

TABLE A-4. Fatal occupational injuries by occupation and event or exposure, 1999

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Total	6,023	43.4	14.8	17.1	11.9	8.8	3.6
Managerial and professional specialty	597	44.7	28.5	7.4	9.9	6.7	2.3
Executive, administrative, and managerial	371	36.1	37.5	8.6	10.0	4.9	2.7
Managers, marketing, advertising, and public relations	9	55.6	-	-	-	-	-
Managers, food serving and lodging establishments	73	15.1	74.0	-	6.8	-	-
Managers, properties and real estate	19	-	57.9	-	-	-	-
Managers and administrators, n.e.c.	196	36.7	27.0	14.3	11.2	5.6	4.6
Management related occupations	44	68.2	18.2	-	-	-	-
Accountants and auditors	11	72.7	-	-	-	-	-
Purchasing agents and buyers, n.e.c.	6	83.3	-	-	-	-	-
Professional specialty	226	58.8	13.7	5.3	9.7	9.7	-
Engineers, architects, and surveyors	46	58.7	-	-	13.0	15.2	-
Engineers	41	58.5	-	-	12.2	14.6	-
Civil engineers	11	72.7	-	-	-	-	-
Natural scientists	12	50.0	-	-	-	-	-
Health diagnosing occupations	12	-	41.7	-	-	-	-
Health assessment and treating occupations	35	68.6	-	-	-	-	-
Registered nurses	19	57.9	-	-	-	-	-
Teachers, postsecondary	10	60.0	-	-	-	-	-
Teachers, except postsecondary	29	72.4	-	-	17.2	-	-
Social, recreation, and religious workers	18	55.6	-	-	-	-	-
Social workers	8	62.5	-	-	-	-	-
Lawyers and judges	13	61.5	-	-	-	-	-
Lawyers	13	61.5	-	-	-	-	-
Writers, artists, entertainers, and athletes	43	53.5	16.3	-	-	-	-
Athletes	19	63.2	-	-	-	-	-
Technical, sales, and administrative support	610	50.0	36.2	3.3	5.4	2.6	2.0
Technicians and related support occupations	158	79.1	3.8	4.4	3.2	5.1	4.4
Health technologists and technicians	17	82.4	-	-	-	-	-
Engineering and related technologists and technicians	22	40.9	-	-	-	-	-
Electrical and electronic technicians	11	45.5	-	-	-	-	-
Technicians, except health, engineering, and science	113	89.4	-	-	-	-	-
Airplane pilots and navigators	94	98.9	-	-	-	-	-
Sales occupations	356	35.7	53.4	3.1	3.9	2.0	1.4
Supervisors and proprietors, sales occupations	140	19.3	66.4	5.7	-	-	-
Sales representatives, finance and business services	39	64.1	25.6	-	-	-	-
Securities and financial services sales occupations	10	-	90.0	-	-	-	-
Sales representatives, commodities except retail	27	81.5	-	-	-	-	-
Sales representatives, mining, manufacturing, and wholesale	27	81.5	-	-	-	-	-
Sales workers, retail and personal services	144	34.7	57.6	-	3.5	-	-
Sales counter clerks	12	-	83.3	-	-	-	-
Cashiers	55	9.1	89.1	-	-	-	-
Street and door-to-door sales workers	14	71.4	-	-	-	-	-
News vendors	15	86.7	-	-	-	-	-
Administrative support occupations, including clerical	96	55.2	26.0	-	14.6	-	-
Mail and message distributing occupations	30	80.0	-	-	-	-	-

