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WORKPLACE INJURIES AND ILLNESSES IN 1996

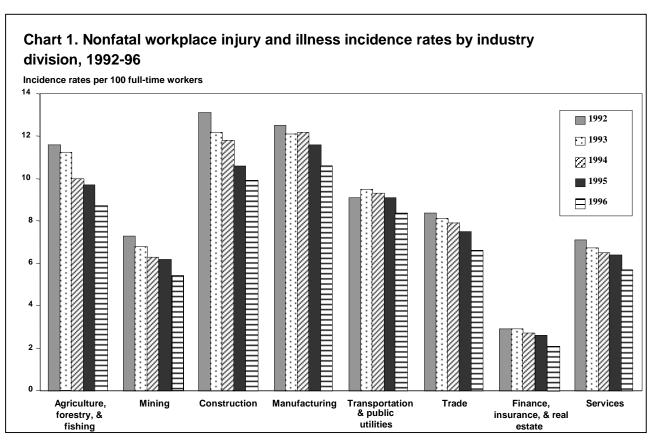
A total of 6.2 million injuries and illnesses were reported in private industry workplaces during 1996, resulting in a rate of 7.4 cases per 100 equivalent full-time workers, according to a survey by the Bureau of Labor Statistics, U.S. Department of Labor. Employers reported a 5 percent decrease in the number of cases and a 3 percent increase in hours worked compared with 1995, reducing the case rate from 8.1 in 1995 to 7.4 in 1996. The rate for 1996 was the lowest on record since the Bureau began reporting this information in the early 1970s. (See "Background of the Survey" for a discussion of the factors that can influence rate changes from one survey to the next.)

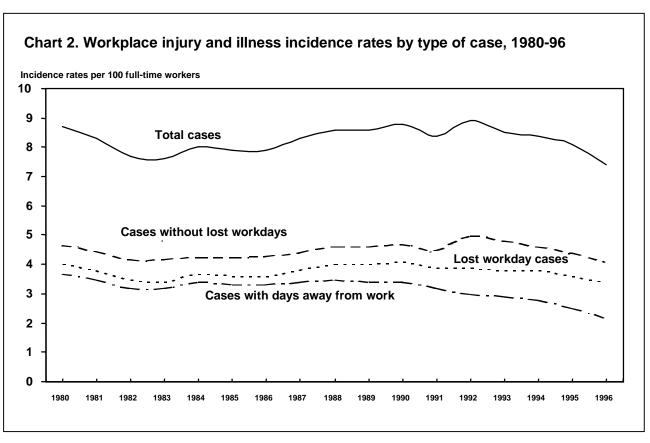
The following tabulation on incidence rates for injuries and illnesses shows the decline in rates per 100 full-time workers since 1992:

	1992	1993	1994	1995	1996
Private industry	8.9	8.5	8.4	8.1	7.4
Goods-producing	12.4	11.9	11.9	11.2	10.2
Service-producing	7.3	7.1	6.9	6.7	6.2

Among goods-producing industries, manufacturing had the highest incidence rate in 1996 (10.6 cases per 100 full-time workers), followed by construction (9.9 cases per 100 full-time workers). (See chart 1 and table 1.) Within the service-producing sector, the highest incidence rate in 1996 was reported for transportation and public utilities (8.7 cases per 100 full-time workers), followed by retail and wholesale trade industries (6.8 cases per 100 workers).

This release is the second in a series of three releases pertaining to 1996 from the BLS safety and health statistical series. The first release, in August 1997, covered work-related fatalities from the 1996 National Census of Fatal Occupational Injuries. In April 1998, a third release will provide details on the more seriously injured and ill workers (occupations, 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.

Lost workday cases

About 2.8 million injuries and illnesses in 1996 were lost workday cases, that is, they required recuperation away from work or restricted duties at work, or both. (See table 2.) The incidence rate for lost workday cases has declined steadily from 4.1 cases per 100 full-time workers in 1990 to 3.4 cases per 100 workers in 1996. (See chart 2.) The rate for cases with days away from work has declined for six years in a row and, at 2.2 cases per 100 full-time workers in 1996, was the lowest level on record. By contrast, the rate for cases involving restricted work activity only rose from 0.7 cases per 100 workers in 1990 to 1.1 cases in 1995 and remained at that level in 1996. The latter types of cases may involve shortened hours, a temporary job change, or temporary restrictions on certain duties (e.g., no heavy lifting) of a worker's regular job. They are especially evident in manufacturing, where the rate of restricted work activity cases (2.4 per 100 full-time workers) is more than double the corresponding national rate.

Injuries and Illnesses

Injuries. Of the 6.2 million nonfatal injuries and illnesses in 1996, nearly 5.8 million were injuries that resulted in either lost worktime, medical treatment other than first aid, loss of consciousness, restriction of work or motion, or transfer to another job. Injury rates generally are higher for mid-size establishments 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 1.8 million injuries, or 31 percent of the 5.8 million total. (See table 4.)

