

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Total	5,764	14.3	12.8	8.0	4.4	2.0	2.8
Management occupations	637	10.7	8.5	4.7	2.0	1.9	3.5
Top executives	28	14.3	—	—	—	—	—
Chief executives	13	—	—	—	—	—	—
Chief executives	13	—	—	—	—	—	—
General and operations managers	15	—	—	—	—	—	—
General and operations managers	15	—	—	—	—	—	—
Advertising, marketing, promotions, public relations, and sales managers	20	—	—	—	—	—	—
Advertising and promotions managers	3	—	—	—	—	—	—
Advertising and promotions managers	3	—	—	—	—	—	—
Marketing and sales managers	16	—	—	—	—	—	—
Sales managers	14	—	—	—	—	—	—
Operations specialties managers	43	16.3	14.0	—	—	—	—
Administrative services managers	5	—	—	—	—	—	—
Administrative services managers	5	—	—	—	—	—	—
Financial managers	14	—	—	—	—	—	—
Financial managers	14	—	—	—	—	—	—
Human resources managers	3	—	—	—	—	—	—
Industrial production managers	11	—	—	—	—	—	—
Industrial production managers	11	—	—	—	—	—	—
Transportation, storage, and distribution managers	7	—	—	—	—	—	—
Transportation, storage, and distribution managers	7	—	—	—	—	—	—
Other management occupations	546	10.1	8.1	4.8	2.2	1.6	3.7
Agricultural managers	327	5.2	3.4	3.7	1.5	1.8	2.1
Farm, ranch, and other agricultural managers	17	—	—	—	—	—	—
Farmers and ranchers	310	5.2	3.2	3.5	1.3	1.9	2.3
Construction managers	95	28.4	27.4	8.4	6.3	—	7.4
Construction managers	95	28.4	27.4	8.4	6.3	—	7.4
Education administrators	10	—	—	—	—	—	—
Education administrators, postsecondary	7	—	—	—	—	—	—
Food service managers	31	12.9	12.9	—	—	—	—
Food service managers	31	12.9	12.9	—	—	—	—
Lodging managers	11	—	—	—	—	—	—
Lodging managers	11	—	—	—	—	—	—
Property, real estate, and community association managers	18	—	—	—	—	—	—
Property, real estate, and community association managers	18	—	—	—	—	—	—
Miscellaneous managers	47	8.5	—	8.5	—	—	6.4
Managers, all other	47	8.5	—	8.5	—	—	6.4
Business and financial operations occupations	27	—	—	—	—	—	—
Business operations specialists	18	—	—	—	—	—	—
Buyers and purchasing agents	6	—	—	—	—	—	—
Wholesale and retail buyers, except farm products	3	—	—	—	—	—	—
Claims adjusters, appraisers, examiners, and investigators	5	—	—	—	—	—	—
Claims adjusters, examiners, and investigators	5	—	—	—	—	—	—
Financial specialists	9	—	—	—	—	—	—
Accountants and auditors	5	—	—	—	—	—	—
Accountants and auditors	5	—	—	—	—	—	—
Computer and mathematical occupations	7	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Computer specialists	7	—	—	—	—	—	—
Architecture and engineering occupations	69	7.2	5.8	14.5	8.7	—	—
Architects, surveyors, and cartographers	6	—	—	—	—	—	—
Surveyors, cartographers, and photogrammetrists	6	—	—	—	—	—	—
Surveyors	6	—	—	—	—	—	—
Engineers	36	—	—	8.3	8.3	—	—
Civil engineers	10	—	—	—	—	—	—
Civil engineers	10	—	—	—	—	—	—
Electrical and electronics engineers	5	—	—	—	—	—	—
Electrical engineers	3	—	—	—	—	—	—
Mechanical engineers	6	—	—	—	—	—	—
Mechanical engineers	6	—	—	—	—	—	—
Miscellaneous engineers	6	—	—	—	—	—	—
Engineers, all other	6	—	—	—	—	—	—
Drafters, engineering, and mapping technicians	27	11.1	11.1	18.5	11.1	—	—
Drafters	4	—	—	—	—	—	—
Architectural and civil drafters	4	—	—	—	—	—	—
Engineering technicians, except drafters	20	—	—	20.0	—	—	—
Electrical and electronic engineering technicians	11	—	—	—	—	—	—
Engineering technicians, except drafters, all other	4	—	—	—	—	—	—
Surveying and mapping technicians	3	—	—	—	—	—	—
Surveying and mapping technicians	3	—	—	—	—	—	—
Life, physical, and social science occupations	25	—	—	—	—	—	—
Life scientists	11	—	—	—	—	—	—
Conservation scientists and foresters	6	—	—	—	—	—	—
Foresters	4	—	—	—	—	—	—
Physical scientists	4	—	—	—	—	—	—
Life, physical, and social science technicians ..	8	—	—	—	—	—	—
Community and social services occupations	43	14.0	11.6	—	—	—	—
Counselors, social workers, and other community and social service specialists	21	—	—	—	—	—	—
Counselors	7	—	—	—	—	—	—
Social workers	10	—	—	—	—	—	—
Child, family, and school social workers ..	3	—	—	—	—	—	—
Social workers, all other	3	—	—	—	—	—	—
