

# News

United States  
Department  
of Labor



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Bureau of Labor Statistics Washington, D.C. 20212

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Technical information: (202) 691-6179

USDL 00-357

Media information: (202) 691-5902

For release: 10 A.M. EST

Internet address: <http://stats.bls.gov/oshhome.htm>

Tuesday, December 12, 2000

## WORKPLACE INJURIES AND ILLNESSES IN 1999

A total of 5.7 million injuries and illnesses were reported in private industry workplaces during 1999, resulting in a rate of 6.3 cases per 100 equivalent full-time workers, according to a survey by the Bureau of Labor Statistics, U.S. Department of Labor. Employers reported a 4 percent drop in the number of cases and a 2 percent increase in the hours worked compared with 1998, reducing the case rate from 6.7 in 1998 to 6.3 in 1999. The rate for 1999 was the lowest since the Bureau began reporting this information in the early 1970s. (See "Background of the Survey" section for a discussion of the factors that can influence rate changes from one survey to the next.)

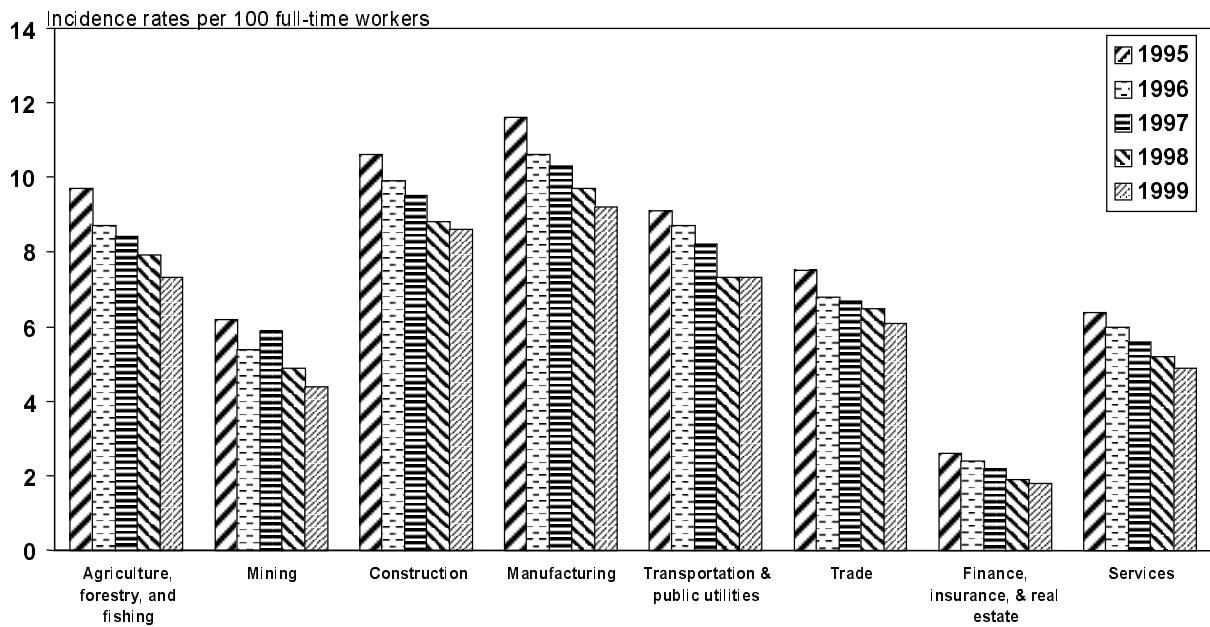
The following tabulation on incidence rates for injuries and illnesses shows the decline in rates per 100 full-time workers since 1994:

	1994	1995	1996	1997	1998	1999
Private industry	8.4	8.1	7.4	7.1	6.7	6.3
Goods-producing	11.9	11.2	10.2	9.9	9.3	8.9
Service-producing	6.9	6.7	6.2	5.9	5.6	5.3

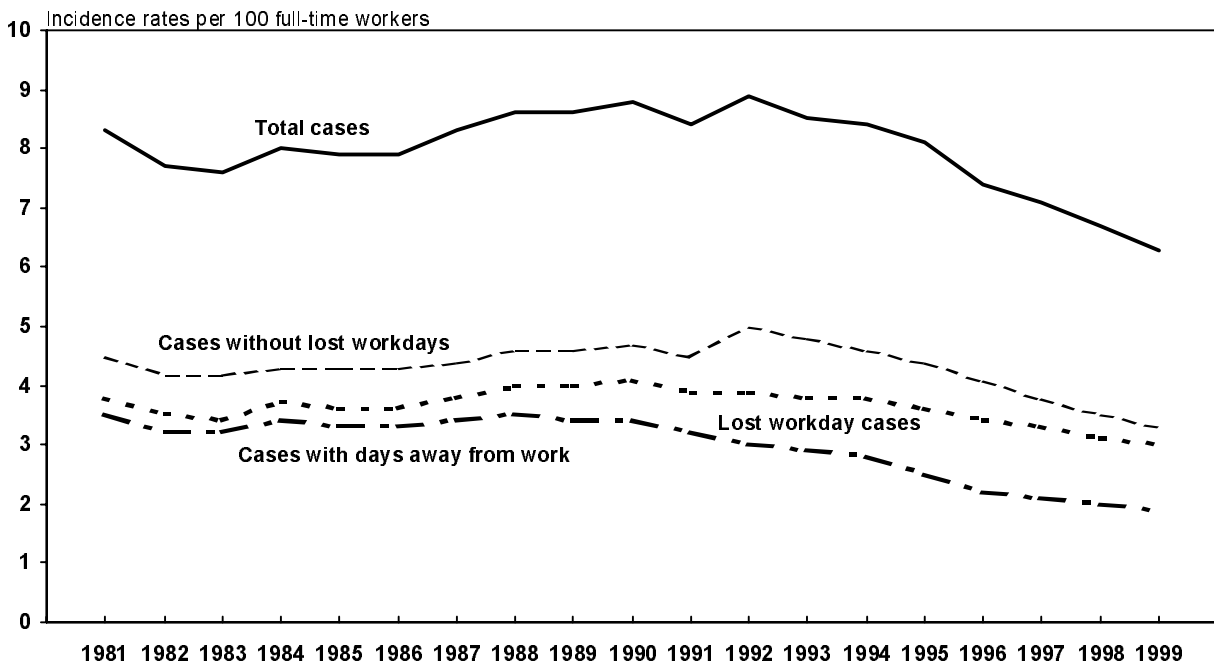
Among goods-producing industries, manufacturing had the highest incidence rate in 1999 (9.2 cases per 100 full-time workers). (See chart 1 and table 1.) Within the service-producing sector, the highest incidence rate was reported for transportation and public utilities (7.3 cases per 100 full-time workers), followed by wholesale and retail trade (6.1 cases per 100 workers).