Illnesses. There were about 439,000 newly reported cases of occupational illnesses in private industry in 1996. 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 6.2 million workplace injuries and illnesses. They were, however, the dominant type of illness reported, making up 64 percent of the 439,000 total illness cases. (See "Background of the Survey" for limitations on kinds of illnesses reported.) The number of repeated trauma cases reported in 1996 (281,000) was 9 percent lower than the corresponding 1995 figure (308,000) and 15 percent lower than the record 1994 figure (332,000).

Background of the Survey

The Survey of Occupational Injuries and Illnesses is a Federal/State program in which employer reports are collected from about 165,000 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; and employees in federal, 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.

The survey measures the number of new work-related illness cases which are recognized, diagnosed, and reported during the year. Some conditions, e.g., 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 (e.g., contact dermatitis or carpal tunnel syndrome).

Establishments are classified in industry categories based on the 1987 Standard Industrial Classification (SIC) Manual, as defined by the Office of Management and Budget. In the trucking and warehousing and transportation by air industries, SIC coding changes that were introduced with the 1996 BLS Covered Employment and Wages program were incorporated into the estimates for the 1996 survey. Because of these changes, estimates for 1996 for the following industries are not comparable to estimates for prior years: trucking and warehousing (SIC 42); trucking and courier services, excluding air (SIC 421); public warehousing and storage (SIC 422); trucking terminal facilities (SIC 423); transportation by air (SIC 45); air transportation, scheduled (SIC 451); air transportation industries, nonscheduled (SIC 452); transportation services (SIC 478). In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

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 1996 incidence rate for all occupational injuries and illnesses of 7.4 per 100 full-time workers in private industry has an estimated relative standard error of about 0.7 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 in 1998.

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 202-606-6179 or from the BLS Internet at: http://stats.bls.gov/oshhome.htm.

Table 1. Incidence rates¹ of nonfatal occupational injuries and illnesses, by industry division, selected industries and case type, 1996

