

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

Occupation ¹	Fatalities		Event or exposure ² (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
Managerial and professional specialty	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	—
Technical, sales, and administrative support	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 ¹	Fatalities		Event or exposure ² (percent)					
	Number	Percent	Transportation incidents	Assaults and violent acts	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Service occupations	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	—	—	—	—	—
Farming, forestry, and fishing	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	—
Precision production, craft, and repair	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 ¹	Fatalities		Event or exposure ² (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
Operators, fabricators, and laborers	1,959	100	50.2	12.0	18.0	8.0	7.2	3.9
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

¹ Based on the 1990 Occupational Classification System developed by the Bureau of the Census.

² 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.