Miscellaneous community and social service specialists	4	—	—	—	—	—	—
Religious workers	22	22.7	22.7	—	—	—	—
Clergy	11	—	—	—	—	—	—
Clergy	11	—	—	—	—	—	—
Directors, religious activities and education	4	—	—	—	—	—	—
Directors, religious activities and education	4	—	—	—	—	—	—
Miscellaneous religious workers	7	—	—	—	—	—	—
Religious workers, all other	7	—	—	—	—	—	—
Legal occupations	3	—	—	—	—	—	—
Lawyers, judges, and related workers	3	—	—	—	—	—	—
Education, training, and library occupations ..	27	18.5	—	14.8	—	—	—
Postsecondary teachers	7	—	—	—	—	—	—
Miscellaneous postsecondary teachers	3	—	—	—	—	—	—
Primary, secondary, and special education school teachers	12	—	—	25.0	—	—	—
Elementary and middle school teachers	6	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Elementary school teachers, except special education	5	-	-	-	-	-	-
Secondary school teachers	5	-	-	-	-	-	-
Secondary school teachers, except special and vocational education	4	-	-	-	-	-	-
Other teachers and instructors	3	-	-	-	-	-	-
Other education, training, and library occupations	4	-	-	-	-	-	-
Teacher assistants	4	-	-	-	-	-	-
Teacher assistants	4	-	-	-	-	-	-
Arts, design, entertainment, sports, and media occupations	51	13.7	9.8	-	-	-	-
Art and design workers	8	-	-	-	-	-	-
Artists and related workers	3	-	-	-	-	-	-
Designers	5	-	-	-	-	-	-
Entertainers and performers, sports and related workers	32	18.8	12.5	-	-	-	-
Athletes, coaches, umpires, and related workers	23	21.7	13.0	-	-	-	-
Athletes and sports competitors	15	20.0	-	-	-	-	-
Coaches and scouts	7	-	-	-	-	-	-
Miscellaneous entertainers and performers, sports and related workers	5	-	-	-	-	-	-
Entertainers and performers, sports and related workers, all other	5	-	-	-	-	-	-
Media and communication equipment workers	9	-	-	-	-	-	-
Broadcast and sound engineering technicians and radio operators	3	-	-	-	-	-	-
Photographers	3	-	-	-	-	-	-
Photographers	3	-	-	-	-	-	-
Television, video, and motion picture camera operators and editors	3	-	-	-	-	-	-
Camera operators, television, video, and motion picture	3	-	-	-	-	-	-
Healthcare practitioners and technical occupations	72	6.9	4.2	12.5	-	11.1	-
Health diagnosing and treating practitioners	40	7.5	-	10.0	-	10.0	-
Pharmacists	3	-	-	-	-	-	-
Pharmacists	3	-	-	-	-	-	-
Physicians and surgeons	5	-	-	-	-	-	-
Physicians and surgeons, all other	5	-	-	-	-	-	-
Registered nurses	23	13.0	-	17.4	-	17.4	-
Registered nurses	23	13.0	-	17.4	-	17.4	-
Therapists	4	-	-	-	-	-	-
Veterinarians	3	-	-	-	-	-	-
Veterinarians	3	-	-	-	-	-	-
Health technologists and technicians	31	-	-	16.1	-	12.9	-
Emergency medical technicians and paramedics	19	-	-	-	-	-	-
Emergency medical technicians and paramedics	19	-	-	-	-	-	-
Health diagnosing and treating practitioner support technicians	6	-	-	-	-	-	-
Licensed practical and licensed vocational nurses	4	-	-	-	-	-	-
Licensed practical and licensed vocational nurses	4	-	-	-	-	-	-
Healthcare support occupations	12	-	-	25.0	-	25.0	-
Nursing, psychiatric, and home health aides ...	9	-	-	33.3	-	33.3	-

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Nursing, psychiatric, and home health aides	9	—	—	33.3	—	33.3	—
Home health aides	7	—	—	—	—	—	—
Other healthcare support occupations	3	—	—	—	—	—	—
Protective service occupations	273	4.4	1.8	1.5	—	—	4.8
First-line supervisors/managers, protective service workers	24	—	—	—	—	—	12.5
First-line supervisors/managers, law enforcement workers	10	—	—	—	—	—	—
First-line supervisors/managers of police and detectives	10	—	—	—	—	—	—
First-line supervisors/managers, fire fighting and prevention workers	10	—	—	—	—	—	30.0
First-line supervisors/managers of fire fighting and prevention workers	10	—	—	—	—	—	30.0
Miscellaneous first-line supervisors/managers, protective service workers	4	—	—	—	—	—	—
First-line supervisors/managers, protective service workers, all other	4	—	—	—	—	—	—
Fire fighting and prevention workers	30	—	—	—	—	—	23.3
Fire fighters	29	—	—	—	—	—	24.1
Fire fighters	29	—	—	—	—	—	24.1
