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National Census of Fatal Occupational Injuries in 2002

A total of 5,524 fatal work injuries were recorded in 2002, a decline of 6.6 percent from 2001, according to the Census of Fatal Occupational Injuries, conducted by the Bureau of Labor Statistics, U.S. Department of Labor. The count for 2002 was the lowest ever recorded by the fatality census, which has been conducted yearly since 1992. The fatality rate also reached a new low of 4.0 fatal work injuries per 100,000 workers in 2002.

In 2001, 5,915 fatal work injuries occurred, excluding the 2,886 work-related fatalities that resulted from the Sept. 11 terrorist attacks, which were tabulated separately. The comparisons in this release do not include the fatalities related to the terrorist attacks.

Profile of 2002 fatal work injuries by type of incident

Fatal highway incidents were down 3 percent from 2001, but continued to be the most frequent type of fatal workplace event in 2002, accounting for about a quarter of all fatal work injuries. Other types of fatal transportation events also declined, including aircraft incidents (down 22 percent) and workers struck by vehicle or mobile equipment (down 7 percent). Overall, fatal work injuries from transportation incidents declined for the fourth year in a row, from 2,645 in 1998 to 2,381 in 2002.

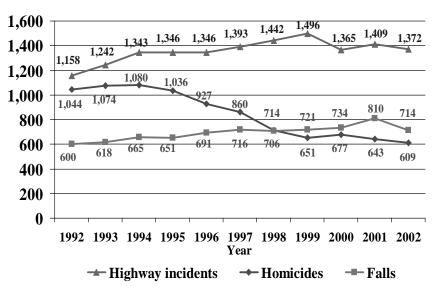
Workplace homicides were down about 5 percent in 2002, from 643 in 2001 to 609 in 2002. The number of workplace homicides in 2002 was the lowest recorded in the fatality census and represented a 44 percent decline from the high of 1,080 workplace homicides recorded in 1994. Workplace suicides also were down in 2002.

Fatalities resulting from falls declined for the first time since 1998, from 810 in 2001 to 714 in 2002, a drop of 12 percent. Virtually all types of fatal falls declined in 2002, though falls from ladders and falls from nonmoving vehicles increased slightly.

The only major fatality event recording an increase was exposure to harmful substances or environments (up 8 percent). The increase in this event category was led by a sharp increase in the number of fatalities involving contact with temperature

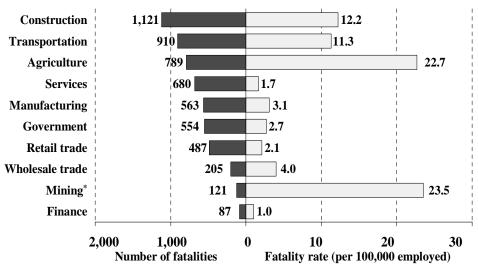
Chart 1. The three most frequent work-related fatal events, 1992-2002





NOTE: Data from 2001 exclude fatalities resulting from September 11 terrorist attacks. SOURCE: US Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 2002.

Chart 2. Numbers and rates of fatal occupational injuries by industry division, 2002



*Includes all establishments categorized as Mining (Division B) in the Standard Industrial Classification Manual, 1987 Edition, including establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in Oil and Gas Extraction.

Rate = (Fatal work injuries/Employmenty x 100,000 employed. Employment data extracted from the 2002 Current Population Survey (CPS). The fatality rates were calculated using employment as the denominator; employment-based rates measure the risk for those employed during a given period of time, regardless of exposure bours.

SOURCE: US Operation of Labor, Diagrams of Labor Sustitiscs, Census of Fatal Occupational Injuries, 2002.

extremes (such as heat stroke), which increased from 35 fatalities in 2001 to 60 in 2002. Electrocutions also increased slightly in 2002.

Profile of fatal work injuries by industry

Construction continued to record the highest number of fatal injuries of any major industry, although the total for construction was down 9 percent from the series high recorded in 2001. Fatal work injuries in mining also were lower, due to declines in coal mining and in oil and gas extraction. Fatal work injuries in manufacturing, transportation and public utilities, retail and wholesale trade, services, and government also declined from 2001 levels.

Fatal work injuries in the agriculture, forestry, and fishing industry increased about 6 percent in 2002, due to increases in forestry and in agricultural crop production fatalities. Fatal work injuries in commercial fishing--historically one of the more hazardous industries--were down sharply, from 60 in 2001 to 31 in 2002.

