

Appendix C. Partial data on fatal illnesses collected through the CFOI program, 1991-93

This appendix presents partial data on fatal illnesses collected through the Census of Fatal Occupational Injuries (CFOI), 1991-93. These data do not represent all deaths from occupational illnesses. These partial data cover non-traumatic conditions such as asbestosis, occupational cancers, and heart attacks. (See the technical note for the definition of occupational illness.)

It is difficult to compile a complete count of fatal occupational illnesses because the latency periods for many of these conditions may span years. In addition, there is some difficulty in linking illnesses to work exposures. Data presented in this appendix are incomplete, therefore, and do not represent all deaths that result from occupational diseases.

CFOI data collection methods require that the work relationship of work injury fatalities be substantiated by two or more independent sources. CFOI procedures do not require States to substantiate the work relationship of illnesses, however, because of the difficulty of associating diseases with workplace exposures.

Some of the illnesses presented in this appendix were the result of workplace exposures, such as asbestosis. Others, particularly some heart attacks and strokes, may have been the result of nonwork-related conditions or exposures. In still other instances, a workplace exposure or physical exertion may have aggravated a pre-existing condition. These partial data are presented for research purposes and without the implication that all illnesses had work-related causes.

Partial data on fatal illnesses by year, 1991-93

Year	Fatal Illnesses
1991 ¹	1,099
1992	1,361
1993	1,466

¹ Only 32 States participated in the 1991 CFOI program.

NOTE: These partial data on fatal illnesses were collected through the Census of Fatal Occupational Injuries, 1991-93. These data do not represent all deaths from occupational illnesses. The majority of these illnesses are heart attacks that occurred at work.

Table C-1. Fatal illnesses by selected worker characteristics, 1991-1993

Nature ¹	Total fatalities (number)	Percent distribution of fatalities by:								
		Sex		Age					Race	
		Men	Women	Less than 35 years	35-44 years	45-54 years	55-64 years	65 years and over	White	Black
Total	3,926	93	7	6	16	30	31	17	81	10
Systemic diseases and disorders	3,669	93	7	6	16	31	32	16	81	10
Nervous system and sense organs diseases	12	83	-	50	-	-	-	-	83	-
Circulatory system diseases	3,351	93	7	6	17	33	33	12	80	10
Hypertensive disease	32	97	-	-	19	34	34	9	59	34
Ischemic heart disease, including heart attack	2,797	94	6	5	16	33	33	12	81	9
Myocardial infarction (heart attack)	2,631	94	6	5	16	33	34	12	81	8
Ischemic heart disease, n.e.c.	140	94	6	6	27	31	29	6	79	18
Diseases of pulmonary circulation	31	90	10	13	26	19	23	19	68	26
Pulmonary heart disease	21	95	-	-	19	29	29	14	71	19
Other forms of heart disease	182	92	8	11	19	31	28	11	81	13
Heart failure	66	92	8	6	18	33	29	14	80	12
Ill-defined descriptions and complications of heart disease	11	100	-	36	-	-	-	-	64	-
Cerebrovascular disease	98	79	21	9	23	30	33	4	61	23
Stroke	62	82	18	6	24	31	31	6	56	24
Diseases of arteries, arterioles, capillaries	202	89	11	8	18	34	27	13	83	10
Aneurysm--nontraumatic	68	78	22	16	22	32	19	10	78	15
Respiratory system diseases	294	95	5	4	4	8	22	63	84	10
Pneumonia, influenza	18	78	22	22	17	-	22	28	56	39
Chronic obstructive pulmonary disease and allied conditions	32	81	19	12	-	22	19	41	88	12
Pneumoconioses	222	99	1	-	1	5	22	71	87	8
Coal workers' pneumoconioses	65	100	-	-	-	-	12	88	98	-
Asbestosis	132	98	2	-	-	8	24	67	84	8
Silicosis	15	100	-	-	-	-	53	33	67	27
Other respiratory system diseases	17	88	-	-	-	-	29	41	71	-
Pulmonary fibrosis, n.e.c.	10	90	-	-	-	-	40	50	60	-
Infectious and parasitic diseases	16	69	31	38	38	-	-	-	56	25
Cancer	188	99	-	-	3	11	32	52	87	7
Other diseases, conditions, and disorders	53	91	9	15	36	15	28	-	74	11

¹ Based on the 1992 BLS Occupational Injury and Illness Classification Structures. The nature identifies the principal physical characteristics of the injury or illness.

categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

NOTE: These partial data on fatal illnesses were collected through the Census of Fatal Occupational Injuries, 1991-93. These data do not represent all deaths from occupational illnesses. Only 32 States participated in the 1991 CFOI program. Totals for major

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with State and Federal agencies, Census of Fatal Occupational Injuries, 1993.

