

**Table A-8. Fatal occupational injuries by occupation and event or exposure, 1993**

Occupation <sup>1</sup>	Fatalities		Event or exposure <sup>2</sup> (percent)					
	Number	Percent	Transportation incidents	Assaults and violent acts	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Total .....	6,271	100	39.6	20.9	16.6	9.7	9.4	3.2
<b>Managerial and professional specialty</b> .....	681	100	42.3	31.9	7.3	7.9	8.5	1.5
Executive, administrative, and managerial .....	427	100	35.1	37.5	9.6	9.4	6.8	1.4
Administrators and officials, public administration .....	16	100	75.0	—	—	—	—	—
Managers, marketing, advertising, and public relations .....	11	100	81.8	—	—	—	—	—
Administrators, education and related fields .....	6	100	—	66.7	—	—	—	—
Managers, food serving and lodging establishments .....	84	100	13.1	77.4	—	—	4.8	—
Managers, properties and real estate .....	19	100	—	57.9	—	—	—	—
Managers, service organizations, n.e.c. ....	15	100	40.0	46.7	—	—	—	—
Managers and administrators, n.e.c. ....	213	100	36.6	26.3	14.1	14.1	6.6	2.3
Management related occupations .....	45	100	60.0	13.3	11.1	—	11.1	—
Accountants and auditors .....	12	100	58.3	41.7	—	—	—	—
Inspectors and compliance officers, except construction .....	6	100	100.0	—	—	—	—	—
Professional specialty .....	254	100	54.3	22.4	3.5	5.5	11.4	1.6
Engineers, architects, and surveyors .....	54	100	70.4	7.4	—	—	13.0	—
Engineers .....	46	100	71.7	—	—	—	10.9	—
Aerospace .....	7	100	85.7	—	—	—	—	—
Civil engineers .....	14	100	85.7	—	—	—	—	—
Electrical and electronic .....	8	100	50.0	—	—	—	—	—
Surveyors and mapping scientists .....	6	100	66.7	—	—	—	—	—
Mathematical and computer scientists .....	6	100	83.3	—	—	—	—	—
Natural scientists .....	14	100	—	28.6	—	—	—	—
Health diagnosing occupations .....	16	100	37.5	56.2	—	—	—	—
Physicians .....	9	100	—	66.7	—	—	—	—
Health assessment and treating occupations .....	32	100	65.6	18.8	—	—	—	—
Registered nurses .....	21	100	71.4	—	—	—	—	—
Teachers, postsecondary .....	7	100	71.4	—	—	—	—	—
Teachers, except postsecondary .....	29	100	48.3	20.7	—	17.2	13.8	—
Teachers, elementary school .....	6	100	66.7	—	—	—	—	—
Social, recreation, and religious workers .....	32	100	50.0	15.6	—	—	18.8	—
Social workers .....	11	100	54.5	—	—	—	—	—
Clergy .....	12	100	50.0	—	—	—	—	—
Lawyers and judges .....	11	100	—	72.7	—	—	—	—
Lawyers .....	11	100	—	72.7	—	—	—	—
Writers, artists, entertainers, and athletes .....	48	100	56.2	18.8	—	—	16.7	—
Actors and directors .....	5	100	80.0	—	—	—	—	—
Photographers .....	6	100	100.0	—	—	—	—	—
Artists, performers, and related workers .....	7	100	85.7	—	—	—	—	—
Athletes .....	15	100	26.7	—	—	—	40.0	—
<b>Technical, sales, and administrative support</b> .....	842	100	36.7	53.1	3.2	2.6	2.9	.8
Technicians and related support occupations .....	167	100	81.4	4.2	3.6	3.6	4.8	—
Health technologists and technicians .....	17	100	64.7	—	—	—	—	—
Engineering and related technologists and technicians .....	18	100	44.4	—	—	—	27.8	—
Technicians, except health, engineering, and science ..	125	100	92.0	—	—	—	—	—
Airplane pilots and navigators .....	104	100	98.1	—	—	—	—	—
Sales occupations .....	556	100	22.5	70.0	2.3	1.8	2.0	.7
Supervisors and proprietors, sales occupations .....	247	100	12.6	81.4	2.4	—	—	—
Sales representatives, finance and business services ..	45	100	55.6	40.0	—	—	—	—
Real estate sales occupations .....	11	100	—	72.7	—	—	—	—
Sales representatives, commodities except retail .....	34	100	73.5	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale .....	32	100	71.9	—	—	—	—	—
Sales workers, retail and personal services .....	225	100	18.2	73.8	2.7	2.2	1.8	—
Sales workers, motor vehicles and boats .....	17	100	41.2	47.1	—	—	—	—
Sales workers, parts .....	9	100	55.6	—	—	—	—	—
Sales counter clerks .....	24	100	—	91.7	—	—	—	—
Cashiers .....	101	100	—	95.0	—	—	—	—
News vendors .....	14	100	64.3	35.7	—	—	—	—
Administrative support occupations, including clerical .....	119	100	40.3	42.9	6.7	5.0	4.2	—
Supervisors, administrative support occupations .....	7	100	—	57.1	—	—	—	—
Secretaries, stenographers, and typists .....	18	100	33.3	55.6	—	—	—	—
Secretaries .....	18	100	33.3	55.6	—	—	—	—
Financial records processing occupations .....	8	100	—	75.0	—	—	—	—
Bookkeepers, accounting, and auditing clerks .....	6	100	—	83.3	—	—	—	—
Mail and message distributing occupations .....	29	100	75.9	13.8	—	—	—	—
Mail carriers, postal service .....	12	100	58.3	33.3	—	—	—	—
Messengers .....	12	100	100.0	—	—	—	—	—
Material recording, scheduling, and distributing clerks ..	20	100	40.0	25.0	20.0	—	—	—
Dispatchers .....	5	100	—	80.0	—	—	—	—
Traffic, shipping, and receiving clerks .....	8	100	—	—	50.0	—	—	—
Adjusters and investigators .....	9	100	66.7	—	—	—	—	—
Miscellaneous administrative support .....	21	100	19.0	66.7	—	—	—	—
General office clerks .....	13	100	—	69.2	—	—	—	—