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and event or exposure, 1999 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Mail carriers, postal service	12	66.7	—	—	—	—	—
Messengers	17	94.1	—	—	—	—	—
Material recording, scheduling, and distributing clerks	19	57.9	—	—	—	—	—
Stock and inventory clerks	8	62.5	—	—	—	—	—
Adjusters and investigators	10	50.0	—	—	—	—	—
Miscellaneous administrative support	12	—	41.7	—	—	—	—
Service occupations	468	30.8	40.6	3.0	11.8	6.4	6.8
Protective service occupations	261	39.8	39.8	—	4.2	3.8	10.0
Firefighting and fire prevention occupations, including supervisors	57	28.1	8.8	—	—	8.8	45.6
Firefighting occupations	48	31.2	—	—	—	10.4	43.8
Police and detectives, including supervisors	132	50.8	43.9	—	—	—	—
Police and detectives, public services	79	50.6	44.3	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	39	56.4	41.0	—	—	—	—
Guards, including supervisors	72	29.2	56.9	—	6.9	—	—
Guards and police, except public service	63	25.4	61.9	—	—	—	—
Service occupations, except protective and household	203	19.7	41.4	4.9	21.2	9.4	3.0
Food preparation and service occupations	66	15.2	69.7	—	—	7.6	—
Bartenders	12	—	100.0	—	—	—	—
Waiters and waitresses	7	—	85.7	—	—	—	—
Cooks	19	—	57.9	—	—	—	—
Miscellaneous food preparation occupations	12	—	66.7	—	—	—	—
Health service occupations	17	29.4	29.4	—	29.4	—	—
Cleaning and building service occupations, except household	81	14.8	23.5	8.6	38.3	9.9	—
Maids and housemen	9	—	55.6	—	—	—	—
Janitors and cleaners	64	15.6	21.9	9.4	39.1	10.9	—
Personal service occupations	39	33.3	35.9	—	12.8	12.8	—
Barbers	5	—	100.0	—	—	—	—
Farming, forestry, and fishing	897	45.2	8.1	30.9	4.9	9.1	1.4
Farming operators and managers	362	50.3	9.7	29.0	3.3	5.0	2.2
Farmers, except horticultural	233	50.6	9.9	28.8	3.0	6.0	—
Managers, farms, except horticultural	118	50.8	9.3	28.8	4.2	—	—
Other agricultural and related occupations	335	43.6	9.9	23.6	8.1	14.3	—
Farm occupations, except managerial	211	48.8	10.0	21.8	4.7	13.7	—
Farm workers	199	49.7	9.5	21.1	5.0	13.6	—
Related agricultural occupations	124	34.7	9.7	26.6	13.7	15.3	—
Supervisors, related agricultural occupations	8	62.5	—	—	—	—	—
Groundskeepers and gardeners, except farm	106	31.1	6.6	30.2	15.1	17.0	—
Animal caretakers, except farm	9	—	55.6	—	—	—	—
Forestry and logging occupations	122	14.8	—	73.0	—	—	—
Supervisors, forestry, and logging workers	12	—	—	58.3	—	—	—
Timber cutting and logging occupations	102	12.7	—	77.5	—	—	—
Fishers, hunters, and trappers	78	75.6	—	—	—	16.7	—
Fishers, including vessel captains and officers	78	75.6	—	—	—	16.7	—
Precision production, craft, and repair	1,142	20.1	6.5	21.5	28.4	17.0	6.2
Mechanics and repairers	353	25.2	13.3	29.2	13.6	12.2	6.5
Supervisors, mechanics and repairers	22	22.7	36.4	—	—	22.7	—
Mechanics and repairers, except supervisors	331	25.4	11.8	30.2	14.2	11.5	6.9

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and event or exposure, 1999 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Vehicle and mobile equipment mechanics, repairers	157	29.3	16.6	34.4	5.1	7.0	7.6
Automobile mechanics and apprentices	48	18.8	33.3	29.2	—	—	—
Bus, truck, and stationary engine mechanics	39	38.5	—	38.5	—	—	—
Automobile body and related repairers	9	—	55.6	—	—	—	—
Heavy equipment mechanics	43	32.6	—	48.8	—	—	—
Industrial machinery repairers	27	18.5	—	55.6	—	—	—
Electrical and electronic equipment repairers	42	35.7	—	11.9	26.2	14.3	—
Electronic repairers, communications and industrial equipment	20	30.0	—	—	25.0	—	—
Telephone installers and repairers	8	62.5	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	24	20.8	—	—	25.0	37.5	—
Miscellaneous mechanics and repairers	74	16.2	12.2	28.4	23.0	12.2	8.1
Office machine repairers	8	—	75.0	—	—	—	—
Elevator installers and repairers	7	—	—	—	71.4	—	—
Millwrights	7	—	—	—	71.4	—	—
Construction trades	633	18.8	2.1	13.0	40.0	21.0	4.6
Supervisors, construction occupations	91	29.7	—	18.7	28.6	17.6	—
Supervisors, electricians and power transmission installers	12	—	—	—	—	50.0	—
Supervisors, n.e.c.	66	31.8	—	21.2	28.8	12.1	—
Construction trades, except supervisors	542	17.0	2.4	12.0	41.9	21.6	4.6
Brickmasons, stonemasons, and apprentices	21	23.8	—	—	47.6	—	—
Carpenters and apprentices	103	12.6	—	17.5	47.6	10.7	6.8
Drywall installers	10	—	—	—	80.0	—	—
Electricians and apprentices	105	19.0	—	7.6	12.4	53.3	—
Electrical power installers and repairers	34	—	—	—	29.4	50.0	—
Painters, construction and maintenance	38	—	—	—	71.1	13.2	—
Plumbers, pipefitters, steamfitters, and apprentices	39	20.5	—	23.1	15.4	12.8	20.5
Paving, surfacing, and tamping equipment operators	8	100.0	—	—	—	—	—
Roofers	59	—	—	—	86.4	—	—
Structural metal workers	43	—	—	18.6	76.7	—	—
Extractive occupations	47	—	—	68.1	—	—	10.6
Mining machine operators	20	—	—	90.0	—	—	—
Precision production occupations	109	16.5	12.8	25.7	19.3	12.8	12.8
Precision metal working occupations	38	13.2	13.2	26.3	36.8	—	—
Machinists	16	—	31.2	37.5	—	—	—
Sheet metal workers	9	—	—	—	88.9	—	—
Plant and system operators	15	—	—	—	—	46.7	—
Operators, fabricators, and laborers	2,194	54.4	6.7	19.3	8.9	7.1	3.3
Machine operators, assemblers, and inspectors	216	10.2	4.6	39.4	17.1	9.7	17.6
Machine operators and tenders, except precision	125	6.4	6.4	46.4	12.8	12.8	14.4
Metal working and plastic working machine operators	11	—	—	72.7	—	—	—
Machine operators, assorted materials	89	6.7	—	44.9	13.5	16.9	14.6
Miscellaneous machine operators, n.e.c.	31	—	—	51.6	—	16.1	—
Machine operators, not specified	24	—	—	54.2	—	20.8	—
Fabricators, assemblers, and hand working occupations	82	11.0	—	28.0	25.6	6.1	24.4
Welders and cutters	67	9.0	—	25.4	28.4	—	25.4

