

Table 42. Occupational fatal injuries and rates, by industry, sex, age, race, and Hispanic origin: United States, selected years 1995-2009

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

| Characteristic   | 1995 | 2000 | 2001 <sup>1</sup> | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--|------|------|-------------------|------|------|------|------|------|------|
|  |      |      |                   |      |      |      |      |      |      |
| Total workforce.....   | 4.9  | 4.3  | 4.3               | 4.1  | 4.0  | 4.0  | 3.8  | 3.7  | 3.5  |
| Sex  |      |      |                   |      |      |      |      |      |      |
| Male.....  | 8.3  | 7.4  | 7.4               | 7.1  | 6.9  | 6.9  | 6.6  | 6.1  | 5.7  |
| Female.....  | 0.9  | 0.7  | 0.7               | 0.6  | 0.6  | 0.7  | 0.6  | 0.6  | 0.6  |
| Age <sup>4</sup>   |      |      |                   |      |      |      |      |      |      |
| 16-17 years.....   | 1.6  | 1.6  | 1.3               | 1.1  | 1.4  | 0.9  | 0.9  | 2.5  | *    |
| 18-19 years.....   | 3.3  | 2.7  | 2.8               | 2.7  | 2.9  | 2.8  | 2.6  | 2.4  | 2.5  |
| 20-24 years.....   | 3.8  | 3.2  | 3.2               | 3.0  | 2.8  | 2.7  | 3.0  | 2.8  | 2.4  |
| 25-34 years.....   | 4.3  | 3.8  | 3.8               | 3.2  | 3.3  | 3.3  | 3.1  | 2.8  | 2.4  |
| 35-44 years.....   | 4.6  | 4.0  | 4.0               | 3.9  | 3.6  | 3.7  | 3.4  | 3.3  | 3.0  |
| 45-54 years.....   | 5.2  | 4.4  | 4.5               | 4.3  | 4.2  | 4.2  | 4.1  | 3.8  | 3.6  |
| 55-64 years.....   | 7.2  | 6.1  | 5.5               | 5.2  | 5.1  | 5.0  | 4.6  | 4.7  | 4.3  |
| 65 years and over.....   | 14.0 | 12.0 | 12.7              | 11.8 | 11.3 | 11.2 | 10.2 | 12.7 | 12.1 |
| Race and Hispanic origin <sup>5</sup>  |      |      |                   |      |      |      |      |      |      |
| Hispanic or Latino.....  | 5.5  | 5.6  | 6.0               | 5.0  | 4.9  | 5.0  | 4.6  | 4.2  | 4.0  |
| Not Hispanic or Latino.....  | ---  | ---  | ---               | ---  | ---  | ---  | ---  | ---  | ---  |
| White.....   | ---  | 4.2  | 4.2               | 4.1  | 3.9  | 4.0  | 3.8  | 3.8  | 3.5  |
| Black or African American.....   | ---  | 3.8  | 3.8               | 3.7  | 3.9  | 3.7  | 3.9  | 3.7  | 3.1  |
| Industry <sup>6</sup>  |      |      |                   |      |      |      |      |      |      |
| Private sector.....  | ---  | ---  | ---               | 4.4  | 4.3  | 4.3  | 4.1  | 4.0  | 3.7  |
| Agriculture, forestry, fishing,<br>and hunting.....                              | ---  | ---  | ---               | 30.5 | 32.5 | 30.0 | 27.9 | 30.4 | 27.2 |
| Mining.....  | ---  | ---  | ---               | 28.3 | 25.6 | 28.1 | 25.1 | 18.1 | 12.4 |
| Utilities.....   | ---  | ---  | ---               | 6.1  | 3.6  | 6.3  | 4.0  | 3.9  | 1.7  |
| Construction.....  | ---  | ---  | ---               | 12.0 | 11.1 | 10.9 | 10.5 | 9.7  | 9.9  |
| Manufacturing.....   | ---  | ---  | ---               | 2.8  | 2.4  | 2.8  | 2.5  | 2.5  | 2.3  |
| Wholesale trade.....   | ---  | ---  | ---               | 4.5  | 4.6  | 4.9  | 4.7  | 4.4  | 5.0  |
| Retail trade.....  | ---  | ---  | ---               | 2.3  | 2.4  | 2.2  | 2.1  | 2.0  | 2.2  |
| Transportation and warehousing.....  | ---  | ---  | ---               | 18.0 | 17.7 | 16.8 | 16.9 | 14.9 | 13.3 |
| Information.....   | ---  | ---  | ---               | 1.7  | 2.0  | 2.0  | 2.3  | 1.5  | 1.1  |
| Finance and insurance.....   | ---  | ---  | ---               | 0.7  | 0.6  | 0.6  | 0.6  | 0.3  | 0.5  |
| Real estate and rental and leasing.....  | ---  | ---  | ---               | 2.4  | 1.9  | 2.6  | 2.4  | 3.1  | 3.0  |
| Professional, scientific, and<br>technical services.....                         | ---  | ---  | ---               | 0.9  | 1.0  | 0.9  | 0.9  | 0.8  | 1.0  |
| Management of companies and<br>enterprises.....                                  | ---  | ---  | ---               | *    | *    | *    | *    | *    | *    |
| Administrative and support and waste<br>management and remediation services..... | ---  | ---  | ---               | 6.7  | 7.2  | 6.6  | 6.3  | 6.1  | 6.7  |
| Educational services.....  | ---  | ---  | ---               | 1.3  | 1.3  | 1.3  | 0.9  | 0.9  | 0.7  |
| Health care and social assistance.....   | ---  | ---  | ---               | 0.8  | 0.7  | 0.8  | 0.7  | 0.7  | 0.8  |
| Arts, entertainment, and recreation.....   | ---  | ---  | ---               | 4.3  | 3.2  | 3.5  | 3.9  | 4.0  | 3.6  |
| Accommodation and food services.....   | ---  | ---  | ---               | 1.6  | 1.5  | 2.0  | 1.7  | 1.8  | 1.9  |
| Other services (except public<br>administration).....                            | ---  | ---  | ---               | 3.0  | 3.0  | 2.6  | 2.5  | 2.6  | 2.8  |

|  |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Government <sup>7</sup> .....  | ---   | ---   | ---   | 2.5   | 2.4   | 2.4   | 2.5   | 2.4   | 1.9   |
| Number of deaths <sup>8</sup>  |       |       |       |       |       |       |       |       |       |
| Total workforce.....   | 6,275 | 5,920 | 5,915 | 5,764 | 5,734 | 5,840 | 5,657 | 5,214 | 4,551 |
| Sex  |       |       |       |       |       |       |       |       |       |
| Male.....  | 5,736 | 5,471 | 5,442 | 5,349 | 5,328 | 5,396 | 5,228 | 4,827 | 4,216 |
| Female.....  | 539   | 449   | 473   | 415   | 406   | 444   | 429   | 387   | 335   |
| Age <sup>4</sup>   |       |       |       |       |       |       |       |       |       |
| Under 16 years.....  | 26    | 29    | 20    | 13    | 23    | 11    | 18    | 11    | 13    |
| 16-17 years.....   | 42    | 44    | 33    | 25    | 31    | 21    | 20    | 23    | 14    |
| 18-19 years.....   | 130   | 127   | 122   | 103   | 111   | 106   | 97    | 66    | 57    |
| 20-24 years.....   | 486   | 446   | 441   | 421   | 403   | 390   | 424   | 353   | 275   |
| 25-34 years.....   | 1,409 | 1,163 | 1,142 | 996   | 1,017 | 1,041 | 991   | 850   | 704   |
| 35-44 years.....   | 1,571 | 1,473 | 1,478 | 1,342 | 1,243 | 1,288 | 1,168 | 1,113 | 908   |
| 45-54 years.....   | 1,256 | 1,313 | 1,368 | 1,384 | 1,389 | 1,417 | 1,425 | 1,292 | 1,173 |
| 55-64 years.....   | 827   | 831   | 775   | 907   | 933   | 963   | 934   | 920   | 853   |
| 65 years and over.....   | 515   | 488   | 530   | 569   | 578   | 599   | 574   | 580   | 551   |
| Unspecified.....   | 13    | 6     | 6     | 4     | 6     | 4     | 6     | 6     | 3     |
| Race and Hispanic origin <sup>5</sup>  |       |       |       |       |       |       |       |       |       |
| White.....   | 5,120 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| Black or African American.....   | 697   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| Hispanic or Latino.....  | 619   | 815   | 895   | 902   | 923   | 990   | 937   | 804   | 713   |
| Not Hispanic or Latino.....  | 5,656 | 5,105 | 5,020 | 4,862 | 4,809 | 4,850 | 4,734 | 4,410 | 3,838 |
| White.....   | 4,599 | 4,244 | 4,175 | 4,066 | 3,977 | 4,019 | 3,867 | 3,663 | 3,204 |
| Black or African American.....   | 684   | 575   | 565   | 546   | 584   | 565   | 609   | 533   | 421   |
| American Indian or Alaska Native.....  | 27    | 33    | 48    | 28    | 50    | 46    | 29    | 32    | 33    |
| Asian <sup>9</sup> .....   | 188   | 171   | 173   | 168   | 154   | 148   | 166   | 145   | 141   |
| Native Hawaiian or Other Pacific Islander...                                     | ---   | 14    | 9     | 12    | 9     | 11    | 6     | 7     | 7     |
| Multiple races.....  | ---   | ---   | 6     | 4     | ---   | 11    | 10    | 6     | 7     |
| Other races or not reported.....   | 158   | 68    | 44    | 38    | 35    | 50    | 33    | 24    | 25    |
| Industry <sup>6</sup>  |       |       |       |       |       |       |       |       |       |
| Private sector.....  | ---   | ---   | ---   | 5,229 | 5,214 | 5,320 | 5,112 | 4,670 | 4,090 |
| Agriculture, forestry, fishing,<br>and hunting.....                              | ---   | ---   | ---   | 669   | 715   | 655   | 585   | 672   | 575   |
| Mining.....  | ---   | ---   | ---   | 152   | 159   | 192   | 183   | 176   | 99    |
| Utilities.....   | ---   | ---   | ---   | 51    | 30    | 53    | 34    | 37    | 16    |
| Construction.....  | ---   | ---   | ---   | 1,234 | 1,192 | 1,239 | 1,204 | 975   | 834   |
| Manufacturing.....   | ---   | ---   | ---   | 463   | 393   | 456   | 400   | 411   | 319   |
| Wholesale trade.....   | ---   | ---   | ---   | 205   | 209   | 222   | 207   | 180   | 190   |
| Retail trade.....  | ---   | ---   | ---   | 377   | 400   | 359   | 348   | 301   | 307   |
| Transportation and warehousing.....  | ---   | ---   | ---   | 840   | 885   | 860   | 890   | 796   | 633   |
| Information.....   | ---   | ---   | ---   | 55    | 65    | 66    | 79    | 47    | 33    |
| Finance and insurance.....   | ---   | ---   | ---   | 46    | 42    | 44    | 46    | 24    | 33    |
| Real estate and rental and leasing.....  | ---   | ---   | ---   | 70    | 57    | 82    | 73    | 82    | 75    |
| Professional, scientific, and<br>technical services.....                         | ---   | ---   | ---   | 77    | 83    | 78    | 77    | 69    | 85    |
| Management of companies and<br>enterprises.....                                  | ---   | ---   | ---   | *     | *     | *     | 4     | *     | *     |
| Administrative and support and waste<br>management and remediation services..... | ---   | ---   | ---   | 373   | 398   | 381   | 395   | 332   | 336   |
| Educational services.....  | ---   | ---   | ---   | 44    | 46    | 49    | 34    | 28    | 27    |

|   |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Health care and social assistance.....                | --- | --- | --- | 113 | 104 | 129 | 115 | 113 | 123 |
| Arts, entertainment, and recreation.....              | --- | --- | --- | 99  | 77  | 80  | 96  | 92  | 80  |
| Accommodation and food services.....                  | --- | --- | --- | 148 | 136 | 185 | 164 | 146 | 151 |
| Other services (except public<br>administration)..... | --- | --- | --- | 207 | 210 | 183 | 175 | 178 | 173 |
| Government <sup>6</sup> .....                         | --- | --- | --- | 535 | 520 | 520 | 545 | 544 | 461 |

---Data not available.

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

<sup>1</sup>2,886 fatal work injuries due to the September 11 terrorist attacks are not included.

<sup>2</sup>Numerator excludes deaths to workers under the age of 16 years.

Employment data in denominators are average annual estimates of employed civilians 16 years of age 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).

<sup>3</sup>Numerator excludes deaths to workers under the age of 16 years, 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>.

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

<sup>5</sup>Employment 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.

<sup>6</sup>Starting 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.

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

<sup>8</sup>Includes fatal work injuries to all workers, regardless of age.

<sup>9</sup>In 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).

*Health, United States 2010, web update*