	697,247	574,960
1952----	548	30,074	NA	.92	50.66	NA	1.07	58.97	NA	5,538	2,896	164	401,329	189	76,003	593,698	509,967
1953----	461	24,258	NA	.90	47.23	NA	.95	49.87	NA	5,386	2,598	166	351,126	187	65,688	513,594	486,404
1954----	396	17,718	NA	1.02	45.67	NA	.94	42.10	NA	6,124	2,578	186	283,705	175	49,598	387,950	420,885
1955----	420	18,885	NA	1.00	45.03	NA	.85	38.43	NA	6,009	2,401	183	260,089	206	53,591	419,379	491,468
1956----	448	19,816	NA	1.03	45.69	NA	.85	37.50	NA	6,198	2,268	181	260,285	212	55,286	433,662	528,447
1957----	478	18,792	NA	1.17	46.04	NA	.93	36.51	NA	7,026	2,221	196	254,725	204	52,077	408,207	514,706
1958----	358	14,160	NA	1.11	43.94	NA	.83	32.76	NA	6,666	2,768	209	224,890	183	41,121	322,229	432,196
1959----	293	12,163	NA	.99	41.09	NA	.68	28.12	NA	5,939	2,409	198	203,597	186	37,773	296,031	432,574
1960----	325	11,902	NA	1.15	42.28	NA	.75	27.36	NA	6,926	2,449	216	189,679	189	35,778	281,528	435,036
1961----	294	11,197	NA	1.15	43.86	NA	.70	26.61	NA	6,910	2,686	213	167,568	194	32,551	255,296	420,729
1962----	289	10,944	NA	1.16	43.96	NA	.66	24.87	NA	6,965	2,722	215	161,286	197	31,716	248,946	439,972
1963----	284	11,133	NA	1.12	43.97	NA	.59	23.26	NA	6,730	2,398	202	157,126	205	32,200	253,185	478,629
1964----	242	11,070	NA	.96	43.86	NA	.48	21.90	NA	5,753	2,668	188	150,761	212	32,012	252,405	505,573
1965----	259	11,138	NA	1.04	44.73	NA	.49	21.09	NA	6,241	2,718	196	148,734	212	31,513	248,988	527,993
1966----	233	10,446	NA	.96	42.85	NA	.43	19.15	NA	5,735	1,973	176	145,244	212	30,811	243,759	545,464
1967----	222	10,115	NA	.92	41.84	NA	.40	18.04	NA	5,509	2,190	180	139,312	220	30,611	241,774	560,764
1968----	311	9,639	NA	1.33	41.12	NA	.56	17.42	NA	7,960	2,553	248	134,467	221	29,651	234,417	553,340
1969----	203	9,917	NA	.85	41.76	NA	.36	17.42	NA	5,129	2,230	173	133,302	225	30,053	237,484	569,182
1970----	260	11,552	NA	1.00	44.40	NA	.43	18.94	NA	5,996	2,312	183	144,480	227	32,814	260,169	609,803
1971----	181	11,916	NA	.71	46.89	NA	.32	21.18	NA	4,273	1,140	114	142,108	226	32,099	254,135	562,720
1972----	156	12,329	16,090	.58	46.08	60.14	.29	23.06	30.10	3,498	1,911	116	162,207	NA	NA	267,550	534,586
1973----	132	11,220	14,491	.48	40.41	52.20	.24	20.11	25.97	2,853	1,960	118	147,243	NA	NA	277,622	557,949
1974----	133	8,545	7,267	.45	28.79	24.49	.24	15.10	12.84	2,689	1,940	158	176,997	NA	NA	296,775	565,774

1/ All man-hours are shown on a portal-to-portal basis.
 NA Not available.

TABLE 52. - Coal mine fatality rates for the United States, 1870-1974 ^{1/}
(Includes underground and surface injuries)

Year	Bituminous coal mines			Anthracite mines			Total		
	Per thousand employed	Per thousand 300-day workers	Per million tons mined	Per thousand employed	Per thousand 300-day workers	Per million tons mined	Per thousand employed	Per thousand 300-day workers	Per million tons mined
1870	-	-	-	5.93	-	13.47	5.93	-	13.47
1871	-	-	-	5.60	-	10.86	5.60	-	10.86
1872	-	-	-	4.98	-	9.20	4.98	-	9.20
1873	-	-	-	5.46	-	10.06	5.46	-	10.06
1874	2.11	-	8.88	4.33	-	9.31	3.87	-	9.26
1875	1.60	-	4.93	3.37	-	10.50	3.06	-	9.51
Average	-	-	-	4.58	-	9.94	4.30	-	9.72
1876	1.00	-	4.29	3.22	-	9.96	2.83	-	9.20
1877	2.17	-	5.90	2.90	-	7.56	2.77	-	7.28
1878	1.86	-	3.17	2.92	-	8.62	2.62	-	6.38
1879	2.02	-	3.39	3.81	-	8.67	3.30	-	6.82
1880	1.43	-	2.95	2.75	-	7.05	2.21	-	5.16
Average	1.66	-	3.42	3.12	-	8.31	2.72	-	6.68
1881	1.67	-	2.75	3.59	4.87	8.55	2.93	-	6.04
1882	1.95	-	3.63	3.54	4.87	8.29	2.75	-	5.72
1883	3.09	-	4.99	3.53	4.56	8.40	3.34	-	6.58
1884	2.26	-	4.11	3.28	5.12	8.94	2.80	-	6.17
1885	1.68	-	3.48	3.58	5.26	9.36	2.58	-	5.91
Average	2.12	-	3.88	3.50	4.94	8.72	2.85	-	6.09
1886	1.85	-	3.89	2.70	4.13	7.12	2.25	-	5.23
1887	1.55	-	3.08	2.95	4.25	7.46	2.20	-	4.86
1888	2.23	-	4.38	2.98	4.10	7.81	2.55	-	5.61
1889	1.77	-	3.44	3.11	4.81	8.45	2.36	-	5.22
1890	2.15	2.85	3.56	3.00	4.50	8.13	2.52	3.50	5.01
Average	1.94	-	3.68	2.96	4.36	7.82	2.39	-	5.19
1891	2.86	3.85	4.94	3.39	5.01	8.45	3.08	4.30	6.06
1892	3.05	4.17	5.06	3.24	4.91	7.97	3.12	4.42	5.98
1893	2.26	3.32	4.07	3.42	5.21	8.43	2.70	4.03	5.39
1894	2.26	3.96	4.65	3.38	5.34	8.57	2.67	4.50	5.91
1895	3.09	4.78	5.46	2.95	4.51	7.26	3.04	4.68	6.00
Average	2.69	4.02	4.84	3.27	4.99	8.12	2.91	4.38	5.87
1896	2.51	3.92	4.45	3.36	5.79	9.22	2.85	4.62	5.85
1897	2.38	3.64	3.99	2.82	5.64	8.04	2.55	4.27	5.08
1898	2.64	3.75	4.06	2.82	5.57	7.70	2.71	4.28	4.97
1899	3.05	3.91	4.25	3.30	5.72	7.63	3.14	4.40	5.08
1900	3.74	4.79	5.32	2.85	5.15	7.16	3.44	4.87	5.72
Average	2.90	4.06	4.46	3.03	5.58	7.94	2.95	4.50	5.34
1901	3.16	4.21	4.74	3.53	5.40	7.60	3.27	4.54	5.40
1902	3.93	5.13	5.58	2.03	5.25	7.25	3.38	5.15	5.81
1903	3.47	4.63	5.07	3.44	5.01	6.94	3.46	4.72	5.47
1904	3.35	4.98	5.26	3.82	5.73	8.13	3.48	5.17	5.88
1905	3.53	5.02	5.14	3.89	5.43	8.29	3.63	5.14	5.78
Average	3.49	4.81	5.17	3.36	5.38	7.69	3.45	4.95	5.67
1906	3.38	4.76	4.72	3.43	5.28	7.81	3.39	4.87	5.27
1907	4.99	6.40	6.46	4.23	5.77	8.27	4.81	6.25	6.78
1908	3.50	5.44	5.42	3.89	5.84	8.14	3.60	5.54	5.97
1909	4.15	5.58	5.46	3.40	4.79	6.99	3.96	5.35	5.73
1910	4.00	5.53	5.32	3.55	4.65	7.11	3.89	5.30	5.62
Average	4.01	5.57	5.50	3.70	5.25	7.67	3.94	5.48	5.89
1911	3.53	5.02	4.82	4.02	4.90	7.73	3.65	4.97	5.35
1912	3.31	4.46	4.04	3.45	4.48	7.12	3.35	4.46	4.53
1913	3.79	4.90	4.53	3.52	4.10	6.75	3.73	4.70	4.89
1914	3.19	4.90	4.40	3.31	4.05	6.55	3.22	4.66	4.78
1915	3.02	4.47	3.80	3.32	4.33	6.58	3.09	4.44	4.27
Average	3.27	4.75	4.31	3.52	4.37	6.95	3.40	4.65	4.76
1916	2.98	3.88	3.33	3.47	4.11	6.34	3.09	3.93	3.77
1917	3.50	4.33	3.83	3.77	3.98	5.84	3.56	4.25	4.14
1918	3.30	3.97	3.50	3.75	3.83	5.58	3.38	3.94	3.80
1919	2.71	4.16	3.62	4.11	4.64	7.21	2.99	4.28	4.19
1920	2.78	3.79	3.13	3.38	3.74	5.48	2.90	3.78	3.45
Average	3.05	4.03	3.48	3.70	4.06	6.07	3.18	4.03	3.86
1921	2.18	4.38	3.48	3.43	3.80	6.05	2.42	4.20	3.94
1922	2.45	5.16	3.99	1.91	3.81	5.49	2.35	4.90	4.16
1923	2.77	4.65	3.46	3.23	3.62	5.45	2.85	4.39	3.74
1924	3.08	5.39	3.94	3.10	3.39	5.64	3.08	4.80	4.20
1925	3.12	4.79	3.53	2.50	4.12	6.47	2.98	4.65	3.84
Average	2.70	4.87	3.67	2.83	3.71	5.80	2.73	4.58	3.96