Law enforcement workers	136	2.9	—	—	—	—	—
Bailiffs, correctional officers, and jailers	5	—	—	—	—	—	—
Correctional officers and jailers	5	—	—	—	—	—	—
Detectives and criminal investigators	9	—	—	—	—	—	—
Detectives and criminal investigators	9	—	—	—	—	—	—
Police officers	121	—	—	—	—	—	—
Police and sheriff's patrol officers	121	—	—	—	—	—	—
Other protective service workers	83	7.2	—	—	—	—	—
Security guards and gaming surveillance officers	69	5.8	—	—	—	—	—
Security guards	67	6.0	—	—	—	—	—
Miscellaneous protective service workers	13	—	—	—	—	—	—
Crossing guards	7	—	—	—	—	—	—
Protective service workers, all other	4	—	—	—	—	—	—
Food preparation and serving related occupations	52	9.6	—	9.6	—	7.7	—
Supervisors, food preparation and serving workers	10	—	—	—	—	—	—
First-line supervisors/managers, food preparation and serving workers	10	—	—	—	—	—	—
First-line supervisors/managers of food preparation and serving workers	10	—	—	—	—	—	—
Cooks and food preparation workers	10	—	—	30.0	—	30.0	—
Cooks	9	—	—	33.3	—	33.3	—
Cooks, restaurant	5	—	—	—	—	—	—
Food and beverage serving workers	27	14.8	—	—	—	—	—
Bartenders	11	—	—	—	—	—	—
Bartenders	11	—	—	—	—	—	—
Fast food and counter workers	10	—	—	—	—	—	—
Combined food preparation and serving workers, including fast food	7	—	—	—	—	—	—
Counter attendants, cafeteria, food concession, and coffee shop	3	—	—	—	—	—	—
Waiters and waitresses	5	—	—	—	—	—	—
Waiters and waitresses	5	—	—	—	—	—	—
Other food preparation and serving related workers	5	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Dining room and cafeteria attendants and bartender helpers	3	—	—	—	—	—	—
Dining room and cafeteria attendants and bartender helpers	3	—	—	—	—	—	—
Building and grounds cleaning and maintenance occupations	278	24.5	23.4	16.5	8.6	4.0	—
Supervisors, building and grounds cleaning and maintenance workers	43	18.6	18.6	9.3	9.3	—	—
First-line supervisors/managers, building and grounds cleaning and maintenance workers	43	18.6	18.6	9.3	9.3	—	—
First-line supervisors/managers of housekeeping and janitorial workers	6	—	—	—	—	—	—
First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	37	18.9	18.9	10.8	10.8	—	—
Building cleaning and pest control workers	66	27.3	24.2	19.7	4.5	9.1	—
Building cleaning workers	63	28.6	25.4	17.5	—	7.9	—
Janitors and cleaners, except maids and housekeeping cleaners	47	27.7	25.5	17.0	—	8.5	—
Maids and housekeeping cleaners	15	26.7	20.0	—	—	—	—
Pest control workers	3	—	—	—	—	—	—
Pest control workers	3	—	—	—	—	—	—
Grounds maintenance workers	169	24.9	24.3	17.2	10.1	3.0	—
Grounds maintenance workers	169	24.9	24.3	17.2	10.1	3.0	—
Landscaping and groundskeeping workers	99	16.2	15.2	14.1	4.0	4.0	—
Tree trimmers and pruners	65	40.0	40.0	21.5	20.0	—	—
Grounds maintenance workers, all other	4	—	—	—	—	—	—
Personal care and service occupations	56	—	—	16.1	—	—	—
Supervisors, personal care and service workers	6	—	—	—	—	—	—
First-line supervisors/managers of personal service workers	6	—	—	—	—	—	—
First-line supervisors/managers of personal service workers	6	—	—	—	—	—	—
Animal care and service workers	11	—	—	—	—	—	—
Animal trainers	5	—	—	—	—	—	—
Animal trainers	5	—	—	—	—	—	—
Nonfarm animal caretakers	6	—	—	—	—	—	—
Nonfarm animal caretakers	6	—	—	—	—	—	—
Entertainment attendants and related workers	7	—	—	42.9	—	—	—
Miscellaneous entertainment attendants and related workers	7	—	—	42.9	—	—	—
Amusement and recreation attendants	6	—	—	—	—	—	—
Personal appearance workers	7	—	—	—	—	—	—
Barbers and cosmetologists	5	—	—	—	—	—	—
Barbers	3	—	—	—	—	—	—
Transportation, tourism, and lodging attendants	7	—	—	—	—	—	—
Tour and travel guides	5	—	—	—	—	—	—
Tour guides and escorts	5	—	—	—	—	—	—
Other personal care and service workers	17	—	—	35.3	—	—	—
Child care workers	6	—	—	—	—	—	—
Child care workers	6	—	—	—	—	—	—
Personal and home care aides	4	—	—	—	—	—	—
Personal and home care aides	4	—	—	—	—	—	—
Recreation and fitness workers	5	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Recreation workers	4	—	—	—	—	—	—