See footnotes at end of table.

Table A-8. Fatal occupational injuries by occupation and event or exposure, 1993 — Continued

Occupation <sup>1</sup>	Fatalities		Event or exposure <sup>2</sup> (percent)					
	Number	Percent	Transportation incidents	Assaults and violent acts	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
<b>Service occupations</b> .....	539	100	27.8	45.8	5.2	8.2	7.6	5.0
Private household occupations .....	7	100	—	57.1	—	—	—	—
Protective service occupations .....	288	100	34.0	48.3	3.1	3.8	4.5	6.2
Firefighting and fire prevention occupations, including supervisors .....	39	100	35.9	—	—	—	—	46.2
Firefighting occupations .....	36	100	36.1	—	—	—	—	44.4
Police and detectives, including supervisors .....	149	100	42.3	51.0	4.0	—	—	—
Police and detectives, public services .....	101	100	35.6	59.4	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers .....	28	100	60.7	32.1	—	—	—	—
Correctional institution officers .....	12	100	50.0	33.3	—	—	—	—
Guards .....	100	100	21.0	62.0	—	6.0	9.0	—
Crossing guards .....	8	100	87.5	—	—	—	—	—
Guards and police, except public service .....	86	100	12.8	70.9	—	7.0	8.1	—
Service occupations, except protective and household .....	243	100	21.4	42.4	7.4	13.6	10.7	3.7
Food preparation and service occupations .....	77	100	9.1	74.0	5.2	—	6.5	—
Supervisors, food preparation and service occupations .....	4	100	—	100.0	—	—	—	—
Bartenders .....	8	100	—	75.0	—	—	—	—
Waiters and waitresses .....	13	100	—	69.2	—	—	—	—
Cooks .....	17	100	—	70.6	—	—	—	—
Food counter, fountain and related occupations .....	9	100	—	77.8	—	—	—	—
Kitchen, workers, food preparation .....	8	100	—	62.5	—	—	—	—
Miscellaneous food preparation occupations .....	15	100	—	73.3	—	—	—	—
Health service occupations .....	16	100	43.8	50.0	—	—	—	—
Nursing aides, orderlies, and attendants .....	11	100	54.5	45.5	—	—	—	—
Cleaning and building service occupations, except household .....	106	100	21.7	19.8	11.3	26.4	14.2	6.6
Maids and housemen .....	7	100	—	—	—	—	57.1	—
Janitors and cleaners .....	83	100	19.3	20.5	12.0	30.1	12.0	6.0
Personal service occupations .....	44	100	34.1	38.6	—	—	11.4	—
Hairdressers and cosmetologists .....	7	100	—	85.7	—	—	—	—
Guides .....	11	100	90.9	—	—	—	—	—
<b>Farming, forestry, and fishing</b> .....	961	100	45.6	4.7	32.9	5.4	10.1	1.1
Farming operators and managers .....	409	100	51.8	4.4	31.5	3.4	6.8	1.7
Farmers, except horticultural .....	328	100	51.5	4.0	31.4	3.7	7.3	1.8
Horticultural specialty farmers .....	6	100	83.3	—	—	—	—	—
Managers, farms, except horticultural .....	67	100	52.2	—	34.3	—	—	—