See footnote at end of table.

TABLE 52. - Coal mine fatality rates for the United States, 1870-1974 ^{1/} - Continued
(Includes underground and surface injuries)

Year	Bituminous coal mines			Anthracite mines			Total		
	Per thousand employed	Per thousand 300-day workers	Per million tons mined	Per thousand employed	Per thousand 300-day workers	Per million tons mined	Per thousand employed	Per thousand 300-day workers	Per million tons mined
1926-----	3.48	4.86	3.60	2.74	3.37	5.36	3.32	4.50	3.83
1927-----	2.93	4.60	3.36	2.96	3.94	6.11	2.94	4.43	3.73
1928-----	3.31	4.90	3.45	2.78	3.85	5.93	3.19	4.64	3.78
1929-----	3.39	4.63	3.19	3.18	4.24	6.53	3.34	4.54	3.59
1930-----	3.28	5.26	3.46	2.94	4.22	6.40	3.20	5.00	3.84
Average-----	3.27	4.84	3.42	2.92	3.90	6.04	3.19	4.61	3.75
1931-----	2.40	4.42	2.83	2.75	4.43	6.42	2.48	4.42	3.31
1932-----	2.36	4.85	3.09	2.05	3.83	4.99	2.29	4.60	3.36
1933-----	1.99	3.58	2.50	2.21	3.58	4.66	2.03	3.58	2.78
1934-----	2.09	3.52	2.67	2.47	3.61	4.69	2.16	3.54	2.94
1935-----	2.09	3.53	2.60	2.66	4.26	5.24	2.20	3.67	2.92
Average-----	2.18	3.93	2.73	2.44	3.96	5.23	2.24	3.93	3.06
1936-----	2.28	3.46	2.52	2.39	3.73	4.46	2.30	3.50	2.73
1937-----	2.44	3.74	2.68	2.17	3.44	4.15	2.40	3.69	2.83
1938-----	1.98	3.68	2.52	2.34	4.08	4.88	2.04	3.76	2.79
1939-----	1.95	3.29	2.19	2.24	3.61	4.11	2.00	3.35	2.41
1940-----	2.73	4.07	2.61	1.99	3.16	3.57	2.60	3.92	2.71
Average-----	2.28	3.65	2.51	2.23	3.60	4.23	2.27	3.64	2.70
1941-----	2.34	3.28	2.08	2.18	3.16	3.58	2.32	3.26	2.22
1942-----	2.77	3.41	2.14	2.75	3.45	3.88	2.77	3.42	2.30
1943-----	3.01	3.44	2.06	2.85	3.17	3.80	2.98	3.39	2.22
1944-----	2.99	3.22	1.81	2.24	2.29	2.74	2.86	3.05	1.90
1945-----	2.53	2.96	1.60	1.96	2.19	2.60	2.44	2.82	1.69
Average-----	2.72	3.27	1.94	2.41	2.84	3.32	2.67	3.20	2.06
1946-----	2.06	2.88	1.49	2.22	2.47	2.86	2.09	2.80	1.63
1947-----	2.39	3.02	1.57	2.20	2.57	3.02	2.36	2.96	1.69
1948-----	2.01	2.73	1.45	1.76	2.00	2.40	1.97	2.60	1.54
1949-----	1.21	2.19	1.13	1.20	1.83	2.11	1.21	1.13	1.22
1950-----	1.35	2.19	1.06	1.25	1.77	2.09	1.33	2.11	1.14
Average-----	1.80	2.65	1.36	1.73	2.16	2.54	1.79	2.56	1.47
1951-----	1.84	2.74	1.28	1.45	2.09	2.41	1.78	2.64	1.37
1952-----	1.33	2.14	.96	1.58	2.29	2.44	1.37	2.16	1.07
1953-----	1.34	2.12	.87	1.15	2.04	2.10	1.31	2.11	.95
1954-----	1.38	2.34	.85	1.48	2.72	2.14	1.40	2.40	.94
1955-----	1.60	2.28	.78	1.74	2.86	2.07	1.61	2.35	.85
Average-----	1.51	2.35	.96	1.46	2.32	2.26	1.50	2.34	1.05
1956-----	1.72	2.43	.79	1.72	2.44	1.74	1.72	2.43	.85
1957-----	1.91	2.78	.87	1.65	2.53	2.00	1.88	2.75	.93
1958-----	1.64	2.70	.79	1.21	1.97	1.51	1.59	2.61	.83
1959-----	1.36	2.19	.60	2.02	3.49	2.29	1.44	2.33	.68
1960-----	1.70	2.68	.70	1.84	3.12	1.85	1.71	2.73	.75
Average-----	1.68	2.56	.76	1.67	2.63	1.87	1.68	2.57	.81
1961-----	1.81	2.80	.68	1.20	1.84	1.09	1.75	2.71	.70
1962-----	1.79	2.73	.62	1.86	2.73	1.52	1.79	2.73	.66
1963-----	1.75	2.58	.55	2.37	3.30	1.74	1.81	2.65	.59
1964-----	1.58	2.24	.45	1.83	2.56	1.37	1.61	2.27	.48
1965-----	1.82	2.58	.49	.72	1.06	.54	1.74	2.47	.49
Average-----	1.75	2.59	.55	1.61	2.34	1.28	1.74	2.57	.58
1966-----	1.67	2.35	.43	.65	.96	.46	1.60	2.27	.43
1967-----	1.62	2.21	.39	1.16	1.59	.73	1.59	2.18	.40
1968-----	2.41	3.27	.57	.58	.80	.35	2.31	3.15	.56
1969-----	1.49	1.99	.34	2.19	2.83	1.27	1.52	2.03	.36
1970-----	1.84	2.43	.43	.84	1.08	.51	1.80	2.38	.43
Average-----	1.80	2.45	.43	1.03	1.41	.65	1.76	2.40	.43
1971-----	1.28	1.71	.32	.99	1.19	.57	1.27	1.69	.32
1972-----	.97	NA	.29	.61	NA	.46	.96	NA	.29
1973-----	.91	NA	.24	.30	NA	.15	.90	NA	.24
1974-----	.75	NA	.23	.59	NA	.41	.75	NA	.24