This release is the second in a series of three releases covering 1999 from the BLS safety and health statistical series. The first release, in August 2000, covered work-related fatalities from the 1999 National Census of Fatal Occupational Injuries. In April 2001, a third release will provide details on the more seriously injured and ill workers (occupation, age, gender, race, and length of service) and on the circumstances of their injuries and illnesses (nature of the disabling condition, part of body affected, event or exposure, and primary source producing the disability). "More seriously" is defined in this survey as involving days away from work.

**Chart 1. Nonfatal workplace injury and illness incidence rates by industry division, 1995-99**



**Chart 2. Workplace injury and illness incidence rates by type of case, 1981-99**

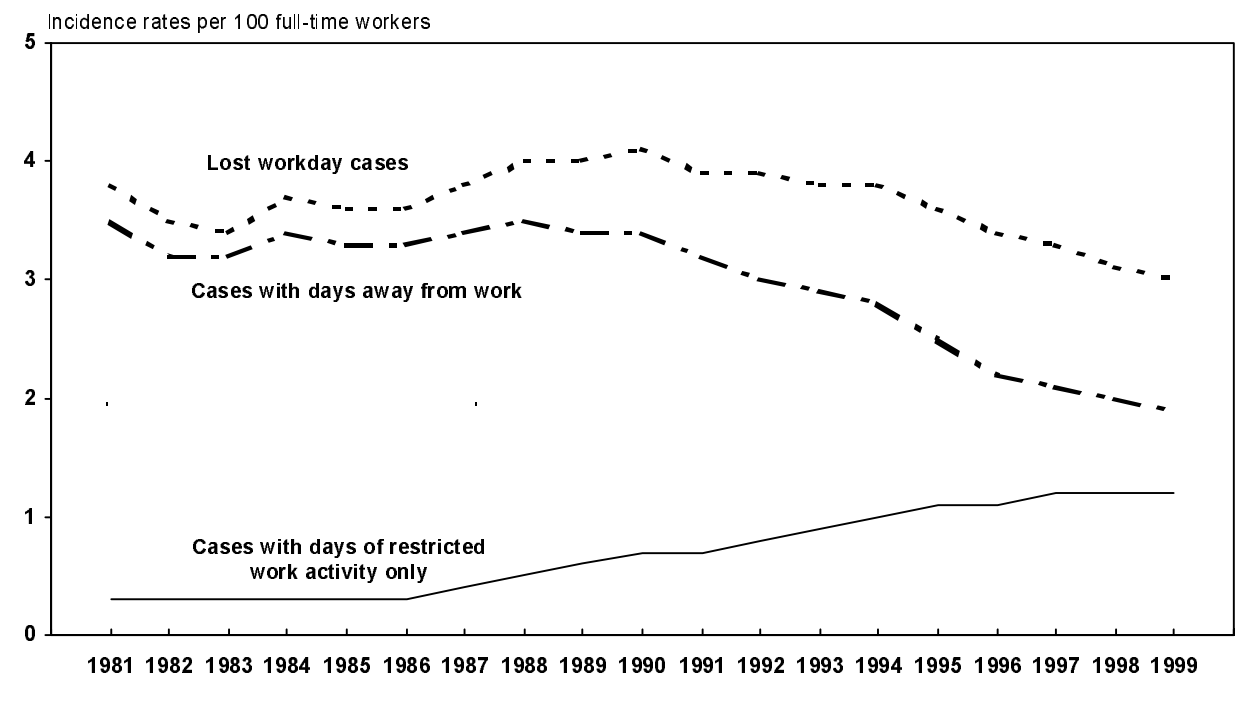


## Case types

Of the 5.7 million total injuries and illnesses reported in 1999, about 2.7 million were lost workday cases, that is, they required recuperation away from work or restricted duties at work, or both. (See table 2.) The remaining 3 million were cases without lost workdays. The incidence rate for both types of cases declined from 1998 to 1999. For lost workday cases, the rate declined from 3.1 cases per 100 workers to 3.0 cases per 100 workers, and, for cases without lost workdays, the rate decreased from 3.5 cases per 100 workers to 3.3 cases per 100 workers.

Lost workday cases are comprised of two case types, those requiring at least one day away from work, with or without restricted work activity, and those requiring restricted activity only. The latter type of case may involve shortened hours, a temporary job change, or temporary restrictions on certain duties (for example, no heavy lifting) of a worker's regular job. At 1.9 cases per 100 workers in 1999, the rate for cases with days away from work declined from 2.0 in 1998 and was the lowest on record. (See chart 2.) In contrast to the decreases posted by all the other major case types in 1999, the rate for cases involving restricted activity only remained at its 1998 level, 1.2 cases per 100 employees. (See chart 3.) In 1999, the rate in manufacturing for restricted-activity-only cases (2.4) was higher than the rate for days-away-from-work cases (2.2). In all other divisions, the rate for days-away-from-work cases was higher than the rate for restricted-activity-only cases.

**Chart 3. Lost workday case incidence rates, injuries and illnesses, 1981-99**



## **Injuries and Illnesses**

*Injuries.* Of the 5.7 million nonfatal occupational injuries and illnesses in 1999, 5.3 million were injuries. Injury rates generally are higher for mid-size establishments (those employing 50 to 249 workers) than for smaller or larger establishments, although this pattern does not hold within certain industry divisions. (See table 3.) Nine industries, each having at least 100,000 injuries, accounted for about 1.6 million injuries, or 30 percent of the 5.3 million total. (See table 4.) All but one of these industries were in the service-producing sector.

*Illnesses.* There were about 372,000 newly reported cases of occupational illnesses in private industry in 1999. Manufacturing accounted for three-fifths of these cases. (See table 5.) Disorders associated with repeated trauma, such as carpal tunnel syndrome and noise-induced hearing loss, accounted for 4 percent of the 5.7 million total workplace injuries and illnesses. They were, however, the dominant type of illness reported, making up 66 percent of the 372,000 total illness cases. Seventy percent of the repeated trauma cases were in manufacturing industries.

The survey measures the number of new work-related illness cases that are recognized, diagnosed, and reported during the year. Some conditions (for example, long-term latent illnesses caused by exposure to carcinogens) often are difficult to relate to the workplace and are not adequately recognized and reported. These long-term latent illnesses are believed to be understated in the survey's illness measures. In contrast, the overwhelming majority of the reported new illnesses are those that are easier to directly relate to workplace activity (for example, contact dermatitis or carpal tunnel syndrome).