		1006		Injuries ar	nd illnesses			Inju	ıries	
		1996 Annual		Lost work	day cases			Lost work	day cases	
Industry ²	SIC code ³	average employ- ment ⁴ (000's)	Total cases	Total ⁵	With days away from work ⁶	Cases without lost workdays	Total cases	Total ⁵	With days away from work ⁶	Cases without lost workdays
Private industry ⁷		98,772.9	7.4	3.4	2.2	4.1	6.9	3.1	2.1	3.8
Agriculture, forestry, and fishing 7		1,717.4	8.7	3.9	3.0	4.8	8.4	3.8	2.9	4.6
Agricultural production 7	01-02	752.2	9.4	4.3	3.4	5.1	8.9	4.1	3.2	4.8
Agricultural production-crops ⁷	01 02 07 08 09	579.7 172.4 927.6 25.3 12.3	8.4 12.8 8.3 6.8 8.2	3.8 6.0 3.7 3.2 2.7	2.9 4.8 2.7 2.5 2.3	4.6 6.8 4.7 3.6 5.5	8.0 12.1 8.0 6.6 7.6	3.7 5.7 3.6 3.1 2.5	2.8 4.7 2.6 2.5 2.1	4.3 6.4 4.5 3.5 5.1
Mining ⁸		578.3	5.4	3.2	2.5	2.2	5.3	3.2	2.4	2.1
Metal mining ⁸ Coal mining ⁸ Oil and gas extraction Nonmetallic minerals, except fuels ⁸ Construction	10 12 13 14	53.9 97.6 319.5 107.4 5,359.7	5.0 8.0 5.0 4.8	2.9 5.8 2.7 2.9	1.7 5.4 1.8 2.2	2.1 2.1 2.3 1.9	4.7 7.7 4.8 4.7	2.8 5.7 2.6 2.9	1.6 5.3 1.7 2.2	2.0 2.0 2.2 1.8
General building contractors Heavy construction, except building	15 16	1,256.1 770.7	9.0 9.0	4.0 4.3	3.3	5.0 4.7	8.9 8.8	3.9 4.2	3.2	5.0 4.6
Special trade contractors	17	3,332.9	10.4	4.8	4.0	5.7	10.3	4.7	3.9	5.6
Manufacturing		18,460.5	10.6	4.9	2.5	5.7	9.2	4.3	2.3	4.9
Durable goods		10,774.4	11.6	5.1	2.7	6.5	10.1	4.5	2.4	5.6
Lumber and wood products Furniture and fixtures Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Instruments and related products Miscellaneous manufacturing industries	24 25 32 33 34 35 36 37 38 39	777.9 503.6 544.1 709.6 1,447.1 2,108.4 1,655.4 1,785.2 853.3 389.9	14.2 12.2 12.4 15.0 14.4 9.9 6.8 16.3 5.1 9.5	6.8 5.4 6.0 6.8 6.2 4.0 3.1 7.0 2.3 4.4	4.2 2.7 3.7 3.6 3.5 2.3 1.5 3.1 1.1 2.2	7.4 6.9 6.4 8.2 8.2 5.9 3.7 9.3 2.9 5.0	13.5 10.6 11.6 13.8 13.3 9.1 5.4 12.5 3.9 8.3	6.5 4.7 5.7 6.4 5.7 3.7 2.5 5.6 1.7 3.8	4.0 2.4 3.6 3.4 3.3 2.1 1.2 2.6 .9 2.0	7.1 6.0 5.9 7.4 7.6 5.4 3.0 6.9 2.2 4.5
Nondurable goods		7,686.0	9.2	4.6	2.3	4.6	7.9	3.9	2.1	3.9
Food and kindred products Tobacco products Textile mill products Apparel and other textile products Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics	20 21 22 23 26 27 28 29	1,690.0 40.6 627.6 866.1 681.9 1,533.1 1,029.8 141.3	15.0 6.7 7.8 7.4 7.9 6.0 4.8 4.6	8.0 2.8 3.6 3.3 3.8 2.8 2.4 2.5	3.5 2.1 1.4 1.8 2.0 1.8 1.1	7.1 3.9 4.2 4.1 4.0 3.2 2.5 2.1	12.2 6.3 6.7 5.8 7.2 5.5 4.2 4.3	6.4 2.6 3.2 2.5 3.6 2.6 2.1 2.4	3.2 2.0 1.3 1.4 1.9 1.7 1.0	5.8 3.7 3.5 3.3 3.5 2.9 2.1 1.9
productsLeather and leather products	30 31	979.9 95.7	12.3 10.7	6.3 4.5	3.2 2.3	6.0 6.2	11.2 8.5	5.7 3.5	2.9 1.9	5.5 5.0
Transportation and public utilities 8,9		5,989.0	8.7	5.1	3.8	3.6	8.4	5.0	3.7	3.4
Railroad transportation ⁸ Local and interurban passenger transit Trucking and warehousing ⁹ Water transportation Transportation by air ⁹ Pipelines, except natural gas Transportation services ⁹ Communications Electric, gas, and sanitary services	40 41 42 44 45 46 47 48 49	- 416.3 1,622.7 176.5 1,119.2 14.5 414.7 1,345.2 878.9	3.5 10.3 10.4 9.8 17.9 2.0 3.5 3.5 6.9	2.7 5.4 5.9 5.2 11.8 .8 1.6 1.9 3.6	2.3 4.5 5.0 4.8 7.9 .6 1.1 1.5 2.0	.8 4.8 4.5 4.6 6.1 1.3 1.9 1.6 3.3	3.4 9.7 10.2 9.6 17.3 1.9 3.4 3.1 6.5	2.6 5.3 5.7 5.1 11.5 .7 1.6 1.8 3.5	2.3 4.4 4.9 4.7 7.7 .6 1.1 1.3 1.9	.8 4.4 4.5 4.5 5.8 1.2 1.8 1.3 3.0

See footnotes at end of table.

Table 1. Incidence rates1 of nonfatal occupational injuries and illnesses, by industry division, selected industries and case type, 1996 Continued