NA Not available.

^{1/} Before 1910 certain States did not maintain records of injuries. The above rates are based exclusively on tonnage and men employed in States for which injury records are available.

TABLE 53. - Bituminous coal mines: Fatalities, by principal cause of injury, 1906-74 ^{1/}

Year	Underground workings									Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	All other underground	Total underground	Shaft and slope	Total		
1906-----	826	192	219	115	52	27	1,431	73	1,504	77	1,581
1907-----	911	260	911	134	49	99	2,364	59	2,423	111	2,534
1908-----	829	229	320	109	53	97	1,637	53	1,690	77	1,767
1909-----	975	240	264	122	52	312	1,965	37	2,002	73	2,075
1910-----	1,061	295	477	113	76	46	2,068	60	2,128	92	2,220
Average-----	921	243	438	119	56	116	1,893	56	1,949	86	2,035
1911-----	1,007	294	331	72	92	44	1,840	31	1,871	86	1,957
1912-----	943	296	255	70	75	44	1,683	39	1,722	96	1,818
1913-----	1,007	344	464	63	79	82	2,039	32	2,071	96	2,167
1914-----	903	309	305	56	86	55	1,714	41	1,755	104	1,859
1915-----	818	269	270	76	85	35	1,553	30	1,583	100	1,683
Average-----	936	303	325	67	83	52	1,766	35	1,801	96	1,897
1916-----	850	330	183	60	81	49	1,553	34	1,587	84	1,671
1917-----	965	433	319	55	76	60	1,908	44	1,952	162	2,114
1918-----	1,052	446	103	85	77	76	1,839	41	1,880	149	2,029
1919-----	878	310	149	57	64	79	1,537	39	1,576	112	1,688
1920-----	937	342	124	82	70	72	1,627	34	1,661	120	1,781
Average-----	936	372	176	68	74	67	1,693	38	1,731	126	1,857
1921-----	782	275	62	74	76	71	1,340	25	1,365	83	1,448
1922-----	780	286	298	55	71	56	1,546	36	1,582	102	1,684
1923-----	948	347	330	66	70	64	1,825	31	1,856	97	1,953
1924-----	846	299	486	46	72	56	1,805	17	1,822	84	1,906
1925-----	910	310	302	49	80	76	1,727	30	1,757	77	1,834
Average-----	853	303	296	58	74	65	1,649	27	1,676	89	1,765
1926-----	994	384	373	46	94	62	1,953	27	1,980	85	2,065
1927-----	924	309	187	48	94	70	1,632	22	1,654	88	1,742
1928-----	825	313	347	41	82	54	1,662	13	1,675	54	1,729
1929-----	922	349	168	45	75	56	1,615	17	1,632	73	1,705
1930-----	856	285	234	31	63	68	1,537	9	1,546	73	1,619
Average-----	904	328	262	42	82	62	1,680	17	1,697	75	1,772
1931-----	624	194	68	15	62	44	1,007	19	1,026	54	1,080
1932-----	466	146	162	21	42	45	882	13	895	63	958
1933-----	458	162	27	24	46	45	762	10	772	61	833
1934-----	539	168	40	21	53	64	885	9	894	64	958
1935-----	524	198	26	31	43	70	892	13	905	63	968
Average-----	522	174	65	22	49	54	886	12	898	61	959
1936-----	624	202	41	31	44	81	1,023	11	1,034	64	1,098
1937-----	606	244	116	31	52	64	1,113	15	1,128	70	1,198
1938-----	474	142	84	23	38	53	814	9	823	57	880
1939-----	500	155	43	15	49	56	818	5	823	44	867
1940-----	520	192	292	28	30	62	1,124	12	1,136	68	1,204
Average-----	545	187	115	26	42	63	978	11	989	60	1,049

NOTE: Beginning with 1941, the cause classification in this historical series is changed as follows: (1) Fatalities in shafts and slopes have been included in "Underground workings" and are distributed according to the specified causes; prior to 1941 these deaths were grouped and shown as "Shaft and slope." (2) Fatalities from underground machinery accidents are grouped and shown separately; prior to 1941 such deaths were included in "All other underground." (3) Fatalities from roof or face falls caused by haulage equipment or machinery knocking out roof-support have been included in the respective haulage or machinery classifications; prior to 1941 such deaths were included in "Falls of roof and face." (4) Fatalities from pressure bumps and bursts and from inrush of water or material are included in "All other underground;" prior to 1941 such deaths were included in "Falls of roof and face."

Year	Underground workings								Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1941-----	552	206	89	24	42	39	42	994	78	1,072
1942-----	579	253	148	16	51	49	47	1,143	102	1,245
1943-----	561	253	166	27	33	31	59	1,130	95	1,225
1944-----	551	239	32	21	27	49	96	1,015	109	1,124
1945-----	429	216	72	23	20	40	31	831	94	925
Average-----	534	233	102	22	35	42	55	1,023	95	1,118

See footnotes at end of table.

TABLE 53. - Bituminous coal mines: Fatalities, by principal cause of injury, 1906-74 ^{1/} - Continued

Year	Underground workings								Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1946-----	420	172	27	12	17	34	29	711	84	795
1947-----	434	213	154	23	20	23	27	894	91	985
1948-----	430	182	44	22	19	22	42	761	101	862
1949-----	259	108	3	14	10	21	10	425	69	494
1950-----	296	121	3	10	11	19	9	469	81	550
Average-----	368	159	46	16	15	24	24	652	85	737
1951-----	284	112	153	7	18	27	17	618	66	684
1952-----	228	109	11	5	10	15	11	389	60	449
1953-----	221	81	9	4	12	14	8	349	48	397
1954-----	168	69	17	5	11	16	5	291	43	334
1955-----	186	69	2	10	15	16	5	303	57	360
Average-----	217	88	39	6	13	18	9	390	55	445
1956-----	208	73	5	8	14	18	16	342	50	392
1957-----	198	56	63	7	11	18	22	375	52	427
1958-----	157	46	41	7	14	12	12	289	^{3/} 37	326
1959-----	135	37	10	4	7	13	4	210	36	246
1960-----	145	38	3	3	18	14	25	246	44	290
Average-----	169	50	24	6	13	15	16	293	43	336
1961-----	135	41	26	4	12	12	12	242	33	275
1962-----	105	43	52	4	6	16	-	226	37	263
1963-----	123	37	31	2	5	14	6	218	34	252
1964-----	114	42	3	1	5	17	6	188	30	218
1965-----	126	34	19	1	4	14	17	215	36	251
Average-----	121	40	26	2	6	15	8	218	34	252
1966-----	110	40	10	3	2	12	12	189	38	227
1967-----	94	29	12	2	10	14	5	166	47	213
1968-----	98	31	88	2	17	15	16	267	40	307
1969-----	77	32	-	1	7	18	7	142	48	190
1970-----	84	37	41	2	11	26	4	205	50	255
Average-----	93	34	30	2	9	17	9	194	45	239
1971-----	60	35	2	2	13	21	7	140	36	176
1972-----	49	37	5	2	2	14	12	121	32	153
1973-----	44	30	2	1	5	15	1	98	33	131
1974-----	47	15	-	-	4	17	6	89	42	131

^{1/} Figures for 1906-09 cover only those States that maintained complete records of fatal injuries. These represented 98 to 99 percent of the total production of coal in the United States. Figures for 1910 to date represent the entire bituminous coal industry.

