

Fatal occupational injuries, annual average hours worked, total employment, and rates of fatal occupational injuries by selected worker characteristics, occupations, and industries, 2007

Characteristic	Total fatalities	Hours-based		Employment-based	
		Annual average hours worked ¹ (in millions)	Fatality rate ²	Total employment ³ (in thousands)	Fatality rate ⁴
Total	5,657	275,043	4.0	147,215	3.8
Employee status					
Wage and salary	4,613	255,682	3.5	136,670	3.4
Self-employed	1,044	18,810	11.0	10,544	9.8
Gender					
Men	5,228	158,049	6.4	79,255	6.6
Women	429	116,468	0.7	67,958	0.6
Age					
16 to 17	20	2,001	1.9	2,287	0.9
18 to 19	97	4,897	3.5	3,704	2.6
20 to 24	424	24,137	3.4	14,353	3.0
25 to 34	991	61,451	3.1	32,020	3.1
35 to 44	1,168	67,703	3.4	34,527	3.4
45 to 54	1,425	68,373	4.1	34,601	4.1
55 to 64	934	37,824	4.9	20,110	4.6
Over 65	574	8,370	13.5	5,614	10.2
Race					
White	3,867	189,819	3.9	101,593	3.8
Black	609	29,035	4.2	15,658	3.9
Hispanics	937	38,373	4.8	20,504	4.6
Civilian Occupations					
Management, professional, and related occupations					
Management, business, and financial operations occupations	810	101,299	1.6	51,788	1.6
Management occupations	556	45,392	2.4	21,577	2.6
Farm, ranch, and other agricultural managers	525	33,295	3.2	15,486	3.4
Farmers and ranchers	8	482	3.3	204	3.9
Construction managers	293	1,630	36.0	742	39.5
Food service managers	69	2,537	5.4	1,176	5.9
Business and financial operations occupations	18	2,253	1.6	1,002	1.8
Professional and related occupations	31	12,073	0.5	6,091	0.5
Architecture and engineering occupations	254	55,852	0.9	30,210	0.8
Education, training, and library occupations	51	6,039	1.7	2,932	1.7
Arts, design, entertainment, sports, and media occupations	22	13,951	0.3	8,485	0.3
Healthcare practitioner and technical occupations	52	4,977	2.0	2,789	1.9
	66	13,546	0.9	7,248	0.9
Service occupations					
Protective service occupations	739	40,966	3.4	24,137	3.1
Fire fighters (exc. Supervisors)	346	6,296	10.0	3,071	11.3
Police and sheriff's patrol officers	50	771	7.0	288	17.4
Security guards and gaming surveillance officers	146	1,431	19.8	669	21.8
Food preparation and serving related occupations	84	1,702	9.9	891	9.4
Building and grounds cleaning and maintenance occupations	61	12,011	1.0	7,699	0.8
Janitors and building cleaners	255	9,402	5.4	5,469	4.7
Grounds maintenance workers	45	3,553	2.5	2,080	2.2
Personal care and service occupations	160	2,366	13.5	1,332	12.0
	63	7,861	1.6	4,760	1.3
Sales and office occupations					
Sales and related occupations	461	65,453	1.4	36,212	1.3
First-line supervisors/managers of retail sales workers	327	30,786	2.1	16,698	2.0
First-line supervisors/managers of non-retail sales workers	134	7,283	3.7	3,445	3.9
Cashiers	22	2,888	1.5	1,333	1.7
Retail salespersons	44	4,423	2.0	3,022	1.5
Office and administrative support occupations	46	5,787	1.6	3,492	1.3
	134	34,711	0.8	19,513	0.7
Natural resources, construction, and maintenance occupations					
Farming, fishing, and forestry occupations	1,810	31,079	11.5	15,740	11.4
Miscellaneous agricultural workers	258	1,889	25.7	960	25.4
Fishers and related fishing workers	124	1,335	16.3	683	16.1
Logging workers	38	69	109.5	34	111.8
	76	171	89.1	88	86.4
Construction and extraction occupations	1,172	18,393	12.6	9,535	12.3
Carpenters	109	3,436	6.3	1,824	6.0
Construction laborers	345	3,270	20.8	1,771	19.5
Operating engineers and other construction equipment operators	45	851	10.6	411	10.9
Electricians	95	1,849	10.1	912	10.4
Painters, construction and maintenance	42	1,268	6.6	714	5.9
Pipelayers, plumbers, pipefitters, and steamfitters	50	1,423	7.0	697	7.2

See footnotes at the end of table.