		1996		Injuries ar	nd illnesses			Inju	ıries	
	SIC	Annual		Lost work	day cases	Cases		Lost work	day cases	Cases
Industry ²	code ³	average employ- ment ⁴ (000's)	Total cases	Total ⁵	With days away from work ⁶		Total cases	Total ⁵	With days away from work ⁶	without lost workdays
Wholesale and retail trade		28,027.1	6.8	2.9	2.1	3.9	6.6	2.8	2.0	3.8
Wholesale trade		6,471.7	6.6	3.4	2.3	3.3	6.5	3.3	2.3	3.2
Wholesale tradedurable goodsWholesale tradenondurable goods	50 51	3,802.9 2,668.8	6.2 7.3	3.0 4.0	2.1 2.7	3.2 3.3	6.0 7.1	2.9 3.9	2.0 2.7	3.1 3.2
Retail trade		21,555.3	6.9	2.8	2.0	4.1	6.7	2.7	1.9	4.0
Building materials and garden supplies General merchandise stores Food stores Automotive dealers and service stations Apparel and accessory stores Eating and drinking places Miscellaneous retail Finance, insurance, and real estate Depository institutions Nondepository institutions Security and commodity brokers Insurance carriers Insurance agents, brokers, and service Real estate Holding and other investment offices	52 53 54 55 56 57 58 59 60 61 62 63 64 65 67	883.9 2,679.0 3,425.6 2,261.0 1,113.3 967.8 7,516.7 2,708.0 6,746.2 2,014.9 512.2 551.5 1,376.9 707.0 1,372.0 211.7	9.6 9.7 9.4 6.8 3.7 4.7 6.2 4.1 2.4 1.8 1.1 6.2 2.1 1.4 5.4 2.8	4.5 4.8 3.9 2.5 1.5 2.2 1.9 1.9 .6 .4 .2 .7 .4 2.4 1.3	3.1 2.7 3.0 1.9 1.0 1.6 1.5 1.4 .7 .5 .3 .1 .5 .3	5.1 4.9 5.5 4.3 2.1 2.5 4.3 2.2 1.4 1.2 .6 .4 1.4 1.0 2.9 1.5	9.5 9.5 9.0 6.6 3.6 6.1 3.9 2.1 1.6 9.5 1.6 1.1 5.3 2.6	4.5 4.6 3.7 2.4 1.5 2.2 1.9 1.8 8 .5 .4 2.2 .5 .3 2.4 1.9	3.1 2.6 2.8 1.8 .9 1.6 1.5 1.3 .6 .4 .3 .1 .4 .2 1.9	5.0 4.8 5.4 4.2 2.1 2.4 4.2 2.1 1.3 1.1 .6 .3 1.1 .8 2.9
Services		31,894.7	6.0	2.6	1.8	3.4	5.7	2.5	1.8	3.2
Hotels and other lodging places	70 72 73 75 76 79 80 81 82 83 86 87	1,699.0 1,181.5 7,336.3 1,081.0 374.2 1,524.8 9,439.2 930.3 1,472.8 2,347.3 975.4 2,865.5	9.0 3.8 3.9 5.9 6.3 9.5 9.1 1.1 3.4 7.2 3.5 2.0	4.5 1.8 1.7 2.5 3.0 4.4 3.7 .4 1.3 3.1 1.3	2.7 1.2 1.3 2.1 2.4 2.5 2.7 .4 1.0 2.4 1.1	4.6 2.0 2.2 3.4 3.3 5.1 5.4 .7 2.0 4.0 2.1	8.8 3.5 3.7 5.7 6.1 9.1 8.5 .8 3.2 7.0 3.3 1.8	4.3 1.7 1.6 2.5 2.9 4.2 3.5 .3 1.3 3.0 1.2	2.7 1.1 1.2 2.1 2.3 2.4 2.6 .2 1.0 2.3 1.0	4.4 1.8 2.0 3.2 3.2 4.9 4.9 5 1.9 3.9 2.0

¹ 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

= number of injuries and illnesses

EΗ = 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).

⁸ 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.

9 In 1996, air courier operations previously classified in Industry Groups
421, 422, 423, 452, 473, and 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for these SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

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

² Totals include data for industries not shown separately.

Standard Industrial Classification Manual, 1987 Edition.

Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program. Employment for private households (SIC 88) is excluded.

5 Total bot worlden exercises.

Total lost workday cases involve days away from work, or days of restricted work activity, or both.

⁶ Days-away-from-work cases include those which result in days away from

work with or without restricted work activity.

⁷ Excludes farms with fewer than 11 employees.

Table 2. Number of nonfatal occupational injuries and illnesses, by industry division, selected industries and case type, 1996

