

**OTHER LUNG CONDITIONS**

**Morbidity**

**Table 10-1. Occupational respiratory conditions due to toxic agents: estimated number of cases reported by employers, by industry division, U.S. private sector, 1973-1991**

Year	Total	Agriculture	Mining	Construction	Manufacturing	Transportation & Public Utilities	Wholesale & Retail Trade	Finance	Services
1973	11,500	100	-	1,000	7,300	700	1,100	100	1,100
1974	12,700	200	100	900	8,500	700	1,200	100	1,000
1975	11,900	200	100	900	7,100	900	1,400	300	1,100
1976	13,100	200	100	1,100	7,700	1,100	1,000	200	1,600
1977	13,100	100	-	1,100	7,500	1,100	1,400	100	1,700
1978	13,600	100	100	1,100	7,900	1,100	1,600	200	1,600
1979	13,100	100	100	1,100	7,800	900	1,300	200	1,700
1980	11,400	100	100	700	6,700	1,000	1,300	100	1,300
1981	10,800	100	100	1,000	5,900	800	1,100	100	1,600
1982	8,800	100	100	600	4,700	700	700	100	1,600
1983	7,900	100	100	700	4,000	600	700	100	1,700
1984	10,600	100	100	700	5,500	700	1,200	200	2,100
1985	11,600	200	100	800	6,000	900	1,400	400	1,800
1986	12,300	100	-	600	6,400	700	1,600	400	2,400
1987	14,300	700	-	700	7,500	900	1,700	400	2,400
1988	16,100	200	100	900	9,200	1,000	1,300	500	3,000
1989	18,900	100	-	700	9,900	800	3,500	300	3,500
1990	20,500	200	100	1,200	10,300	1,200	2,200	800	4,700
1991	18,300	300	-	800	8,800	1,100	1,600	700	4,800

NOTE: Examples of respiratory conditions due to toxic agents include pneumonitis, pharyngitis, rhinitis or acute congestion due to chemicals, dusts, gases or fumes, and farmers' lung.

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

- indicates no data reported or data that do not meet BLS publication guidelines.

## OTHER LUNG CONDITIONS

### Morbidity

**Table 10-2. Occupational respiratory conditions due to toxic agents: rate per 10,000 full-time workers, by industry division, U.S. private sector, 1973-1991**

Year	Overall	Agriculture	Mining	Construction	Manufacturing	Transportation & Public Utilities	Wholesale & Retail Trade	Finance	Services
1973	2.1	1.8	1.7	3.2	3.8	1.7	0.8	0.2	1.2
1974	2.2	2.4	0.9	3.0	4.4	1.6	0.8	0.2	0.9
1975	2.2	1.7	0.8	3.1	4.1	2.1	1.0	0.7	1.1
1976	2.3	3.1	1.6	3.7	4.3	2.6	0.7	0.5	1.5
1977	2.2	2.0	0.5	3.3	4.0	2.5	0.9	0.2	1.4
1978	2.2	2.2	0.8	2.9	4.0	2.4	1.0	0.6	1.3
1979	2.0	1.1	0.8	2.8	3.9	1.9	0.8	0.5	1.3
1980	1.8	2.0	0.8	2.0	3.5	2.0	0.8	0.2	1.0
1981	1.7	1.1	1.0	2.9	3.1	1.7	0.7	0.2	1.1
1982	1.4	1.7	0.5	1.9	2.7	1.5	0.5	0.3	1.1
1983	1.2	1.4	0.8	2.0	2.3	1.4	0.4	0.2	1.1
1984	1.6	1.5	0.9	1.8	2.9	1.4	0.7	0.5	1.3
1985	1.7	2.4	1.0	1.9	3.2	1.8	0.8	0.8	1.1
1986	1.7	1.3	-	1.5	3.5	1.5	0.9	0.6	1.4
1987	2.0	7.9	0.6	1.6	4.0	1.7	0.9	0.7	1.3
1988	2.2	2.1	0.7	2.0	4.9	1.9	0.6	0.9	1.6
1989	2.5	1.5	0.5	1.5	5.2	1.6	1.7	0.5	1.7
1990	2.7	1.6	0.7	2.6	5.6	2.2	1.1	-	2.2
1991	2.4	2.7	0.6	2.1	5.0	2.1	0.8	-	2.3

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

- indicates no data reported or data that do not meet BLS publication guidelines.