Sales and related occupations	355	7.6	4.2	2.8	—	1.4	1.4
Supervisors, sales workers	159	9.4	6.3	—	—	—	2.5
First-line supervisors/managers, sales workers	159	9.4	6.3	—	—	—	2.5
First-line supervisors/managers of retail sales workers	131	8.4	4.6	—	—	—	—
First-line supervisors/managers of non-retail sales workers	28	14.3	14.3	—	—	—	—
Retail sales workers	101	7.9	3.0	4.0	—	3.0	—
Cashiers	54	—	—	—	—	—	—
Cashiers	54	—	—	—	—	—	—
Counter and rental clerks and parts salespersons	6	—	—	—	—	—	—
Counter and rental clerks	3	—	—	—	—	—	—
Parts salespersons	3	—	—	—	—	—	—
Retail salespersons	41	19.5	7.3	—	—	—	—
Retail salespersons	41	19.5	7.3	—	—	—	—
Sales representatives, services	21	—	—	—	—	—	—
Advertising sales agents	3	—	—	—	—	—	—
Advertising sales agents	3	—	—	—	—	—	—
Insurance sales agents	5	—	—	—	—	—	—
Insurance sales agents	5	—	—	—	—	—	—
Securities, commodities, and financial services sales agents	5	—	—	—	—	—	—
Securities, commodities, and financial services sales agents	5	—	—	—	—	—	—
Miscellaneous sales representatives, services	7	—	—	—	—	—	—
Sales representatives, services, all other	7	—	—	—	—	—	—
Sales representatives, wholesale and manufacturing	34	—	—	—	—	—	—
Sales representatives, wholesale and manufacturing	34	—	—	—	—	—	—
Sales representatives, wholesale and manufacturing, technical and scientific products	12	—	—	—	—	—	—
Sales representatives, wholesale and manufacturing, except technical and scientific products	22	—	—	—	—	—	—
Other sales and related workers	40	—	—	7.5	—	—	—
Real estate brokers and sales agents	11	—	—	—	—	—	—
Real estate brokers	5	—	—	—	—	—	—
Real estate sales agents	6	—	—	—	—	—	—
Miscellaneous sales and related workers	26	—	—	11.5	—	—	—
Door-to-door sales workers, news and street vendors, and related workers	22	—	—	13.6	—	—	—
Sales and related workers, all other	4	—	—	—	—	—	—
Office and administrative support occupations	91	8.8	—	—	—	—	—
Supervisors, office and administrative support workers	4	—	—	—	—	—	—
First-line supervisors/managers of office and administrative support workers	4	—	—	—	—	—	—
First-line supervisors/managers of office and administrative support workers	4	—	—	—	—	—	—
Financial clerks	8	—	—	—	—	—	—
Tellers	3	—	—	—	—	—	—
Tellers	3	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Information and record clerks	9	—	—	—	—	—	—
Receptionists and information clerks	4	—	—	—	—	—	—
Receptionists and information clerks	4	—	—	—	—	—	—
Material recording, scheduling, dispatching, and distributing workers	50	10.0	—	—	—	—	—
Couriers and messengers	17	—	—	—	—	—	—
Couriers and messengers	17	—	—	—	—	—	—
Postal service workers	14	—	—	—	—	—	—
Postal service mail carriers	11	—	—	—	—	—	—
Stock clerks and order fillers	14	28.6	—	—	—	—	—
Stock clerks and order fillers	14	28.6	—	—	—	—	—
Secretaries and administrative assistants	6	—	—	—	—	—	—
Secretaries and administrative assistants	6	—	—	—	—	—	—
Secretaries, except legal, medical, and executive	4	—	—	—	—	—	—
Other office and administrative support workers	14	—	—	—	—	—	—
Office clerks, general	7	—	—	—	—	—	—
Office clerks, general	7	—	—	—	—	—	—
Farming, fishing, and forestry occupations	285	3.9	3.5	7.0	2.8	1.8	2.1
Supervisors, farming, fishing, and forestry workers	11	—	—	—	—	—	—
First-line supervisors/managers of farming, fishing, and forestry workers	11	—	—	—	—	—	—
First-line supervisors/managers of farming, fishing, and forestry workers	8	—	—	—	—	—	—
Farm labor contractors	3	—	—	—	—	—	—
Agricultural workers	145	6.2	5.5	11.0	5.5	2.1	2.8
Miscellaneous agricultural workers	142	5.6	4.9	11.3	5.6	2.1	2.8
Agricultural equipment operators	11	—	—	—	—	—	—
Farmworkers and laborers, crop, nursery, and greenhouse	84	4.8	4.8	9.5	6.0	—	—
Farmworkers, farm and ranch animals	42	9.5	7.1	16.7	—	7.1	—
Agricultural workers, all other	5	—	—	—	—	—	—
Fishing and hunting workers	40	—	—	7.5	—	—	—
Fishers and related fishing workers	40	—	—	7.5	—	—	—
Fishers and related fishing workers	40	—	—	7.5	—	—	—
Forest, conservation, and logging workers	89	—	—	—	—	—	—
Logging workers	85	—	—	—	—	—	—