				Injuries an	nd illnesses		Injuries				
		1996 Annual		Lost work	day cases			Lost work	day cases		
Industry ¹	SIC code ²	average employ- ment ³ (000's)	Total cases (000's)	Total ⁴ (000's)	With days away from work ⁵ (000's)	Cases without lost workdays (000's)	Total cases (000's)	Total ⁴ (000's)	With days away from work ⁵ (000's)	Cases without lost workday: (000's)	
Private industry ⁶		98,772.9	6,238.9	2,832.5	1,880.6	3,406.4	5,799.9	2,646.3	1,785.8	3,153.6	
Agriculture, forestry, and fishing ⁶		1,717.4	113.0	50.6	38.3	62.4	108.4	49.0	37.0	59.4	
Agricultural production ⁶	01-02	752.2	47.9	22.0	17.1	25.9	45.5	21.1	16.4	24.4	
Agricultural production-crops ⁶	01 02 07 08 09	579.7 172.4 927.6 25.3 12.3	32.6 15.2 63.0 1.3 .8	14.9 7.1 27.7 .6 .3	11.4 5.7 20.4 .5	17.8 8.1 35.3 .7 .6	31.1 14.4 60.8 1.3	14.3 6.8 27.0 .6 .2	10.9 5.5 19.8 .5 .2	16.8 7.6 33.8 .7 .5	
Mining 7		578.3	33.3	19.9	15.1	13.4	32.4	19.5	14.7	12.9	
Metal mining ⁷ Coal mining ⁷ Oil and gas extraction Nonmetallic minerals, except fuels ⁷	10 12 13 14	53.9 97.6 319.5 107.4	2.4 7.8 16.8 6.3	1.4 5.7 9.0 3.8	.8 5.3 6.1 2.9	1.0 2.1 7.8 2.5	2.3 7.5 16.4 6.2	1.3 5.5 8.8 3.8	.8 5.2 5.9 2.8	.9 2.0 7.6 2.4	
Construction		5,359.7	483.8	220.5	182.3	263.2	476.1	216.8	179.1	259.3	
General building contractors Heavy construction, except building Special trade contractors	15 16 17	1,256.1 770.7 3,332.9	102.8 65.5 315.5	45.5 31.2 143.9	37.2 24.8 120.4	57.3 34.3 171.6	101.3 64.3 310.5	44.7 30.8 141.4	36.5 24.4 118.1	56.6 33.5 169.2	
Manufacturing		18,460.5	1,952.9	899.6	462.2	1,053.3	1,688.0	782.9	419.5	905.1	
Durable goods		10,774.4	1,261.6	554.5	292.9	707.1	1,095.3	486.7	265.3	608.6	
Lumber and wood products Furniture and fixtures Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Instruments and related products Miscellaneous manufacturing industries	24 25 32 33 34 35 36 37 38 39	777.9 503.6 544.1 709.6 1,447.1 2,108.4 1,655.4 1,785.2 853.3 389.9	107.7 61.4 68.3 111.0 211.6 212.8 112.7 297.4 43.2 35.5	51.2 26.9 33.3 50.2 91.4 86.5 51.6 127.8 19.1 16.7	31.6 13.7 20.6 26.9 51.7 49.0 24.6 57.0 9.5 8.3	56.4 34.5 35.1 60.8 120.3 126.3 61.2 169.7 24.1 18.8	102.6 53.4 64.2 101.7 195.1 195.6 90.1 228.3 33.3 31.0	49.0 23.4 31.5 47.0 84.1 79.8 40.7 102.6 14.4 14.2	30.6 12.1 19.7 25.3 48.3 46.0 20.2 48.1 7.7 7.3	53.6 30.0 32.6 54.7 111.0 115.9 49.3 125.7 18.9	
Nondurable goods		7,686.0	691.3	345.1	169.3	346.2	592.7	296.2	154.3	296.5	
Food and kindred products Tobacco products Textile mill products Apparel and other textile products Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics	20 21 22 23 26 27 28 29	1,690.0 40.6 627.6 866.1 681.9 1,533.1 1,029.8 141.3	252.1 2.6 48.1 60.1 55.4 84.4 50.3 6.7	133.6 1.1 22.3 26.6 27.0 39.5 24.7 3.6	59.2 .8 9.0 14.3 14.1 25.1 11.5	118.5 1.5 25.8 33.6 28.4 44.9 25.7 3.1	205.0 2.5 41.6 47.0 50.3 77.2 43.7 6.3	107.4 1.0 20.1 20.6 25.3 36.1 22.2 3.5	53.7 .8 8.3 11.7 13.2 23.5 10.6 1.7	97.5 1.4 21.5 26.4 25.0 41.2 21.5 2.8	
productsLeather and leather products	30 31	979.9 95.7	121.7 9.9	62.6 4.2	31.6 2.2	59.1 5.8	111.3 7.9	56.7 3.3	29.2 1.7	54.6 4.6	
Transportation and public utilities ^{7,8}		5,989.0	514.4	301.8	224.0	212.6	494.6	293.0	217.3	201.6	
Railroad transportation 7	40 41 42 44 45 46 47 48 49	- 416.3 1,622.7 176.5 1,119.2 14.5 414.7 1,345.2 878.9	8.8 32.3 170.8 15.1 166.9 .3 13.5 45.4 61.2	6.7 17.1 96.5 8.0 110.2 .1 6.3 25.0 31.8	5.8 14.3 82.2 7.4 73.6 .1 4.3 18.9	2.1 15.1 74.2 7.1 56.7 .2 7.2 20.4 29.5	8.7 30.6 168.2 14.8 161.5 .3 13.0 40.0 57.5	6.6 16.7 94.7 7.9 107.4 .1 6.0 22.8 30.8	5.8 13.9 80.6 7.3 71.5 .1 4.1 17.3 16.7	2.0 13.9 73.5 6.9 54.2 .2 7.0 17.2 26.7	

See footnotes at end of table.