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		Annual average hours worked ¹ (in millions)	Fatality rate ²	Total employment ³ (in thousands)	Fatality rate ⁴
Roofers	79	473	33.4	269	29.4
Structural iron and steel workers	40	167	47.8	88	45.5
Helpers, construction trades	18	204	15.7	117	13.7
Installation, maintenance, and repair occupations	380	10,740	7.1	5,245	7.2
First-line supervisors/managers of mechanics, installers, and repair	24	720	6.7	330	7.3
Automotive service technicians and mechanics	36	1,801	3.9	879	4.1
Heating, air conditioning, and refrigeration mechanics and installer	33	818	8.1	403	8.2
Electrical power-line installers and repairers	30	217	27.6	103	29.1
Production, transportation, and material moving occupations	1,769	35,942	9.8	18,171	9.7
Production occupations	266	18,782	2.8	9,395	2.8
First-line supervisors/managers of production and operating workers	30	2,027	3.0	941	3.2
Welding, soldering, and brazing workers	42	1,219	6.9	577	7.3
Transportation and material moving occupations	1,503	17,175	17.3	8,776	17.1
Aircraft pilots and flight engineers	87	232	70.6	123	70.7
Driver/sales workers and truck drivers	976	7,443	26.1	3,460	28.2
Taxi drivers and chauffeurs	63	638	19.4	333	18.9
Industrial truck and tractor operators	45	1,149	7.7	571	7.7
Laborers and freight, stock, and material movers, hand	132	3,291	7.9	1,877	7.0
Refuse and recyclable material collectors	18	150	24.0	79	22.8
Industry					
Private industry	5,112	236,433	4.3	124,994	4.1
Goods producing	2,372	61,497	7.7	30,395	7.8
Natural resources and mining	768	5,939	25.4	2,775	27.2
Agriculture, Forestry, Fishing, and Hunting	585	4,229	27.0	2,045	27.9
Crop production	257	1,781	28.1	895	27.9
Animal production	165	1,877	16.9	852	18.7
Logging	89	196	90.8	101	88.1
Fishing, hunting, and trapping	37	90	82.2	44	84.1
Support activities for agriculture and forestry	28	267	21.0	136	20.6
Mining	183	1,710	21.4	730	25.1
Oil and gas extraction	15	225	13.3	97	15.5
Coal mining	28	225	24.8	95	29.5
Support activities for mining	113	918	24.6	389	29.0
Utilities	34	1,194	5.7	851	4.0
Construction	1,204	22,187	10.8	11,416	10.5
Manufacturing	400	33,371	2.4	16,204	2.5
Food manufacturing	51	3,235	3.2	1,597	3.2
Animal food, grain and oilseed milling	5	300	3.3	140	3.6
Animal slaughtering and processing	14	979	2.9	477	2.9
Chemical manufacturing	24	2,573	1.9	1,226	2.0
Plastics and rubber products manufacturing	20	1,483	2.7	723	2.8
Nonmetallic mineral product manufacturing	39	1,145	6.8	543	7.2
Cement, concrete, lime, and gypsum product manufacturing	32	499	12.8	233	13.7
Primary metal manufacturing	20	1,118	3.6	524	3.8
Fabricated metal product manufacturing	71	2,841	5.0	1,366	5.2
Machinery manufacturing	25	2,722	1.8	1,305	1.9
Transportation equipment manufacturing	33	4,473	1.5	2,166	1.5
Wood product manufacturing	39	1,028	7.6	507	7.7
Service providing	2,740	174,338	3.1	94,601	2.9
Trade, transportation, and utilities	1,479	50,529	5.8	26,951	5.5
Wholesale Trade	207	8,993	4.5	4,357	4.7
Merchant wholesalers, durable goods	104	4,143	5.0	2,247	4.6
Machinery, equipment, and supplies, merchant wholesalers	30	1,010	5.7	485	6.2
Merchant wholesalers, nondurable goods	93	4,027	4.5	1,946	4.7
Groceries and related products, merchant wholesalers	31	1,754	3.4	829	3.7
Retail Trade	348	29,571	2.4	16,478	2.1
Motor vehicle and parts dealers	62	4,214	2.9	2,005	3.1
Automobile dealers	28	2,921	1.9	1,370	2.0
Auto parts, accessories, and tire stores	26	940	5.5	462	5.6
Building material and garden supply stores	35	2,072	3.4	1,524	2.3
Food and beverage stores	90	5,018	3.6	2,938	3.1
Grocery stores	73	4,392	3.3	2,606	2.8
Gasoline stations	43	939	9.2	507	8.5
Miscellaneous store retailers	15	1,927	1.6	1,130	1.3
Nonstore retailers	19	1,164	3.3	696	2.7
Transportation and Warehousing	890	10,771	16.5	5,265	16.9
Air transportation	41	955	8.4	516	7.9
Rail transportation	16	545	5.9	252	6.3
Water transportation	22	142	31.0	67	32.8
Truck transportation	583	4,481	26.0	2,036	28.6