Fallers	55	—	—	—	—	—	—
Logging equipment operators	13	—	—	—	—	—	—
Logging workers, all other	17	—	—	—	—	—	—
Construction and extraction occupations	1,138	36.3	35.7	13.3	9.2	2.1	2.6
Supervisors, construction and extraction workers	116	28.4	27.6	7.8	6.0	—	2.6
First-line supervisors/managers of construction trades and extraction workers	116	28.4	27.6	7.8	6.0	—	2.6
First-line supervisors/managers of construction trades and extraction workers	116	28.4	27.6	7.8	6.0	—	2.6
Construction trades workers	879	40.8	40.2	13.9	9.4	2.4	2.3
Boilermakers	4	100.0	100.0	—	—	—	—
Boilermakers	4	100.0	100.0	—	—	—	—
Brickmasons, blockmasons, and stonemasons	18	55.6	55.6	—	—	—	—
Brickmasons and blockmasons	18	55.6	55.6	—	—	—	—
Carpenters	111	61.3	59.5	7.2	3.6	2.7	—
Carpenters	111	61.3	59.5	7.2	3.6	2.7	—
Carpet, floor, and tile installers and finishers	7	—	—	57.1	—	57.1	—

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Carpet installers	3	—	—	—	—	—	—
Cement masons, concrete finishers, and terrazzo workers	14	21.4	21.4	28.6	28.6	—	—
Cement masons and concrete finishers ...	14	21.4	21.4	28.6	28.6	—	—
Construction laborers	296	30.7	30.1	12.5	7.1	3.0	—
Construction laborers	296	30.7	30.1	12.5	7.1	3.0	—
Construction equipment operators	72	—	—	5.6	—	—	—
Paving, surfacing, and tamping equipment operators	9	—	—	—	—	—	—
Operating engineers and other construction equipment operators	61	—	—	4.9	—	—	—
Drywall installers, ceiling tile installers, and tapers	13	76.9	76.9	—	—	—	—
Drywall and ceiling tile installers	13	76.9	76.9	—	—	—	—
Electricians	94	31.9	29.8	42.6	38.3	—	4.3
Electricians	94	31.9	29.8	42.6	38.3	—	4.3
Glaziers	4	75.0	75.0	—	—	—	—
Glaziers	4	75.0	75.0	—	—	—	—
Painters and paperhangers	62	59.7	59.7	12.9	9.7	—	6.5
Painters, construction and maintenance ..	61	59.0	59.0	13.1	9.8	—	6.6
Pipelayers, plumbers, pipefitters, and steamfitters	37	—	—	10.8	—	—	18.9
Pipelayers	10	—	—	30.0	—	—	—
Plumbers, pipefitters, and steamfitters	27	—	—	—	—	—	25.9
Plasterers and stucco masons	3	—	—	—	—	—	—
Plasterers and stucco masons	3	—	—	—	—	—	—
Reinforcing iron and rebar workers	3	—	—	—	—	—	—
Reinforcing iron and rebar workers	3	—	—	—	—	—	—
Roofers	95	78.9	78.9	6.3	4.2	—	—
Roofers	95	78.9	78.9	6.3	4.2	—	—
Sheet metal workers	14	50.0	50.0	—	—	—	—
Sheet metal workers	14	50.0	50.0	—	—	—	—
Structural iron and steel workers	31	48.4	48.4	9.7	9.7	—	—
Structural iron and steel workers	31	48.4	48.4	9.7	9.7	—	—
Helpers, construction trades	21	19.0	19.0	33.3	33.3	—	—
Helpers, construction trades	21	19.0	19.0	33.3	33.3	—	—
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters	3	—	—	—	—	—	—
Helpers--electricians	10	—	—	50.0	50.0	—	—
Helpers--pipelayers, plumbers, pipefitters, and steamfitters	3	—	—	—	—	—	—
Helpers, construction trades, all other	4	—	—	—	—	—	—
Other construction and related workers	45	17.8	17.8	15.6	8.9	—	—
Construction and building inspectors	8	—	—	—	—	—	—
Construction and building inspectors	8	—	—	—	—	—	—
Elevator installers and repairers	6	50.0	50.0	—	—	—	—
Elevator installers and repairers	6	50.0	50.0	—	—	—	—
Highway maintenance workers	21	—	—	—	—	—	—
Highway maintenance workers	21	—	—	—	—	—	—
Miscellaneous construction and related workers	7	42.9	42.9	—	—	—	—
Construction and related workers, all other	6	50.0	50.0	—	—	—	—
Extraction workers	77	11.7	11.7	7.8	5.2	—	6.5
Derrick, rotary drill, and service unit operators, oil, gas, and mining	15	—	—	—	—	—	—
Derrick operators, oil and gas	6	—	—	—	—	—	—
Rotary drill operators, oil and gas	8	—	—	—	—	—	—
Earth drillers, except oil and gas	8	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Earth drillers, except oil and gas	8	—	—	—	—	—	—
Mining machine operators	20	—	—	—	—	—	—
Continuous mining machine operators	4	—	—	—	—	—	—
Mining machine operators, all other	15	—	—	—	—	—	—
Roof bolters, mining	3	—	—	—	—	—	—
Roof bolters, mining	3	—	—	—	—	—	—
Roustabouts, oil and gas	7	—	—	—	—	—	—
Roustabouts, oil and gas	7	—	—	—	—	—	—
Helpers--extraction workers	3	—	—	—	—	—	—
Helpers--extraction workers	3	—	—	—	—	—	—