**OTHER LUNG CONDITIONS**

**Morbidity**

**Table 10-3. Occupational respiratory conditions due to toxic agents: industries with the highest reported incidence rates, U.S. private sector, 1989-1991**

Year/Industry	SIC	Rates per 10,000 full time workers
<b>1989</b>		
Ship and boat building and repairing . . . . .	373 . . . . .	31.2
Public building furniture and vehicle seats . . . . .	253 . . . . .	16.7
Preserved fruits and vegetables . . . . .	203 . . . . .	16.7
Forestry . . . . .	08 . . . . .	14.0
Household audio and video equipment . . . . .	365 . . . . .	13.5
Primary nonferrous metals . . . . .	333 . . . . .	13.1
Pulp mills . . . . .	261 . . . . .	11.7
Nonferrous rolling and drawing . . . . .	335 . . . . .	11.0
Metal services, n.e.c. . . . .	347 . . . . .	10.9
Motor vehicles and equipment . . . . .	371 . . . . .	10.8
<b>OVERALL</b> . . . . .		<b>2.5</b>
<b>1990</b>		
Miscellaneous petroleum and coal products . . . . .	299 . . . . .	78.2
Ship and boat building and repairing . . . . .	373 . . . . .	28.2
Primary nonferrous metals . . . . .	333 . . . . .	23.1
Girls' and children's outerwear . . . . .	236 . . . . .	19.9
Secondary nonferrous metals . . . . .	334 . . . . .	18.0
Metal services, n.e.c. . . . .	347 . . . . .	16.5
Ordnance and accessories, n.e.c. . . . .	348 . . . . .	14.2
Miscellaneous wood products . . . . .	249 . . . . .	14.1
Motor vehicles and equipment . . . . .	371 . . . . .	13.4
Meat products . . . . .	201 . . . . .	12.8
<b>OVERALL</b> . . . . .		<b>2.7</b>
<b>1991</b>		
Miscellaneous petroleum and coal products . . . . .	299 . . . . .	46.8
Secondary nonferrous metals . . . . .	334 . . . . .	31.9
Ship and boat building and repair . . . . .	373 . . . . .	24.8
Ophthalmic goods . . . . .	385 . . . . .	21.9
Primary nonferrous metals . . . . .	333 . . . . .	17.3
Motor vehicle and equipment . . . . .	371 . . . . .	13.4
Paperboard mills . . . . .	263 . . . . .	13.4
Pulp mills . . . . .	261 . . . . .	13.0
Miscellaneous manufacturing . . . . .	399 . . . . .	12.4
Flat glass manufacturing . . . . .	321 . . . . .	10.9
<b>OVERALL</b> . . . . .		<b>2.4</b>

SIC - 1987 Standard Industrial Classification

n.e.c. - not elsewhere classified

NOTE: The 1989 BLS report shows dashes for "Miscellaneous petroleum and coal products" which indicate no data reported or data that do not meet BLS publication guidelines.

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

## OTHER LUNG CONDITIONS

### Morbidity

**Table 10-4. Occupational dust diseases of the lungs: estimated number of cases reported by employers, by industry division, U.S. private sector, 1973-1991**