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Transit and ground passenger transportation	77	1,105	13.9	598	12.9
Bus service and urban transit	27	623	8.7	363	7.4
Taxi and limousine service	50	482	20.7	235	21.3
Services incidental to transportation	73	1,255	11.6	598	12.2
Warehousing and storage	30	816	7.4	423	7.1
Information	79	6,642	2.3	3,372	2.3
Publishing industries, except Internet	43	1,649	5.0	870	4.8
Newspaper publishers	39	737	10.0	418	9.1
Financial activities	119	19,856	1.2	10,249	1.2
Finance and Insurance	46	14,078	0.7	7,161	0.6
Real Estate and Rental and Leasing	73	5,758	2.5	3,089	2.4
Real estate	50	4,804	2.1	2,595	1.9
Professional and business services	476	29,271	3.3	15,219	3.1
Professional and Technical Services	77	17,705	0.9	8,985	0.9
Administrative and waste services	395	11,547	6.8	6,233	6.3
Employment services	57	1,863	6.1	1,037	5.5
Investigation and security services	49	1,498	6.5	751	6.5
Services to buildings and dwellings (except cleaning during construction and immediately after construction)	38	2,242	3.4	1,317	2.9
Landscaping services	157	2,344	13.4	1,276	12.3
Waste management and remediation services	73	728	20.1	350	20.9
Educational and Health Services	149	35,545	0.8	19,904	0.7
Educational Services	34	6,344	1.0	3,809	0.9
Health Care and Social Assistance	115	29,208	0.8	16,095	0.7
Ambulatory health care services	48	10,898	0.9	6,013	0.8
Hospitals	29	9,608	0.6	5,169	0.6
Nursing and residential care facilities	18	4,084	0.9	2,256	0.8
Social assistance	20	4,577	0.7	2,657	0.8
Leisure and hospitality	260	20,121	2.5	11,972	2.2
Arts, Entertainment, and Recreation	96	4,099	4.5	2,450	3.9
Independent artists, performing arts, spectator sports, and related industries	47	1,267	6.9	764	6.2
Other amusement, gambling, and recreation industries	45	2,523	3.6	1,508	3.0
Accommodation and Food Services	164	16,000	2.0	9,523	1.7
Accommodation	34	2,727	2.5	1,452	2.3
Traveler accommodation	29	2,572	2.3	1,364	2.1
Food services and drinking places	130	13,294	1.9	8,070	1.6
Restaurants and other food services	103	12,826	1.6	7,810	1.3
Drinking places, alcoholic beverages	27	458	11.8	260	10.4
Other Services (Except Public Administration)	175	12,374	2.7	6,934	2.5
Automotive repair and maintenance	55	2,554	4.3	1,254	4.4
Personal and laundry services	42	3,749	2.2	2,189	1.9
Membership associations and organizations	39	3,328	1.9	1,836	2.1
Government	545	38,319	2.3	22,221	2.5
Federal	111	6,577	1.5	4,566	2.4
State	110	11,574	1.9	6,335	1.7
Local	321	20,143	2.8	11,270	2.8

¹ The total hours worked figures are annual average estimates of total at work multiplied by average hours for civilians, 16 years of age and older, from the Current Population Survey (CPS), 2007.

² The rate represents the number of fatal occupational injuries per 100,000 full-time equivalent workers and were calculated as:

$(N/EH) \times 200,000,000$ where

N = number of fatal injuries

EH = total hours worked by all employees during the calendar year

200,000,000 = base for 100,000 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

³ The employment figures, except for military, are annual average estimates of employed civilians, 16 years of age and older, from the Current Population Survey (CPS), 2007. The resident military figure, obtained from the Department of Defense, was added to the CPS employment total.

⁴ The rate represents the number of fatal occupational injuries per 100,000 employed workers and was calculated as follows: $(N/W) \times 100,000$, where N = the number of fatal work injuries, and W = the number of employed workers.

NOTE: Totals for major categories may include subcategories not shown separately. Figures may not add to totals because of rounding. There were 18 fatal injuries to workers under the age of 16 years, 68 fatal injuries to volunteer workers, and 64 fatal injuries to members of the resident military that were not included in the respective rate calculations to maintain consistency with the CPS employment. The total fatalities column represents total published fatalities before the exclusions.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 2007