## **Background of the Survey**

The Survey of Occupational Injuries and Illnesses is a Federal/State program in which employer reports are collected from about 174,000 private industry establishments and processed by state agencies cooperating with the Bureau of Labor Statistics. Occupational injury and illness data for coal, metal, and nonmetal mining and for railroad activities were provided by the Department of Labor's Mine Safety and Health Administration and the Department of Transportation's Federal Railroad Administration. The survey measures nonfatal injuries and illnesses only. The survey excludes the self-employed; farms with fewer than 11 employees; private households; federal government agencies; and, for national estimates, employees in State and local government agencies.

The annual survey provides estimates of the number and frequency (incidence rates) of workplace injuries and illnesses based on logs kept by private industry employers during the year. These records reflect not only the year's injury and illness experience, but also the employer's understanding of which cases are work related under current recordkeeping guidelines of the U.S. Department of Labor. The number of injuries and illnesses reported in any given year also can be influenced by the level of economic activity, working conditions and work practices, worker experience and training, and the number of hours worked.

Establishments are classified in industry categories based on the 1987 Standard Industrial Classification (SIC) Manual, as defined by the Office of Management and Budget. The survey estimates of occupational injuries and illnesses are based on a scientifically selected probability sample, rather than a census of the entire population. Because the data are based on a sample survey, the injury and illness estimates probably differ from the figures that would be obtained from all units covered by the survey. To determine the precision of each estimate, a standard error was calculated. The standard error defines a range (confidence interval) around the estimate. The approximate 95-percent confidence interval is the estimate plus or minus twice the standard error. The standard error also can be expressed as a percent of the estimate, or the relative standard error. For example, the 95-percent confidence interval for an incidence rate of 6.5 per 100 full-time workers with a relative standard error of 1.0 percent would be 6.5 plus or minus 2 percent (2 times 1.0 percent) or 6.37 to 6.63. One can be 95 percent confident that the “true” incidence rate falls within the confidence interval. The 1999 incidence rate for all occupational injuries and illnesses of 6.3 per 100 full-time workers in private industry has an estimated relative standard error of about 0.6 percent. A relative standard error was calculated for each estimate from the survey and will be published in a BLS bulletin that is scheduled to be available at a later date.

The data also are subject to nonsampling error. The inability to obtain information about all cases in the sample, mistakes in recording or coding the data, and definition difficulties are examples of nonsampling error in the survey. Nonsampling errors are not measured. However, BLS has implemented quality assurance procedures to minimize nonsampling error in the survey.

The goods-producing sector consists of the following industry divisions: agriculture, forestry, and fishing; mining; construction; and manufacturing. The service-producing sector includes the following industry divisions: transportation and public utilities; trade; finance, insurance, and real estate; and services. BLS has generated estimates of injuries and illnesses combined and of injuries alone for nearly all 2-, 3-, and, for manufacturing, 4-digit private sector industries as defined in the 1987 edition of the *Standard Industrial Classification Manual*. Because of space limitations, a complete listing of these estimates is not possible in this release. The information is available from BLS staff on 202-691-6179 and from the BLS Internet site at <http://stats.bls.gov/oshhome.htm>.

TABLE 1. Incidence rates<sup>1</sup> of nonfatal occupational injuries and illnesses by selected industries and case types, 1999

Industry <sup>2</sup>	SIC code <sup>3</sup>	1999 Annual average employment <sup>4</sup> (000s)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>5</sup>	With days away from work <sup>6</sup>			Total <sup>5</sup>	With days away from work <sup>6</sup>	
<b>Private industry<sup>7</sup></b> .....		107,611.8	6.3	3.0	1.9	3.3	5.9	2.8	1.8	3.1
<b>Agriculture, forestry, and fishing<sup>7</sup></b> .....		1,860.7	7.3	3.4	2.4	3.9	7.0	3.3	2.4	3.7
Agricultural production <sup>7</sup> .....	01-02	770.7	7.7	3.6	2.5	4.1	7.4	3.5	2.4	3.8
Agricultural production—crops <sup>7</sup> .....	01	578.2	7.0	3.1	2.1	3.9	6.6	3.0	2.0	3.6
Agricultural production—livestock <sup>7</sup> .....	02	192.4	10.0	5.2	3.5	4.9	9.5	5.0	3.4	4.5
Agricultural services .....	07	1,051.6	7.1	3.3	2.4	3.8	6.8	3.2	2.4	3.6
Forestry .....	08	27.1	6.1	2.9	2.2	3.2	5.6	2.7	2.0	2.9
Fishing, hunting, and trapping .....	09	11.4	6.9	4.5	3.0	2.4	6.3	4.0	2.9	2.3
<b>Mining<sup>8</sup></b> .....		535.4	4.4	2.7	2.0	1.7	4.1	2.5	1.9	1.6
Metal mining <sup>8</sup> .....	10	43.5	5.0	2.9	1.7	2.1	4.7	2.7	1.6	2.0
Coal mining <sup>8</sup> .....	12	85.6	7.4	5.5	5.2	1.9	6.8	5.2	4.9	1.7
Oil and gas extraction .....	13	294.6	3.5	1.8	1.2	1.7	3.3	1.7	1.1	1.7
Nonmetallic minerals, except fuels <sup>8</sup> .....	14	111.8	4.3	2.8	2.0	1.4	4.1	2.8	2.0	1.4
<b>Construction</b> .....		6,337.3	8.6	4.2	3.3	4.4	8.4	4.1	3.3	4.3
General building contractors .....	15	1,453.3	8.0	3.7	2.9	4.3	7.9	3.6	2.9	4.3
Heavy construction, except building .....	16	860.0	7.8	3.8	2.8	4.0	7.6	3.7	2.7	3.9
Special trade contractors .....	17	4,024.1	8.9	4.4	3.6	4.5	8.8	4.4	3.5	4.4
<b>Manufacturing</b> .....		18,538.4	9.2	4.6	2.2	4.6	8.0	4.0	2.0	4.0
Durable goods .....		11,102.3	10.1	4.8	2.4	5.3	8.8	4.2	2.1	4.6
Lumber and wood products .....	24	831.9	13.0	6.7	3.9	6.3	12.5	6.4	3.8	6.0
Furniture and fixtures .....	25	547.0	11.5	5.9	2.5	5.7	10.3	5.2	2.2	5.1
Stone, clay, and glass products .....	32	566.6	10.7	5.4	3.0	5.3	10.1	5.2	2.9	4.9
Primary metal industries .....	33	698.8	12.9	6.3	3.1	6.7	11.9	5.9	2.9	6.0
Fabricated metal products .....	34	1,521.9	12.6	6.0	3.1	6.6	11.6	5.6	2.9	6.1
Industrial machinery and equipment .....	35	2,132.8	8.5	3.7	2.0	4.8	7.8	3.4	1.8	4.4
Electronic and other electric equipment .....	36	1,666.1	5.7	2.8	1.2	2.9	4.6	2.2	1.0	2.4
Transportation equipment .....	37	1,891.8	13.7	6.4	2.7	7.3	10.5	5.2	2.2	5.3
Instruments and related products .....	38	852.6	4.0	1.8	.9	2.2	3.1	1.4	.7	1.8
Miscellaneous manufacturing industries .....	39	392.9	8.4	4.0	1.9	4.4	7.7	3.5	1.7	4.1
Nondurable goods .....		7,436.1	7.8	4.2	1.9	3.6	6.8	3.7	1.7	3.1
Food and kindred products .....	20	1,686.2	12.7	7.3	2.8	5.3	10.4	6.0	2.5	4.4
Tobacco products .....	21	36.7	5.5	2.2	1.7	3.3	5.2	2.1	1.6	3.1
Textile mill products .....	22	557.2	6.4	3.2	1.2	3.2	5.7	2.9	1.1	2.8
Apparel and other textile products .....	23	689.9	5.8	2.8	1.4	3.0	4.5	2.2	1.1	2.3
Paper and allied products .....	26	667.8	7.0	3.7	1.8	3.3	6.5	3.5	1.7	3.0
Printing and publishing .....	27	1,545.7	5.0	2.6	1.6	2.4	4.6	2.4	1.5	2.2
Chemicals and allied products .....	28	1,035.0	4.4	2.3	1.1	2.2	3.8	2.0	1.0	1.8
Petroleum and coal products .....	29	132.0	4.1	1.8	1.0	2.3	3.9	1.8	1.0	2.1
Rubber and miscellaneous plastics products .....	30	1,008.6	10.1	5.5	2.8	4.7	9.3	5.0	2.5	4.3
Leather and leather products .....	31	76.9	10.3	5.0	1.6	5.3	7.5	3.8	1.3	3.7