Rates of fatal work injury in 2002 were highest in the mining, agriculture/forestry/fishing, construction, and transportation/public utilities industries. The mining industry recorded a rate of 23.5 fatal work injuries per 100,000 workers in 2002, the highest of any major industry, but down about 22 percent from the rate recorded in 2001. Fatal work injury rates for all other major industries also were down in 2002, except in finance, insurance, and real estate (unchanged) and in transportation and public utilities (up slightly).

Profile of fatal work injuries by occupation

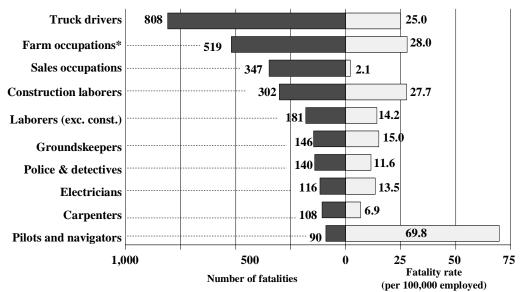
Operators, fabricators, and laborers accounted for 1,895 fatal work injuries in 2002, the most of any major occupational group and about a third of the fatal work injuries reported in 2002. However, the number of fatalities for this occupational group declined for the third consecutive year and was down about 7 percent from 2001. Fatal work injuries among machine operators, assemblers, and inspectors were down sharply in 2002, and fatalities involving transportation and material moving occupations also were lower.

Fatal work injuries among construction laborers also declined in 2002, from a series high of 350 in 2001 to 302 fatalities in 2002--a decline of 14 percent. However, fatalities among laborers, except construction, were higher by about 8 percent in 2002. Overall, fatalities in handler, equipment cleaner, helper, and laborer occupations were down about 10 percent. Truck drivers--who had more fatal injuries than any other individual occupation-- recorded 808 fatal work injuries, a slight increase from the 802 fatalities recorded in 2001.

Precision production, craft, and repair workers accounted for 1,104 fatal work injuries in 2002 or about one-fifth of the overall total. While fatal work injuries in this occupational group were down about 3 percent overall in 2002, fatalities in the

Chart 3. Numbers and rates of fatal occupational injuries for selected occupations, 2002

Average fatality rate for all occupations: 4.0



*Farm occupations include the following: Non-horticultural farmers, non-horticultural farm managers, farm workers, and farm worker supervisors.

Rate = (Fatal work injuries/Employment) x 100,000 workers. Employment data extracted from the 2002 Current Population Survey (CPS). The fatality rates were calculated using employment as the denominator; employment-based rates measure the risk for those employed during a given period of time, regardless of exposure hours.

SOURCE: US Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 2002.

construction trades sub-group were slightly higher. The 682 fatal work injuries in the construction trades in 2002 was the highest recorded by the fatality census for that group. Roofers, electricians, brick masons, and painters were among the construction trades recording increases in 2002. Mechanics and repairers recorded a lower number of fatal work injuries in 2002, and fatalities involving extractive occupations were down 40 percent in 2002.

Service occupations also recorded fewer fatal work injuries in 2002 than in 2001 (down 6 percent), as did managerial and professional specialty occupations (down 20 percent) and technical, sales, and administrative support occupations (down 7 percent). The number of fatal work injuries in farming, forestry, and fishing, however, increased from 804 in 2001 to 840 in 2002, a rise of about 4 percent. In that group, forestry and logging workers, groundskeepers, farm workers, and farming operators/ managers were among the occupations recording increases.

Rates of fatal injury were down for all major occupational categories in 2002. However, a few smaller occupational groups recorded higher rates in 2002, including construction trades, forestry and logging occupations, and water transportation occupations.

Profile of fatal work injuries by demographic characteristics

Fatal work injuries were down in almost every demographic category-- men and women, wage and salary and self-employed workers, and virtually all age groups. Fatal work injuries among workers 19 years of age and under went from 175 in 2001 to 133 in 2002, a decline of 24 percent.

Fatal work injuries among white, non-Hispanic workers were down about 6 percent. Fatal work injuries among Hispanic workers, which had been rising each year since 1995, also were down by 6 percent in 2002. However, the 840 fatal work injuries recorded for Hispanic workers in 2002 accounted for the second highest annual total for that population. Among black workers, a total of 491 fatalities were recorded—the lowest annual count ever for that population.

Profile of fatal work injuries by state

Thirty states and the District of Columbia had fewer fatal work injuries in 2002 than in 2001. Two states (New Jersey and North Dakota) had the same number of fatalities in both 2001 and 2002, and the remaining 18 states reported increases. Nine states reported series lows in 2002.

For more detailed state results, contact the individual state agency responsible for the collection of CFOI data in that state. A list of those agencies, with telephone numbers, is provided in table 6.

Background of the program

The Census of Fatal Occupational Injuries, part of the BLS occupational safety and health statistics program, provides the most complete count of fatal work injuries available. The program uses diverse state and federal data sources to identify, verify, and profile fatal work injuries. Information about each workplace fatality (occupation and other worker characteristics, equipment being used, and circumstances of the event) is obtained by cross-referencing source documents, such as death certificates, workers' compensation records, and reports to federal and state agencies. This method assures counts are as complete and accurate as possible.

This is the 11th year that the fatality census has been conducted in all 50 states and the District of Columbia. The BLS fatality census is a federal/state cooperative venture in which costs are shared equally. Additional state-specific data are available from the participating agencies listed in table 6.

Another BLS program, the Survey of Occupational Injuries and Illnesses, profiles worker and case characteristics of nonfatal workplace injuries and illnesses that result in lost work time and presents frequency counts and incidence rates by industry. Copies of the news release on nonfatal injuries and illnesses in 2001 are available from BLS by calling (202) 691-6179 or by accessing the website listed below. Incidence rates for 2002

by industry will be published in December 2003, and information on 2002 worker and case characteristics will be available in the spring of 2004. For additional data, access the BLS Internet site: http://www.bls.gov/iif/.

To request a copy of BLS Report 970 which highlights 2001 fatality results and includes a summary of the work-related fatalities that resulted from the terrorist events of September 11, 2001, e-mail your address to CFOIstaff@bls.gov or write to Bureau of Labor Statistics, 2 Massachusetts Avenue, NE, Room 3180, Washington, DC 20212.

Table 1. Fatal occupational injuries by event or exposure, 1997-2002

	Fatalities						
Event or exposure ¹	1997-2001	2001 ²	2002				
	average	Number	Number	Percent			
Total	6,036	5,915	5,524	100			
Transportation incidents	2,593	2,524	2,381	43			
Highway	1,421	1,409	1,372	25			
Collision between vehicles, mobile equipment	697	727	635	11			
Moving in same direction	126	142	155	3			
Moving in opposite directions, oncoming	254	257	202	4			
Moving in intersection	148	138	145	3			
Vehicle struck stationary object or equipment	300	297	326	6			
Noncollision	369	339	373	7			
Jackknifed or overturnedno collision	300	273	312	6			
			_	-			
Nonhighway (farm, industrial premises)	368	326	322	6			
Overturned	202	158	164	3			
Aircraft	248	247	192	3			
Worker struck by a vehicle	382	383	356	6			
Water vehicle	99	90	71	1			
Rail vehicle	68	62	64	1			
Assaults and violent acts	964	908	840	15			
Homicides	709	643	609	11			
Shooting	567	509	469	8			
Stabbing	64	58	58	1			
Other, including bombing	78	76	82	1			
Self-inflicted injuries	221	230	199	4			
Contact with objects and equipment	995	962	873	16			
Struck by object	562	553	506	9			
Struck by falling object	352	343	303	5			
Struck by flying object	58	60	38	1			
	290	266	231	4			
Caught in or compressed by equipment or objects			_				
Caught in running equipment or machinery	156	144	110	2			
Caught in or crushed in collapsing materials	126	122	116	2			
Falls	737	810	714	13			
Fall to lower level	654	700	634	11			
Fall from ladder	111	123	126	2			
Fall from roof	155	159	143	3			
Fall from scaffold	91	91	87	2			
Fall on same level	61	84	63	1			
Exposure to harmful substances or environments	529	499	538	10			
Contact with electric current	291	285	289	5			
Contact with overhead powerlines	134	124	122	2			
	41			1			
Contact with temperature extremes		35	60				
Exposure to caustic, noxious, or allergenic substances	106	96	98	2			
Inhalation of substance	52	49	49	1			
Oxygen deficiency	89	83	90	2			
Drowning, submersion	71	59	60	1			
Fires and explosions	197	188	165	3			
Other events or exposures ³	21	24	13				

Based on the 1992 BLS Occupational Injury and Illness Classification Structures.
 The BLS news release issued September 25, 2002 reported a total of 5,900 fatal work injuries for calendar year 2001. Since then, an additional 15 job-related fatalities were identified, bringing the total job-related fatality count for 2001 to 5,915. Totals for 2001 exclude fatalities from the September 11 terrorist attacks.

³ Includes the category "Bodily reaction and exertion."

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding. Dash indicates less than 0.5 percent.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, 1997-2002.

Table 2. Fatal occupational injuries and employment by industry, 2002

		Fatalities					2002
Industry		1997- 2001 average	2001 (revised) ²	200)2	2002 Employment ³	Fatalities per 100,000
		Number	Number	Number	Percent		employed ⁴
Total		6,036	5,915	5,524	100	137,700	4.0
Private industry		5,438	5,281	4,970	90	116,863	4.2
Agriculture, forestry, and fishing	01 02 07	790 337 156 183	741 301 129 191	789 338 129 198	14 6 2 4	3,417 899 989 1,437	22.7 37.0 12.5 13.8
Mining ⁵ Coal mining Oil and gas extraction	12 13	151 36 78	170 42 98	121 25 71	2 - 1	515 87 308	23.5 28.7 23.1
Construction General building contractors Heavy construction, except building Special trades contractors	15 16 17	1,171 193 271 689	1,226 202 267 735	1,121 189 246 661	20 3 4 12	9,163 - - -	12.2 - - -
Manufacturing Food and kindred products Lumber and wood products	20 24	686 72 180	598 57 151	563 64 142	10 1 3	18,072 1,640 706	3.1 3.9 20.1
Transportation and public utilities Local and interurban passenger transportation Trucking and warehousing Transportation by air Electric, gas, and sanitary services	41 42 45 49	960 91 569 83 86	915 80 536 85 88	910 60 584 71 81	16 1 11 1 1	8,060 683 2,777 800	11.3 8.8 21.0 8.9
Wholesale trade		232	220	205	4	5,065	4.0
Retail trade Food stores Automotive dealers and service stations Eating and drinking places	54 55 58	577 144 99 138	538 132 83 148	487 100 68 126	9 2 1 2	22,900 - - 7,217	2.1 - - 1.7
Finance, insurance, and real estate		92	86	87	2	8,940	1.0
Services	73 75	753 186 125	772 192 116	680 165 114	12 3 2	40,820 7,101 1,597	1.7 2.3 7.1
Government ⁶ Federal (including resident armed forces) State Local Police Protection	9221	599 157 118 315 108	634 162 112 335 212	554 137 92 313 108	10 2 2 6 2	20,837 4,493 5,711 10,634	2.7 3.0 1.6 2.9

¹ Standard Industrial Classification Manual, 1987 Edition.

² The BLS news release issued September 25, 2002 reported a total of 5,900 fatal work injuries for calendar year 2001. Since then, an additional 15 job-related fatalities were identified, bringing the total job-related fatality count for 2001 to 5,915. Totals for 2001 exclude fatalities from the September 11 terrorist attacks.

3 Employment is an annual average of employed civilians 16 years of age and older from the Current Population Survey,

^{2002,} adjusted to include data for resident armed forces from the Department of Defense.

⁴The rate represents the number of fatal occupational injuries per 100,000 employed workers and was calculated as follows: (N/W) x 100,000, where N = the number of fatal work injuries, and W = the number of employed workers. There were 16 fatally injured workers under the age of 16 years that were not included in the rate calculations to maintain consistency with the CPS employment. Relative standard errors are available upon request.

⁵ Includes fatalities at all establishments categorized as Mining (Division B) in the Standard Industrial Classification Manual, 1987 Edition, including establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in Oil and Gas Extraction.

⁶ Includes fatalities to workers employed by government organizations regardless of industry.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding. There were 7 fatalities for which there was insufficient information to determine a specific industry classification, although a distinction between private sector and government was made for each. Dashes indicate less than 0.5 percent or data that are not available or that do not meet publication criteria.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, 1997-2002.

Table 3. Fatal occupational injuries by occupation and selected event or exposure, 2002

Table 3. Fatal occupational injuries by occupation and Occupation ¹		lities	Selected event or exposure ² (percent of total for occupation)			
	Number	Percent	Highway ³	Homicide	Struck by object	Fall to lower level
Total	5,524	100	25	11	9	11
Managerial and professional specialty Executive, administrative, and managerial Managers, food serving and lodging establishments	513 319 46	9 6 1	23 23 7	20 27 80	4 5 -	7 8 -
Professional specialty	194	4	22	10	3	6
Technical, sales, and administrative support	595 155 90 347 162 132 47 93	11 3 2 6 3 2 1 2	22 12 - 20 12 17 - 42	35 5 52 61 58 85 24	3 3 4 -	3 2 - 4 - 4 -
Protective service occupations. Firefighting occupations, including supervisors. Police and detectives, including supervisors. Guards, including supervisors. Cleaning and building services.	483 272 52 140 80 92	9 5 1 3 1 2	23 30 38 34 16 13	32 35 - 41 46 15	3 3 - - 7	6 - - - - 25
Farming, forestry, and fishing Farm operators and managers Farmers, except horticultural Other agricultural and related occupations Farm occupations, except managerial Farm workers Related agricultural occupations Groundskeepers and gardeners, except farm Forestry and logging occupations Timber cutting and logging occupations Fishers, hunters, and trappers Fishers, including vessel captains and officers	840 337 306 366 198 183 168 146 104 72 33 33	15 6 7 4 3 3 2 1 1	14 14 13 13 15 15 11 12 19 6	2 - 2 4 2 - - -	20 17 18 13 9 9 17 17 62 74	7 4 4 11 4 4 20 22 -
Precision production, craft, and repair Mechanics and repairers Construction trades Carpenters and apprentices Electricians and apprentices Roofers Structural metal workers Extractive occupations	1,104 274 682 108 116 87 39 58	20 5 12 2 2 2 1 1	13 18 11 9 9	3 4 1 - - -	9 15 5 6 - - 14	28 13 38 56 15 68 69 10
Operators, fabricators, and laborers Machine operators, assemblers, and inspectors Transportation and material moving occupations Motor vehicle operators Truck drivers Taxicab drivers and chauffeurs Material moving equipment operators Handlers, equipment cleaners, helpers, and laborers Construction laborers Laborers, except construction	1,895 168 1,143 952 808 51 153 584 302 181	34 3 21 17 15 1 3 11 5 3	39 5 57 67 69 37 7 12 11 12 26	5 4 5 6 2 59 5 2 4	9 12 8 6 7 21 11 13 11	9 16 3 3 3 7 7 19 24 14

Based on the 1990 Occupational Classification System developed by the Bureau of the Census.

² The figure shown is the percent of the total fatalities for that occupational group. Event or exposure categories are based on the 1992 BLS Occupational Injury and Illness Classification Structures.

³ "Highway" includes deaths to vehicle occupants resulting from traffic incidents that occur on the public roadway, shoulder, or surrounding area. It excludes incidents occurring entirely off the roadway, such as in parking lots and on farms; incidents involving trains; and deaths to pedestrians or other nonpassengers.

⁴Resident armed forces.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding. There were 9 fatalities for which there was insufficient information to determine an occupation classification. Dashes indicate less than 0.5 percent or data that are not available or that do not meet publication criteria. SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, 2002.

Table 4. Fatal occupational injuries and employment by selected worker characteristics, 2002

Characteristics	Fata	Fatalities		yment sands) ¹	Most frequent events ²	
	Number	Percent	Number	Percent	(percent of total)	
Total	5,524	100	137,700	100	Highway (25), falls (13)	
Employee status						
Wage and salary workers Self-employed ³	4,472 1,052	81 19	127,818 9,882	93 7	Highway (27), falls (13) Homicides (15), highway (15)	
Sex						
Men	5,083 441	92 8	73,939 63,761	54 46	Highway (24), falls (13) Homicides (31), highway (30)	
Age⁴						
Under 16 years	16 25 92 435 1,020 1,402	- 2 8 18 25	2,333 4,115 13,753 30,711 35,486	- 2 3 10 22 26	Nonhighway (38) Highway (24) Highway (27) Highway (24), falls (11) Highway (24), homicides (14) Highway (26), homicides (12)	
45 to 54 years	1,250 783 494	23 14 9	31,319 15,676 4,306	23 11 3	Highway (24) Highway (27), falls (15) Highway (23), falls (18)	
Race or ethnic origin⁵						
White	3,917 491 840	71 9 15	99,256 14,064 16,699	72 10 12	Highway (26), falls (13) Highway (27), homicides (23) Highway (21), falls (16)	
American Indian or Alaskan Native	40 131	1 2	-	- -	Highway (30) Homicides (40), highway (15)	
Native Hawaiian or Pacific Islander Other races or not reported	9	- 2	-	-	Highway (56) Homicides (28), highway (23)	

¹ Employment is an annual average of employed civilians 16 years of age and older from the Current Population Survey, 2002, adjusted to include data for resident armed forces from the Department of Defense.

NOTE: Totals may include subcategories not shown separately. Percentages may not add to totals because of rounding. Dashes indicate less than 0.5 percent or data that are not available or that do not meet publication criteria. SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, 2002

² Based on the 1992 BLS Occupational Injury and Illness Classification Structures. "Highway" includes deaths to vehicle occupants resulting from traffic incidents that occur on the public roadway, shoulder, or surrounding area. It excludes incidents occurring entirely off the roadway, such as in parking lots and on farms. "Nonhighway" includes transport-related deaths of vehicle occupants that occur or originate entirely off the roadway. Incidents involving trains and deaths to pedestrians or other nonpassengers are excluded from both categories.

³ Includes paid and unpaid family workers and may include owners of incorporated businesses or members of partnerships.

⁴ There were 7 fatalities for which age was not reported.

⁵ The categories "White" and "Black or African American" do not include "Hispanic or Latino" persons. Persons identified as Hispanic or Latino may be of any race.

Table 5. Fatal occupational injuries by state and event or exposure, 2002

	Total f	atalities ¹	Event or exposure ² (percent of state total for 200.				e total for 2002)	or 2002)	
State of injury	2001 ³ (revised)	2002 ⁴	Transpor- tation incidents ⁵	Assaults and violent acts ⁶	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions	
Total	5,915	5,524	43	15	16	13	10	3	
Northeast	724	708	38	19	16	15	8	4	
Connecticut	41	39	46	18	13	-	_	_	
Maine	23	30	83	-	-	_	_	_	
Massachusetts	54	46	30	20	24	20	_	_	
New Hampshire	9	19	47	-	26	-	_	_	
New Jersey	129	129	36	22	10	16	11	5	
New York (including N.Y.C.).	220	238	30	24	17	19	7	4	
New York City	100	100	16	36	15	25	7	-	
Pennsylvania	225	188	41	12	18	13	11	4	
Rhode Island	17	8	-	62	-	-	-	-	
Vermont	6	11	-	-	-	-	-	-	
Midwest	1,371	1,315	41	15	19	12	10	3	
Illinois	231	190	31	23	17	15	10	4	
Indiana	152	136	40	17	22	7	12	-	
lowa	62	56	38	-	29	18	11	-	
Kansas	94	89	43	10	22	11	10	-	
Michigan	175	151	31	23	19	12	11	3	
Minnesota	76		54	-	21	10	10	-	
Missouri	145	175	47	14	13	14	8	3	
Nebraska	57	83	52	10	20	7	7	-	
North Dakota	25	25	64	-	-	45	-	-	
Ohio	209	202	39	15	20	15	9	-	
South Dakota	35	36	56	- 11	25	10	- 11	-	
Wisconsin	110	91	40	14	22	10	11	-	
South	2,519 138	2,304 102	43 35	14 19	14 23	14 11	11 13	3	
Alabama	68	80	46	9	11	19	12	-	
Arkansas Delaware	10	11	45	-	' <u>'</u>	19	12	_	
District of Columbia	11	8	45	_	_	_	_	_	
Florida	368	354	47	15	8	14	15	_	
Georgia	237	197	42	17	11	15	12	3	
Kentucky	105	146	48	12	14	14	10	-	
Louisiana	117	103	48	-	12	16	15	7	
Maryland	64	102	36	23	15	15	9	-	
Mississippi	111	94	49	16	11	11	7	6	
North Carolina	203	169	45	9	18	17	9	-	
Oklahoma	115	92	54	9	12	-	10	10	
South Carolina	91	107	36	21	22	12	8	-	
Tennessee	136	140	49	19	17	6	7	-	
Texas	536	417	38	15	16	17	10	5	
Virginia	146	142	35	15	15	17	12	4	
West Virginia	63	40	45		32	- 	-	-	
West	1,299	1,196	49	15	14	11	9	2	
Alaska	64	42	71	-	14	40		-	
Arizona	87	101	51	21	8	10	8	-	
California	515	478 122	42	20	13	12	10	2	
Colorado Hawaii	139	123 24	50 54	22	11	12	5	_	
Idaho	41 45	24 39	74		1 -	_	l		
Montana	58	59 51	57		16	12		<u>-</u>	
Nevada	40	45	44	16	-	18	13	<u> </u>	
New Mexico	59	63	59	8	19	-	-	<u>-</u>	
Oregon	44	63	37	8	29	10	_	13	
Utah	65	52	67	-	10	-	_	-	
Washington	102	83	46	7	25	13	8	_	
Wyoming	40	32	53	-	19	-	-	-	
¹ Includes other events and exposur				thoso shown so	_	1	1	ı	

Includes other events and exposures such as bodily reaction, in addition to those shown separately.

² Based on the 1992 BLS Occupational Injury and Illness Classification Structures.

The BLS news release issued September 25, 2002, reported a total of 5,900 fatal work injuries for calendar year 2001. Since then, an additional 15 job-related fatalities were identified, bringing the total job-related fatality count for 2001 to 5,915. Totals exclude fatalities resulting from the September 11 terrorist attacks.