Table 2. Number of nonfatal occupational injuries and illnesses, by industry division, selected industries and case type, 1996 — Continued

				Injuries ar	nd illnesses			Inju	uries	
		1996 Annual		Lost work	day cases			Lost work	day cases	6
Industry ¹	SIC code ²	average employ- ment ³ (000's)	Total cases (000's)	Total ⁴ (000's)	With days away from work ⁵ (000's)	Cases without lost workdays (000's)	Total cases (000's)	Total ⁴ (000's)	With days away from work ⁵ (000's)	Cases without lost workdays (000's)
Wholesale and retail trade		28,027.1	1,530.5	657.4	466.8	873.1	1,491.1	637.8	452.3	853.3
Wholesale trade		6,471.7	412.9	209.9	144.7	203.1	402.0	203.9	140.6	198.1
Wholesale tradedurable goodsWholesale tradenondurable goods	50 51	3,802.9 2,668.8	228.6 184.3	109.7 100.2	76.3 68.4	118.9 84.2	222.0 180.0	106.1 97.8	73.5 67.1	115.9 82.2
Retail trade		21,555.3	1,117.5	447.5	322.1	670.0	1,089.1	433.9	311.7	655.2
Building materials and garden supplies General merchandise stores Food stores Automotive dealers and service stations Apparel and accessory stores Furniture and homefurnishings stores Eating and drinking places Miscellaneous retail Finance, insurance, and real estate Depository institutions Nondepository institutions Security and commodity brokers Insurance agents, brokers, and service	52 53 54 55 56 57 58 59 60 61 62 63 64	883.9 2,679.0 3,425.6 2,261.0 1,113.3 967.8 7,516.7 2,708.0 6,746.2 2,014.9 512.2 551.5 1,376.9 707.0	77.5 193.8 232.0 145.0 28.6 39.8 315.1 85.7 144.3 33.4 5.2 2.9 27.0 8.8 61.8	36.4 95.9 95.5 53.0 11.9 96.1 40.1 55.9 11.4 2.1 1.0 8.5 2.6	25.3 54.4 73.7 40.0 7.5 13.8 78.2 29.0 42.8 9.0 1.6 .8 6.6 2.1 21.7	41.1 97.9 136.5 92.0 16.7 21.1 219.1 45.7 88.4 22.0 3.1 1.8 18.5 6.2	76.7 189.9 223.8 141.1 28.0 38.7 309.7 81.3 128.5 28.7 4.6 2.5 20.3 7.1	36.1 93.2 91.1 51.4 11.5 18.2 94.6 37.7 49.5 9.2 1.8 9.0 1.9	25.0 52.7 70.3 38.6 7.3 13.3 76.9 27.6 38.0 7.3 1.3 .7 4.8 1.6	40.6 96.6 132.7 89.6 16.4 20.5 215.1 43.6 79.0 19.5 2.8 1.6 14.2 5.2
Real estate Holding and other investment offices	65 67	1,372.0 211.7	5.2	28.0 2.4	1.1	33.8 2.9	60.4 5.0	27.5 2.2	21.3 1.0	32.9 2.7
Services		31,894.7	1,466.8	626.7	449.1	840.1	1,380.8	597.8	428.1	783.0
Hotels and other lodging places Personal services Business services Auto repair, services, and parking Miscellaneous repair services Amusement and recreation services Health services Legal services Educational services Social services Membership organizations Engineering and management services	70 72 73 75 76 79 80 81 82 83 86	1,699.0 1,181.5 7,336.3 1,081.0 374.2 1,524.8 9,439.2 930.3 1,472.8 2,347.3 975.4 2,865.5	123.4 34.7 182.2 58.1 22.0 94.0 681.7 8.9 36.7 131.6 23.2 53.2	60.9 16.8 79.8 25.0 10.5 43.4 277.9 3.5 14.5 57.8 8.8	37.6 10.6 59.8 20.8 8.5 24.7 201.4 3.0 11.3 44.8 7.7	62.5 17.9 102.4 33.0 11.5 50.6 403.8 5.4 22.2 73.8 14.4 31.1	119.9 32.4 171.4 56.3 21.5 89.9 632.6 6.8 34.9 128.4 21.8 48.6	59.1 15.6 75.7 24.6 10.2 41.8 264.6 2.3 14.0 55.9 8.2 20.5	36.4 9.8 57.2 20.4 8.2 24.1 191.4 1.9 11.0 43.1 7.0	60.8 16.8 95.8 31.7 11.2 48.1 368.0 4.5 20.9 72.5 13.6 28.1

¹ Totals include data for industries not shown separately.

Transportation. Independent mining contractors are excluded from the coal,

metal, and nonmetal mining industries.

8 In 1996, air courier operations previously classified in Industry Groups
421, 422, 423, 452, 473, and 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for these SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

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

Standard Industrial Classification Manual, 1987 Edition.

³ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program. Employment for private households (SIC 88) is excluded.

⁴ Total lost workday cases involve days away from work, or days of

restricted work activity, or both.

⁵ Days-away-from-work cases include those which result in days away from

work with or without restricted work activity.