See footnotes at end of table.

TABLE 1. Incidence rates<sup>1</sup> of nonfatal occupational injuries and illnesses by selected industries and case types, 1999 — Continued

Industry <sup>2</sup>	SIC code <sup>3</sup>	1999 Annual average employment <sup>4</sup> (000s)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>5</sup>	With days away from work <sup>6</sup>			Total <sup>5</sup>	With days away from work <sup>6</sup>	
<b>Transportation and public utilities<sup>8</sup></b> .....		6,578.1	7.3	4.4	3.1	2.8	7.0	4.3	3.0	2.7
Railroad transportation <sup>8</sup> .....	40	-	3.6	2.8	2.4	.8	3.5	2.7	2.3	.8
Local and interurban passenger transit .....	41	463.3	9.1	4.7	3.5	4.4	8.9	4.7	3.5	4.3
Trucking and warehousing .....	42	1,804.1	8.7	5.1	3.6	3.6	8.6	5.0	3.5	3.6
Water transportation .....	44	187.2	8.0	4.4	3.8	3.6	7.6	4.3	3.7	3.3
Transportation by air .....	45	1,243.1	13.3	9.4	6.6	3.9	12.8	9.1	6.3	3.7
Pipelines, except natural gas .....	46	13.2	5.1	2.6	2.2	2.5	5.1	2.6	2.2	2.5
Transportation services .....	47	457.5	3.8	2.2	1.3	1.6	3.5	2.1	1.3	1.5
Communications .....	48	1,548.5	3.1	1.7	1.2	1.4	2.6	1.5	1.0	1.2
Electric, gas, and sanitary services .....	49	859.6	6.1	3.3	1.7	2.9	5.7	3.2	1.7	2.6
<b>Wholesale and retail trade</b> .....		29,715.7	6.1	2.7	1.8	3.4	6.0	2.7	1.7	3.3
Wholesale trade .....		6,903.0	6.3	3.3	2.0	3.0	6.1	3.2	2.0	2.9
Wholesale trade—durable goods .....	50	4,102.2	5.6	2.6	1.7	2.9	5.4	2.6	1.6	2.9
Wholesale trade—nondurable goods .....	51	2,800.8	7.3	4.2	2.6	3.1	7.1	4.1	2.5	3.0
Retail trade .....		22,812.7	6.1	2.5	1.7	3.6	6.0	2.5	1.7	3.5
Building materials and garden supplies .....	52	989.1	8.3	3.8	2.4	4.5	8.2	3.8	2.4	4.4
General merchandise stores .....	53	2,782.6	8.5	4.6	2.4	3.9	8.4	4.5	2.3	3.9
Food stores .....	54	3,490.5	7.9	3.4	2.4	4.5	7.7	3.2	2.3	4.4
Automotive dealers and service stations .....	55	2,375.7	5.7	2.1	1.6	3.6	5.6	2.1	1.6	3.5
Apparel and accessory stores .....	56	1,174.2	3.2	1.4	.9	1.8	3.1	1.3	.9	1.8
Furniture and homefurnishings stores .....	57	1,082.2	4.7	2.4	1.6	2.4	4.7	2.3	1.6	2.3
Eating and drinking places .....	58	7,954.4	5.6	1.8	1.4	3.8	5.5	1.8	1.4	3.8
Miscellaneous retail .....	59	2,963.9	4.1	1.8	1.1	2.3	3.9	1.7	1.1	2.2
<b>Finance, insurance, and real estate</b> .....		7,399.5	1.8	.8	.6	1.1	1.6	.7	.5	.9
Depository institutions .....	60	2,044.8	1.5	.6	.4	1.0	1.3	.5	.4	.8
Nondepository institutions .....	61	707.1	1.0	.3	.3	.6	.8	.3	.2	.5
Security and commodity brokers .....	62	688.0	.6	.3	.3	.3	.5	.3	.2	.3
Insurance carriers .....	63	1,477.4	1.9	.7	.5	1.2	1.4	.5	.4	.9
Insurance agents, brokers, and service .....	64	754.0	.9	.3	.2	.6	.8	.3	.2	.6
Real estate .....	65	1,493.5	3.9	1.9	1.4	2.0	3.8	1.9	1.4	1.9
Holding and other investment offices .....	67	234.7	1.4	.4	.3	1.0	1.3	.4	.2	.9
<b>Services</b> .....		36,374.0	4.9	2.2	1.5	2.6	4.6	2.1	1.4	2.5
Hotels and other lodging places .....	70	1,835.8	7.8	3.7	2.1	4.1	7.5	3.6	2.0	3.9
Personal services .....	72	1,226.1	3.0	1.6	1.0	1.4	2.8	1.5	1.0	1.3
Business services .....	73	9,248.0	3.0	1.4	.9	1.6	2.8	1.3	.9	1.6
Auto repair, services, and parking .....	75	1,192.9	6.1	2.9	2.3	3.2	5.9	2.8	2.3	3.1
Miscellaneous repair services .....	76	375.7	5.2	2.6	1.8	2.6	5.1	2.5	1.8	2.5
Motion pictures .....	78	599.4	2.9	.8	.5	2.1	2.8	.8	.5	2.0
Amusement and recreation services .....	79	1,706.5	6.7	3.0	1.7	3.8	6.4	2.8	1.6	3.6
Health services .....	80	9,946.9	7.5	3.4	2.2	4.0	7.0	3.3	2.1	3.7
Legal services .....	81	995.3	1.0	.4	.3	.6	.8	.3	.3	.5
Educational services .....	82	1,667.0	2.9	1.1	.8	1.8	2.7	1.0	.8	1.7
Social services .....	83	2,674.9	5.6	2.7	1.9	2.9	5.4	2.6	1.9	2.8
Museums, botanical, zoological gardens .....	84	99.7	7.0	2.5	1.7	4.5	6.6	2.4	1.5	4.2

See footnotes at end of table.

TABLE 1. Incidence rates<sup>1</sup> of nonfatal occupational injuries and illnesses by selected industries and case types, 1999 — Continued

Industry <sup>2</sup>	SIC code <sup>3</sup>	1999 Annual average employment <sup>4</sup> (000s)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>5</sup>	With days away from work <sup>6</sup>			Total <sup>5</sup>	With days away from work <sup>6</sup>	
Membership organizations .....	86	1,060.6	3.1	1.2	0.9	1.9	3.0	1.2	0.8	1.8
Engineering and management services .....	87	3,262.9	1.7	.7	.5	1.0	1.6	.6	.4	.9
Services, n.e.c. ....	89	50.4	1.8	.6	.4	1.2	1.7	.5	.4	1.2

<sup>1</sup> The incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

N = number of injuries and illnesses  
 EH = total hours worked by all employees during the calendar year  
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

<sup>2</sup> Totals include data for industries not shown separately.

<sup>3</sup> *Standard Industrial Classification Manual*, 1987 Edition.

<sup>4</sup> Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program.

<sup>5</sup> Total lost workday cases involve days away from work, days of restricted work activity, or both.

<sup>6</sup> Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

<sup>7</sup> Excludes farms with fewer than 11 employees.

<sup>8</sup> Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals. Dash indicates data not available. The n.e.c. abbreviation means that the category includes those components not elsewhere classified.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor



TABLE 2. Number of nonfatal occupational injuries and illnesses by selected industries and case types, 1999

(In thousands)

Industry <sup>1</sup>	SIC code <sup>2</sup>	1999 Annual average employment <sup>3</sup>	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>4</sup>	With days away from work <sup>5</sup>			Total <sup>4</sup>	With days away from work <sup>5</sup>	
<b>Private industry<sup>6</sup></b> .....		107,611.8	5,707.2	2,742.8	1,702.5	2,964.5	5,335.0	2,575.9	1,620.8	2,759.1
<b>Agriculture, forestry, and fishing<sup>6</sup></b> .....		1,860.7	105.0	48.8	34.9	56.2	100.0	47.5	34.0	52.5
Agricultural production <sup>6</sup> .....	01-02	770.7	42.2	19.8	13.4	22.5	40.2	19.2	13.1	21.1
Agricultural production—crops <sup>6</sup> .....	01	578.2	28.7	12.8	8.7	15.9	27.4	12.4	8.4	15.0
Agricultural production—livestock <sup>6</sup> .....	02	192.4	13.5	7.0	4.7	6.6	12.9	6.8	4.6	6.1
Agricultural services .....	07	1,051.6	60.7	28.0	20.7	32.8	57.9	27.3	20.2	30.6
Forestry .....	08	27.1	1.4	.6	.5	.7	1.3	.6	.4	.6
Fishing, hunting, and trapping .....	09	11.4	.6	.4	.3	.2	.6	.4	.3	.2
<b>Mining<sup>7</sup></b> .....		535.4	24.4	14.9	11.3	9.5	23.2	14.2	10.7	9.1
Metal mining <sup>7</sup> .....	10	43.5	1.9	1.1	.6	.8	1.8	1.0	.6	.7
Coal mining <sup>7</sup> .....	12	85.6	6.3	4.6	4.4	1.6	5.8	4.4	4.1	1.4
Oil and gas extraction .....	13	294.6	10.7	5.5	3.7	5.3	10.3	5.2	3.4	5.1
Nonmetallic minerals, except fuels <sup>7</sup> .....	14	111.8	5.5	3.7	2.6	1.8	5.4	3.6	2.6	1.8
<b>Construction</b> .....		6,337.3	501.4	243.8	193.8	257.6	493.0	240.2	190.6	252.9
General building contractors .....	15	1,453.3	106.5	48.9	39.0	57.5	105.1	48.2	38.3	56.9
Heavy construction, except building .....	16	860.0	65.8	31.8	23.4	34.0	64.2	31.3	23.0	32.9
Special trade contractors .....	17	4,024.1	329.2	163.1	131.4	166.1	323.8	160.7	129.3	163.1
<b>Manufacturing</b> .....		18,538.4	1,706.1	848.0	403.6	858.1	1,483.1	744.6	366.6	738.6
Durable goods .....		11,102.3	1,131.8	537.8	263.7	594.0	986.8	474.8	238.5	512.0
Lumber and wood products .....	24	831.9	107.8	55.5	32.6	52.3	103.2	53.3	31.4	49.9
Furniture and fixtures .....	25	547.0	62.7	31.9	13.6	30.8	56.1	28.2	11.9	27.9
Stone, clay, and glass products .....	32	566.6	62.5	31.8	17.4	30.7	58.9	30.1	16.7	28.8
Primary metal industries .....	33	698.8	94.1	45.7	22.4	48.4	86.2	42.7	21.2	43.4
Fabricated metal products .....	34	1,521.9	195.6	93.2	48.0	102.4	180.3	86.4	44.7	93.9
Industrial machinery and equipment .....	35	2,132.8	183.1	79.3	42.8	103.8	167.6	72.5	39.6	95.0
Electronic and other electric equipment .....	36	1,666.1	95.5	46.4	20.7	49.1	77.4	37.0	17.2	40.4
Transportation equipment .....	37	1,891.8	265.6	124.3	51.7	141.3	202.4	99.9	43.5	102.5
Instruments and related products .....	38	852.6	34.0	15.1	7.6	18.9	26.5	11.6	6.1	14.9
Miscellaneous manufacturing industries .....	39	392.9	30.9	14.6	7.0	16.3	28.1	12.9	6.3	15.2
Nondurable goods .....		7,436.1	574.3	310.2	139.9	264.1	496.4	269.8	128.1	226.6
Food and kindred products .....	20	1,686.2	216.6	125.3	47.1	91.3	178.0	103.2	43.3	74.8
Tobacco products .....	21	36.7	1.9	.7	.6	1.1	1.8	.7	.5	1.1
Textile mill products .....	22	557.2	35.6	17.9	6.5	17.7	31.8	16.4	6.1	15.4
Apparel and other textile products .....	23	689.9	37.0	17.9	8.7	19.1	29.2	14.3	7.2	14.9
Paper and allied products .....	26	667.8	48.9	25.8	12.3	23.1	45.5	24.4	11.7	21.1
Printing and publishing .....	27	1,545.7	71.3	37.0	22.2	34.2	64.9	33.6	20.6	31.3
Chemicals and allied products .....	28	1,035.0	46.2	23.7	11.6	22.5	39.5	21.1	10.7	18.4
Petroleum and coal products .....	29	132.0	5.8	2.5	1.4	3.2	5.5	2.5	1.4	3.0
Rubber and miscellaneous plastics products .....	30	1,008.6	103.2	55.5	28.1	47.7	94.7	50.7	25.6	43.9
Leather and leather products .....	31	76.9	7.9	3.8	1.2	4.1	5.7	2.9	1.0	2.8