Other agricultural and related occupations .....	319	100	40.4	7.5	27.0	9.7	14.1	1.3
Farm occupations, except managerial .....	214	100	51.4	7.0	27.6	3.3	9.3	—
Supervisors, farm workers .....	25	100	44.0	—	36.0	—	—	—
Farm workers .....	184	100	53.3	6.5	25.5	3.3	9.8	—
Related agricultural occupations .....	105	100	18.1	8.6	25.7	22.9	23.8	—
Supervisors, related agricultural occupations .....	11	100	36.4	—	—	—	—	—
Groundskeepers and gardeners, except farm .....	88	100	15.9	5.7	27.3	26.1	23.9	—
Forestry and logging occupations .....	142	100	20.4	—	69.0	4.9	3.5	—
Supervisors, forestry, and logging workers .....	11	100	36.4	—	63.6	—	—	—
Timber cutting and logging occupations .....	124	100	17.7	—	72.6	3.2	4.0	—
Fishers, hunters, and trappers .....	91	100	74.7	—	—	—	20.9	—
Fishers .....	79	100	73.4	—	—	—	22.8	—
<b>Precision production, craft, and repair</b> .....	1,095	100	19.7	8.8	21.7	23.9	19.5	5.5
Mechanics and repairers .....	317	100	23.3	14.5	27.1	9.1	18.6	6.6
Vehicle and mobile equipment mechanics, repairers, and supervisors .....	200	100	22.5	17.0	31.5	7.5	12.5	8.5
Automobile mechanics and apprentices .....	60	100	18.3	35.0	20.0	—	11.7	13.3
Bus, truck, and stationary engine mechanics .....	26	100	38.5	—	42.3	—	—	—
Heavy equipment mechanics .....	32	100	25.0	—	43.8	—	—	—
Industrial machinery repairers .....	24	100	16.7	—	25.0	—	33.3	—
Machinery maintenance occupations .....	11	100	36.4	—	36.4	—	—	—
Electrical and electronic equipment repairers .....	38	100	28.9	10.5	10.5	13.2	36.8	—
Electronic repairers, communications and industrial equipment .....	16	100	31.2	—	—	—	43.8	—
Heating, air conditioning, and refrigeration mechanics ..	16	100	25.0	—	—	—	43.8	—
Miscellaneous mechanics and repairers .....	63	100	22.2	12.7	27.0	11.1	20.6	6.3
Construction trades .....	565	100	18.4	3.7	13.6	37.3	21.9	4.2
Supervisors, construction occupations .....	92	100	31.5	7.6	14.1	32.6	9.8	4.3
Supervisors, carpenters and related workers .....	6	100	—	—	—	83.3	—	—
Supervisors, n.e.c. .....	75	100	37.3	8.0	16.0	30.7	6.7	—
Construction trades, except supervisors .....	473	100	15.9	3.0	13.5	38.3	24.3	4.2
Brickmasons, stonemasons, and apprentices .....	20	100	20.0	—	25.0	55.0	—	—
Carpenters and apprentices .....	90	100	17.8	—	15.6	45.6	16.7	—
Drywall installers .....	10	100	—	—	—	40.0	—	—
Electricians and apprentices .....	71	100	12.7	—	—	22.5	53.5	5.6
Electrical power installers and repairers .....	42	100	11.9	—	—	19.0	57.1	—
Painters, construction and maintenance .....	54	100	—	—	—	51.9	25.9	11.1

See footnotes at end of table.