⁶ Excludes farms with fewer than 11 employees.
7 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

Table 3. Incidence rates1 of nonfatal injuries by industry division and employment size, 1996

		Establishment employment size (workers)										
Industry division	All establish- ments	1 to 10	11 to 49	50 to 249	250 to 999	1,000 or more						
Private industry ²	6.9	2.7	5.9	8.9	8.1	7.2						
Agriculture, forestry, and fishing ²	8.4	6.7	7.8	10.8	7.3	5.7						
Mining ³	5.3	3.4	5.6	6.3	5.0	3.8						
Construction	9.7	6.0	11.3	11.8	8.0	3.1						
Manufacturing	9.2	4.0	9.0	11.0	8.6	8.2						
Durable goods	10.1	5.0	10.5	12.2	9.3	8.9						
Nondurable goods	7.9	2.3	6.6	9.4	7.8	6.7						
Transportation and public utilities 3,4	8.4	2.6	8.4	9.5	8.8	9.1						
Wholesale and retail trade	6.6	2.5	5.8	8.8	9.9	7.4						
Wholesale trade	6.5	2.7	5.9	8.7	8.6	6.1						
Retail trade	6.7	2.5	5.8	8.9	10.3	7.7						
Finance, insurance, and real estate	2.1	1.8	2.1	2.7	2.2	1.4						
Services	5.7	1.6	3.2	7.8	7.8	7.2						

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

= number of injuries

EΗ = 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).

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.

4 In 1996, air courier operations previously classified in Industry Groups

421, 422, 423, 452, 473, and 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for these SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided

Table 4. Nonfatal occupational injuries: number of cases and incidence rates, per 100 full-time workers,1 for industries with 100,000 or more injury cases, 1996

Industry ²	SIC code ³	Total cases (000's)	Incidence rate
Eating and drinking places	581	309.7	6.1
Hospitals	806	300.2	10.0
Nursing and personal care facilities	805	221.9	16.2
Grocery stores	541	211.6	9.7
Department stores	531	172.8	9.8
Trucking and courier services, except air ⁴	421	153.3	10.2
Motor vehicles and equipment	371	148.9	14.9
Air transportation, scheduled ⁴	451	148.4	18.6
Hotels and motels	701	118.3	8.9

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

= number of injuries

N 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).

Industries with 100,000 or more cases were determined by analysis of the number of cases at the 3-digit SIC code level.
3 Standard Industrial Classification Manual, 1987 Edition.

Standard Industrial Classification Manual, 1987 Edition.

⁴ In 1996, air courier operations previously classified in Industry Groups 421, 422, 423, 452, 473, and 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for these SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years.

Table 5. Number of nonfatal occupational illnesses, by industry division and case type, 1996

		Lost work	day cases	Cases	Disorders
Industry division	Total cases (000's)	Total ¹ (000's)	With days away from work ² (000's)	without lost workdays (000's)	associated with repeated trauma (000's)
Private industry ³	439.0	186.2	94.7	252.8	281.1
Agriculture, forestry, and fishing ³	4.6	1.7	1.3	3.0	.9
Mining ⁴	.9	.4	.4	.5	.5
Construction	7.6	3.7	3.3	3.9	2.6
Manufacturing	264.9	116.7	42.7	148.2	203.0
Durable goods	166.3	67.8	27.6	98.5	124.4
Nondurable goods	98.6	48.9	15.1	49.7	78.7
Transportation and public utilities 4,5	19.7	8.8	6.8	11.0	10.8
Wholesale and retail trade	39.4	19.6	14.5	19.8	22.8
Wholesale trade	10.9	6.0	4.1	4.9	6.6
Retail trade	28.5	13.6	10.3	14.8	16.2
Finance, insurance, and real estate	15.8	6.3	4.8	9.5	12.4
Services	86.0	28.9	21.0	57.1	28.2

 $^{^{\}mbox{\scriptsize 1}}$ Total lost workday cases involve days away from work, or days of restricted work activity, or both.

² Days-away-from-work cases include those which result in days away from

and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

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

work with or without restricted work activity.

Excludes farms with fewer than 11 employees.
 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.

Table 6. Occupational injury and illness incidence rates per 100 full-time workers, 1 1973-962

		Injuries an	d illnesses			Inju	ries	
Vaar		Lost work	day cases	0		Lost work	day cases	0
Year	Total cases	Total ³	With days away from work ⁴	Cases without lost workdays	Total cases	Total ³	With days away from work ⁴	Cases without lost workdays
1973	9.5 8.7 8.3 7.7 7.6 8.0 7.9 7.9 8.3 8.6 8.6 8.8	3.4 3.5 3.3 3.5 3.8 4.1 4.3 4.0 3.8 3.5 3.4 3.7 3.6 3.6 3.8 4.0 4.0	- 3.2 3.3 3.6 3.8 4.0 3.7 3.5 3.2 3.2 3.2 3.4 3.3 3.3 3.4 3.5 3.4	7.5 6.9 5.8 5.7 5.5 5.3 5.2 4.7 4.5 4.2 4.3 4.3 4.3 4.3 4.4 4.6 4.6	10.6 10.0 8.8 8.9 9.0 9.2 9.2 8.5 8.1 7.6 7.5 7.8 7.7 7.7 8.0 8.3 8.2 8.3	3.3 3.4 3.2 3.4 3.7 4.0 4.2 3.9 3.7 3.4 3.6 3.6 3.6 3.6 3.7 3.8 3.9	- 3.1 3.2 3.5 3.7 3.9 3.6 3.4 3.2 3.1 3.3 3.3 3.3 3.3 3.3	7.3 6.6 5.6 5.5 5.3 5.2 5.0 4.6 4.4 4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.4
1991 1992 ⁶ 1993 ⁶ 1994 ⁶ 1995 ⁶	8.4 8.9 8.5 8.4 8.1 7.4	3.9 3.9 3.8 3.8 3.6 3.4	3.2 3.0 2.9 2.8 2.5 2.2	4.5 5.0 4.8 4.6 4.4 4.1	7.9 8.3 7.9 7.7 7.5 6.9	3.7 3.6 3.5 3.5 3.4 3.1	3.1 2.9 2.7 2.6 2.4 2.1	4.2 4.7 4.4 4.2 4.1 3.8

¹ 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

= number of injuries and illnesses

= total hours worked by all employees during EΗ

the calendar year

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

per year).

NOTE: Because of rounding, components may not add to the totals. Data for 1976-1996 exclude farms with fewer than 11 employees.

² Data for 1973-1975 are based on the Standard Industrial Classification Manual, 1967 Edition; data for 1976-1987 are based on the Standard Industrial Classification Manual, 1972 Edition; and data for 1988-1996 are based on the Standard Industrial Classification Manual, 1987 Edition.

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

4 Days-away from

Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

To maintain historical activity.

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.

⁶ Data exclude fatal work-related injuries and illnesses.

Data not available.

Table 7. Incidence rates of nonfatal occupational injuries and illnesses, by industry division, 1993-96

					Lost workday cases											
Industry division	Total cases			Total ²			With days away from work ³				Cases without lost workdays					
	1993	1994	1995	1996	1993	1994	1995	1996	1993	1994	1995	1996	1993	1994	1995	1996
Private industry ⁴	8.5	8.4	8.1	7.4	3.8	3.8	3.6	3.4	2.9	2.8	2.5	2.2	4.8	4.6	4.4	4.1
Agriculture, forestry, and fishing ⁴ Mining ⁵	11.2 6.8	10.0 6.3	9.7 6.2	8.7 5.4	5.0 3.9	4.7 3.9	4.3 3.9	3.9 3.2	4.2 3.3	3.9 3.3	3.4 3.3	3.0 2.5	6.2 2.9	5.2 2.4	5.4 2.4	4.8 2.2
Construction	12.2 12.1	11.8 12.2	10.6 11.6	9.9 10.6	5.5 5.3	5.5 5.5	4.9 5.3	4.5 4.9	4.9 3.3	4.9 3.2	4.2 2.9	3.7 2.5	6.7 6.8	6.3 6.8	5.8 6.3	5.4 5.7
Durable goods	13.1 10.7	13.5 10.5	12.8 9.9	11.6 9.2	5.4 5.0	5.7 5.1	5.6 4.9	5.1 4.6	3.5 3.0	3.5 2.8	3.1 2.5	2.7 2.3	7.7 5.7	7.8 5.3	7.2 4.9	6.5 4.6
Transportation and public utilities ^{5,6} Wholesale and retail trade Wholesale trade	9.5 8.1 7.8	9.3 7.9 7.7	9.1 7.5 7.5	8.7 6.8 6.6	5.4 3.4 3.7	5.5 3.4 3.8	5.2 3.2 3.6	5.1 2.9 3.4	4.3 2.8 2.8	4.2 2.7 2.8	3.9 2.4 2.6	3.8 2.1 2.3	4.1 4.7 4.1	3.9 4.4 3.9	3.9 4.3 3.9	3.6 3.9 3.3
Retail trade	8.2 2.9	7.7 7.9 2.7	7.5 2.6	6.9 2.4	3.7 3.3 1.2	3.3 1.1	3.0 1.0	2.8 .9	2.7 1.0	2.6 .9	2.3	2.0 .7	4.9 1.7	4.6 1.6	4.5 1.6	4.1 1.4
Services	6.7	6.5	6.4	6.0	2.8	2.8	2.8	2.6	2.3	2.2	2.0	1.8	3.9	3.7	3.6	3.4

¹ 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

Ν = number of injuries and illnesses

EΗ = 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).

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.

⁶ In 1996, air courier operations previously classified in Industry Groups 421, 422, 423, 452, 473, and 478 were reclassified to Industry Group 451. As a result, the 1996 estimates for these SIC's and Major Industry Groups 42, 45, and 47 are not comparable to those for prior years. In addition, the 1996 estimates for transportation and public utilities may have more variability than those for prior years.

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³ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

Excludes farms with fewer than 11 employees.
 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