^{2/} Includes fatalities that occurred at all other work locations, including the associated surface works of underground mines, strip mines, and mechanical-cleaning plants; beginning with 1955, includes fatalities in auger mines.

^{3/} Includes one surface fatality resulting from a fall of roof underground in Kentucky, 1958.

TABLE 54. - Pennsylvania anthracite mines: Fatalities, by principal cause of injury, 1906-74

Year	Underground workings									Surface 1/	Grand total
	Falls of roof and face	Haulage	Gas or dust ex- plosions	Explo- sives	Elec- tricity	All other under- ground	Total under- ground	Shaft and slope	Total		
1906-----	214	67	46	82	1	27	437	19	456	101	557
1907-----	294	88	45	87	3	57	574	27	601	107	708
1908-----	299	90	55	94	1	33	572	24	596	82	678
1909-----	254	71	31	69	6	49	480	10	490	77	567
1910-----	253	93	20	82	3	38	489	20	509	92	601
Average-----	262	82	39	83	3	41	510	20	530	92	622
1911-----	252	92	34	88	2	126	594	21	615	84	699
1912-----	243	79	35	77	5	37	476	22	498	103	601
1913-----	257	85	50	75	1	55	523	30	553	65	618
1914-----	228	76	44	90	3	45	486	47	533	62	595
1915-----	261	80	34	79	4	58	516	10	526	60	586
Average-----	248	83	39	82	3	64	519	26	545	75	620
1916-----	215	64	43	86	9	57	474	15	489	66	555
1917-----	265	64	41	55	3	39	467	16	483	99	582
1918-----	242	66	26	50	11	47	442	11	453	98	551
1919-----	229	73	42	149	4	49	546	13	559	76	635
1920-----	197	66	36	49	6	40	394	22	416	75	491
Average-----	229	67	38	78	7	46	465	15	480	83	563
1921-----	243	70	64	68	4	50	499	11	510	37	547
1922-----	128	58	13	38	3	19	259	5	264	36	300
1923-----	219	73	42	49	5	45	433	15	448	61	509
1924-----	216	58	50	53	8	45	430	12	442	54	496
1925-----	170	56	43	53	4	20	346	4	350	50	400
Average-----	195	63	42	52	5	36	393	10	403	47	450
1926-----	220	52	49	50	2	39	412	8	420	33	453
1927-----	225	52	60	62	6	43	448	7	455	34	489
1928-----	243	52	29	33	6	42	405	12	417	30	447
1929-----	260	65	27	43	6	31	432	12	444	38	482
1930-----	243	40	30	47	8	34	402	2	404	40	444
Average-----	238	52	39	47	6	38	420	8	428	35	463
1931-----	234	43	20	25	3	23	348	4	352	31	383
1932-----	161	33	7	15	5	12	233	2	235	14	249
1933-----	119	32	13	10	7	17	198	6	204	27	231
1934-----	150	29	12	15	3	25	234	4	238	30	268
1935-----	140	30	23	19	2	15	229	10	239	35	274
Average-----	161	33	15	17	4	18	248	5	253	28	281
1936-----	120	26	16	20	8	26	216	6	222	22	244
1937-----	120	31	-	14	4	16	185	5	190	25	215
1938-----	128	23	20	11	2	17	201	3	204	21	225
1939-----	121	27	3	17	2	15	185	6	191	20	211
1940-----	105	36	5	8	7	8	169	3	172	12	184
Average-----	118	29	9	14	5	16	191	5	196	20	216

NOTE: Beginning with 1941, the cause classification in this historical series is changed as follows: (1) Fatalities in shafts and slopes have been included in "Underground workings" and are distributed according to the specified causes; prior to 1941 these deaths were grouped and shown as "Shaft and slope." (2) Fatalities from underground machinery accidents are grouped and shown separately; prior to 1941 such deaths were included in "All other underground." (3) Fatalities from roof or face falls caused by haulage equipment or machinery knocking out roof-support have been included in the respective haulage or machinery classifications; prior to 1941 such deaths were included in "Falls of roof and face." (4) Fatalities from pressure bumps and bursts and from inrush of water or material are included in "All other underground;" prior to 1941 such deaths were included in "Falls of roof and face."

Year	Underground workings								Surface 1/	Grand total
	Falls of roof and face	Haulage	Gas or dust ex- plosions	Explo- sives	Elec- tricity	Machinery	All other under- ground	Total		
1941-----	91	27	8	12	5	-	29	172	22	194
1942-----	123	38	9	13	6	1	20	210	16	226
1943-----	104	36	15	9	2	3	28	197	29	226
1944-----	68	24	4	16	3	-	36	151	23	174
1945-----	62	25	4	11	1	1	25	129	14	143
Average-----	90	30	8	12	3	1	28	172	21	193

See footnote at end of table.

TABLE 54. - Pennsylvania anthracite mines: Fatalities, by principal cause of injury, 1906-74 - Continued

Year	Underground workings								Surface 1/	Grand total
	Falls of roof and face	Haulage	Gas or dust ex- plosions	Explo- sives	Elec- tricity	Machinery	All other under- ground	Total		
1946-----	93	23	2	8	3	1	22	152	21	173
1947-----	76	17	35	7	4	-	14	153	20	173
1948-----	78	14	2	7	1	1	16	119	18	137
1949-----	52	14	5	3	-	-	9	83	8	91
1950-----	52	7	5	5	1	-	8	78	15	93
Average-----	70	15	10	6	2	(2/)	14	117	16	133
1951-----	43	17	9	5	1	1	13	89	12	101
1952-----	36	19	4	4	-	2	20	85	14	99
1953-----	42	2	5	1	2	-	8	60	4	64
1954-----	36	8	1	-	1	-	5	51	11	62
1955-----	31	8	2	2	-	-	6	49	11	60
Average-----	38	11	4	2	1	1	10	67	10	77
1956-----	31	6	4	1	2	-	4	48	8	56
1957-----	30	5	3	4	1	-	6	49	2	51
1958-----	19	-	1	1	-	1	4	26	6	32
1959-----	18	8	-	2	-	-	13	41	6	47
1960-----	18	4	-	1	-	-	5	28	7	35
Average-----	23	5	1	2	1	(2/)	6	38	6	44
1961-----	9	3	-	1	-	1	-	14	5	19
1962-----	8	2	-	-	-	-	8	18	8	26
1963-----	13	2	5	3	-	-	4	27	5	32
1964-----	9	5	3	3	-	-	2	22	2	24
1965-----	5	1	-	-	-	-	2	8	-	8
Average-----	9	3	2	1	-	(2/)	3	18	4	22
1966-----	5	-	-	-	-	-	-	5	1	6
1967-----	7	-	-	-	-	1	-	8	1	9
1968-----	1	-	-	-	-	-	-	1	3	4
1969-----	1	1	1	-	-	-	4	7	6	13
1970-----	-	-	-	1	-	-	-	1	4	5
Average-----	3	(2/)	(2/)	(2/)	-	(2/)	1	4	3	7
1971-----	1	-	-	-	-	-	-	1	4	5
1972-----	1	-	-	-	-	-	-	1	2	3
1973-----	1	-	-	-	-	-	-	1	-	1
1974-----	-	-	-	1	-	-	-	1	1	2

1/ Includes strip mines, culm banks, dredges, and mechanical-cleaning plants.