Includes 1 fatality that occurred within the territorial boundaries of the United States, but a State of incident could not be determined.

Includes 1 fatality that occurred within the territorial boundaries of the United States, but a State of incident could not be determined.
 Includes highway, nonhighway, air, water, and rail fatalities and fatalities to workers struck by vehicles.
 Includes homicides, self-inflicted injuries, and animal attacks.
 NOTE: Percentages may not add to 100 because of rounding. Dashes indicate less than 0.5 percent or data that are not available or that do not meet publication criteria.
 SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, 2001-2002.

Table 6. CFOI participating agencies and telephone numbers

State	Agency	elephone number
Alabama	Department of Labor	(334) 242-3460
Alaska	Department of Labor and Workforce Development	(907) 465-4539
Arizona	Industrial Commission of Arizona	(602) 542-3739
Arkansas	Department of Labor	(501) 682-4542
California	Department of Industrial Relations	(415) 703-4776
Colorado	Department of Public Health	(303) 692-2173
Connecticut	Labor Department	(860) 566-4380
Delaware	Department of Labor	(302) 761-8223
District of Columbia	Center for Health Statistics	(202) 442-5920
Florida	Department of Financial Services	(850) 922-8953 ext. 113
Georgia	Department of Labor	(404) 679-0687
Hawaii	Department of Labor and Industrial Relations	(808) 586-9001
Idaho	Industrial Commission	(208) 334-6090
Illinois	Department of Public Health	(217) 782-5750
Indiana	Department of Labor	(317) 232-2668
Iowa	Division of Labor Services	(515) 281-5151
Kansas	Department of Health and Environment	(785) 296-1058
Kentucky	Labor Cabinet	(502) 564-3070 ext. 281
Louisiana	Department of Labor	(225) 342-3126
Maine	Bureau of Labor Standards	(207) 624-6440
Maryland	Division of Labor and Industry	(410) 767-2356
Massachusetts	Department of Public Health	(617) 624-5627
Michigan	Department of Consumer and Industry Services	(517) 322-1851
Minnesota	Department of Labor and Industry	(651) 284-5568
Mississippi	Department of Health	(601) 576-7186
Missouri	Department of Health	(573) 751-2454
Montana	Department of Labor and Industry	(406) 444-3297
Nebraska	Workers' Compensation Court	(402) 471-3547
Nevada	Division of Industrial Relations	(775) 684-7081
New Hampshire	Department of Public Health	(603) 271-4647
New Jersey	Department of Health and Senior Services	(609) 984-1863
New Mexico	Occupational Health and Safety Bureau	(505) 827-4230
New York State	Department of Health	(518) 402-7900
New York City	Department of Health	(212) 788-4585
North Carolina	Department of Labor	(919) 733-0337
North Dakota	U.S. Department of Labor	(312) 353-7253
Ohio	Department of Health	(614) 466-4183
Oklahoma	Department of Labor	(405) 528-1500
Oregon	Department of Consumer and Business Services	(503) 947-7051
Pennsylvania	Department of Health	(717) 783-2548
Rhode Island	Department of Health	(401) 222-2812
South Carolina	Department of Labor, Licensing, and Regulation	(803) 734-4298
South Dakota	U.S. Department of Labor	(312) 353-7253
Tennessee	Department of Labor and Workforce Development	(615) 741-1749
Texas	Workers' Compensation Commission	(512) 804 4637
Utah	Labor Commission	(801) 530-6823
Vermont	Department of Labor and Industry	(802) 828-5076
Virginia	Department of Labor and Industry	(804) 786-6427
Washington	Department of Labor and Industries	(360) 902-5512
West Virginia	Department of Labor	(304) 558-7890
Wisconsin	Department of Workforce Development	(608) 266-7850
Wyoming	Department of Employment, Research and Planning	(307) 473-3819

TECHNICAL NOTES

Definitions

For a fatality to be included in the census, the decedent must have been employed (that is working for pay, compensation, or profit) at the time of the event, engaged in a legal work activity, or present at the site of the incident as a requirement of his or her job. These criteria are generally broader than those used by federal and state agencies administering specific laws and regulations. (Fatalities that occur during a person's commute to or from work are excluded from the census counts.)

Data presented in this release include deaths occurring in 2002 that resulted from traumatic occupational injuries. An injury is defined as any intentional or unintentional wound or damage to the body resulting from acute exposure to energy, such as heat, electricity, or kinetic energy from a crash, or from the absence of such essentials as heat or oxygen caused by a specific event, incident, or series of events within a single workday or shift. Included are open wounds, intracranial and internal injuries, heatstroke, hypothermia, asphyxiation, acute poisonings resulting from short-term exposures limited to the worker's shift, suicides and homicides, and work injuries listed as underlying or contributory causes of death.

Information on work-related fatal illnesses is not reported in the BLS census and is excluded from the attached tables because the latency period of many occupational illnesses and the difficulty of linking illnesses to work exposures make identification of a universe problematic.

Measurement techniques and limitations

Data for the Census of Fatal Occupational Injuries are compiled from various federal, state, and local administrative sources--including death certificates, workers' compensation reports and claims, reports to various regulatory agencies, medical examiner reports, and police reports--as well as news and other non-governmental reports. Diverse sources are used because studies have shown that no single source captures all job-related fatalities. Source documents are matched so that each fatality is counted only once. To ensure that a fatality occurred while the decedent was at work, information is verified from two or more independent source documents or from a source document and a follow-up questionnaire. Approximately 30 data elements are collected, coded, and tabulated, including information about the worker, the fatal incident, and the machinery or equipment involved.

Identification and verification of work-related fatalities

In 2002, there were 108 cases included for which work relationship could not be independently verified; however, the information on the initiating source document for these cases was sufficient to determine that the incident was likely to be job-related. Data for these fatalities, which primarily affected self-employed workers, are included in the Census of Fatal Occupational Injuries counts. An additional 28 fatalities submitted by states were not included because the initiating source document had insufficient

information to determine work relationship and could not be verified by either an independent source document or a follow-up questionnaire.

States may identify additional fatal work injuries after data collection closeout for a reference year. In addition, other fatalities excluded from the published count because of insufficient information to determine work relationship may subsequently be verified as work related. States have up to one year to update their initial published state counts. This procedure ensures that fatality data are disseminated as quickly as possible and that no legitimate case is excluded from the counts. Thus, each year's report should be considered preliminary until final data are issued. Over the last 5 years, increases in the published counts based on additional information have averaged less than 20 fatalities per year or less than 0.3 percent of the revised total. The BLS news release issued September 25, 2002, reported a total of 5,900 fatal work injuries for 2001 (excluding work-related fatalities resulting from the terrorist attacks of September 11). Since then, an additional 15 fatal work injuries were identified, bringing the total for 2001 to 5,915.

Beginning in 2004, BLS will release final updated numbers earlier than in past years. Previously, updated numbers were released along with the following year's data in the annual news release. Updated numbers will now be released on the BLS internet in the late spring, or about 3 or 4 months earlier than in past years.

Federal/state agency coverage

The Census of Fatal Occupational Injuries includes data for all fatal work injuries, whether the decedent was working in a job covered by the Occupational Safety and Health Administration (OSHA) or other federal or state agencies or was outside the scope of regulatory coverage. Thus, any comparison between the BLS fatality census counts and those released by other agencies should take into account the different coverage requirements and definitions being used by each agency.

Several federal and state agencies have jurisdiction over workplace safety and health. OSHA and affiliated agencies in states with approved safety programs cover the largest portion of the nation's workers. However, injuries and illnesses occurring in certain industries or activities, such as coal, metal, and nonmetal mining and highway, water, rail, and air transportation, are excluded from OSHA coverage because they are covered by other federal agencies, such as the Mine Safety and Health Administration and various agencies within the Department of Transportation. Fatalities occurring in activities regulated by federal agencies other than OSHA accounted for about 15 percent of the fatal work injuries in 2002.

Fatalities occurring among several other groups of workers are generally not covered by any federal or state agencies. These groups include self-employed and unpaid family workers, which accounted for about 19 percent of the fatalities; laborers on small farms, accounting for about 1 percent of the fatalities; and state and local government employees in states without OSHA-approved safety programs, which accounted for about

4 percent. (Approximately one-half of the states have approved OSHA safety programs, which cover state and local government employees.)

ACKNOWLEDGMENTS: BLS thanks the participating states, New York City, and the District of Columbia for their efforts in collecting accurate, comprehensive, and useful data on fatal work injuries. BLS also appreciates the efforts of all federal, state, local, and private sector agencies that submitted source documents used to identify fatal work injuries. Among these agencies are the Occupational Safety and Health Administration; the National Transportation Safety Board; the U.S. Coast Guard; the Mine Safety and Health Administration; the Employment Standards Administration (Federal Employees' Compensation and Longshore and Harbor Workers' divisions); the Department of Energy; state vital statistics registrars, coroners, and medical examiners; state departments of health, labor and industries, and workers' compensation agencies; state and local police departments; and state farm bureaus.