**Table A-8. Fatal occupational injuries by occupation and event or exposure, 1993 — Continued**

Occupation <sup>1</sup>	Fatalities		Event or exposure <sup>2</sup> (percent)					
	Number	Percent	Transportation incidents	Assaults and violent acts	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Plumbers, pipefitters, steamfitters, and apprentices ..	40	100	27.5	—	25.0	12.5	15.0	12.5
Roofers .....	47	100	8.5	—	—	72.3	14.9	—
Structural metal workers .....	34	100	—	—	20.6	61.8	—	—
Extractive occupations .....	97	100	19.6	—	47.4	8.2	17.5	4.1
Supervisors, extractive occupations .....	12	100	33.3	—	—	—	—	—
Drillers, oil wells .....	27	100	22.2	—	37.0	—	29.6	—
Mining machine operators .....	25	100	—	—	68.0	—	—	—
Precision production occupations .....	116	100	16.4	23.3	25.0	12.1	12.1	9.5
Precision metal working occupations .....	32	100	—	—	37.5	21.9	12.5	—
Machinists .....	12	100	—	—	58.3	—	—	—
Sheet metal workers .....	7	100	—	—	—	71.4	—	—
Precision food production occupations .....	10	100	—	60.0	—	—	—	—
Plant and system operators .....	24	100	20.8	16.7	—	—	20.8	16.7
<b>Operators, fabricators, and laborers .....</b>	<b>1,959</b>	<b>100</b>	<b>50.2</b>	<b>12.0</b>	<b>18.0</b>	<b>8.0</b>	<b>7.2</b>	<b>3.9</b>
Machine operators, assemblers, and inspectors .....	205	100	10.7	9.3	36.6	9.3	14.1	18.5
Metal working and plastic working machine operators ..	8	100	—	—	50.0	—	—	—
Metal and plastic processing machine operators .....	11	100	—	45.5	—	—	—	—
Molding and casting machine operators .....	9	100	—	44.4	—	—	—	—
Woodworking machine operators .....	14	100	—	—	71.4	—	—	—
Sawing machine operators .....	10	100	—	—	70.0	—	—	—
Machine operators, assorted materials .....	80	100	7.5	5.0	36.2	8.8	23.8	17.5
Fabricators, assemblers, and hand working occupations .....	74	100	10.8	8.1	33.8	12.2	8.1	27.0
Welders and cutters .....	58	100	12.1	8.6	31.0	6.9	6.9	34.5
Assemblers .....	10	100	—	—	50.0	—	—	—
Transportation and material moving occupations .....	1,182	100	66.6	12.5	11.3	4.7	3.0	1.1
Motor vehicle operators .....	917	100	70.7	15.2	7.7	2.5	2.1	.9
Truck drivers .....	731	100	79.8	4.4	8.6	2.9	2.3	1.0
Driver-sales workers .....	41	100	75.6	17.1	—	—	—	—
Bus drivers .....	15	100	60.0	—	—	—	—	—
Taxicab drivers and chauffeurs .....	113	100	13.3	85.8	—	—	—	—
Transportation occupations, except motor vehicles .....	85	100	70.6	—	—	14.1	5.9	—
Rail transportation occupations .....	42	100	78.6	—	—	11.9	—	—
Railroad conductors and yardmasters .....	12	100	91.7	—	—	—	—	—
Locomotive operating occupations .....	12	100	75.0	—	—	—	—	—
Railroad brake, signal, and switch operators .....	17	100	70.6	—	—	—	—	—
Water transportation occupations .....	43	100	62.8	—	—	16.3	—	—
Ship captains and mates, except fishing boats .....	11	100	90.9	—	—	—	—	—
Sailors and deckhands .....	30	100	56.7	—	—	20.0	—	—
Material moving equipment operators .....	180	100	43.9	3.9	32.8	11.1	6.7	—
Operating engineers .....	39	100	43.6	—	30.8	—	10.3	—
Hoist and winch operators .....	9	100	—	—	55.6	—	—	—
Crane and tower operators .....	13	100	—	—	30.8	53.8	—	—
Excavating and loading machine operators .....	21	100	52.4	—	28.6	—	—	—
Grader, dozer, and scraper operators .....	27	100	77.8	—	18.5	—	—	—
Industrial truck and tractor equipment operators .....	44	100	31.8	—	40.9	11.4	11.4	—
Handlers, equipment cleaners, helpers, and laborers .....	572	100	30.4	11.9	25.2	14.5	13.5	4.4
Helpers, construction and extractive occupations .....	14	100	—	—	—	—	42.9	—
Helpers, construction trades .....	10	100	—	—	—	—	50.0	—
Construction laborers .....	218	100	28.9	2.8	29.4	22.5	13.8	2.3
Freight, stock, and material handlers .....	81	100	40.7	24.7	19.8	8.6	—	—
Garbage collectors .....	18	100	77.8	—	—	—	—	—
Stevedores .....	10	100	60.0	—	—	—	—	—
Stock handlers and baggers .....	21	100	—	85.7	—	—	—	—
Machine feeders and offbearers .....	8	100	50.0	—	—	—	—	—
Garage and service station related occupations .....	34	100	20.6	64.7	11.8	—	—	—
Vehicle washers and equipment cleaners .....	7	100	—	—	—	—	57.1	—
Laborers, except construction .....	202	100	31.7	7.9	27.7	11.9	14.4	6.4

<sup>1</sup> Based on the 1990 Occupational Classification System developed by the Bureau of the Census.

<sup>2</sup> Based on the 1992 BLS Occupational Injury and Illness Classification Structures. Includes other events and exposures, such as bodily reaction, in addition to those shown separately.

NOTE: Totals for major categories may include subcategories not shown

separately. Percentages may not add to totals because of rounding. Dashes indicate no data reported or data that do not meet publication criteria.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with State and Federal agencies, Census of Fatal Occupational Injuries, 1993.