2/ Less than 0.5.

TABLE 55. - All coal mines: Fatalities, by principal cause of injury, 1906-74 ^{1/}

Year	Underground workings									Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	All other underground	Total underground	Shaft and slope	Total		
1906-----	1,040	259	265	197	53	54	1,868	92	1,960	178	2,138
1907-----	1,205	348	956	221	52	156	2,938	86	3,024	218	3,242
1908-----	1,128	319	375	203	54	130	2,209	77	2,286	159	2,445
1909-----	1,229	311	295	191	58	361	2,445	47	2,492	150	2,642
1910-----	1,314	388	497	195	79	84	2,357	80	2,637	184	2,821
Average-----	1,183	325	477	202	59	157	2,403	76	2,479	178	2,657
1911-----	1,259	386	365	160	94	170	2,434	52	2,486	170	2,656
1912-----	1,186	375	290	147	80	81	2,159	61	2,220	199	2,419
1913-----	1,264	429	514	138	80	137	2,562	62	2,624	161	2,785
1914-----	1,131	385	349	146	89	100	2,200	88	2,288	166	2,454
1915-----	1,079	349	304	155	89	93	2,069	40	2,109	160	2,269
Average-----	1,184	386	364	149	86	116	2,285	61	2,346	171	2,517
1916-----	1,065	394	226	146	90	106	2,027	49	2,076	150	2,226
1917-----	1,230	497	360	110	79	99	2,375	60	2,435	261	2,696
1918-----	1,294	512	129	135	88	123	2,281	52	2,333	247	2,580
1919-----	1,107	383	191	206	68	128	2,083	52	2,135	188	2,323
1920-----	1,134	408	160	131	76	112	2,021	56	2,077	195	2,272
Average-----	1,165	439	214	146	81	113	2,158	53	2,211	209	2,420
1921-----	1,025	345	126	142	80	121	1,839	36	1,875	120	1,995
1922-----	908	344	311	93	74	75	1,805	41	1,846	138	1,984
1923-----	1,167	420	372	115	75	109	2,258	46	2,304	158	2,462
1924-----	1,062	357	536	99	80	101	2,235	29	2,264	138	2,402
1925-----	1,080	366	345	102	84	96	2,073	34	2,107	127	2,234
Average-----	1,048	366	338	110	79	101	2,042	37	2,079	136	2,215
1926-----	1,214	436	422	96	96	101	2,365	35	2,400	118	2,518
1927-----	1,149	361	247	110	100	113	2,080	29	2,109	122	2,231
1928-----	1,068	365	376	74	88	96	2,067	25	2,092	84	2,176
1929-----	1,182	414	195	88	81	87	2,047	29	2,076	111	2,187
1930-----	1,099	325	264	78	71	102	1,939	11	1,950	113	2,063
Average-----	1,142	380	301	89	88	100	2,100	25	2,125	110	2,235
1931-----	858	237	88	40	65	67	1,355	23	1,378	85	1,463
1932-----	627	179	169	36	47	57	1,115	15	1,130	77	1,207
1933-----	577	194	40	34	53	62	960	16	976	88	1,064
1934-----	689	197	52	36	56	89	1,119	13	1,132	94	1,226
1935-----	666	228	49	50	45	85	1,121	23	1,144	98	1,242
Average-----	683	207	80	39	53	72	1,134	17	1,151	89	1,240
1936-----	744	228	57	51	52	107	1,239	17	1,256	86	1,342
1937-----	726	275	116	45	56	80	1,298	20	1,318	95	1,413
1938-----	602	165	104	34	40	70	1,015	12	1,027	78	1,105
1939-----	621	182	46	32	51	71	1,003	11	1,014	64	1,078
1940-----	625	228	297	36	37	70	1,293	15	1,308	80	1,388
Average-----	663	216	124	40	47	79	1,169	16	1,185	80	1,265

NOTE: Beginning with 1941, the cause classification in this historical series is changed as follows: (1) Fatalities in shafts and slopes have been included in "Underground workings" and are distributed according to the specified causes; prior to 1941 these deaths were grouped and shown as "Shaft and slope." (2) Fatalities from underground machinery accidents are grouped and shown separately; prior to 1941 such deaths were included in "All other underground." (3) Fatalities from roof or face falls caused by haulage equipment or machinery knocking out roof-support have been included in the respective haulage or machinery classifications; prior to 1941 such deaths were included in "Falls of roof and face." (4) Fatalities from pressure bumps and bursts and from inrush of water or material are included in "All other underground;" prior to 1941 such deaths were included in "Falls of roof and face."

Year	Underground workings								Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1941-----	643	233	97	36	47	39	71	1,166	100	1,266
1942-----	702	291	157	29	57	50	67	1,353	118	1,471
1943-----	665	289	181	36	35	34	87	1,327	124	1,451
1944-----	619	263	36	37	30	49	132	1,166	132	1,298
1945-----	491	241	76	34	21	41	56	960	108	1,068
Average-----	624	263	110	34	38	43	83	1,195	116	1,311

See footnotes at end of table.

TABLE 55. - All coal mines: Fatalities, by principal cause of injury, 1906-74 ^{1/} - Continued

Year	Underground workings								Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1946-----	513	195	29	20	20	35	51	863	105	968
1947-----	510	230	189	30	24	23	41	1,047	111	1,158
1948-----	508	196	46	29	20	23	58	880	119	999
1949-----	311	122	8	17	10	21	19	508	77	585
1950-----	348	128	8	15	12	19	17	547	96	643
Average-----	438	174	56	22	17	24	38	769	101	870
1951-----	327	129	162	12	19	28	30	707	78	785
1952-----	264	128	15	9	10	17	31	474	74	548
1953-----	263	83	14	5	14	14	16	409	52	461
1954-----	204	77	18	5	12	16	10	342	54	396
1955-----	217	77	4	12	15	16	11	352	68	420
Average-----	255	99	43	8	14	19	19	457	65	522
1956-----	239	79	9	9	16	18	20	390	58	448
1957-----	228	61	66	11	12	18	28	424	54	478
1958-----	176	46	42	8	14	13	16	315	^{3/} 43	358
1959-----	153	45	10	6	7	13	17	251	42	293
1960-----	163	42	3	4	18	14	30	274	51	325
Average-----	192	55	25	8	14	15	22	331	49	380
1961-----	144	44	26	5	12	13	12	256	38	294
1962-----	113	45	52	4	6	16	8	244	45	289
1963-----	136	39	36	5	5	14	10	245	39	284
1964-----	123	47	6	4	5	17	8	210	32	242
1965-----	131	35	19	1	4	14	19	223	36	259
Average-----	130	43	28	3	6	15	11	236	38	274
1966-----	115	40	10	3	2	12	12	194	39	233
1967-----	101	29	12	2	10	15	5	174	48	222
1968-----	99	31	88	2	17	15	16	268	43	311
1969-----	78	33	1	1	7	18	11	149	54	203
1970-----	84	37	41	3	11	26	4	206	54	260
Average-----	96	34	30	2	9	17	10	198	48	246
1971-----	61	35	2	2	13	21	7	141	40	181
1972-----	50	37	5	2	2	14	12	122	34	156
1973-----	45	30	2	1	5	15	1	99	33	132
1974-----	47	15	-	1	4	17	6	90	43	133

^{1/} Figures for 1906-09 cover only those States that maintained complete records of fatal injuries. These represented 98 to 99 percent of the total production of coal in the United States. Figures for 1910 to date represent the entire coal industry.