See footnotes at end of table.

TABLE 2. Number of nonfatal occupational injuries and illnesses by selected industries and case types, 1999 — Continued

(In thousands)

Industry <sup>1</sup>	SIC code <sup>2</sup>	1999 Annual average employment <sup>3</sup>	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>4</sup>	With days away from work <sup>5</sup>			Total <sup>4</sup>	With days away from work <sup>5</sup>	
<b>Transportation and public utilities<sup>7</sup></b> .....		6,578.1	466.9	284.1	196.7	182.8	447.2	274.3	189.4	172.9
Railroad transportation <sup>7</sup> .....	40	-	8.8	6.8	5.8	2.0	8.7	6.7	5.7	2.0
Local and interurban passenger transit .....	41	463.3	33.8	17.5	12.9	16.3	33.1	17.4	12.8	15.8
Trucking and warehousing .....	42	1,804.1	158.8	93.2	65.7	65.6	156.4	91.5	64.2	64.9
Water transportation .....	44	187.2	13.6	7.5	6.4	6.1	13.0	7.4	6.3	5.7
Transportation by air .....	45	1,243.1	137.0	96.6	67.7	40.5	132.3	93.6	65.3	38.6
Pipelines, except natural gas .....	46	13.2	.7	.4	.3	.4	.7	.4	.3	.4
Transportation services .....	47	457.5	15.9	9.1	5.5	6.8	14.7	8.6	5.3	6.1
Communications .....	48	1,548.5	45.8	25.0	17.7	20.8	39.4	21.8	15.4	17.5
Electric, gas, and sanitary services .....	49	859.6	52.4	27.9	14.6	24.5	49.0	27.0	14.1	22.0
<b>Wholesale and retail trade</b> .....		29,715.7	1,459.4	648.8	427.7	810.6	1,426.4	631.3	416.0	795.1
Wholesale trade .....		6,903.0	416.3	217.1	136.1	199.2	404.9	210.6	132.0	194.3
Wholesale trade—durable goods .....	50	4,102.2	222.0	105.6	67.2	116.4	216.4	102.4	65.1	114.0
Wholesale trade—nondurable goods .....	51	2,800.8	194.2	111.4	68.9	82.8	188.5	108.2	66.9	80.3
Retail trade .....		22,812.7	1,043.1	431.7	291.6	611.4	1,021.5	420.7	284.0	600.8
Building materials and garden supplies .....	52	989.1	73.0	33.3	20.9	39.6	71.9	33.0	20.6	38.9
General merchandise stores .....	53	2,782.6	176.9	95.4	48.7	81.5	174.2	93.3	47.3	80.8
Food stores .....	54	3,490.5	201.1	85.6	60.4	115.4	195.0	82.4	58.2	112.6
Automotive dealers and service stations .....	55	2,375.7	126.3	47.2	36.5	79.1	124.6	46.4	35.7	78.2
Apparel and accessory stores .....	56	1,174.2	26.1	11.1	7.6	15.0	25.3	10.5	7.3	14.7
Furniture and home furnishings stores .....	57	1,082.2	44.1	22.0	14.9	22.1	43.6	21.7	14.7	21.9
Eating and drinking places .....	58	7,954.4	304.2	97.2	76.9	207.0	299.8	95.9	76.0	204.0
Miscellaneous retail .....	59	2,963.9	91.5	39.9	25.7	51.6	87.2	37.5	24.2	49.7
<b>Finance, insurance, and real estate</b> .....		7,399.5	124.6	51.6	39.5	72.9	109.7	45.8	35.3	63.9
Depository institutions .....	60	2,044.8	28.2	10.5	8.0	17.7	24.2	8.8	6.8	15.3
Nondepository institutions .....	61	707.1	6.5	2.3	1.8	4.2	5.4	2.0	1.5	3.5
Security and commodity brokers .....	62	688.0	4.2	1.9	1.8	2.2	3.6	1.7	1.6	1.9
Insurance carriers .....	63	1,477.4	26.4	9.4	7.3	17.0	19.9	6.8	5.5	13.1
Insurance agents, brokers, and service .....	64	754.0	6.4	2.1	1.6	4.3	5.6	1.8	1.4	3.8
Real estate .....	65	1,493.5	50.1	24.6	18.5	25.5	48.5	24.0	18.1	24.6
Holding and other investment offices .....	67	234.7	2.9	.9	.5	2.0	2.5	.7	.4	1.8
<b>Services</b> .....		36,374.0	1,319.5	602.8	394.9	716.7	1,252.2	578.0	378.3	674.2
Hotels and other lodging places .....	70	1,835.8	114.9	54.6	30.6	60.3	110.9	52.9	29.7	58.0
Personal services .....	72	1,226.1	26.9	14.3	9.3	12.6	25.5	13.7	8.9	11.8
Business services .....	73	9,248.0	174.9	79.7	55.1	95.2	166.8	75.9	52.9	91.0
Auto repair, services, and parking .....	75	1,192.9	65.4	31.3	25.4	34.1	64.2	30.6	24.8	33.5
Miscellaneous repair services .....	76	375.7	18.4	9.2	6.5	9.1	18.0	9.0	6.4	8.9
Motion pictures .....	78	599.4	11.1	3.1	2.1	8.0	10.6	2.9	2.0	7.7
Amusement and recreation services .....	79	1,706.5	77.2	34.1	19.4	43.1	73.1	32.2	18.6	40.9
Health services .....	80	9,946.9	596.5	275.0	173.5	321.5	561.0	264.4	165.8	296.6
Legal services .....	81	995.3	9.1	3.8	3.1	5.4	7.3	3.0	2.4	4.3
Educational services .....	82	1,667.0	33.6	12.3	9.7	21.2	31.8	11.8	9.4	20.0
Social services .....	83	2,674.9	111.6	53.6	38.2	58.0	109.0	52.1	37.0	56.9
Museums, botanical, zoological gardens .....	84	99.7	4.9	1.8	1.2	3.2	4.7	1.7	1.1	3.0

See footnotes at end of table.

TABLE 2. Number of nonfatal occupational injuries and illnesses by selected industries and case types, 1999 — Continued

(In thousands)

Industry <sup>1</sup>	SIC code <sup>2</sup>	1999 Annual average employment <sup>3</sup>	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total <sup>4</sup>	With days away from work <sup>5</sup>			Total <sup>4</sup>	With days away from work <sup>5</sup>	
Membership organizations .....	86	1,060.6	22.5	9.0	6.3	13.5	21.7	8.6	5.9	13.1
Engineering and management services .....	87	3,262.9	51.7	20.8	14.4	30.9	46.8	18.9	13.1	27.9
Services, n.e.c. ....	89	50.4	.8	.2	.2	.5	.7	.2	.2	.5

<sup>1</sup> Totals include data for industries not shown separately.  
<sup>2</sup> *Standard Industrial Classification Manual*, 1987 Edition.  
<sup>3</sup> Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program.  
<sup>4</sup> Total lost workday cases involve days away from work, days of restricted work activity, or both.  
<sup>5</sup> Days-away-from-work cases include those which result in days away from work with or without restricted work activity.  
<sup>6</sup> Excludes farms with fewer than 11 employees.  
<sup>7</sup> Data conforming to OSHA definitions for mining operators in coal, metal,

and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals. Dash indicates data not available. The n.e.c. abbreviation means that the category includes those components not elsewhere classified.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

**TABLE 3. Incidence rates<sup>1</sup> of nonfatal occupational injuries by industry division and employment size, 1999**

Industry division	All establishments	Establishment employment size (workers)				
		1 to 10	11 to 49	50 to 249	250 to 999	1,000 or more
Private industry <sup>2</sup> .....	5.9	2.3	5.1	7.7	6.7	6.0
Agriculture, forestry, and fishing <sup>2</sup> .....	7.0	4.7	7.4	7.5	7.7	8.2
Mining <sup>3</sup> .....	4.1	2.2	5.8	4.8	3.4	1.2
Construction .....	8.4	5.5	9.0	10.5	7.7	2.8
Manufacturing .....	8.0	3.9	7.9	9.5	7.6	6.9
Durable goods .....	8.8	5.0	9.7	10.7	8.2	7.3
Nondurable goods .....	6.8	2.2	5.0	8.0	6.9	6.0
Transportation and public utilities <sup>3</sup> .....	7.0	2.2	6.0	8.9	6.1	7.7
Wholesale and retail trade .....	6.0	2.1	5.2	8.0	8.8	6.5
Wholesale trade .....	6.1	2.4	5.6	8.1	8.5	4.4
Retail trade .....	6.0	2.0	5.1	8.0	8.9	7.0
Finance, insurance, and real estate .....	1.6	1.2	1.6	2.2	1.8	1.1
Services .....	4.6	1.5	3.1	6.2	5.8	6.1

<sup>1</sup> The incidence rates represent the number of injuries per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

N = number of injuries  
 EH = total hours worked by all employees during the calendar year  
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

<sup>2</sup> Excludes farms with fewer than 11 employees.

<sup>3</sup> Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

**TABLE 4. Number of cases and incidence rates<sup>1</sup> of nonfatal occupational injuries for private sector industries with 100,000 or more cases, 1999**

Industry <sup>2</sup>	SIC code <sup>3</sup>	Total cases (thousands)	Incidence rate
Eating and drinking places .....	581	299.8	5.5
Hospitals .....	806	271.7	8.5
Nursing and personal care facilities .....	805	188.6	13.2
Grocery stores .....	541	182.3	8.1
Department stores .....	531	159.7	8.7
Trucking and courier services, except air .....	421	140.1	8.6
Motor vehicles and equipment .....	371	129.2	12.2
Air transportation, scheduled .....	451	119.7	13.9
Hotels and motels .....	701	108.3	7.6

<sup>1</sup> The incidence rates represent the number of injuries per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

N = number of injuries  
 EH = total hours worked by all employees during the calendar year  
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

<sup>2</sup> Industries with 100,000 or more cases were determined by analysis of the number of cases at the 3-digit SIC code level.

<sup>3</sup> *Standard Industrial Classification Manual*, 1987 Edition.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

TABLE 5. Number of nonfatal occupational illnesses by industry division and selected case types, 1999

(In thousands)

Industry division	Total cases	Lost workday cases		Cases without lost workdays	Total cases of disorders associated with repeated trauma
		Total <sup>1</sup>	With days away from work <sup>2</sup>		
Private industry <sup>3</sup> .....	372.3	166.9	81.6	205.4	246.7
Agriculture, forestry, and fishing <sup>3</sup> .....	5.0	1.3	.9	3.7	1.0
Mining <sup>4</sup> .....	1.2	.7	.6	.5	.7
Construction .....	8.4	3.7	3.2	4.7	3.1
Manufacturing .....	222.9	103.4	37.0	119.6	172.4
Durable goods .....	145.0	63.0	25.2	82.0	110.2
Nondurable goods .....	77.9	40.4	11.7	37.5	62.3
Transportation and public utilities <sup>4</sup> .....	19.6	9.7	7.3	9.9	11.3
Wholesale and retail trade .....	33.0	17.5	11.7	15.5	19.1
Wholesale trade .....	11.4	6.5	4.1	4.9	7.4
Retail trade .....	21.6	11.0	7.6	10.6	11.7
Finance, insurance, and real estate .....	14.9	5.9	4.2	9.0	11.5
Services .....	67.3	24.8	16.6	42.5	27.7

<sup>1</sup> Total lost workday cases involve days away from work, days of restricted work activity, or both.

<sup>2</sup> Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

<sup>3</sup> Excludes farms with fewer than 11 employees.

