

**Table 10. Number, percent, and incidence rate<sup>1</sup> of nonfatal occupational injuries and illnesses involving days away from work<sup>2</sup> by selected worker and case characteristics and musculoskeletal disorders<sup>3</sup>, All United States, private industry, 2008**

| Characteristic                            | Private industry <sup>4,5,6</sup> |         |       | Musculoskeletal disorders |         |      |
|---|-----------------------------------|---------|-------|---------------------------|---------|------|
|   | Number                            | Percent | Rate  | Number                    | Percent | Rate |
| Total:                                    | 1,078,140                         | 100.0   | 113.3 | 317,440                   | 100.0   | 33.4 |
| Gender:                                   |                                   |         |       |                           |         |      |
| Male                                      | 688,790                           | 63.9    | 124.8 | 196,710                   | 62.0    | 35.6 |
| Female                                    | 384,930                           | 35.7    | 97.3  | 120,150                   | 37.8    | 30.4 |
| Age:                                      |                                   |         |       |                           |         |      |
| Under 14                                  | --                                | --      | --    | --                        | --      | --   |
| 14 to 15                                  | 130                               | --      | --    | 60                        | --      | --   |
| 16 to 19                                  | 31,010                            | 2.9     | 115.9 | 5,940                     | 1.9     | 22.2 |
| 20 to 24                                  | 107,880                           | 10.0    | 119.1 | 27,950                    | 8.8     | 30.9 |
| 25 to 34                                  | 239,580                           | 22.2    | 109.0 | 70,430                    | 22.2    | 32.0 |
| 35 to 44                                  | 251,490                           | 23.3    | 111.0 | 80,350                    | 25.3    | 35.5 |
| 45 to 54                                  | 261,030                           | 24.2    | 116.6 | 84,280                    | 26.5    | 37.6 |
| 55 to 64                                  | 142,840                           | 13.2    | 116.7 | 40,170                    | 12.7    | 32.8 |
| 65 and over                               | 28,420                            | 2.6     | 102.4 | 5,380                     | 1.7     | 19.4 |
| Occupation:                               |                                   |         |       |                           |         |      |
| Management, business, financial           | 26,310                            | 2.4     | 26.5  | 6,200                     | 2.0     | 6.2  |
| Professional and related                  | 80,790                            | 7.5     | 54.3  | 24,890                    | 7.8     | 16.7 |
| Service                                   | 235,340                           | 21.8    | 149.4 | 71,040                    | 22.4    | 45.1 |
| Sales and related                         | 69,410                            | 6.4     | 62.0  | 21,570                    | 6.8     | 19.3 |
| Office and administrative support         | 80,410                            | 7.5     | 51.0  | 26,180                    | 8.2     | 16.6 |
| Farming, fishing, and forestry            | 13,510                            | 1.3     | 142.0 | 2,000                     | 0.6     | 21.0 |
| Construction and extraction               | 120,890                           | 11.2    | 221.7 | 28,880                    | 9.1     | 53.0 |
| Installation, maintenance, and repair     | 93,880                            | 8.7     | 209.1 | 27,540                    | 8.7     | 61.3 |
| Production                                | 138,890                           | 12.9    | 157.9 | 42,720                    | 13.5    | 48.6 |
| Transportation and material moving        | 217,070                           | 20.1    | 278.4 | 66,240                    | 20.9    | 85.0 |
| Length of service with employer:          |                                   |         |       |                           |         |      |
| Less than 3 months                        | 117,130                           | 10.9    | --    | 25,540                    | 8.0     | --   |
| 3 months to 11 months                     | 218,510                           | 20.3    | --    | 61,380                    | 19.3    | --   |
| 1 year to 5 years                         | 388,160                           | 36.0    | --    | 115,260                   | 36.3    | --   |
| More than 5 years                         | 338,320                           | 31.4    | --    | 112,590                   | 35.5    | --   |
| Race or ethnic origin:                    |                                   |         |       |                           |         |      |
| White                                     | 464,500                           | 43.1    | --    | 136,420                   | 43.0    | --   |
| Black or African American                 | 83,970                            | 7.8     | --    | 24,330                    | 7.7     | --   |
| Hispanic or Latino                        | 145,870                           | 13.5    | --    | 33,460                    | 10.5    | --   |
| Asian                                     | 15,090                            | 1.4     | --    | 4,750                     | 1.5     | --   |
| Native Hawaiian or other Pacific Islander | 2,920                             | 0.3     | --    | 930                       | 0.3     | --   |
| American Indian or Alaska Native          | 4,230                             | 0.4     | --    | 1,110                     | 0.3     | --   |
| Hispanic and other                        | 930                               | 0.1     | --    | 110                       | --      | --   |
| Multi-race                                | 760                               | 0.1     | --    | 230                       | 0.1     | --   |
| Not reported                              | 359,870                           | 33.4    | --    | 116,110                   | 36.6    | --   |

See footnotes at end of table.

**Table 10. Number, percent, and incidence rate<sup>1</sup> of nonfatal occupational injuries and illnesses involving days away from work<sup>2</sup> by selected worker and case characteristics and musculoskeletal disorders<sup>3</sup>, All United States, private industry, 2008**

| Characteristic   | Private industry <sup>4,5,6</sup> |         |       | Musculoskeletal disorders |         |      |
|--|-----------------------------------|---------|-------|---------------------------|---------|------|
|  | Number                            | Percent | Rate  | Number                    | Percent | Rate |
| Industry sector:   |                                   |         |       |                           |         |      |
| Goods producing industries <sup>4</sup>                                  | 311,890                           | 28.9    | 140.0 | 85,230                    | 26.8    | 38.3 |
| Natural resources and mining <sup>4,5</sup>                              | 26,710                            | 2.5     | 155.9 | 4,910                     | 1.5     | 28.7 |
| Agriculture, Forestry, Fishing and Hunting <sup>4</sup>                  | 16,080                            | 1.5     | 181.8 | 2,760                     | 0.9     | 31.2 |
| Mining <sup>5</sup>  | 10,630                            | 1.0     | 128.3 | 2,150                     | 0.7     | 25.9 |
| Construction   | 120,240                           | 11.2    | 174.3 | 28,340                    | 8.9     | 41.1 |
| Manufacturing  | 164,940                           | 15.3    | 120.7 | 51,980                    | 16.4    | 38.0 |
| Service providing industries   | 766,250                           | 71.1    | 105.1 | 232,210                   | 73.2    | 31.9 |
| Trade, Transportation and Utilities <sup>5</sup>                         | 328,220                           | 30.4    | 143.6 | 104,700                   | 33.0    | 45.8 |
| Wholesale Trade  | 71,880                            | 6.7     | 122.3 | 22,770                    | 7.2     | 38.7 |
| Retail Trade   | 146,320                           | 13.6    | 120.0 | 46,640                    | 14.7    | 38.3 |
| Transportation and Warehousing <sup>5</sup>                              | 104,120                           | 9.7     | 245.9 | 33,590                    | 10.6    | 79.3 |
| Utilities  | 5,890                             | 0.5     | 106.5 | 1,700                     | 0.5     | 30.8 |
| Information  | 18,070                            | 1.7     | 69.4  | 4,850                     | 1.5     | 18.6 |
| Financial activities   | 35,010                            | 3.2     | 47.2  | 9,580                     | 3.0     | 12.9 |
| Finance and Insurance  | 13,130                            | 1.2     | 23.5  | 3,560                     | 1.1     | 6.4  |
| Real Estate and Rental and Leasing                                       | 21,880                            | 2.0     | 120.0 | 6,020                     | 1.9     | 33.0 |
| Professional and business services                                       | 85,540                            | 7.9     | 61.2  | 19,480                    | 6.1     | 13.9 |
| Professional, Scientific, and Technical Services                         | 21,500                            | 2.0     | 29.7  | 3,620                     | 1.1     | 5.0  |
| Management of Companies and Enterprises                                  | 6,980                             | 0.6     | 38.9  | 1,920                     | 0.6     | 10.7 |
| Administrative and Support and Waste Management and Remediation Services | 57,060                            | 5.3     | 115.3 | 13,940                    | 4.4     | 28.2 |
| Education and health services  | 182,750                           | 17.0    | 131.4 | 67,270                    | 21.2    | 48.4 |
| Educational Services   | 11,420                            | 1.1     | 68.6  | 2,970                     | 0.9     | 17.9 |
| Health Care and Social Assistance  | 171,330                           | 15.9    | 139.9 | 64,300                    | 20.3    | 52.5 |
| Leisure and hospitality  | 86,190                            | 8.0     | 95.7  | 17,700                    | 5.6     | 19.7 |
| Arts, Entertainment, and Recreation                                      | 16,730                            | 1.6     | 124.6 | 3,800                     | 1.2     | 28.3 |
| Accommodation and Food Services  | 69,450                            | 6.4     | 90.7  | 13,900                    | 4.4     | 18.1 |
| Other services   | 30,470                            | 2.8     | 98.2  | 8,620                     | 2.7     | 27.8 |
| Other Services, except Public Administration                             | 30,470                            | 2.8     | 98.2  | 8,620                     | 2.7     | 27.8 |
| Number of days away from work:   |                                   |         |       |                           |         |      |
| Cases involving 1 day  | 160,190                           | 14.9    | 16.8  | 35,080                    | 11.1    | 3.7  |
| Cases involving 2 days   | 118,600                           | 11.0    | 12.5  | 29,680                    | 9.3     | 3.1  |
| Cases involving 3-5 days   | 192,180                           | 17.8    | 20.2  | 58,080                    | 18.3    | 6.1  |
| Cases involving 6-10 days  | 127,920                           | 11.9    | 13.4  | 40,610                    | 12.8    | 4.3  |
| Cases involving 11-20 days   | 126,060                           | 11.7    | 13.2  | 41,690                    | 13.1    | 4.4  |
| Cases involving 21-30 days   | 73,370                            | 6.8     | 7.7   | 22,970                    | 7.2     | 2.4  |
| Cases involving 31 or more days  | 279,830                           | 26.0    | 29.4  | 89,330                    | 28.1    | 9.4  |
| Median days away from work <sup>7</sup>                                  | 8                                 |         |       | 10                        |         |      |

See footnotes at end of table.

**Table 10. Number, percent, and incidence rate<sup>1</sup> of nonfatal occupational injuries and illnesses involving days away from work<sup>2</sup> by selected worker and case characteristics and musculoskeletal disorders<sup>3</sup>, All United States, private industry, 2008**

| Characteristic                        | Private industry <sup>4,5,6</sup> |         |      | Musculoskeletal disorders |         |      |
|---------------------------------------|-----------------------------------|---------|------|---------------------------|---------|------|
|                                       | Number                            | Percent | Rate | Number                    | Percent | Rate |
| <b>Part of body affected:</b>         |                                   |         |      |                           |         |      |
| Head                                  | 73,270                            | 6.8     | 7.7  | 30                        | --      | --   |
| Eye                                   | 27,450                            | 2.5     | 2.9  | --                        | --      | --   |
| Neck                                  | 15,890                            | 1.5     | 1.7  | 4,970                     | 1.6     | 0.5  |
| Trunk                                 | 366,710                           | 34.0    | 38.5 | 225,560                   | 71.1    | 23.7 |
| Back                                  | 222,290                           | 20.6    | 23.4 | 150,310                   | 47.4    | 15.8 |
| Shoulder                              | 74,100                            | 6.9     | 7.8  | 42,440                    | 13.4    | 4.5  |
| Upper extremities                     | 244,150                           | 22.6    | 25.7 | 43,190                    | 13.6    | 4.5  |
| Arm                                   | 48,420                            | 4.5     | 5.1  | 13,240                    | 4.2     | 1.4  |
| Finger                                | 95,080                            | 8.8     | 10.0 | 3,520                     | 1.1     | 0.4  |
| Hand, except finger                   | 41,940                            | 3.9     | 4.4  | 2,450                     | 0.8     | 0.3  |
| Wrist                                 | 46,660                            | 4.3     | 4.9  | 21,270                    | 6.7     | 2.2  |
| Lower extremities                     | 240,760                           | 22.3    | 25.3 | 29,430                    | 9.3     | 3.1  |
| Knee                                  | 91,830                            | 8.5     | 9.7  | 19,540                    | 6.2     | 2.1  |
| Ankle                                 | 55,270                            | 5.1     | 5.8  | 4,470                     | 1.4     | 0.5  |
| Foot, toe                             | 49,390                            | 4.6     | 5.2  | 1,330                     | 0.4     | 0.1  |
| Body systems                          | 15,860                            | 1.5     | 1.7  | --                        | --      | --   |
| Multiple                              | 112,200                           | 10.4    | 11.8 | 13,750                    | 4.3     | 1.4  |
| All other                             | 9,290                             | 0.9     | 1.0  | 510                       | 0.2     | 0.1  |
| <b>Source of injury, illness:</b>     |                                   |         |      |                           |         |      |
| Chemicals, chemical products          | 15,220                            | 1.4     | 1.6  | 100                       | --      | --   |
| Containers                            | 130,010                           | 12.1    | 13.7 | 87,040                    | 27.4    | 9.1  |
| Furniture, fixtures                   | 42,280                            | 3.9     | 4.4  | 16,890                    | 5.3     | 1.8  |
| Machinery                             | 64,170                            | 6.0     | 6.7  | 13,100                    | 4.1     | 1.4  |
| Parts and materials                   | 106,920                           | 9.9     | 11.2 | 37,380                    | 11.8    | 3.9  |
| Person, injured or ill worker         | 156,360                           | 14.5    | 16.4 | 76,680                    | 24.2    | 8.1  |
| Worker motion or position             | 149,490                           | 13.9    | 15.7 | 75,420                    | 23.8    | 7.9  |
| Floor, ground surfaces                | 217,420                           | 20.2    | 22.8 | 1,420                     | 0.4     | 0.1  |
| Handtools                             | 50,530                            | 4.7     | 5.3  | 8,920                     | 2.8     | 0.9  |
| Vehicles                              | 91,320                            | 8.5     | 9.6  | 12,480                    | 3.9     | 1.3  |
| Person, other than worker             | 61,680                            | 5.7     | 6.5  | 38,920                    | 12.3    | 4.1  |
| Health care patient                   | 49,180                            | 4.6     | 5.2  | 36,130                    | 11.4    | 3.8  |
| All other                             | 142,220                           | 13.2    | 14.9 | 24,510                    | 7.7     | 2.6  |
| <b>Event or exposure:</b>             |                                   |         |      |                           |         |      |
| Contact with object, equipment        | 291,880                           | 27.1    | 30.7 | --                        | --      | --   |
| Struck by object                      | 152,770                           | 14.2    | 16.1 | --                        | --      | --   |
| Struck against object                 | 70,300                            | 6.5     | 7.4  | --                        | --      | --   |
| Caught in object, equipment, material | 49,240                            | 4.6     | 5.2  | --                        | --      | --   |
| Fall to lower level                   | 67,510                            | 6.3     | 7.1  | --                        | --      | --   |
| Fall on same level                    | 157,680                           | 14.6    | 16.6 | --                        | --      | --   |
| Slips, trips                          | 35,420                            | 3.3     | 3.7  | --                        | --      | --   |
| Overexertion                          | 250,960                           | 23.3    | 26.4 | 240,250                   | 75.7    | 25.2 |
| Overexertion in lifting               | 129,990                           | 12.1    | 13.7 | 125,340                   | 39.5    | 13.2 |
| Repetitive motion                     | 30,920                            | 2.9     | 3.2  | 28,360                    | 8.9     | 3.0  |
| Exposed to harmful substance          | 45,480                            | 4.2     | 4.8  | --                        | --      | --   |
| Transportation accidents              | 48,610                            | 4.5     | 5.1  | --                        | --      | --   |
| Highway accident                      | 29,550                            | 2.7     | 3.1  | --                        | --      | --   |
| Fires, explosions                     | 2,320                             | 0.2     | 0.2  | --                        | --      | --   |
| Assault, violent act                  | 22,690                            | 2.1     | 2.4  | --                        | --      | --   |
| by person                             | 16,330                            | 1.5     | 1.7  | --                        | --      | --   |
| by other                              | 6,360                             | 0.6     | 0.7  | --                        | --      | --   |
| by animal                             | 6,120                             | 0.6     | 0.6  | --                        | --      | --   |
| All other                             | 124,670                           | 11.6    | 13.1 | 48,830                    | 15.4    | 5.1  |

See footnotes at end of table.

**Table 10. Number, percent, and incidence rate<sup>1</sup> of nonfatal occupational injuries and illnesses involving days away from work<sup>2</sup> by selected worker and case characteristics and musculoskeletal disorders<sup>3</sup>, All United States, private industry, 2008**

| Characteristic               | Private industry <sup>4,5,6</sup> |         |      | Musculoskeletal disorders |         |      |
|------------------------------|-----------------------------------|---------|------|---------------------------|---------|------|
|                              | Number                            | Percent | Rate | Number                    | Percent | Rate |
| Nature of injury, illness:   |                                   |         |      |                           |         |      |
| Sprains, strains             | 416,620                           | 38.6    | 43.8 | 236,260                   | 74.4    | 24.8 |
| Fractures                    | 89,650                            | 8.3     | 9.4  | --                        | --      | --   |
| Cuts, lacerations, punctures | 99,830                            | 9.3     | 10.5 | --                        | --      | --   |
| Cuts, lacerations            | 87,060                            | 8.1     | 9.1  | --                        | --      | --   |
| Punctures                    | 12,760                            | 1.2     | 1.3  | --                        | --      | --   |
| Bruises, contusions          | 93,650                            | 8.7     | 9.8  | --                        | --      | --   |
| Heat burns                   | 15,630                            | 1.4     | 1.6  | --                        | --      | --   |
| Chemical burns               | 5,620                             | 0.5     | 0.6  | --                        | --      | --   |
| Amputations                  | 6,230                             | 0.6     | 0.7  | --                        | --      | --   |
| Carpal tunnel syndrome       | 10,080                            | 0.9     | 1.1  | 10,060                    | 3.2     | 1.1  |
| Tendonitis                   | 4,100                             | 0.4     | 0.4  | 3,220                     | 1.0     | 0.3  |
| Multiple traumatic injuries  | 43,960                            | 4.1     | 4.6  | --                        | --      | --   |
| With fractures               | 8,840                             | 0.8     | 0.9  | --                        | --      | --   |
| With sprains                 | 16,780                            | 1.6     | 1.8  | --                        | --      | --   |
| Soreness, Pain               | 114,030                           | 10.6    | 12.0 | 47,430                    | 14.9    | 5.0  |
| Back pain                    | 37,140                            | 3.4     | 3.9  | 22,500                    | 7.1     | 2.4  |
| All other                    | 178,740                           | 16.6    | 18.8 | 20,460                    | 6.4     | 2.2  |
| Day of Week:                 |                                   |         |      |                           |         |      |
| Sunday                       | 63,560                            | 5.9     | --   | 19,490                    | 6.1     | --   |
| Monday                       | 199,540                           | 18.5    | --   | 62,060                    | 19.6    | --   |
| Tuesday                      | 195,470                           | 18.1    | --   | 55,290                    | 17.4    | --   |
| Wednesday                    | 187,700                           | 17.4    | --   | 54,770                    | 17.3    | --   |
| Thursday                     | 183,070                           | 17.0    | --   | 52,710                    | 16.6    | --   |
| Friday                       | 166,080                           | 15.4    | --   | 47,330                    | 14.9    | --   |
| Saturday                     | 82,720                            | 7.7     | --   | 25,790                    | 8.1     | --   |
| Time of Day:                 |                                   |         |      |                           |         |      |
| 12:01 AM - 4:00 AM           | 32,870                            | 3.0     | --   | 10,450                    | 3.3     | --   |
| 4:01 AM - 8:00 AM            | 106,040                           | 9.8     | --   | 31,940                    | 10.1    | --   |
| 8:01 AM - 12:00 PM           | 310,050                           | 28.8    | --   | 87,150                    | 27.5    | --   |
| 12:01 PM - 4:00 PM           | 243,940                           | 22.6    | --   | 61,830                    | 19.5    | --   |
| 4:01 PM - 8:00 PM            | 107,290                           | 10.0    | --   | 27,060                    | 8.5     | --   |
| 8:01 PM - 12:00 AM           | 58,480                            | 5.4     | --   | 16,460                    | 5.2     | --   |
| Not reported                 | 219,470                           | 20.4    | --   | 82,550                    | 26.0    | --   |

See footnotes at end of table.

**Table 10. Number, percent, and incidence rate<sup>1</sup> of nonfatal occupational injuries and illnesses involving days away from work<sup>2</sup> by selected worker and case characteristics and musculoskeletal disorders<sup>3</sup>, All United States, private industry, 2008**

| Characteristic              | Private industry <sup>4,5,6</sup> |         |      | Musculoskeletal disorders |         |      |
|-----------------------------|-----------------------------------|---------|------|---------------------------|---------|------|
|                             | Number                            | Percent | Rate | Number                    | Percent | Rate |
| Hours Worked:               |                                   |         |      |                           |         |      |
| Occurred before shift began | 7,910                             | 0.7     | --   | 320                       | 0.1     | --   |
| Less than 1 hour            | 84,480                            | 7.8     | --   | 23,750                    | 7.5     | --   |
| 1 - 2 hours                 | 103,190                           | 9.6     | --   | 30,080                    | 9.5     | --   |
| 2 - 4 hours                 | 218,650                           | 20.3    | --   | 64,360                    | 20.3    | --   |
| 4 - 6 hours                 | 171,750                           | 15.9    | --   | 46,490                    | 14.6    | --   |
| 6 - 8 hours                 | 150,910                           | 14.0    | --   | 40,830                    | 12.9    | --   |
| 8 - 10 hours                | 74,560                            | 6.9     | --   | 16,840                    | 5.3     | --   |
| 10 - 12 hours               | 19,210                            | 1.8     | --   | 4,780                     | 1.5     | --   |
| 12 - 16 hours               | 6,360                             | 0.6     | --   | 1,690                     | 0.5     | --   |
| More than 16 hours          | 920                               | 0.1     | --   | 200                       | 0.1     | --   |
| Not reported                | 240,200                           | 22.3    | --   | 88,110                    | 27.8    | --   |

<sup>1</sup> Incidence rates represent the number of injuries and illnesses per 10,000 full-time workers and were calculated as:

$(N / EH) \times 20,000,000$  where,

N = number of injuries and illnesses,

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

20,000,000 = base for 10,000 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

<sup>2</sup> Days-away-from-work cases include those that result in days-away-from-work with or without job transfer or restriction.

<sup>3</sup> Includes cases where the nature of injury is: sprains, strains, tears; back pain, hurt back; soreness, pain, hurt, except back; carpal tunnel syndrome; hernia; or musculoskeletal system and connective tissue diseases and disorders and when the event or exposure leading to the injury or illness is: bodily reaction/bending, climbing, crawling, reaching, twisting; overexertion; or repetition. Cases of Raynaud's phenomenon, tarsal tunnel syndrome, and herniated spinal discs are not included. Although these cases may be considered MSD's, the survey classifies these cases in categories that also include non-MSD cases.

<sup>4</sup> Excludes farms with fewer than 11 employees.

<sup>5</sup> Data for mining (Sector 21 in the *North American Industry Classification System* -- United States, 2002) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.

<sup>6</sup> Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.

<sup>7</sup> Median days away from work is the measure used to summarize the varying lengths of absences from work among the cases with days away from work. Half the cases involved more days and half involved less days than a specified median. Median days away from work are represented in actual values.

NOTE: Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals. Dashes indicate data that do not meet publication guidelines or data for incidence rates less than 0.05 per 10,000 full-time workers. The scientifically selected probability sample used was one of many possible samples, each of which could have produced different estimates. A measure of sampling variability for each estimate is available upon request.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, November 12, 2009