^{2/} Includes fatalities that occurred at all other work locations, including the associated surface works of underground mines, strip mines, culm banks, dredges, and mechanical-cleaning plants; beginning with 1955, includes fatalities in auger mines.

^{3/} Includes one surface fatality resulting from a fall of roof underground in a bituminous coal mine in Kentucky, 1958.

TABLE 56. - Bituminous coal mines: Percentage distribution of fatalities,
by principal cause of injury, 1906-74 ^{1/}

Year	Underground workings									Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	All other underground	Total underground	Shaft and slope	Total		
1906-----	52.2	12.1	13.9	7.3	3.3	1.7	90.5	4.6	95.1	4.9	100.0
1907-----	36.0	10.3	36.0	5.2	1.9	3.9	93.3	2.3	95.6	4.4	100.0
1908-----	46.9	13.0	18.1	6.1	3.0	5.5	92.6	3.0	95.6	4.4	100.0
1909-----	47.0	11.6	12.7	5.9	2.5	15.0	94.7	1.8	96.5	3.5	100.0
1910-----	47.8	13.3	21.5	5.1	3.4	2.1	93.2	2.7	95.9	4.1	100.0
Average-----	45.3	11.9	21.5	5.8	2.8	5.7	93.0	2.8	95.8	4.2	100.0
1911-----	51.5	15.0	16.9	3.7	4.7	2.2	94.0	1.6	95.6	4.4	100.0
1912-----	51.9	16.3	14.0	3.9	4.1	2.4	92.6	2.1	94.7	5.3	100.0
1913-----	46.5	15.9	21.4	2.9	3.6	3.8	94.1	1.5	95.6	4.4	100.0
1914-----	48.6	16.6	16.4	3.0	4.6	3.0	92.2	2.2	94.4	5.6	100.0
1915-----	48.6	16.0	16.0	4.5	5.1	2.1	92.3	1.8	94.1	5.9	100.0
Average-----	49.3	16.0	17.1	3.5	4.4	2.8	93.1	1.8	94.9	5.1	100.0
1916-----	50.9	19.7	11.0	3.6	4.8	2.9	92.9	2.1	95.0	5.0	100.0
1917-----	45.7	20.5	15.1	2.6	3.6	2.8	90.3	2.0	92.3	7.7	100.0
1918-----	51.8	22.0	5.1	4.2	3.8	3.7	90.6	2.1	92.7	7.3	100.0
1919-----	52.0	18.4	8.8	3.4	3.8	4.7	91.1	2.3	93.4	6.6	100.0
1920-----	52.6	19.2	7.0	4.6	3.9	4.1	91.4	1.9	93.3	6.7	100.0
Average-----	50.4	20.0	9.5	3.7	4.0	3.6	91.2	2.0	93.2	6.8	100.0
1921-----	54.0	19.0	4.3	5.1	5.2	4.9	92.5	1.8	94.3	5.7	100.0
1922-----	46.3	17.0	17.7	3.3	4.2	3.3	91.8	2.1	93.9	6.1	100.0
1923-----	48.5	17.8	16.9	3.3	3.6	3.3	93.4	1.6	95.0	5.0	100.0
1924-----	44.4	15.7	25.5	2.4	3.8	2.9	94.7	.9	95.6	4.4	100.0
1925-----	49.6	16.9	16.5	2.7	4.4	4.1	94.2	1.6	95.8	4.2	100.0
Average-----	48.3	17.1	16.8	3.3	4.2	3.7	93.4	1.6	95.0	5.0	100.0
1926-----	48.1	18.6	18.1	2.2	4.6	3.0	94.6	1.3	95.9	4.1	100.0
1927-----	53.1	17.7	10.7	2.8	5.4	4.0	93.7	1.2	94.9	5.1	100.0
1928-----	47.7	18.1	20.1	2.4	4.7	3.1	96.1	.8	96.9	3.1	100.0
1929-----	54.1	20.5	9.9	2.6	4.4	3.2	94.7	1.0	95.7	4.3	100.0
1930-----	52.9	17.6	14.4	1.9	3.9	4.2	94.9	.6	95.5	4.5	100.0
Average-----	51.0	18.5	14.8	2.4	4.6	3.5	94.8	1.0	95.8	4.2	100.0
1931-----	57.8	18.0	6.3	1.4	5.7	4.0	93.2	1.8	95.0	5.0	100.0
1932-----	48.7	15.2	16.9	2.2	4.4	4.7	92.1	1.3	93.4	6.6	100.0
1933-----	55.0	19.4	3.3	2.9	5.5	5.4	91.5	1.2	92.7	7.3	100.0
1934-----	56.3	17.5	4.2	2.2	5.5	6.7	92.4	.9	93.3	6.7	100.0
1935-----	54.1	20.5	2.7	3.2	4.4	7.2	92.1	1.4	93.5	6.5	100.0
Average-----	54.4	18.2	6.8	2.3	5.1	5.6	92.4	1.2	93.6	6.4	100.0
1936-----	56.8	18.4	3.8	2.8	4.0	7.4	93.2	1.0	94.2	5.8	100.0
1937-----	50.6	20.4	9.7	2.6	4.3	5.3	92.9	1.3	94.2	5.8	100.0
1938-----	53.9	16.1	9.6	2.6	4.3	6.0	92.5	1.0	93.5	6.5	100.0
1939-----	57.7	17.9	4.9	1.7	5.7	6.4	94.3	.6	94.9	5.1	100.0
1940-----	43.2	15.9	24.3	2.3	2.5	5.2	93.4	1.0	94.4	5.6	100.0
Average-----	51.9	17.8	11.0	2.5	4.0	6.0	93.2	1.1	94.3	5.7	100.0

NOTE: Beginning with 1941, the cause classification in this historical series is changed as follows: (1) Fatalities in shafts and slopes have been included in "Underground workings" and are distributed according to the specified causes; prior to 1941 these deaths were grouped and shown as "Shaft and slope." (2) Fatalities from underground machinery accidents are grouped and shown separately; prior to 1941 such deaths were included in "All other underground." (3) Fatalities from roof or face falls caused by haulage equipment or machinery knocking out roof-support have been included in the respective haulage or machinery classifications; prior to 1941 such deaths were included in "Falls of roof and face." (4) Fatalities from pressure bumps and bursts and from inrush of water or material are included in "All other underground;" prior to 1941 such deaths were included in "Falls of roof and face."

Year	Underground workings								Surface ^{2/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1941-----	51.5	19.2	8.3	2.2	3.9	3.7	3.9	92.7	7.3	100.0
1942-----	46.5	20.3	11.9	1.3	4.1	3.9	3.8	91.8	8.2	100.0
1943-----	45.8	20.6	13.6	2.2	2.7	2.5	4.8	92.2	7.8	100.0
1944-----	49.0	21.3	2.8	1.9	2.4	4.4	8.5	90.3	9.7	100.0
1945-----	46.4	23.3	7.8	2.5	2.2	4.3	3.3	89.8	10.2	100.0
Average-----	47.8	20.8	9.1	2.0	3.1	3.8	4.9	91.5	8.5	100.0

See footnotes at end of table.