<sup>4</sup> Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are

provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals.  
SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

TABLE 6. Incidence rates<sup>1</sup> of occupational injuries and illnesses for private industry by selected case types, 1973-99

Year <sup>2</sup>	Injuries and illnesses				Injuries			
	Total cases	Lost workday cases		Cases without lost workdays	Total cases	Lost workday cases		Cases without lost workdays
		Total <sup>3</sup>	With days away from work <sup>4</sup>			Total <sup>3</sup>	With days away from work <sup>4</sup>	
1973 .....	11.0	3.4	—	7.5	10.6	3.3	—	7.3
1974 .....	10.4	3.5	—	6.9	10.0	3.4	—	6.6
1975 .....	9.1	3.3	3.2	5.8	8.8	3.2	3.1	5.6
1976 .....	9.2	3.5	3.3	5.7	8.9	3.4	3.2	5.5
1977 .....	9.3	3.8	3.6	5.5	9.0	3.7	3.5	5.3
1978 <sup>5</sup> .....	9.4	4.1	3.8	5.3	9.2	4.0	3.7	5.2
1979 <sup>5</sup> .....	9.5	4.3	4.0	5.2	9.2	4.2	3.9	5.0
1980 .....	8.7	4.0	3.7	4.7	8.5	3.9	3.6	4.6
1981 .....	8.3	3.8	3.5	4.5	8.1	3.7	3.4	4.4
1982 .....	7.7	3.5	3.2	4.2	7.6	3.4	3.2	4.1
1983 <sup>5</sup> .....	7.6	3.4	3.2	4.2	7.5	3.4	3.1	4.1
1984 <sup>5</sup> .....	8.0	3.7	3.4	4.3	7.8	3.6	3.3	4.2
1985 .....	7.9	3.6	3.3	4.3	7.7	3.6	3.3	4.2
1986 .....	7.9	3.6	3.3	4.3	7.7	3.6	3.3	4.2
1987 .....	8.3	3.8	3.4	4.4	8.0	3.7	3.3	4.3
1988 .....	8.6	4.0	3.5	4.6	8.3	3.8	3.4	4.4
1989 .....	8.6	4.0	3.4	4.6	8.2	3.9	3.3	4.4
1990 .....	8.8	4.1	3.4	4.7	8.3	3.9	3.3	4.5
1991 .....	8.4	3.9	3.2	4.5	7.9	3.7	3.1	4.2
1992 <sup>6</sup> .....	8.9	3.9	3.0	5.0	8.3	3.6	2.9	4.7
1993 <sup>6</sup> .....	8.5	3.8	2.9	4.8	7.9	3.5	2.7	4.4
1994 <sup>6</sup> .....	8.4	3.8	2.8	4.6	7.7	3.5	2.6	4.2
1995 <sup>6</sup> .....	8.1	3.6	2.5	4.4	7.5	3.4	2.4	4.1
1996 <sup>6</sup> .....	7.4	3.4	2.2	4.1	6.9	3.1	2.1	3.8
1997 <sup>6</sup> .....	7.1	3.3	2.1	3.8	6.6	3.1	2.0	3.5
1998 <sup>6</sup> .....	6.7	3.1	2.0	3.5	6.2	2.9	1.9	3.3
1999 <sup>6</sup> .....	6.3	3.0	1.9	3.3	5.9	2.8	1.8	3.1

<sup>1</sup> The incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

N = number of injuries and illnesses  
 EH = total hours worked by all employees during the calendar year  
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

<sup>2</sup> Data for 1973-75 are based on the *Standard Industrial Classification Manual*, 1967 Edition; data for 1976-87 are based on the *Standard Industrial Classification Manual*, 1972 Edition; and data for 1988-99 are based on the *Standard Industrial Classification Manual*, 1987 Edition. Data for 1976-99 exclude farms with fewer than 11 employees. The recordkeeping guidelines

for occupational injuries and illnesses were revised in 1986, and the Survey of Occupational Injuries and Illnesses was redesigned in 1992.

<sup>3</sup> Total lost workday cases involve days away from work, days of restricted work activity, or both.

<sup>4</sup> Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

<sup>5</sup> To maintain historical comparability with the rest of the series, data for small nonfarm employers in low-risk industries who were not surveyed were imputed and included in the survey estimates.

<sup>6</sup> Data exclude fatal work-related injuries and illnesses.

NOTE: Because of rounding, components may not add to totals. Dash indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

TABLE 7. Incidence rates<sup>1</sup> of nonfatal occupational injuries and illnesses by industry division and selected case types, 1996-99

Industry division	Total cases				Lost workday cases								Cases without lost work days			
					Total <sup>2</sup>				With days away from work <sup>3</sup>							
	1996	1997	1998	1999	1996	1997	1998	1999	1996	1997	1998	1999	1996	1997	1998	1999
Private industry <sup>4</sup> .....	7.4	7.1	6.7	6.3	3.4	3.3	3.1	3.0	2.2	2.1	2.0	1.9	4.1	3.8	3.5	3.3
Agriculture, forestry, and fishing <sup>4</sup> .....	8.7	8.4	7.9	7.3	3.9	4.1	3.9	3.4	3.0	3.0	3.0	2.4	4.8	4.2	4.0	3.9
Mining <sup>5</sup> .....	5.4	5.9	4.9	4.4	3.2	3.7	2.9	2.7	2.5	2.9	2.2	2.0	2.2	2.1	2.0	1.7
Construction .....	9.9	9.5	8.8	8.6	4.5	4.4	4.0	4.2	3.7	3.6	3.3	3.3	5.4	5.0	4.8	4.4
Manufacturing .....	10.6	10.3	9.7	9.2	4.9	4.8	4.7	4.6	2.5	2.4	2.3	2.2	5.7	5.4	5.0	4.6
Durable goods .....	11.6	11.3	10.7	10.1	5.1	5.1	5.0	4.8	2.7	2.6	2.5	2.4	6.5	6.2	5.7	5.3
Nondurable goods .....	9.2	8.8	8.2	7.8	4.6	4.4	4.3	4.2	2.3	2.0	2.0	1.9	4.6	4.3	3.9	3.6
Transportation and public utilities <sup>5</sup> .....	8.7	8.2	7.3	7.3	5.1	4.8	4.3	4.4	3.8	3.7	3.2	3.1	3.6	3.4	3.0	2.8
Wholesale and retail trade .....	6.8	6.7	6.5	6.1	2.9	3.0	2.8	2.7	2.1	2.0	1.8	1.8	3.9	3.7	3.6	3.4
Wholesale trade .....	6.6	6.5	6.5	6.3	3.4	3.2	3.3	3.3	2.3	2.1	2.1	2.0	3.3	3.3	3.2	3.0
Retail trade .....	6.9	6.8	6.5	6.1	2.8	2.9	2.7	2.5	2.0	1.9	1.8	1.7	4.1	3.9	3.8	3.6
Finance, insurance, and real estate ...	2.4	2.2	1.9	1.8	.9	.9	.7	.8	.7	.7	.5	.6	1.4	1.4	1.2	1.1
Services .....	6.0	5.6	5.2	4.9	2.6	2.5	2.4	2.2	1.8	1.7	1.5	1.5	3.4	3.1	2.9	2.6

<sup>1</sup> The incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000, where

N = number of injuries and illnesses  
 EH = total hours worked by all employees during the calendar year  
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

<sup>2</sup> Total lost workday cases involve days away from work, days of restricted work activity, or both.

<sup>3</sup> Days-away-from-work cases include those which result in days away from work with or without

restricted work activity.

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

<sup>5</sup> Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor, and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor