

Table 42. Occupational fatal injuries and rates, by industry, sex, age, race, and Hispanic origin: United States, selected years 1995-2010

(Data are compiled from various federal, state, and local administrative sources)

Characteristic	1995	2000	2001 ¹	2004	2005	2006	2007	2008	2009	2010	Deaths per 100,000 employed workers ²	
											Deaths per full-time equivalent workers ³	
Total workforce.....	4.9	4.3	4.3	4.1	4.0	4.0	3.8	3.7	3.5	3.6		
Sex												
Male.....	8.3	7.4	7.4	7.1	6.9	6.9	6.6	6.1	5.7	5.8		
Female.....	0.9	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6		
Age ⁴												
16-17 years.....	1.6	1.6	1.3	1.1	1.4	0.9	0.9	2.5	*	3.0		
18-19 years.....	3.3	2.7	2.8	2.7	2.9	2.8	2.6	2.4	2.5	2.8		
20-24 years.....	3.8	3.2	3.2	3.0	2.8	2.7	3.0	2.8	2.4	2.2		
25-34 years.....	4.3	3.8	3.8	3.2	3.3	3.3	3.1	2.8	2.4	2.7		
35-44 years.....	4.6	4.0	4.0	3.9	3.6	3.7	3.4	3.3	3.0	2.9		
45-54 years.....	5.2	4.4	4.5	4.3	4.2	4.2	4.1	3.8	3.6	3.6		
55-64 years.....	7.2	6.1	5.5	5.2	5.1	5.0	4.6	4.7	4.3	4.7		
65 years and over.....	14.0	12.0	12.7	11.8	11.3	11.2	10.2	12.7	12.1	11.9		
Race and Hispanic origin ⁵												
Hispanic or Latino.....	5.5	5.6	6.0	5.0	4.9	5.0	4.6	4.2	4.0	3.9		
Not Hispanic or Latino.....	---	---	---	---	---	---	---	---	---	---		
White.....	---	4.2	4.2	4.1	3.9	4.0	3.8	3.8	3.5	3.7		
Black or African American.....	---	3.8	3.8	3.7	3.9	3.7	3.9	3.7	3.1	3.0		
Industry ⁶												
Private sector.....	---	---	---	4.4	4.3	4.3	4.1	4.0	3.7	3.8		
Agriculture, forestry, fishing, and hunting.....	---	---	---	30.5	32.5	30.0	27.9	30.4	27.2	27.9		
Mining.....	---	---	---	28.3	25.6	28.1	25.1	18.1	12.4	19.8		
Utilities.....	---	---	---	6.1	3.6	6.3	4.0	3.9	1.7	2.8		
Construction.....	---	---	---	12.0	11.1	10.9	10.5	9.7	9.9	9.8		
Manufacturing.....	---	---	---	2.8	2.4	2.8	2.5	2.5	2.3	2.3		
Wholesale trade.....	---	---	---	4.5	4.6	4.9	4.7	4.4	5.0	4.9		
Retail trade.....	---	---	---	2.3	2.4	2.2	2.1	2.0	2.2	2.2		
Transportation and warehousing.....	---	---	---	18.0	17.7	16.8	16.9	14.9	13.3	13.7		
Information.....	---	---	---	1.7	2.0	2.0	2.3	1.5	1.1	1.5		
Finance and insurance.....	---	---	---	0.7	0.6	0.6	0.6	0.3	0.5	0.4		
Real estate and rental and leasing.....	---	---	---	2.4	1.9	2.6	2.4	3.1	3.0	3.6		
Professional, scientific, and technical services.....	---	---	---	0.9	1.0	0.9	0.9	0.8	1.0	0.9		
Management of companies and enterprises.....	---	---	---	*	*	*	*	*	*	*		
Administrative and support and waste management and remediation services.....	---	---	---	6.7	7.2	6.6	6.3	6.1	6.7	5.3		
Educational services.....	---	---	---	1.3	1.3	1.3	0.9	0.9	0.7	0.8		
Health care and social assistance.....	---	---	---	0.8	0.7	0.8	0.7	0.7	0.8	0.9		
Arts, entertainment, and recreation.....	---	---	---	4.3	3.2	3.5	3.9	4.0	3.6	3.6		
Accommodation and food services.....	---	---	---	1.6	1.5	2.0	1.7	1.8	1.9	2.0		
Other services (except public administration).....	---	---	---	3.0	3.0	2.6	2.5	2.6	2.8	3.0		
Government ⁷	---	---	---	2.5	2.4	2.4	2.5	2.4	1.9	2.2		
Number of deaths ⁸												
Total workforce.....	6,275	5,920	5,915	5,764	5,734	5,840	5,657	5,214	4,551	4,690		
Sex												
Male.....	5,736	5,471	5,442	5,349	5,328	5,396	5,228	4,827	4,216	4,322		
Female.....	539	449	473	415	406	444	429	387	335	368		
Age ⁴												
Under 16 years.....	26	29	20	13	23	11	18	11	13	16		
16-17 years.....	42	44	33	25	31	21	20	23	14	18		
18-19 years.....	130	127	122	103	111	106	97	66	57	56		
20-24 years.....	486	446	441	421	403	390	424	353	275	245		
25-34 years.....	1,409	1,163	1,142	996	1,017	1,041	991	850	704	785		
35-44 years.....	1,571	1,473	1,478	1,342	1,243	1,288	1,168	1,113	908	868		
45-54 years.....	1,256	1,313	1,368	1,384	1,389	1,417	1,425	1,292	1,173	1,169		
55-64 years.....	827	831	775	907	933	963	934	920	853	948		
65 years and over.....	515	488	530	569	578	599	574	580	551	582		
Unspecified.....	13	6	6	4	6	4	6	6	3	3		
Race and Hispanic origin ⁵												
White.....	5,120	---	---	---	---	---	---	---	---	---		
Black or African American.....	697	---	---	---	---	---	---	---	---	---		
Hispanic or Latino.....	619	815	895	902	923	990	937	804	713	707		
Not Hispanic or Latino.....	5,656	5,105	5,020	4,862	4,809	4,850	4,734	4,410	3,838	3,983		
White.....	4,599	4,244	4,175	4,066	3,977	4,019	3,867	3,663	3,204	3,363		
Black or African American.....	684	575	565	546	584	565	609	533	421	412		