TABLE 56. - Bituminous coal mines: Percentage distribution of fatalities,
by principal cause of injury, 1906-74 ^{1/} - Continued

Year	Underground workings								Surface ^{1/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1946-----	52.8	21.6	3.4	1.5	2.1	4.3	3.7	89.4	10.6	100.0
1947-----	44.1	21.6	15.6	2.3	2.0	2.4	2.8	90.8	9.2	100.0
1948-----	49.9	21.1	5.1	2.6	2.2	2.5	4.9	88.3	11.7	100.0
1949-----	52.4	21.9	.6	2.8	2.0	4.3	2.0	86.0	14.0	100.0
1950-----	53.8	22.0	.6	1.8	2.0	3.5	1.6	85.3	14.7	100.0
Average-----	49.9	21.6	6.2	2.2	2.0	3.3	3.3	88.5	11.5	100.0
1951-----	41.5	16.4	22.4	1.0	2.6	4.0	2.5	90.4	9.6	100.0
1952-----	50.8	24.2	2.5	1.1	2.2	3.3	2.5	86.6	13.4	100.0
1953-----	55.7	20.4	2.3	1.0	3.0	3.5	2.0	87.9	12.1	100.0
1954-----	50.3	20.6	5.1	1.5	3.3	4.8	1.5	87.1	12.9	100.0
1955-----	51.6	19.2	.6	2.8	4.2	4.4	1.4	84.2	15.8	100.0
Average-----	48.8	19.8	8.8	1.4	2.9	4.0	2.0	87.7	12.3	100.0
1956-----	53.0	18.6	1.3	2.0	3.6	4.6	4.1	87.2	12.8	100.0
1957-----	46.4	13.1	14.8	1.6	2.6	4.2	5.1	87.8	12.2	100.0
1958-----	48.1	14.1	12.6	2.1	4.3	3.7	3.7	88.6	11.4	100.0
1959-----	54.9	15.0	4.1	1.6	2.9	5.3	1.6	85.4	14.6	100.0
1960-----	50.0	13.1	1.0	1.0	6.2	4.9	8.6	84.8	15.2	100.0
Average-----	50.3	14.9	7.1	1.8	3.9	4.5	4.7	87.2	12.8	100.0
1961-----	49.0	14.9	9.5	1.4	4.4	4.4	4.4	88.0	12.0	100.0
1962-----	39.9	16.3	19.8	1.5	2.3	6.1	-	85.9	14.1	100.0
1963-----	48.8	14.7	12.3	.8	2.0	5.5	2.4	86.5	13.5	100.0
1964-----	52.2	19.3	1.4	.5	2.3	7.8	2.7	86.2	13.8	100.0
1965-----	50.2	13.5	7.6	.4	1.6	5.6	6.8	85.7	14.3	100.0
Average-----	48.0	15.9	10.3	.8	2.4	5.9	3.2	86.5	13.5	100.0
1966-----	48.5	17.6	4.4	1.3	.9	5.3	5.3	83.3	16.7	100.0
1967-----	44.1	13.6	5.6	.9	4.7	6.6	2.4	77.9	22.1	100.0
1968-----	31.9	10.1	28.7	.7	5.5	4.9	5.2	87.0	13.0	100.0
1969-----	40.5	16.8	-	.5	3.7	9.2	3.7	74.7	25.3	100.0
1970-----	32.9	14.5	16.1	.8	4.3	10.2	1.6	80.4	19.6	100.0
Average-----	38.9	14.2	12.6	.8	3.8	7.1	3.8	81.2	18.8	100.0
1971-----	34.1	19.9	1.1	1.1	7.4	11.9	4.0	79.5	20.5	100.0
1972-----	32.0	24.2	3.3	1.3	1.3	9.2	7.8	79.1	20.9	100.0
1973-----	33.5	22.9	1.5	.8	3.8	11.5	.8	74.8	25.2	100.0
1974-----	35.8	11.5	-	-	3.1	12.9	4.6	67.9	32.1	100.0

^{1/} Figures for 1906-09 cover only those States that maintained complete records of fatal injuries. These represented 98 to 99 percent of the total production of coal in the United States. Figures for 1910 to date represent the entire bituminous coal industry.

^{2/} Includes fatalities that occurred at all other work locations, including the associated surface works of underground mines, strip mines, and mechanical-cleaning plants; beginning with 1955, includes fatalities in auger mines.

TABLE 57. - Pennsylvania anthracite mines: Percentage distribution of fatalities, by principal cause of injury, 1906-74

Year	Underground workings									Surface ^{1/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	All other underground	Total underground	Shaft and slope	Total		
1906-----	38.4	12.0	8.3	14.7	0.2	4.9	78.5	3.4	81.9	18.1	100.0
1907-----	41.5	12.4	6.4	12.3	.4	8.1	81.1	3.8	84.9	15.1	100.0
1908-----	44.1	13.3	8.1	13.9	.1	4.9	84.4	3.5	87.9	12.1	100.0
1909-----	44.8	12.5	5.5	12.2	1.1	8.6	84.7	1.7	86.4	13.6	100.0
1910-----	42.1	15.5	3.3	13.7	.5	6.3	81.4	3.3	84.7	15.3	100.0
Average-----	42.1	13.2	6.3	13.3	.5	6.6	82.0	3.2	85.2	14.8	100.0
1911-----	36.1	13.2	4.9	12.6	.2	18.0	85.0	3.0	88.0	12.0	100.0
1912-----	40.4	13.2	5.8	12.8	.8	6.2	79.2	3.7	82.9	17.1	100.0
1913-----	41.6	13.8	8.1	12.1	.1	8.9	84.6	4.9	89.5	10.5	100.0
1914-----	38.3	12.8	7.4	15.1	.5	7.6	81.7	7.9	89.6	10.4	100.0
1915-----	44.5	13.7	5.8	13.5	.7	9.9	88.1	1.7	89.8	10.2	100.0
Average-----	40.0	13.4	6.3	13.2	.5	10.3	83.7	4.2	87.9	12.1	100.0
1916-----	38.7	11.5	7.8	15.5	1.6	10.3	85.4	2.7	88.1	11.9	100.0
1917-----	45.5	11.0	7.0	9.5	.5	6.7	80.2	2.8	83.0	17.0	100.0
1918-----	43.9	12.0	4.7	9.1	2.0	8.5	80.2	2.0	82.2	17.8	100.0
1919-----	36.1	11.5	6.6	23.5	.6	7.7	86.0	2.0	88.0	12.0	100.0
1920-----	40.1	13.5	7.3	10.0	1.2	8.1	80.2	4.5	84.7	15.3	100.0
Average-----	40.7	11.9	6.7	14.0	1.1	8.2	82.6	2.7	85.3	14.7	100.0
1921-----	44.4	12.8	11.7	12.4	.7	9.2	91.2	2.0	93.2	6.8	100.0
1922-----	42.7	19.3	4.3	12.7	1.0	6.3	86.3	1.7	88.0	12.0	100.0
1923-----	43.0	14.3	3.3	9.6	2.0	8.9	85.1	2.9	88.0	12.0	100.0
1924-----	43.5	11.7	10.1	10.7	1.6	9.1	86.7	2.4	89.1	10.9	100.0
1925-----	42.5	14.0	10.8	13.2	1.0	5.0	86.5	1.0	87.5	12.5	100.0
Average-----	43.3	14.0	9.3	11.6	1.1	8.0	87.3	2.3	89.6	10.4	100.0
1926-----	48.6	11.5	10.8	11.0	.4	8.6	90.9	1.8	92.7	7.3	100.0
1927-----	46.0	10.6	12.3	12.7	1.2	8.8	91.6	1.4	93.0	7.0	100.0
1928-----	54.4	11.6	6.5	7.4	1.3	9.4	90.6	2.7	93.3	6.7	100.0
1929-----	53.9	13.5	5.6	8.9	1.2	6.5	89.6	2.5	92.1	7.9	100.0
1930-----	54.7	9.0	6.8	10.6	1.8	7.6	90.5	.5	91.0	9.0	100.0
Average-----	51.4	11.2	8.4	10.2	1.3	8.2	90.7	1.7	92.4	7.6	100.0
1931-----	61.1	11.2	5.2	6.6	.8	6.0	90.9	1.0	91.9	8.1	100.0
1932-----	64.7	13.3	2.8	6.0	2.0	4.8	93.6	.8	94.4	5.6	100.0
1933-----	51.5	13.9	5.6	4.3	3.9	7.4	85.7	2.6	88.3	11.7	100.0
1934-----	56.0	10.8	4.5	5.6	1.1	9.3	87.3	1.5	88.8	11.2	100.0
1935-----	51.1	11.0	3.4	6.9	.7	5.5	83.6	3.6	87.2	12.8	100.0
Average-----	57.3	11.8	5.3	6.1	1.4	6.4	88.3	1.7	90.0	10.0	100.0
1936-----	49.2	10.7	6.6	8.2	3.2	10.6	88.5	2.5	91.0	9.0	100.0
1937-----	55.8	14.4	-	6.5	1.9	7.4	86.0	2.4	88.4	11.6	100.0
1938-----	56.9	10.2	8.9	4.9	.9	7.5	89.3	1.4	90.7	9.3	100.0
1939-----	57.3	12.8	1.4	8.1	1.0	7.1	87.7	2.8	90.5	9.5	100.0
1940-----	57.1	19.6	2.7	4.3	3.8	4.3	91.8	1.7	93.5	6.5	100.0
Average-----	54.6	13.4	4.2	6.5	2.3	7.4	88.4	2.3	90.7	9.3	100.0

NOTE: Beginning with 1941, the cause classification in this historical series is changed as follows: (1) Fatalities in shafts and slopes have been included in "Underground workings" and are distributed according to the specified causes; prior to 1941 these deaths were grouped and shown as "Shaft and slope." (2) Fatalities from underground machinery accidents are grouped and shown separately; prior to 1941 such deaths were included in "All other underground." (3) Fatalities from roof or face falls caused by haulage equipment or machinery knocking out roof-support have been included in the respective haulage or machinery classifications; prior to 1941 such deaths were included in "Falls of roof and face." (4) Fatalities from pressure bumps and bursts and from inrush of water or material are included in "All other underground;" prior to 1941 such deaths were included in "Falls of roof and face."

Year	Underground workings								Surface ^{1/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1941-----	46.9	13.9	4.1	6.2	2.6	-	15.0	88.7	11.3	100.0
1942-----	54.4	16.8	4.0	5.8	2.7	0.4	8.8	92.9	7.1	100.0
1943-----	46.0	15.9	6.6	4.0	.9	1.4	12.4	87.2	12.8	100.0
1944-----	39.1	13.8	2.3	9.2	1.7	-	20.7	86.8	13.2	100.0
1945-----	43.3	17.5	2.8	7.7	.7	.7	17.5	90.2	9.8	100.0
Average-----	46.6	15.6	4.1	6.2	1.6	.5	14.5	89.1	10.9	100.0

See footnote at end of table.

TABLE 57. - Pennsylvania anthracite mines: Percentage distribution of fatalities, by principal cause of injury, 1906-74 - Continued

Year	Underground workings								Surface ^{1/}	Grand total
	Falls of roof and face	Haulage	Gas or dust explosions	Explosives	Electricity	Machinery	All other underground	Total		
1946-----	53.8	13.3	1.2	4.6	1.7	0.6	12.7	87.9	12.1	100.0
1947-----	43.9	9.8	20.2	4.1	2.3	-	8.1	88.4	11.6	100.0
1948-----	57.0	10.2	1.5	5.1	.7	.7	11.7	86.9	13.1	100.0
1949-----	57.1	15.4	5.5	3.3	-	-	9.9	91.2	8.8	100.0
1950-----	55.9	7.5	5.4	5.4	1.1	-	8.6	83.9	16.1	100.0
Average-----	52.7	11.3	7.5	4.5	1.5	(2/)	10.5	88.0	12.0	100.0
1951-----	42.6	16.8	8.9	5.0	1.0	1.0	12.8	88.1	11.9	100.0
1952-----	36.3	19.2	4.1	4.1	-	2.0	20.2	85.9	14.1	100.0
1953-----	65.7	3.1	7.8	1.6	3.1	-	12.5	93.8	6.2	100.0
1954-----	58.1	12.3	1.6	-	1.6	-	8.1	82.3	17.7	100.0
1955-----	51.7	13.4	3.3	3.3	-	-	10.0	81.7	18.3	100.0
Average-----	49.3	14.3	5.2	2.6	1.3	1.3	13.0	87.0	13.0	100.0
1956-----	55.4	10.7	7.1	1.8	3.6	-	7.1	85.7	14.3	100.0
1957-----	58.8	9.8	5.9	7.8	2.0	-	11.8	96.1	3.9	100.0
1958-----	59.4	-	3.1	3.1	-	3.1	12.5	81.2	18.8	100.0
1959-----	38.3	17.0	-	4.3	-	-	27.6	87.2	12.8	100.0
1960-----	51.4	11.5	-	2.8	-	-	14.3	90.0	20.0	100.0
Average-----	52.3	11.4	4.5	4.5	(2/)	(2/)	13.7	86.4	13.6	100.0
1961-----	47.3	15.8	-	5.3	-	5.3	-	73.7	26.3	100.0
1962-----	39.8	7.6	-	-	-	-	30.8	69.2	30.8	100.0
1963-----	49.6	6.3	15.6	9.4	-	-	12.5	84.4	15.6	100.0
1964-----	37.5	20.9	12.5	12.5	-	-	8.3	91.7	8.3	100.0
1965-----	62.5	12.5	-	-	-	-	25.0	100.0	-	100.0
Average-----	40.9	13.6	9.1	4.6	-	(2/)	13.6	81.8	18.2	100.0
1966-----	83.3	-	-	-	-	-	-	83.3	16.7	100.0
1967-----	77.3	-	-	-	-	11.1	-	88.9	11.1	100.0
1968-----	25.0	-	-	-	-	-	-	25.0	75.0	100.0
1969-----	7.7	7.7	-	-	-	-	30.7	53.8	46.2	100.0
1970-----	-	-	-	20.0	-	-	-	20.0	80.0	100.0
Average-----	42.8	(2/)	(2/)	(2/)	-	(2/)	14.4	57.2	42.8	100.0
1971-----	20.0	-	-	-	-	-	-	20.0	80.0	100.0
1972-----	33.3	-	-	-	-	-	-	33.3	66.7	100.0
1973-----	100.0	-	-	-	-	-	-	100.0	-	100.0
1974-----	-	-	-	50.0	-	-	-	50.0	50.0	100.0

^{1/} Includes strip mines, culm banks, dredges, and mechanical-cleaning plants.
^{2/} Less than 0.25.