Miscellaneous extraction workers	18	33.3	33.3	—	—	—	—
Extraction workers, all other	18	33.3	33.3	—	—	—	—
Installation, maintenance, and repair occupations	384	18.0	16.7	17.4	12.2	3.1	9.1
Supervisors of installation, maintenance, and repair workers	43	18.6	18.6	11.6	7.0	—	11.6
First-line supervisors/managers of mechanics, installers, and repairers	43	18.6	18.6	11.6	7.0	—	11.6
First-line supervisors/managers of mechanics, installers, and repairers	43	18.6	18.6	11.6	7.0	—	11.6
Electrical and electronic equipment mechanics, installers, and repairers	13	23.1	23.1	23.1	23.1	—	—
Computer, automated teller, and office machine repairers	3	—	—	—	—	—	—
Computer, automated teller, and office machine repairers	3	—	—	—	—	—	—
Radio and telecommunications equipment installers and repairers	4	—	—	—	—	—	—
Telecommunications equipment installers and repairers, except line installers	4	—	—	—	—	—	—
Miscellaneous electrical and electronic equipment mechanics, installers, and repairers	6	—	—	50.0	50.0	—	—
Electric motor, power tool, and related repairers	3	—	—	—	—	—	—
Vehicle and mobile equipment mechanics, installers, and repairers	122	4.9	4.1	6.6	—	3.3	12.3
Aircraft mechanics and service technicians	4	—	—	—	—	—	—
Aircraft mechanics and service technicians	4	—	—	—	—	—	—
Automotive technicians and repairers	51	5.9	—	—	—	—	11.8
Automotive body and related repairers	11	—	—	—	—	—	—
Automotive service technicians and mechanics	39	7.7	—	—	—	—	12.8
Bus and truck mechanics and diesel engine specialists	22	—	—	—	—	—	—
Bus and truck mechanics and diesel engine specialists	22	—	—	—	—	—	—
Heavy vehicle and mobile equipment service technicians and mechanics	26	—	—	15.4	—	—	—
Farm equipment mechanics	5	—	—	—	—	—	—
Mobile heavy equipment mechanics, except engines	19	—	—	—	—	—	—
Small engine mechanics	3	—	—	—	—	—	—
Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	16	—	—	—	—	—	37.5
Tire repairers and changers	16	—	—	—	—	—	37.5

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Other installation, maintenance, and repair occupations	206	25.2	23.3	24.8	18.4	3.4	7.3
Control and valve installers and repairers	4	—	—	—	—	—	—
Control and valve installers and repairers, except mechanical door	3	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics and installers	24	33.3	33.3	50.0	37.5	12.5	—
Heating, air conditioning, and refrigeration mechanics and installers	24	33.3	33.3	50.0	37.5	12.5	—
Industrial machinery installation, repair, and maintenance workers	91	27.5	24.2	12.1	7.7	—	7.7
Industrial machinery mechanics	39	23.1	17.9	10.3	—	—	7.7
Maintenance and repair workers, general	39	33.3	30.8	15.4	10.3	—	10.3
Maintenance workers, machinery	6	—	—	—	—	—	—
Millwrights	7	—	—	—	—	—	—
Line installers and repairers	50	26.0	26.0	40.0	38.0	—	—
Electrical power-line installers and repairers	36	19.4	19.4	41.7	41.7	—	—
Telecommunications line installers and repairers	14	42.9	42.9	35.7	28.6	—	—
Miscellaneous installation, maintenance, and repair workers	35	17.1	14.3	20.0	8.6	8.6	—
Coin, vending, and amusement machine servicers and repairers	5	—	—	—	—	—	—
Locksmiths and safe repairers	3	—	—	—	—	—	—
Manufactured building and mobile home installers	3	—	—	—	—	—	—
Riggers	4	—	—	—	—	—	—
Helpers--installation, maintenance, and repair workers	3	—	—	—	—	—	—
Installation, maintenance, and repair workers, all other	15	26.7	26.7	26.7	—	20.0	—
Production occupations	290	11.4	9.3	10.0	4.5	3.4	10.7
Transportation and material moving occupations	1,511	5.0	4.3	3.5	1.9	.9	.7
Supervisors, production workers	37	10.8	8.1	13.5	8.1	—	—
First-line supervisors/managers of production and operating workers	37	10.8	8.1	13.5	8.1	—	—
First-line supervisors/managers of production and operating workers	37	10.8	8.1	13.5	8.1	—	—
Assemblers and fabricators	19	21.1	15.8	15.8	—	—	—
Miscellaneous assemblers and fabricators ..	14	28.6	21.4	—	—	—	—
Assemblers and fabricators, all other	14	28.6	21.4	—	—	—	—
Food processing workers	13	—	—	23.1	—	23.1	—
Butchers and other meat, poultry, and fish processing workers	10	—	—	—	—	—	—