Year	Total	Agriculture	Mining	Construction	Manufacturing	Transportation & Public Utilities	Wholesale & Retail Trade	Finance	Services
1973	1,500	100	-	100	700	200	200	-	100
1974	1,700	100	300	100	900	-	300	-	100
1975	1,000	-	-	200	600	-	100	-	-
1976	1,200	-	-	200	800	100	-	-	-
1977	2,000	100	200	800	700	100	100	100	100
1978	1,600	-	300	200	800	100	200	-	100
1979	1,700	-	300	200	900	100	100	-	100
1980	2,300	-	300	200	1,300	100	100	-	200
1981	2,100	-	300	200	1,500	-	-	-	100
1982	2,000	-	300	100	1,200	100	100	-	100
1983	1,700	-	200	100	900	-	200	-	200
1984	1,800	-	200	200	1,000	100	100	-	100
1985	1,700	-	200	100	800	100	200	-	200
1986	3,200	100	600	100	-	-	-	100	300
1987	3,400	-	900	500	1,200	200	-	-	400
1988	2,900	-	700	200	1,200	300	-	-	300
1989	2,600	-	500	200	1,300	100	100	-	200
1990	3,000	100	300	300	1,600	400	100	-	300
1991	2,500	100	500	200	1,000	200	-	-	300

NOTE: Because of rounding, components may not add to totals. Examples of dust diseases of the lungs (pneumoconioses) include silicosis, asbestosis and other asbestos-related diseases, coal worker's pneumoconiosis, byssinosis, siderosis, and other pneumoconioses.

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

- indicates no data reported or data that do not meet BLS publication guidelines.

**OTHER LUNG CONDITIONS**

**Morbidity**

**Table 10-5. Occupational dust diseases of the lungs: rate per 10,000 full-time workers, by industry division, U.S. private sector, 1973-1991**

Year	Overall	Agriculture	Mining	Construction	Manufacturing	Transportation & Public Utilities	Wholesale & Retail Trade	Finance	Services
1973	0.3	1.3	0.5	0.4	0.4	0.3	0.2	0.1	0.1
1974	0.3	0.8	4.8	0.3	0.4	-	0.2	0.0	0.1
1975	0.2	0.4	0.2	0.6	0.4	0.1	-	-	-
1976	0.2	0.2	0.1	0.5	0.4	0.2	-	-	-
1977	0.3	1.3	2.0	2.5	0.4	0.1	-	0.1	0.1
1978	0.3	0.3	4.0	0.6	0.4	0.1	0.1	-	-
1979	0.3	0.1	3.4	0.5	0.4	0.1	0.1	-	0.1
1980	0.4	0.4	3.3	0.6	0.7	0.1	0.1	-	0.1
1981	0.3	0.3	2.5	0.5	0.8	0.1	-	-	0.1
1982	0.3	0.4	3.2	0.3	0.7	0.2	0.1	-	0.1
1983	0.3	0.3	1.9	0.4	0.5	0.1	0.1	-	0.1
1984	0.3	0.4	1.7	0.5	0.5	0.2	0.1	-	0.1
1985	0.2	0.5	2.7	0.3	0.4	0.2	0.1	-	0.1
1986	0.5	1.0	8.4	0.3	0.9	-	-	-	0.1
1987	0.5	0.5	12.9	1.2	0.6	0.3	-	-	0.2
1988	0.4	-	10.2	0.5	0.6	0.6	-	-	0.1
1989	0.3	0.2	7.5	0.5	0.7	0.2	-	-	0.1
1990	0.4	0.6	4.4	0.6	0.9	0.7	-	-	0.1
1991	0.3	0.5	7.3	0.4	0.5	0.3	-	-	0.1

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

- indicates no data reported or data that do not meet BLS publication guidelines.

## OTHER LUNG CONDITIONS

### Morbidity

Table 10-6. Occupational dust diseases of the lungs: industries with the highest reported incidence rates, U.S. private sector, 1989-1991

Year/Industry	SIC	Rates per 10,000 full time workers
<b>1989</b>		
Coal mining . . . . .	12 . . . . .	35.2
Ship and boat building and repairing . . . . .	373 . . . . .	17.2
Tobacco stemming and redrying . . . . .	214 . . . . .	9.1
Plastics materials and synthetics . . . . .	282 . . . . .	4.8
Industrial organic chemicals . . . . .	286 . . . . .	4.5
Iron and steel foundries . . . . .	332 . . . . .	4.3
Petroleum refining . . . . .	291 . . . . .	3.7
Industrial inorganic chemicals . . . . .	281 . . . . .	2.6
Photographic equipment and supplies . . . . .	386 . . . . .	2.5
Flat glass manufacturing . . . . .	321 . . . . .	2.3
Miscellaneous nonmetallic mineral products . . . . .	329 . . . . .	2.3
<b>OVERALL</b> . . . . .		<b>0.3</b>
<b>1990</b>		
Ship and boat building and repairing . . . . .	373 . . . . .	33.5
Coal mining . . . . .	12 . . . . .	20.0
Plastics materials and synthetics . . . . .	282 . . . . .	5.3
Office furniture . . . . .	252 . . . . .	3.9
Petroleum refining . . . . .	291 . . . . .	3.0
Pulp mills . . . . .	261 . . . . .	2.7
Fats and oils . . . . .	207 . . . . .	2.5
Flat glass manufacturing . . . . .	321 . . . . .	2.3
Nonmetallic mineral mining, except fuels . . . . .	14 . . . . .	2.3
Highway and street construction . . . . .	161 . . . . .	2.3
<b>OVERALL</b> . . . . .		<b>0.4</b>
<b>1991</b>		
Coal mining . . . . .	12 . . . . .	36.8
Ship and boat building and repairing . . . . .	373 . . . . .	3.3
Plastics materials and synthetics . . . . .	282 . . . . .	3.5
Pottery and related products . . . . .	326 . . . . .	2.3
Nonmetallic mineral mining, except fuels . . . . .	14 . . . . .	1.8
Petroleum refining . . . . .	291 . . . . .	1.8
Grain mill products . . . . .	204 . . . . .	1.7
Metal mining . . . . .	10 . . . . .	1.6
Nonferrous rolling and drawing . . . . .	335 . . . . .	1.3
Household furniture . . . . .	251 . . . . .	1.3
Pulp mills . . . . .	261 . . . . .	1.3
<b>OVERALL</b> . . . . .		<b>0.3</b>

SIC - 1987 Standard Industrial Classification

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

## OTHER LUNG CONDITIONS

### Morbidity

**Table 10-7. Estimated number of occupational illnesses by type of illness, U.S., private sector, 1973-1991**

Year	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Skin diseases or disorders	Disorders due to physical agents	Associated with repeated trauma	All other occupational illness	TOTAL
1973	1,500	11,500	6,800	89,200	27,500	23,600	40,400	200,500
1974	1,700	12,700	7,400	89,400	27,100	24,600	37,400	200,400
1975	1,000	11,900	6,200	74,400	21,200	23,700	24,900	163,300
1976	1,200	13,100	6,100	71,600	24,200	23,000	28,800	167,900
1977	2,000	13,100	5,700	73,000	23,600	23,400	21,100	161,900
1978	1,600	13,600	5,600	65,900	16,700	20,200	19,600	143,500
1979	1,700	13,100	5,800	67,900	15,100	21,900	23,200	148,900
1980	2,300	11,400	4,700	56,100	13,200	23,100	19,200	130,200
1981	2,100	10,800	5,600	51,200	11,900	22,900	21,500	126,100
1982	2,000	8,800	3,400	41,900	8,300	22,600	18,600	105,600
1983	1,700	7,900	3,000	39,500	8,800	26,700	18,400	106,100
1984	1,800	10,600	4,500	42,500	9,000	34,700	21,400	124,800
1985	1,700	11,600	4,200	41,800	9,000	37,000	20,100	125,400
1986	3,200	12,300	4,300	41,900	9,200	46,000	20,400	136,800
1987	3,400	14,300	4,800	54,200	13,800	72,900	26,800	190,200
1988	2,900	16,100	5,500	57,900	17,300	115,400	25,600	240,700
1989	2,600	18,900	5,800	62,100	17,700	146,900	29,700	283,700
1990	3,000	20,500	6,100	60,900	18,200	185,400	37,300	331,600
1991	2,500	18,300	6,700	58,200	18,200	223,600	40,800	368,300

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

**Table 10-8. Estimated percent of occupational illnesses by type of illness, U.S., private sector, 1973-1991**

Year	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Skin diseases or disorders	Disorders due to physical agents	Associated with repeated trauma	All other occupational illness	TOTAL
1973	0.7	5.7	3.4	44.5	13.7	11.8	20.1	100.0
1974	0.8	6.3	3.7	44.6	13.5	12.3	18.7	100.0
1975	0.6	7.3	3.8	45.6	13.0	14.5	15.2	100.0
1976	0.7	7.8	3.6	42.6	14.4	13.7	17.2	100.0
1977	1.2	8.1	3.5	45.1	14.6	14.5	13.0	100.0
1978	1.1	9.5	3.9	45.9	11.6	14.1	13.7	100.0
1979	1.1	8.8	3.9	45.6	10.1	14.7	15.6	100.0
1980	1.8	8.8	3.6	43.1	10.1	17.7	14.7	100.0
1981	1.7	8.6	4.4	40.6	9.4	18.2	17.0	100.0
1982	1.9	8.3	3.2	39.7	7.9	21.4	17.6	100.0
1983	1.6	7.4	2.8	37.2	8.3	25.2	17.3	100.0
1984	1.4	8.5	3.6	34.1	7.2	27.8	17.1	100.0
1985	1.4	9.3	3.3	33.3	7.2	29.5	16.0	100.0
1986	2.3	9.0	3.1	30.6	6.7	33.6	14.9	100.0
1987	1.8	7.5	2.5	28.5	7.3	38.3	14.1	100.0
1988	1.2	6.7	2.3	24.1	7.2	47.9	10.6	100.0
1989	0.9	6.7	2.0	21.9	6.2	51.8	10.5	100.0
1990	0.9	6.2	1.8	18.4	5.5	55.9	11.2	100.0
1991	0.7	5.0	1.8	15.8	4.9	60.7	11.1	100.0

SOURCE: Bureau of Labor Statistics annual reports of occupational injuries and illnesses.

## OTHER LUNG CONDITIONS

### Morbidity

**Table 10-9. Selected lung diseases: prevalence of self-reported conditions by sex, race, and age, respondents age 18 and over who have worked at some time during their life, U.S., 1988**

	Number of respondents	Lung Cancer		Asthma		Chronic Bronchitis		Emphysema		Dust Diseases of the lungs	
		No.	%	No.	%	No.	%	No.	%	No.	%
<b>Total</b>	<b>42,487</b>	<b>43</b>	<b>0.10</b>	<b>1,291</b>	<b>3.04</b>	<b>1,142</b>	<b>2.69</b>	<b>553</b>	<b>1.30</b>	<b>109</b>	<b>0.26</b>
<b>Sex</b>											
Male	18,403	27	0.15	454	2.47	326	1.77	337	1.83	82	0.45
Female	24,084	16	0.07	837	3.48	816	3.39	216	0.90	27	0.11
<b>Race</b>											
White	35,548	35	0.10	1,062	2.99	1,021	2.87	508	1.43	89	0.25
Black	5,864	8	0.14	204	3.48	106	1.81	41	0.70	19	0.32
Other	1,075	0	0.00	25	2.33	15	1.40	4	0.37	1	0.09
<b>Age</b>											
18-24	4,992	0	0.00	162	3.25	70	1.40	1	0.02	4	0.08
25-44	18,761	4	0.02	547	2.92	353	1.88	41	0.22	25	0.13
45-64	10,434	14	0.13	305	2.92	377	3.61	183	1.75	37	0.35
65+	8,300	25	0.30	277	3.34	342	4.12	328	3.95	43	0.52

SOURCE: National Health Interview Survey, Occupational Supplement (1988).



## OTHER LUNG CONDITIONS

### Morbidity

**Table 10-10. Selected lung diseases: industry-specific prevalence rate ratios (PRR) for self-reported conditions, among respondents age 18 and over who have worked at some time during their life, U.S., 1988**

Industry	Total	Lung Cancer		Asthma		Chronic Bronchitis		Emphysema		Dust Diseases of the Lungs	
		Total	PRR	Total	PRR	Total	PRR	Total	PRR	Total	PRR
Agriculture forestry and fishing	1,544	5	3.49	70	1.52	36	0.86	37	1.90	7	1.82
Mining	334	0	0.00	12	1.18	11	1.23	11	2.56	17	23.32
Construction	2,322	4	1.77	49	0.68	51	0.81	54	1.87	14	2.55
Manufacturing	8,611	10	1.19	235	0.88	235	1.02	143	1.37	28	1.36
Transportation, communication, and public utilities	2,714	4	1.50	83	1.01	68	0.93	52	1.52	4	0.56
Wholesale trade	1,286	1	0.76	44	1.13	34	0.98	19	1.14	4	1.22
Retail trade	7,234	7	0.95	242	1.12	230	1.23	78	0.80	11	0.55
Finance, insurance, real estate	2,423	1	0.39	55	0.74	55	0.84	16	0.49	0	0.00
Business/repair services	1,662	1	0.58	63	1.26	45	1.01	18	0.83	4	0.94
Personal services	2,100	4	1.97	65	1.02	51	0.90	20	0.72	2	0.36
Entertainment, recreational services	555	0	0.00	18	1.07	14	0.94	5	0.69	0	0.00
Professional/related services	8,541	3	0.30	283	1.12	224	0.97	56	0.45	13	0.54
Public administration	2,098	1	0.46	54	0.84	59	1.05	26	0.95	2	0.36
Armed services	531	2	3.85	10	0.62	14	0.98	13	1.90	3	2.24
Unknown industry	532	0	0.00	8	0.49	15	1.05	5	0.72	0	0.00
<b>TOTAL</b>	<b>42,487</b>	<b>43</b>		<b>1,291</b>		<b>1,142</b>		<b>553</b>		<b>109</b>	

NOTE: See Appendix B for methods. Tabulated PRRs are not adjusted for age, race, sex, or smoking status.

SOURCE: National Health Interview Survey, Occupational Supplement (1988).

## OTHER LUNG CONDITIONS

### Mortality

Bronchitis and emphysema include ICD-9 codes 490 (bronchitis, not specified as acute or chronic), 491 (chronic bronchitis), 492 (emphysema) and 496 (chronic airway obstruction, not elsewhere classified).

**Table 10-11. Bronchitis and emphysema: proportionate mortality ratios (PMR), based on underlying cause of death, by usual occupation for selected states, 1985-1990**

COC	Occupation	Number of deaths	PMR	95% confidence interval	
				LCL	UCL
729	Nailing, tacking machine operators	4	4.98	1.36	12.73
583	Paperhangers	25	2.06	1.33	3.04
616	Mining machine operators	1,763	2.01	1.91	2.11
704	Lathe and turning machine operators	67	1.97	1.51	2.54
826	Rail vehicle operators, n.e.c.	30	1.93	1.30	2.76
598	Drillers, earth	33	1.86	1.26	2.66
614	Drillers, oil well	82	1.86	1.48	2.32
725	Miscellaneous metal, and plastic processing machine operators	16	1.77	1.01	2.87
617	Mining occupations, n.e.c.	134	1.74	1.45	2.09
509	Small engine repairers	33	1.74	1.18	2.49
829	Sailors and deckhands	110	1.73	1.40	2.10
597	Structural metal workers	184	1.69	1.45	1.95
566	Carpet installers	54	1.68	1.25	2.22
556	Supervisors; painters, paperhangers, plasterers	109	1.66	1.35	2.02
595	Roofers	160	1.64	1.40	1.91
773	Motion picture projectionists	31	1.64	1.11	2.34
719	Molding, and casting machine operators	195	1.61	1.38	1.86
885	Garage, and service station related occupations	162	1.61	1.37	1.88
579	Painters, construction, and maintenance	952	1.59	1.48	1.69
567	Carpenters	2,734	1.58	1.52	1.64
496	Timber cutting, and logging occupations	444	1.57	1.42	1.73
643	Boilermakers	112	1.55	1.26	1.89
565	Tile setters, hard and soft	38	1.55	1.08	2.16
534	Heating, air conditioning, and refrigeration mechanics	112	1.54	1.25	1.88
723	Metal plating machine operators	49	1.54	1.12	2.06
806	Driver-sales workers	205	1.54	1.33	1.76
783	Welders and cutters	888	1.50	1.40	1.61
206	Radiologic technicians	33	1.49	1.01	2.13