American Indian or Alaska Native.....	27	33	48	28	50	46	29	32	33	32
Asian ⁹	188	171	173	168	154	148	166	145	141	143
Native Hawaiian or Other Pacific Islander	---	14	9	12	9	11	6	7	7	6
Multiple races.....	---	---	6	4	---	11	10	6	7	8
Other races or not reported.....	158	68	44	38	35	50	33	24	25	19

Industry⁶

Private sector.....	---	---	---	5,229	5,214	5,320	5,112	4,670	4,090	4,206
Agriculture, forestry, fishing, and hunting.....	---	---	---	669	715	655	585	672	575	621
Mining.....	---	---	---	152	159	192	183	176	99	172
Utilities.....	---	---	---	51	30	53	34	37	16	26
Construction.....	---	---	---	1,234	1,192	1,239	1,204	975	834	774
Manufacturing.....	---	---	---	463	393	456	400	411	319	329
Wholesale trade.....	---	---	---	205	209	222	207	180	190	191
Retail trade.....	---	---	---	377	400	359	348	301	307	311
Transportation and warehousing.....	---	---	---	840	885	860	890	796	633	661
Information.....	---	---	---	55	65	66	79	47	33	43
Finance and insurance.....	---	---	---	46	42	44	46	24	33	24
Real estate and rental and leasing.....	---	---	---	70	57	82	73	82	75	89
Professional, scientific, and technical services.....	---	---	---	77	83	78	77	69	85	76
Management of companies and enterprises.....	---	---	---	*	*	*	4	*	*	*
Administrative and support and waste management and remediation services....	---	---	---	373	398	381	395	332	336	288
Educational services.....	---	---	---	44	46	49	34	28	27	30
Health care and social assistance.....	---	---	---	113	104	129	115	113	123	141
Arts, entertainment, and recreation.....	---	---	---	99	77	80	96	92	80	84
Accommodation and food services.....	---	---	---	148	136	185	164	146	151	154
Other services (except public administration).....	---	---	---	207	210	183	175	178	173	192
Government ⁶	---	---	---	535	520	520	545	544	461	484