Slaughterers and meat packers	8	—	—	—	—	—	—
Metal workers and plastic workers	85	10.6	8.2	5.9	—	3.5	12.9
Machine tool cutting setters, operators, and tenders, metal and plastic	4	—	—	—	—	—	—
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and Plastic	3	—	—	—	—	—	—
Machinists	10	30.0	—	—	—	—	—
Machinists	10	30.0	—	—	—	—	—
Metal furnace and kiln operators and tenders	6	—	—	—	—	—	50.0
Metal-refining furnace operators and tenders	6	—	—	—	—	—	50.0

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Molders and molding machine setters, operators, and tenders, metal and plastic	4	-	-	-	-	-	-
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	3	-	-	-	-	-	-
Welding, soldering, and brazing workers	48	12.5	10.4	10.4	-	6.2	10.4
Welders, cutters, solderers, and brazers	46	13.0	10.9	10.9	-	6.5	10.9
Miscellaneous metalworkers and plastic workers	10	-	-	-	-	-	-
Metal workers and plastic workers, all other	8	-	-	-	-	-	-
Printing workers	4	-	-	-	-	-	-
Printers	3	-	-	-	-	-	-
Textile, apparel, and furnishings workers	7	-	-	-	-	-	-
Woodworkers	15	-	-	-	-	-	-
Cabinetmakers and bench carpenters	3	-	-	-	-	-	-
Cabinetmakers and bench carpenters	3	-	-	-	-	-	-
Woodworking machine setters, operators, and tenders	12	-	-	-	-	-	-
Sawing machine setters, operators, and tenders, wood	9	-	-	-	-	-	-
Woodworking machine setters, operators, and tenders, except sawing	3	-	-	-	-	-	-
Plant and system operators	14	-	-	-	-	-	42.9
Stationary engineers and boiler operators ...	3	-	-	-	-	-	-
Stationary engineers and boiler operators	3	-	-	-	-	-	-
Water and liquid waste treatment plant and system operators	6	-	-	-	-	-	-
Water and liquid waste treatment plant and system operators	6	-	-	-	-	-	-
Miscellaneous plant and system operators ..	3	-	-	-	-	-	-
Other production occupations	96	11.5	11.5	9.4	5.2	-	9.4
Chemical processing machine setters, operators, and tenders	7	-	-	-	-	-	71.4
Chemical equipment operators and tenders	6	-	-	-	-	-	83.3
Crushing, grinding, polishing, mixing, and blending workers	9	-	-	-	-	-	-
Crushing, grinding, and polishing machine setters, operators, and tenders ..	4	-	-	-	-	-	-
Mixing and blending machine setters, operators, and tenders	4	-	-	-	-	-	-
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	3	-	-	-	-	-	-
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	3	-	-	-	-	-	-
Inspectors, testers, sorters, samplers, and weighers	14	21.4	21.4	-	-	-	-
Inspectors, testers, sorters, samplers, and weighers	14	21.4	21.4	-	-	-	-
Packaging and filling machine operators and tenders	4	-	-	-	-	-	-
Packaging and filling machine operators and tenders	4	-	-	-	-	-	-
Painting workers	5	-	-	-	-	-	-
Painters, transportation equipment	3	-	-	-	-	-	-

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					Fires and explosions
		Falls		Exposure to harmful substances or environments			
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Miscellaneous production workers	47	10.6	10.6	8.5	6.4	—	8.5
Paper goods machine setters, operators, and tenders	3	—	—	—	—	—	—
Helpers--production workers	8	—	—	—	—	—	—
Production workers, all other	33	12.1	12.1	9.1	—	—	—
Supervisors, transportation and material moving workers	25	12.0	12.0	—	—	—	—
First-line supervisors/managers of helpers, laborers, and material movers, hand	10	—	—	—	—	—	—
First-line supervisors/managers of helpers, laborers, and material movers, hand	10	—	—	—	—	—	—
First-line supervisors/managers of transportation and material-moving machine and vehicle operators	14	—	—	—	—	—	—
First-line supervisors/managers of machine and vehicle operators	14	—	—	—	—	—	—
Air transportation workers	109	—	—	—	—	—	—
Aircraft pilots and flight engineers	109	—	—	—	—	—	—
Airline pilots, copilots, and flight engineers	22	—	—	—	—	—	—
Commercial pilots	87	—	—	—	—	—	—
Motor vehicle operators	1,021	3.9	3.1	2.8	1.4	1.1	—
Bus drivers	19	—	—	—	—	—	—
Bus drivers, transit and intercity	14	—	—	—	—	—	—
Bus drivers, school	5	—	—	—	—	—	—
Driver/sales workers and truck drivers	918	4.1	3.5	3.1	1.5	1.1	—