COC - 1980 Census Occupation Code

n.e.c. - not elsewhere classified

LCL - lower confidence limit

UCL - upper confidence limit

NOTE: See Appendix B for methods and Appendix C for list of selected states and years reporting.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.

**OTHER LUNG CONDITIONS**

**Mortality**

**Table 10-11 (continued). Bronchitis and emphysema: proportionate mortality ratios (PMR), based on underlying cause of death, by usual occupation for selected states, 1985-1990**

COC	Occupation	Number of deaths	PMR	95% confidence interval	
				LCL	UCL
563	Brickmasons and stonemasons	476	1.48	1.35	1.63
843	Supervisors, material moving equipment operators	47	1.48	1.08	1.99
505	Automobile mechanics	1,318	1.48	1.40	1.57
825	Railroad brake, signal, and switch operators	175	1.48	1.26	1.73
526	Household appliance and power tool repairers	60	1.48	1.13	1.90
514	Auto body and related repairers	161	1.48	1.26	1.73
435	Waiters and waitresses	740	1.48	1.37	1.59
218	Surveying and mapping technicians	48	1.47	1.07	1.97
584	Plasterers	61	1.46	1.12	1.88
265	Sales workers, shoes	54	1.46	1.08	1.92
516	Heavy equipment mechanics	232	1.45	1.26	1.67
678	Dental laboratory and medical appliance technicians	38	1.44	1.00	2.01
269	Sales workers, parts	72	1.44	1.13	1.82
707	Rolling machine operators	55	1.44	1.06	1.90
368	Weighers, measurers, and checkers	61	1.43	1.09	1.85
507	Bus, truck, and stationary engine mechanics	242	1.43	1.24	1.64
759	Painting and paint spraying machine operators	151	1.43	1.20	1.69
844	Operating engineers	664	1.43	1.32	1.55
268	Sales workers, hardware and building supplies	124	1.42	1.18	1.70
575	Electricians	947	1.41	1.32	1.50
789	Hand painting, coating, and decorating occupations	52	1.40	1.04	1.85
804	Truck drivers, heavy	3,074	1.40	1.35	1.45
547	Specified mechanics and repairers, n.e.c.	243	1.38	1.20	1.59
375	Insurance adjusters, examiners, and investigators	70	1.38	1.08	1.75
434	Bartenders	178	1.38	1.18	1.61
823	Railroad conductors and yardmasters	221	1.38	1.19	1.58
668	Upholsterers	113	1.37	1.11	1.66
585	Plumbers, pipefitters, and steamfitters	821	1.36	1.27	1.46
727	Sawing machine operators	182	1.35	1.16	1.56
849	Crane and tower operators	243	1.34	1.17	1.54

COC - 1980 Census Occupation Code

n.e.c. - not elsewhere classified

LCL - lower confidence limit

UCL - upper confidence limit

NOTE: See Appendix B for methods and Appendix C for list of selected states and years reporting.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.

## OTHER LUNG CONDITIONS

### Mortality

**Table 10-11 (continued). Bronchitis and emphysema: proportionate mortality ratios (PMR), based on underlying cause of death, by usual occupation for selected states, 1985-1990**

COC	Occupation	Number of deaths	PMR	95% confidence interval	
				LCL	UCL
498	Fishers	103	1.34	1.09	1.63
805	Truck drivers, light	219	1.33	1.15	1.52
809	Taxicab drivers, and chauffeurs	281	1.33	1.17	1.50
549	Not specified mechanics and repairers	386	1.32	1.19	1.47
599	Construction trades, n.e.c.	163	1.32	1.13	1.54
766	Furnace, kiln, and oven operators, except food	266	1.32	1.16	1.50
905	Military occupations, rank not specified	1,308	1.31	1.23	1.38
686	Butchers and meat cutters	400	1.29	1.17	1.43
869	Construction laborers	1,717	1.29	1.23	1.36
637	Machinists	1,714	1.29	1.23	1.36
426	Guards and police, except public service	697	1.29	1.19	1.39
706	Punching, and stamping press machine operators	175	1.28	1.09	1.49
653	Sheet metal workers	256	1.27	1.11	1.43
824	Locomotive operating occupations	210	1.27	1.10	1.45
577	Electrical power installers and repairers	115	1.26	1.03	1.54
808	Bus drivers	351	1.26	1.13	1.40
878	Machine feeders and offbearers	183	1.26	1.08	1.46
734	Printing machine operators	337	1.26	1.12	1.41
689	Inspectors, testers, and graders	189	1.25	1.07	1.45
523	Electronic repairers, communications and industrial equipment	107	1.24	1.01	1.51
359	Dispatchers	100	1.24	1.01	1.51
544	Millwrights	236	1.23	1.06	1.41
479	Farm workers	599	1.22	1.11	1.33
303	Supervisors, general office	178	1.21	1.03	1.42
473	Farmers, except horticultural	7,784	1.21	1.19	1.24
518	Industrial machinery repairers	396	1.21	1.08	1.34
709	Grinding, abrading, buffing, and polishing machine operators	173	1.20	1.02	1.40

COC - 1980 Census Occupation Code

n.e.c. - not elsewhere classified

LCL - lower confidence limit

UCL - upper confidence limit

NOTE: See Appendix B for methods and Appendix C for list of selected states and years reporting.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.

**OTHER LUNG CONDITIONS**

**Mortality**

**Table 10-11 (continued). Bronchitis and emphysema: proportionate mortality ratios (PMR), based on underlying cause of death, by usual occupation for selected states, 1985-1990**

COC	Occupation	Number of deaths	PMR	95% confidence interval	
				LCL	UCL
263	Sales workers, motor vehicle and boats	326	1.20	1.07	1.34
457	Barbers	305	1.20	1.06	1.34
687	Bakers	208	1.19	1.04	1.37
889	Laborers, except construction	4,818	1.19	1.15	1.23
779	Machine operators, not specified	1,436	1.19	1.13	1.25
053	Civil engineer	333	1.18	1.05	1.33
777	Miscellaneous machine operators, n.e.c.	876	1.18	1.10	1.27
558	Supervisors; construction, n.e.c.	657	1.17	1.08	1.27
883	Freight, stock, material handlers, n.e.c	246	1.16	1.01	1.34
749	Miscellaneous textile machine operators	582	1.16	1.06	1.27
355	Mail carriers, postal service	353	1.15	1.04	1.28
634	Tool and die makers	352	1.14	1.02	1.27
913	Retired; with no other occupation listed	1,741	1.14	1.08	1.20
453	Janitors and cleaners	2,443	1.11	1.06	1.16
633	Supervisors, production occupations	1,673	1.10	1.05	1.16
023	Accountants and auditors	761	1.08	1.00	1.16
785	Assemblers	901	1.08	1.01	1.15

COC - 1980 Census Occupation Code

n.e.c. - not elsewhere classified

LCL - lower confidence limit

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NOTE: See Appendix B for methods and Appendix C for list of selected states and years reporting.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.