---Data not available.

*Estimates are unreliable or data do not meet publication criteria.

¹2,886 fatal work injuries due to the September 11 terrorist attacks are not included.

²Numerator excludes deaths to workers under age 16.

Employment data in denominators are average annual estimates of employed civilians aged 16 and over from the CPS, regardless of the number of hours worked. These data are supplemented by data for the resident military, which was supplied by the U.S. Census Bureau (1995-1998) and the Department of Defense (1999-2008). Starting with 2004 data, rates are taken directly from the U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, revised annual data. Starting with 2008 data, employment data in denominators are based on hours. See Appendix I, Census of Fatal Occupational Injuries (CFOI).

³Numerator excludes deaths to workers under 16 years of age, volunteers, and members of the resident military. Starting with 2008 data, fatal injury rates are based on hours, rather than employment, and consequently are not directly comparable with earlier data. Hours-based rates standardize the amount of exposure and are considered more accurate than employment-based rates.

Employment- and hours-based rates will be similar for groups of workers who usually work full-time. Differences in these rates are more likely for groups which have a high percentage of part-time workers, such as younger workers.

Hours worked are converted to full-time equivalent workers.

200,000,000 hours worked equals 100,000 full-time equivalent workers, working 40 hours per week, 50 weeks per year.

Hours worked data are provided by the Current Population Survey (CPS).

For more information see <http://www.bls.gov/iif/oshnotice10.htm>.

⁴Employment data for Under 16 years and Unspecified were not available for the calculation of rates.

⁵Employment data for American Indian or Alaska Native workers and, prior to 2003, Asian or Pacific Islander workers, were not available for the calculation of rates. Employment data for non-Hispanic white and non-Hispanic black workers were not available before the year 2000. In 1999 and earlier years, the race groups white and black included persons of Hispanic and non-Hispanic origin.

⁶Starting with 2003 data, establishments were classified by industry according to the North American Industry Classification System (NAICS). Prior to 2003, the Standard Industrial Classification (SIC) system was used. Because of substantial differences between these systems, industry data classified by these two systems are not comparable.

Industry data for 1995-2002 classified by SIC are available in *Health, United States, 2004*, Table 49, available from: <http://www.cdc.gov/nchs/hus.htm>. See Appendix II, Industry of employment.

⁷Includes fatal work injuries to workers employed by governmental organizations, regardless of industry.

⁸Includes fatal work injuries to all workers, regardless of age.

⁹In 1999 and earlier years, category also included Native Hawaiian or Other Pacific Islander.

NOTES: Fatal work injuries and rates are based on revised data and may differ from originally published data from the Census of Fatal Occupational Injuries (CFOI). See Appendix I, Census of Fatal Occupational Injuries (CFOI).

CFOI began collecting fatal work injury data in 1992. For data for prior years, see CDC. Fatal Occupational Injuries--United States, 1980-1997. MMWR 2001;50(16):317-20.

Available from: <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5016a4.htm>,

which reports trend data from the National Traumatic Occupational Fatalities (NTOF) surveillance system.

NTOF was established at the National Institute of Occupational Safety and Health (NIOSH)

to monitor occupational injury deaths through death certificates.

Because of methodological differences between CFOI and NTOF, the data are not directly comparable.

SOURCE: Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries. Revised annual data. See Appendix I, Census of Fatal Occupational Injuries (CFOI).