Driver/sales workers	45	—	—	—	—	—	—
Truck drivers, heavy and tractor-trailer	779	4.1	3.6	3.1	1.5	1.2	—
Truck drivers, light or delivery services	94	5.3	3.2	3.2	—	—	—
Taxi drivers and chauffeurs	68	—	—	—	—	—	—
Taxi drivers and chauffeurs	68	—	—	—	—	—	—
Miscellaneous motor vehicle operators	15	—	—	—	—	—	—
Motor vehicle operators, all other	15	—	—	—	—	—	—
Rail transportation workers	21	—	—	—	—	—	—
Locomotive engineers and operators	8	—	—	—	—	—	—
Locomotive engineers	6	—	—	—	—	—	—
Railroad brake, signal, and switch operators	4	—	—	—	—	—	—
Railroad brake, signal, and switch operators	4	—	—	—	—	—	—
Railroad conductors and yardmasters	8	—	—	—	—	—	—
Railroad conductors and yardmasters	8	—	—	—	—	—	—
Water transportation workers	46	—	—	—	—	—	—
Sailors and marine oilers	39	—	—	—	—	—	—
Sailors and marine oilers	39	—	—	—	—	—	—
Ship and boat captains and operators	6	—	—	—	—	—	—
Captains, mates, and pilots of water vessels	6	—	—	—	—	—	—
Other transportation workers	16	—	—	18.8	—	—	—
Parking lot attendants	3	—	—	—	—	—	—
Parking lot attendants	3	—	—	—	—	—	—
Service station attendants	8	—	—	—	—	—	—
Service station attendants	8	—	—	—	—	—	—
Transportation inspectors	3	—	—	—	—	—	—
Transportation inspectors	3	—	—	—	—	—	—
Material moving workers	273	11.0	9.9	6.6	4.4	—	3.3
Crane and tower operators	15	20.0	20.0	—	—	—	—
Crane and tower operators	15	20.0	20.0	—	—	—	—

See footnotes at end of table.

TABLE A-4. **Fatal occupational injuries by occupation and selected event or exposure (falls, exposure to harmful substances or environments, and fires and explosions), 2004 — Continued**

Occupation ¹	Total fatalities (number)	Event or exposure ² (percent)					
		Falls		Exposure to harmful substances or environments			Fires and explosions
		Total	Fall to lower level	Total	Contact with electric current	Exposure to caustic or noxious substances	
Dredge, excavating, and loading machine operators	14	-	-	-	-	-	-
Excavating and loading machine and dragline operators	12	-	-	-	-	-	-
Hoist and winch operators	3	-	-	-	-	-	-
Hoist and winch operators	3	-	-	-	-	-	-
Industrial truck and tractor operators	45	-	-	-	-	-	-
Industrial truck and tractor operators	45	-	-	-	-	-	-
Laborers and material movers, hand	144	17.4	15.3	7.6	5.6	-	4.2
Cleaners of vehicles and equipment	11	-	-	-	-	-	-
Laborers and freight, stock, and material movers, hand	127	18.1	16.5	7.9	5.5	-	4.7
Packers and packagers, hand	4	-	-	-	-	-	-
Pumping station operators	4	-	-	-	-	-	-
Wellhead pumpers	4	-	-	-	-	-	-
Refuse and recyclable material collectors	35	-	-	8.6	-	-	-
Refuse and recyclable material collectors	35	-	-	8.6	-	-	-
Miscellaneous material moving workers	9	-	-	-	-	-	-
Material moving workers, all other	9	-	-	-	-	-	-
Military specific occupations	71	-	-	9.9	-	-	-
Military officer special and tactical operations leaders/managers	9	-	-	-	-	-	-
Military officer special and tactical operations leaders/managers	9	-	-	-	-	-	-
First-line enlisted military supervisor/managers	6	-	-	-	-	-	-
First-line enlisted military supervisors/managers	6	-	-	-	-	-	-
First-line supervisors/managers of all other tactical operations specialists	4	-	-	-	-	-	-
Military enlisted tactical operations and air/weapons specialists and crew members	31	-	-	19.4	-	-	-
Military enlisted tactical operations and air/weapons specialists and crew members	31	-	-	19.4	-	-	-
Infantry	6	-	-	66.7	-	-	-
Military enlisted tactical operations and air/weapons specialists and crew members, all other	20	-	-	-	-	-	-

¹ Based on the 2000 Standard Occupational Classification System

² Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

NOTE: Totals for 2004 are revised and final. 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. There were 7 fatalities for which there was insufficient information to determine a specific occupation classification.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with state, New York City, District of Columbia, and Federal agencies, Census of Fatal Occupational Injuries.