Table C-2. Fatal heart attacks that occurred at work by selected characteristics, occupation, and industry, 1991¹-93

Characteristics	Fatal heart attacks	Characteristics	Fatal heart attacks
Total (number)	2,631	Occupation (number)	2,631
Percent	100	Percent	100
Sex:		Managers and professionals	11
Men	94	Executives, administrators, and managers	7
Women	6	Technical, sales, and adminis- trative support	11
Age:		Service occupations	18
Under 35 years	5	Protective service	8
35 - 44 years	16	Janitors and cleaners	5
45 - 54 years	33	Farming, forestry, and fishing	6
55 - 64 years	34	Precision production, craft, and repair	18
65 and over	12	Mechanics and repairers	6
Race:		Construction trades	8
White	81	Operators, fabricators, and laborers	35
Black	8	Machine operators	6
Other or unspecified	11	Truck drivers	14
Worker activity:		Laborers	6
Vehicular operations	14	Industry (number)	2,631
Driving or operating a vehicle ...	11	Percent	100
Driving a truck	7	Agriculture, forestry, and fishing	5
Using, operating tools, machinery	5	Mining	2
Constructing, repairing, cleaning ..	10	Construction	12
Handling materials (lifting, carrying, loading)	7	Special trades contractors	6
Protective service activities	3	Manufacturing	18
Other service, retail activities	6	Transportation and public utilities ...	13
Other physical activities	20	Trucking and warehousing	9
Sitting	7	Wholesale trade	5
Walking	5	Retail trade	9
Standing	4	Finance, insurance, real estate	3
Other or unspecified	35	Services	16
Day of week:		Business services	5
Sunday	6	Government	17
Monday	21	Local	12
Tuesday	16		
Wednesday	16		
Thursday	16		
Friday	16		
Saturday	9		

¹Only 32 States participated in the 1991 CFOI program.

NOTE: These partial data on fatal heart attacks at work were collected through the Census of Fatal Occupational Injuries, 1991-93. It is not implied that the causes of these heart attacks were work-related in all cases. Totals for

major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1991-93.

Table C-3. Fatal asbestos-related illnesses by selected characteristics, 1991¹-93

Characteristic	Fatal illnesses	Characteristic	Fatal illnesses
Total (number)	294	Occupation (number)	294
Percent	100	Percent	100
Sex:		Managers and professionals	6
Men	99	Precision production, craft, and repair	56
Women	1	Mechanics and repairers	8
		Vehicle, mobile equipment mechanics, repairers	5
Age:		Construction trades	30
Under 45 years	1	Electricians	5
45 - 54 years	8	Plumbers, pipe fitters, steam fitters	8
55 - 64 years	28	Precision production	17
65 and over	63	Precision metal workers	10
		Operators, fabricators, and laborers	21
Race:		Machine operators, assemblers and inspectors	13
White	88	Machine operators	5
Black	7	Welders and cutters	5
Other or unspecified	5	Handlers, equipment cleaners, helpers, and laborers	6
		Military	10
Nature of illness:		Other	7
Asbestosis	45	Industry (number)	294
Cancer, primarily lung cancer and mesothelioma	49	Percent	100
Other or unspecified respiratory diseases	6	Mining	2
Other diseases	1	Construction	22
		Special trades contractors	19
		Plumbing, heating, air conditioning	5
		Masonry, stonework, tile setting, plastering	4
		Manufacturing	40
		Petroleum refining	6
		Ship, boat building and repair	20
		Transportation and public utilities	7
		Wholesale and retail trade	4
		Government	19
		Federal	14
		Ship, boat building and repair	8
		National security	4
		Other	6

¹ Only 32 States participated in the 1991 CFOI program.
 NOTE: These partial data on fatal asbestos-related illnesses were collected through the Census of Fatal Occupational Injuries, 1991-93. These data do not represent all

deaths from asbestos-related illnesses. Totals for major categories may include subcategories not shown separately.
 SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1991-93.