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and event or exposure, 1999 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					
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Assemblers	12	—	—	41.7	—	—	—
Production inspectors, testers, samplers, and weighers	9	55.6	—	—	—	—	—
Transportation and material moving occupations	1,320	74.4	7.5	11.2	2.3	3.6	1.0
Motor vehicle operators	1,063	78.7	8.8	7.7	1.7	2.5	.5
Truck drivers	898	82.7	3.1	8.9	1.9	2.8	.6
Driver-sales workers	42	83.3	—	—	—	—	—
Bus drivers	36	80.6	16.7	—	—	—	—
Taxicab drivers and chauffeurs	74	29.7	70.3	—	—	—	—
Transportation occupations, except motor vehicles	52	69.2	—	11.5	—	15.4	—
Rail transportation occupations	24	91.7	—	—	—	—	—
Railroad conductors and yardmasters	15	93.3	—	—	—	—	—
Railroad brake, signal, and switch operators	6	83.3	—	—	—	—	—
Water transportation occupations	28	50.0	—	21.4	—	25.0	—
Ship captains and mates, except fishing boats	12	75.0	—	—	—	—	—
Sailors and deckhands	15	—	—	33.3	—	40.0	—
Material moving equipment operators	205	53.2	—	29.3	5.9	6.3	3.9
Operating engineers	57	57.9	—	31.6	—	—	—
Crane and tower operators	14	—	—	42.9	—	—	—
Excavating and loading machine operators	21	38.1	—	42.9	—	—	—
Grader, dozer, and scraper operators	26	84.6	—	—	—	—	—
Industrial truck and tractor equipment operators	56	62.5	—	21.4	—	—	—
Handlers, equipment cleaners, helpers, and laborers	658	28.7	5.6	29.0	19.5	13.1	3.3
Helpers, construction and extractive occupations	15	—	—	33.3	—	—	—
Construction laborers	341	30.5	1.8	28.2	25.5	12.3	—
Freight, stock, and material handlers	65	35.4	12.3	29.2	10.8	9.2	—
Garbage collectors	19	68.4	—	—	—	—	—
Stevedores	9	—	—	55.6	—	—	—
Stock handlers and baggers	12	—	66.7	—	—	—	—
Garage and service station related occupations	14	—	—	—	—	—	35.7
Vehicle washers and equipment cleaners	14	—	—	35.7	—	—	—
Laborers, except construction	193	28.5	8.3	30.6	12.4	14.5	5.7
Military occupations⁵	80	65.0	16.2	5.0	3.8	8.8	—

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 Manual.

³ Includes highway, nonhighway, air, water, and rail fatalities.

⁴ Includes violence by persons, self-inflicted injury, and attacks by animals.

⁵ Resident armed forces.

NOTE: Totals for major categories may include subcategories not

shown separately. Percentages may not add to totals because of rounding.

There were 35 fatalities for which there was insufficient information to determine a specific occupation classification.

Dashes indicate no data reported or data that do not meet publication criteria.

n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries