

MALIGNANT NEOPLASM OF THE PLEURA

Mortality

Malignant neoplasm of the pleura includes ICD-8 code 163.0 (malignant neoplasm of parietal pleura) for 1968-1978 and ICD-9 codes 163.0 (malignant neoplasm of parietal pleura), 163.1 (malignant neoplasm of visceral pleura) and 163.9 (malignant neoplasm of pleura, unspecified) for 1979-1990. [NOTE: These codes are not specific for malignant mesothelioma.]

- The total number of deaths with mention of malignant neoplasm of the pleura between 1968 and 1990 was 10,557. Distribution by race was 93% whites and 7% blacks and less than 1% other race categories. The annual number of deaths increased from 390 in 1968 to 553 in 1990.

- See Tables 2-3, 2-4, and 2-5 for data.

- See Appendix A for information about multiple cause of death data.

- The states with the highest numbers of deaths with malignant neoplasm of the pleura are all coastal or Great Lakes states. New York had the highest number of deaths during this time period (n = 575).

- See Table 2-5 for data.

Figure 2-1. Malignant neoplasm of the pleura: number of deaths, U.S. residents age 15 and over, 1968-1990

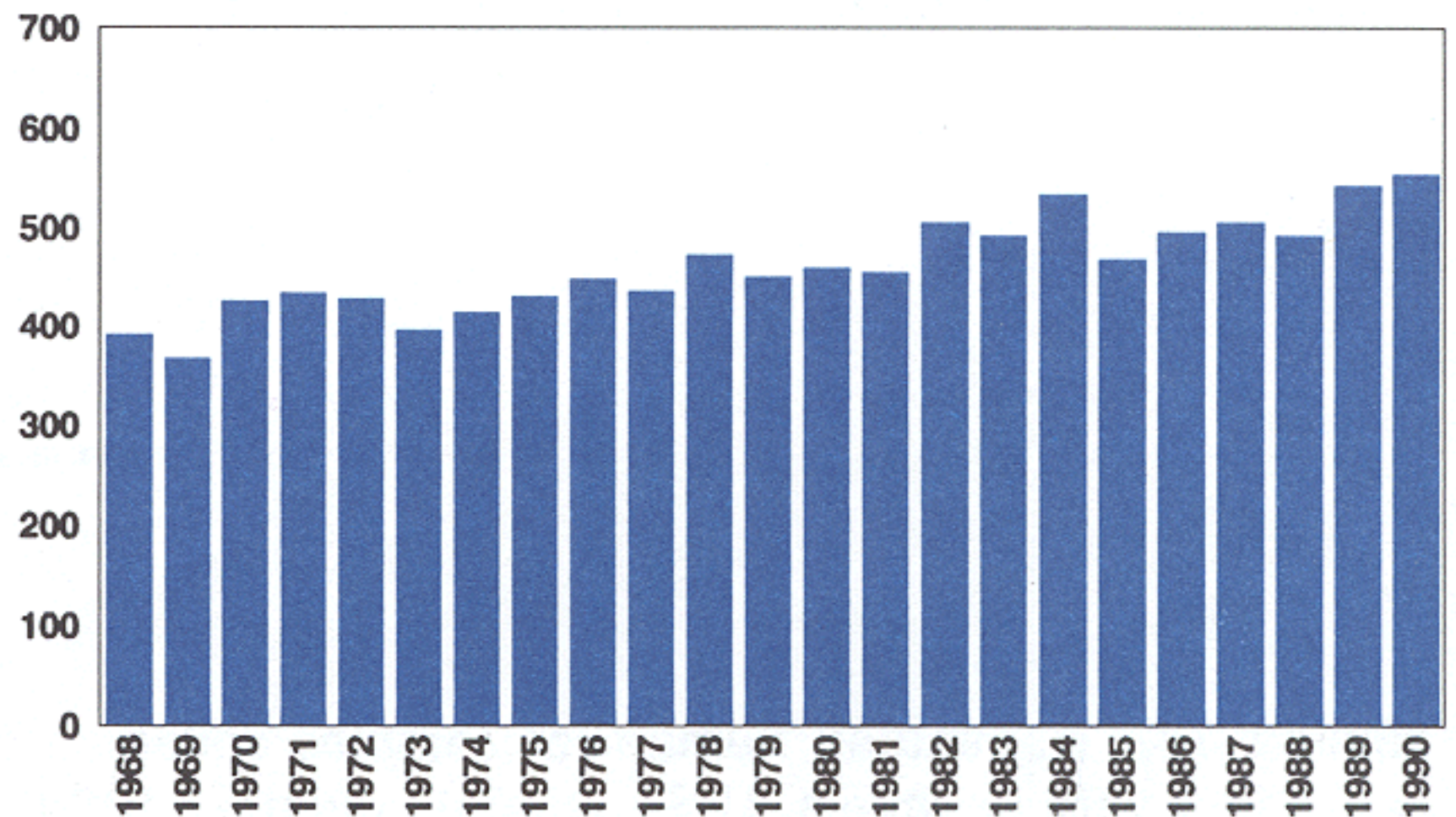
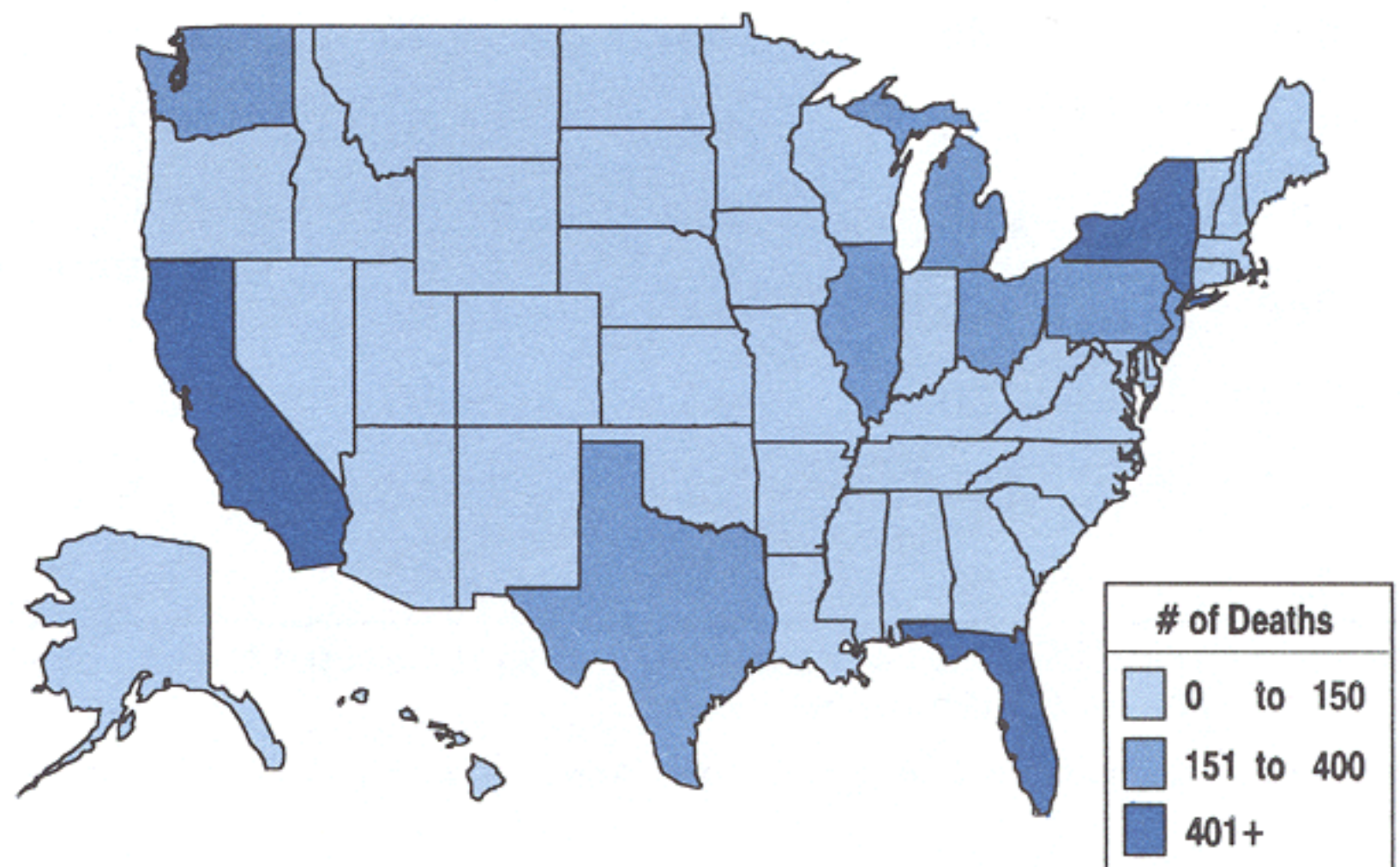


Figure 2-2. Malignant neoplasm of the pleura: number of deaths, U.S. residents age 15 and over, by state, 1979-1990

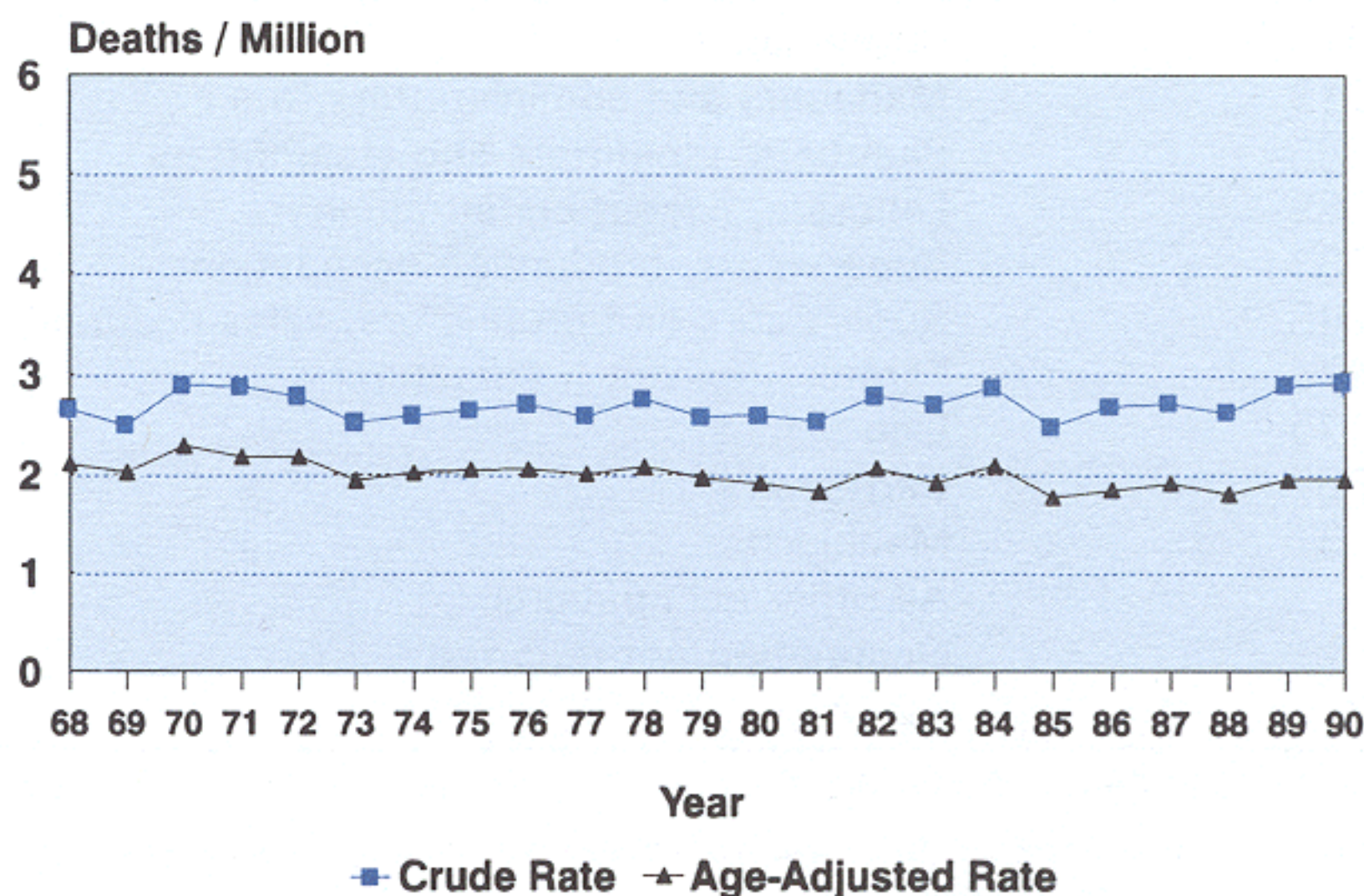


- The crude and age-adjusted mortality rates have been relatively stable over this time period. Crude rates have ranged from approximately 2.5 to 3 per million, while the age-adjusted rates have been approximately 2 per million.

- See Tables 2-6 and 2-7 for data.

- See Appendix B for methods.

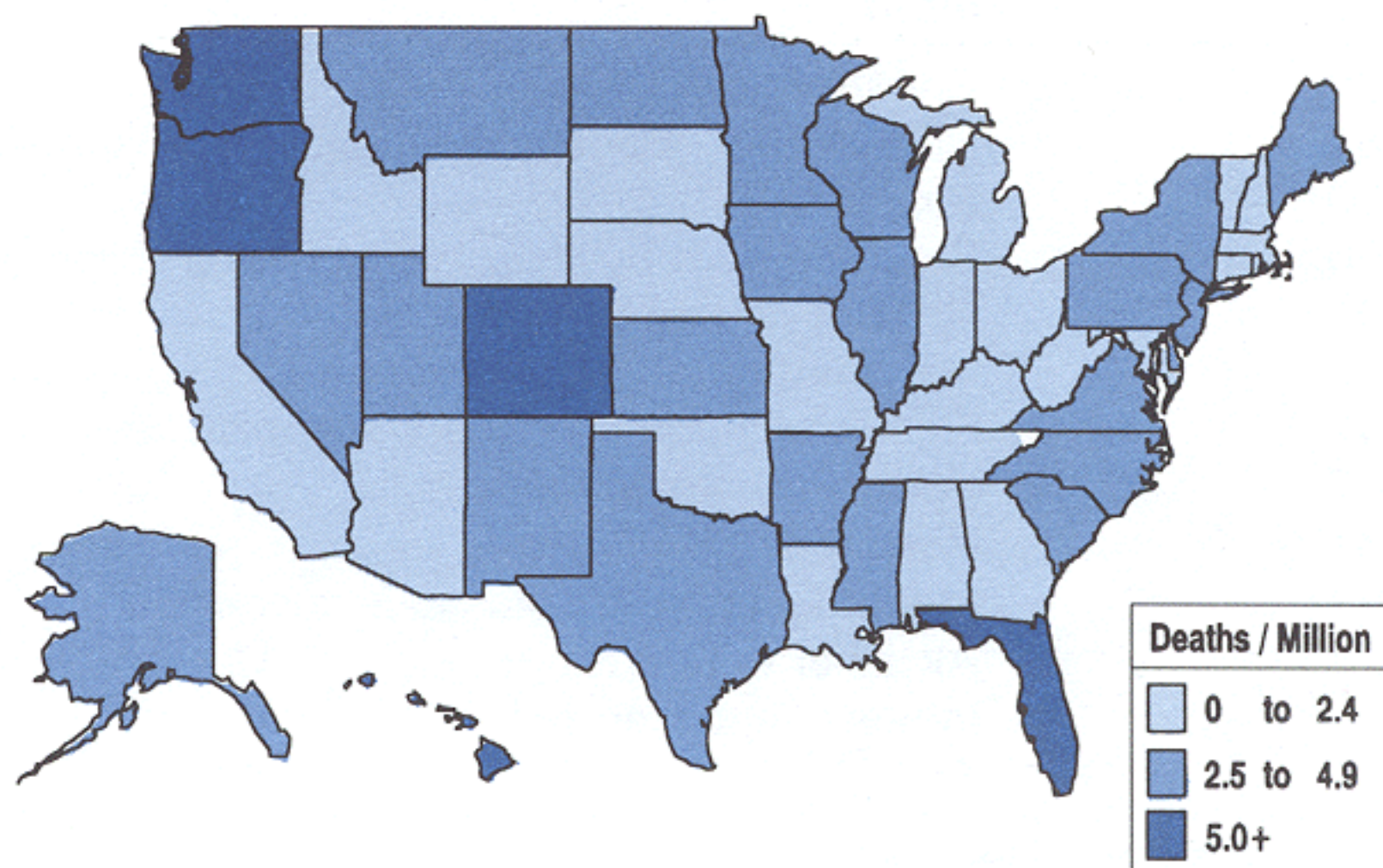
Figure 2-3. Malignant neoplasm of the pleura: crude and age-adjusted mortality rates, U.S. residents age 15 and over, 1968-1990



- There is no clear geographic pattern for crude mortality rates by state. The state with the highest crude mortality rate for this time period was Washington.

- See Table 2-10 for data.

Figure 2-4. Malignant neoplasm of the pleura: crude mortality rates, U.S. residents age 15 and over, by state, 1989-1990



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Table 2-1. Malignant neoplasm of the pleura: most frequently recorded occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1985-1990

COC	Occupation	Number	Percent
914	Homemaker	84	10.4
019	Managers and administrators, n.e.c.	54	6.7
585	Plumbers, pipefitters and steamfitters	28	3.5
889	Laborers, except construction	26	3.2
633	Supervisors, production occupations	24	3.0
243	Supervisors and proprietors, sales occupations	22	2.7
473	Farmers, except horticultural	20	2.5
575	Electricians	20	2.5
567	Carpenters	18	2.2
637	Machinists	15	1.9
	All other occupations	468	58.0
	Occupation not reported	28	3.5
	TOTAL	807	100.0

COC - 1980 Census Occupation Code n.e.c. - not elsewhere classified

NOTE: See Appendix C for list of 25 states reporting usual occupation and years reporting. Percentages may not total to 100% due to rounding.

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

Table 2-2. Malignant neoplasm of the pleura: most frequently recorded industries on death certificate, U.S. residents age 15 and over, selected states and years, 1985-1990

CIC	Industry	Number	Percent
060	Construction	107	13.3
961	Homemaker, student, unemployed, volunteer	89	11.0
400	Railroads	24	3.0
360	Ship and boat building and repairing	22	2.7
901	General government, n.e.c.	18	2.2
010	Agricultural production, crops	17	2.1
842	Elementary and secondary schools	17	2.1
142	Yarn, thread and fabric mills	15	1.9
831	Hospitals	14	1.7
192	Industrial and miscellaneous chemicals	13	1.6
	All other industries	441	54.6
	Industry not reported	30	3.7
	TOTAL	807	100.0

CIC - 1980 Census Industry Code n.e.c. - not elsewhere classified

NOTE: See Appendix C for list of 25 states reporting usual industry and years reporting. Percentages may not total to 100% due to rounding.

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

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Table 2-3. Malignant neoplasm of the pleura: number of deaths, U.S. residents age 15 and over, by age, race, and sex, 1968-1990

Years		1968-1978		1979-1990		1989-1990	
Total Deaths		4,622	%	5,935	%	1,095	%
Sex	Male	3,066	66.3	4,407	74.3	837	76.4
	Female	1,556	33.7	1,528	25.7	258	23.6
Race	White	4,260	92.2	5,546	93.4	1,023	93.4
	Black	347	7.5	350	5.9	64	5.8
	Other	15	0.3	39	0.7	8	0.7
Race/Sex	White Male	2,836	61.4	4,144	69.8	789	72.1
	White Female	1,424	30.8	1,402	23.6	234	21.4
	Black Male	221	4.8	232	3.9	42	3.8
	Black Female	126	2.7	118	2.0	22	2.0
	Other Male	9	0.2	31	0.5	6	0.5
	Other Female	6	0.1	8	0.1	2	0.2
Age	Years						
	15-24	21	0.5	5	0.1	1	0.1
	25-34	57	1.2	48	0.8	9	0.8
	35-44	181	3.9	142	2.4	22	2.0
	45-54	552	11.9	416	7.0	67	6.1
	55-64	1,194	25.8	1,291	21.8	187	17.1
	65-74	1,451	31.4	2,011	33.9	407	37.2
	75-84	913	19.8	1,576	26.6	319	29.1
	85 and Over	253	5.5	446	7.5	83	7.6
	Mean	65.7		69.0		70.2	
Range	15-101		22-102		22-98		

NOTE: See Appendix B for methods. Percentages may not total to 100% due to rounding.

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

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Table 2-4. Malignant neoplasm of the pleura: number of deaths, U.S. residents age 15 and over, by state, 1968-1978

State	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	TOTAL
Alabama	1	2	2	4	2	3	6	3	2	1	2	28
Alaska	-	-	-	-	-	-	-	-	-	1	-	1
Arizona	2	2	4	3	-	1	3	3	-	2	6	26
Arkansas	3	1	1	1	2	-	3	4	1	7	1	24
California	33	38	39	45	52	41	59	44	38	34	55	478
Colorado	3	4	6	1	6	5	4	5	1	9	4	48
Connecticut	5	5	8	5	6	1	2	5	8	4	4	53
Delaware	1	3	1	-	2	2	-	1	1	-	1	12
District of Columbia	3	3	2	3	6	1	2	1	1	1	-	23
Florida	11	15	16	14	14	12	17	19	29	25	360	208
Georgia	5	10	6	5	8	5	5	4	7	7	6	68
Hawaii	-	-	-	-	-	-	-	1	1	1	-	3
Idaho	3	1	1	-	-	1	2	2	1	1	-	12
Illinois	33	32	38	31	16	30	31	34	39	35	36	355
Indiana	6	10	7	8	10	8	7	9	9	6	8	88
Iowa	8	6	7	6	8	4	6	3	7	8	7	70
Kansas	3	4	7	5	14	1	1	3	1	4	8	51
Kentucky	6	3	7	9	6	8	7	6	6	5	5	68
Louisiana	8	4	8	6	4	7	5	1	5	2	6	56
Maine	2	1	3	3	2	2	2	4	2	5	4	30
Maryland	11	10	6	11	4	6	8	6	6	6	4	78
Massachusetts	10	9	11	15	10	13	12	7	16	22	8	133
Michigan	16	18	8	15	16	21	13	15	11	19	20	172
Minnesota	4	10	7	5	4	6	9	10	5	5	13	78
Mississippi	3	3	1	2	2	4	2	5	4	7	3	36
Missouri	6	8	7	6	6	13	9	5	14	6	13	93
Montana	-	1	-	2	-	-	3	3	-	2	4	15
Nebraska	3	2	2	4	-	3	1	2	4	4	2	27
Nevada	1	2	-	2	-	-	-	-	-	-	-	5
New Hampshire	1	1	2	1	-	-	1	2	1	2	1	12
New Jersey	23	19	34	22	22	23	25	34	22	19	21	264
New Mexico	1	-	2	1	2	-	1	4	2	1	-	14
New York	44	37	56	62	72	54	46	52	62	49	42	576
North Carolina	4	11	8	7	6	7	9	6	10	6	8	82
North Dakota	5	2	-	-	-	2	1	1	1	2	-	14
Ohio	22	14	20	27	24	21	15	23	19	26	24	235
Oklahoma	5	2	3	6	6	2	4	7	6	1	5	47
Oregon	4	3	6	2	2	3	3	3	7	9	8	50
Pennsylvania	30	28	26	23	24	30	28	36	29	25	30	309
Rhode Island	2	2	2	3	2	-	1	-	4	6	5	27
South Carolina	3	2	-	4	2	2	1	5	2	3	4	28
South Dakota	1	-	1	-	-	1	1	1	1	1	2	9
Tennessee	8	5	9	11	6	2	4	2	5	11	7	70
Texas	8	4	14	19	10	18	13	12	10	17	19	144
Utah	2	1	-	2	2	3	1	-	2	1	3	17
Vermont	1	-	1	1	-	1	-	3	1	-	1	9
Virginia	13	12	12	8	20	10	7	8	7	6	7	110
Washington	11	4	10	10	10	8	17	11	9	9	15	114
West Virginia	1	3	5	6	-	3	4	5	7	2	2	38
Wisconsin	8	8	8	4	14	6	9	6	18	9	10	100
Wyoming	3	1	-	1	2	-	2	2	2	-	1	14
TOTAL	390	366	424	431	426	394	412	428	446	434	471	4,622

NOTE: See Appendix B for methods.

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

- indicates quantity zero.

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Table 2-5. Malignant neoplasm of the pleura: number of deaths, U.S. residents age 15 and over, by state, 1979-1990

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	TOTAL
Alabama	4	9	10	2	3	13	10	8	8	6	4	4	81
Alaska	-	-	-	-	2	-	-	-	-	-	2	-	4
Arizona	8	6	-	7	8	5	5	10	7	6	7	2	71
Arkansas	2	2	4	4	-	1	3	2	6	6	6	6	42
California	51	38	46	47	42	41	50	45	48	43	42	47	540
Colorado	4	6	5	4	2	5	5	8	7	8	19	9	82
Connecticut	6	5	7	7	8	6	7	5	5	5	3	6	70
Delaware	1	1	1	1	3	5	1	3	1	-	2	2	21
District of Columbia	2	3	-	-	-	2	-	2	1	-	2	1	13
Florida	36	31	33	47	39	57	36	30	58	55	53	59	534
Georgia	5	1	10	10	2	4	8	7	4	5	2	9	67
Hawaii	2	-	1	2	-	-	-	3	2	1	3	-	14
Idaho	-	-	-	-	-	3	2	2	3	1	-	1	12
Illinois	34	32	30	28	33	29	26	26	21	30	22	23	334
Indiana	7	8	20	2	5	5	5	10	11	8	8	11	100
Iowa	4	8	11	11	15	12	7	8	10	6	10	9	111
Kansas	3	5	2	6	6	10	3	3	7	10	7	4	66
Kentucky	3	8	-	10	3	9	9	4	5	10	7	4	72
Louisiana	5	7	12	3	8	6	3	3	4	2	8	4	65
Maine	4	4	2	3	4	4	-	3	3	5	4	2	38
Maryland	4	3	9	6	6	6	12	15	5	4	11	6	87
Massachusetts	9	10	10	18	7	18	12	11	6	10	11	12	134
Michigan	9	13	17	11	24	16	13	21	17	20	16	14	191
Minnesota	5	9	7	7	11	7	4	6	9	15	11	13	104
Mississippi	2	2	4	4	1	8	4	6	2	6	8	4	51
Missouri	7	6	10	8	6	6	4	6	8	5	5	10	81
Montana	1	3	1	2	5	4	3	2	2	3	3	2	31
Nebraska	1	3	1	2	2	2	2	2	2	2	2	2	23
Nevada	-	1	-	-	2	1	-	1	-	-	2	4	11
New Hampshire	-	-	1	3	3	4	3	3	-	1	1	1	20
New Jersey	31	38	34	41	49	44	28	20	17	22	19	21	364
New Mexico	2	1	3	1	1	2	2	2	1	2	2	4	23
New York	52	37	50	48	38	52	45	45	65	45	48	50	575
North Carolina	6	13	7	5	6	4	10	8	20	19	19	22	139
North Dakota	-	2	-	-	2	3	3	3	1	-	2	2	18
Ohio	20	19	12	26	18	26	17	19	19	12	21	15	224
Oklahoma	2	7	-	4	1	6	5	7	3	6	3	6	50
Oregon	9	6	4	6	9	4	7	18	9	18	13	19	122
Pennsylvania	33	30	27	26	28	19	29	30	31	19	26	19	317
Rhode Island	1	1	3	2	3	2	1	6	3	2	1	-	25
South Carolina	2	6	8	11	7	6	8	9	7	10	5	15	94
South Dakota	1	1	3	1	-	2	4	-	1	-	-	1	14
Tennessee	13	5	6	12	11	8	11	12	9	9	10	7	113
Texas	15	21	12	14	20	12	11	15	11	10	23	48	212
Utah	2	-	2	-	2	4	2	3	2	1	3	3	24
Vermont	1	-	2	-	-	1	-	1	-	2	1	-	8
Virginia	7	7	4	10	10	10	13	5	10	8	17	8	109
Washington	18	19	8	25	21	20	22	22	24	15	32	31	257
West Virginia	5	5	6	6	4	6	3	1	2	6	4	2	50
Wisconsin	9	14	7	10	10	11	9	12	7	12	12	9	122
Wyoming	-	1	1	1	-	1	-	1	-	-	-	-	5
TOTAL	448	457	453	504	490	532	467	494	504	491	542	553	5,935

NOTE: See Appendix B for methods.

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

- indicates quantity zero.

MALIGNANT NEOPLASM OF THE PLEURA**Mortality****Table 2-6. Malignant neoplasm of the pleura: crude mortality rates (per 1,000,000 population), U.S. residents age 15 and over, by race and sex, 1968-1990**

Year	Overall rate	White		Black	
		Males	Females	Males	Females
1968	2.67	3.51	2.00	3.00	1.48
1969	2.51	3.36	1.99	1.83	0.91
1970	2.90	4.25	1.88	2.87	1.25
1971	2.89	4.43	1.75	2.39	1.10
1972	2.80	4.05	1.57	4.37	1.91
1973	2.54	3.42	1.91	2.35	1.03
1974	2.60	3.78	1.77	1.82	1.29
1975	2.66	3.79	1.85	2.32	1.15
1976	2.72	3.90	1.91	2.68	0.65
1977	2.60	4.09	1.54	1.46	0.99
1978	2.77	4.31	1.79	1.11	1.13
1979	2.59	4.21	1.45	1.57	0.76
1980	2.60	4.20	1.44	1.70	1.22
1981	2.54	4.30	1.23	2.20	0.64
1982	2.80	4.21	1.98	1.70	0.39
1983	2.71	4.81	1.32	1.05	0.77
1984	2.88	4.67	1.56	2.11	0.95
1985	2.49	4.28	1.22	1.26	0.80
1986	2.69	4.32	1.43	2.24	0.87
1987	2.72	4.69	1.22	1.80	0.86
1988	2.63	4.32	1.38	2.07	0.42
1989	2.90	4.75	1.43	2.15	1.26
1990	2.93	5.12	1.30	1.92	0.58

NOTE: See Appendix B for methods.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.
U.S. Bureau of the Census: 1970-1990 population estimates of the U.S.

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Table 2-7. Malignant neoplasm of the pleura: age-adjusted mortality rates (per 1,000,000 population), U.S. residents age 15 and over, by race and sex, 1968-1990

Year	Overall rate	White		Black	
		Males	Females	Males	Females
1968	2.10	2.90	1.44	3.06	1.23
1969	2.02	2.80	1.52	1.80	0.87
1970	2.29	3.49	1.34	2.92	1.23
1971	2.18	3.57	1.14	2.32	1.00
1972	2.18	3.32	1.04	4.49	1.88
1973	1.94	2.73	1.37	2.50	0.93
1974	2.02	3.10	1.21	1.96	1.24
1975	2.05	3.11	1.26	2.48	1.03
1976	2.05	3.17	1.24	2.78	0.64
1977	2.00	3.35	1.03	1.59	1.05
1978	2.08	3.50	1.14	1.32	0.97
1979	1.96	3.45	0.94	1.69	0.65
1980	1.91	3.37	0.84	1.91	1.05
1981	1.83	3.36	0.70	2.45	0.48
1982	2.06	3.36	1.20	1.96	0.38
1983	1.92	3.68	0.83	1.08	0.69
1984	2.09	3.61	0.97	2.36	0.87
1985	1.77	3.33	0.74	1.34	0.74
1986	1.85	3.21	0.84	2.35	0.70
1987	1.91	3.57	0.70	1.85	0.73
1988	1.81	3.19	0.82	2.10	0.46
1989	1.96	3.43	0.87	2.13	1.00
1990	1.95	3.68	0.73	1.93	0.40

NOTE: See Appendix B for methods.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.
U.S. Bureau of the Census: 1970-1990 population estimates of the U.S.

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Table 2-8. Malignant neoplasm of the pleura: years of potential life lost to age 65, U.S. residents age 15 and over, by race and sex, 1968-1990

Year	Total	White		Black	
		Males	Females	Males	Females
1968	2,130	1,205	685	175	20
1969	2,220	1,205	865	115	35
1970	2,405	1,440	680	170	115
1971	1,720	1,180	435	75	25
1972	2,220	1,370	340	300	210
1973	1,980	820	895	230	35
1974	1,960	1,075	590	155	135
1975	1,940	1,070	635	200	35
1976	1,745	1,010	475	185	50
1977	1,720	1,120	385	85	115
1978	1,675	1,065	470	110	30
1979	1,725	1,200	435	65	15
1980	1,655	1,150	260	155	75
1981	1,530	1,025	205	245	5
1982	1,950	1,320	470	130	10
1983	1,335	965	305	40	25
1984	1,630	1,030	360	170	25
1985	1,340	895	335	45	40
1986	1,385	900	310	125	35
1987	1,515	1,015	310	95	80
1988	1,235	770	345	90	30
1989	1,470	825	445	100	100
1990	1,380	955	230	135	45

NOTE: See Appendix B for methods.

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

MALIGNANT NEOPLASM OF THE PLEURA**Mortality****Table 2-9. Malignant neoplasm of the pleura: years of potential life lost to life expectancy, U.S. residents age 15 and over, by race and sex, 1968-1990**

Year	Total	White		Black	
		Males	Females	Males	Females
1968	6,229	3,184	2,267	357	163
1969	6,191	3,114	2,543	237	137
1970	7,061	3,872	2,237	366	256
1971	6,433	3,808	1,830	252	152
1972	6,808	3,702	1,679	599	419
1973	6,217	2,861	2,551	394	160
1974	6,577	3,492	2,172	288	290
1975	6,943	3,618	2,374	386	199
1976	6,928	3,668	2,273	423	141
1977	6,979	4,017	1,970	225	265
1978	7,219	4,131	2,250	208	207
1979	7,203	4,356	1,917	225	132
1980	6,965	4,212	1,668	305	250
1981	6,786	4,192	1,404	450	85
1982	8,017	4,565	2,513	306	83
1983	7,154	4,615	1,685	153	158
1984	8,033	4,690	2,051	411	197
1985	6,854	4,263	1,646	194	184
1986	7,210	4,342	1,815	330	151
1987	7,572	4,931	1,559	247	197
1988	7,079	4,320	1,822	292	103
1989	7,997	4,806	2,030	306	264
1990	7,964	5,218	1,655	303	115

NOTE: See Appendix B for methods.

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

- indicates no deaths listed.

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Table 2-10. Malignant neoplasm of the pleura: number of deaths, crude and age-adjusted mortality rates (per 1,000,000 population), total years of potential life lost (YPLL), U.S. residents age 15 and over, by state, 1989-1990

State	Deaths		Crude mortality		Age-adjusted mortality		YPLL to age 65		YPLL to life expectancy	
	Rate	Rank	Rate	Rank	Rate	Rank	Years	Rank	Years	Rank
Alabama	8	33	1.30	44	0.76	46	10	36	98	34
Alaska	2	45	3.03	19	4.67	3	25	27	46	43
Arizona	9	30	1.71	42	1.18	42	15	35	140	29
Arkansas	12	24	3.34	14	1.94	23	35	25	180	26
California	89	3	2.11	36	1.53	31	235	2	1,285	3
Colorado	28	13	5.59	3	4.71	2	65	18	397	14
Connecticut	9	30	1.73	41	0.87	43	5	40	100	33
Delaware	4	40	3.84	10	2.79	11	50	22	91	37
District of Columbia	3	43	2.91	22	1.75	27	0	43	30	45
Florida	112	1	5.40	4	2.52	13	140	5	1,463	2
Georgia	11	27	1.11	47	0.80	45	5	40	132	30
Hawaii	3	43	5.30	5	4.43	5	0	43	30	45
Idaho	1	47	0.69	49	0.46	47	0	43	14	47
Illinois	45	6	2.59	27	1.74	28	65	18	621	8
Indiana	19	19	2.24	31	1.48	33	25	27	254	20
Iowa	19	19	4.43	6	2.40	14	35	25	244	21
Kansas	11	27	2.92	21	1.88	25	40	23	162	27
Kentucky	11	27	1.94	38	1.35	38	25	27	159	28
Louisiana	12	24	1.92	39	1.62	29	60	20	214	23
Maine	6	34	3.16	17	1.96	22	5	40	79	39
Maryland	17	21	2.32	30	1.56	30	20	31	213	24
Massachusetts	23	16	2.42	28	1.41	35	40	23	289	19
Michigan	30	12	2.12	35	1.49	32	80	13	444	12
Minnesota	24	15	3.63	12	3.16	8	130	7	446	11
Mississippi	12	24	3.16	17	2.37	15	85	12	234	22
Missouri	15	23	1.89	40	1.21	41	20	31	212	25
Montana	5	39	4.31	7	3.29	7	10	36	78	41
Nebraska	4	40	1.67	43	0.86	44	0	43	44	44
Nevada	6	34	3.29	16	2.57	12	10	36	92	35
New Hampshire	2	45	1.16	45	1.30	39	20	31	50	42
New Jersey	40	9	3.34	14	2.08	20	135	6	615	9
New Mexico	6	34	2.97	20	2.15	18	0	43	83	38
New York	98	2	3.54	13	2.35	16	320	1	1,482	1
North Carolina	41	8	3.99	9	2.96	9	160	4	669	7
North Dakota	4	40	4.25	8	4.18	6	25	27	79	39
Ohio	36	10	2.15	33	1.37	36	80	13	504	10
Oklahoma	9	30	1.99	37	1.25	40	10	36	116	32
Oregon	32	11	7.43	2	4.45	4	80	13	437	13
Pennsylvania	45	6	2.39	29	1.47	34	100	9	671	6
Rhode Island	1	47	0.64	50	0.38	48	0	43	14	47
South Carolina	20	18	3.73	11	2.80	10	100	9	338	16
South Dakota	1	47	1.01	48	0.15	50	0	43	6	49
Tennessee	17	21	2.24	31	1.82	26	90	11	316	18
Texas	71	4	2.82	23	2.09	19	165	3	983	4
Utah	6	34	2.65	25	2.29	17	20	31	92	35
Vermont	1	47	1.15	46	0.24	49	0	43	6	49
Virginia	25	14	2.65	25	2.06	21	70	16	368	15
Washington	63	5	8.79	1	6.08	1	110	8	896	5
West Virginia	6	34	2.14	34	1.37	36	60	20	124	31
Wisconsin	21	17	2.81	24	1.89	24	70	16	320	17
Wyoming	-	51	-	51	-	51	-	51	-	51

NOTE: See Appendix B for methods.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.
U.S. Bureau of the Census: 1989-1990 population estimates of the U.S.

- indicates no deaths listed.

MALIGNANT NEOPLASM OF THE PLEURA

Mortality

Table 2-11. Malignant neoplasm of the pleura: 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
593	Insulation workers	4	22.63	6.17	57.88
556	Supervisors; painters, paperhangers, plasterers	5	13.94	4.51	32.57
256	Advertising and related sales occupations	3	11.54	2.38	33.74
048	Chemical engineers	4	10.60	2.89	27.11
653	Sheet metal workers	11	9.81	4.90	17.55
585	Plumbers, pipefitters and steamfitters	26	7.92	5.18	11.61
363	Production coordinators	3	6.84	1.41	20.00
766	Furnace, kiln, and oven operators, except food	6	5.71	2.09	12.44
213	Electrical and electronic technicians	3	5.09	1.05	14.88
575	Electricians	18	4.82	2.85	7.61
055	Electrical and electronic engineers	6	4.20	1.54	9.15
417	Firefighting occupations	3	3.61	0.74	10.56
516	Heavy equipment mechanics	3	3.53	0.73	10.32
503	Supervisors, mechanics and repairers	4	3.41	0.93	8.72
696	Stationary engineers	6	3.36	1.23	7.32
518	Industrial machinery repairers	6	3.33	1.22	7.25
783	Welders and cutters	11	3.23	1.61	5.78
877	Stock handlers and baggers	3	3.17	0.65	9.27
365	Stock and inventory clerks	5	3.03	0.98	7.08
057	Mechanical engineers	3	2.84	0.59	8.30
633	Supervisors, production occupations	22	2.71	1.69	4.11
185	Designers	3	2.60	0.54	7.60
457	Barbers	3	2.37	0.49	6.93
734	Printing machine operators	3	2.05	0.42	5.99
567	Carpenters	18	1.94	1.15	3.06
019	Managers, administrators, n.e.c.	48	1.81	1.32	2.42
579	Painters, construction, and maintenance	6	1.79	0.66	3.90
637	Machinists	12	1.72	0.89	3.00
796	Production inspectors, checkers, examiners	6	1.69	0.62	3.68
563	Brickmasons and stonemasons	3	1.64	0.34	4.80
558	Supervisors; construction, n.e.c.	5	1.62	0.52	3.79
023	Accountants and auditors	5	1.33	0.43	3.11
426	Guards and police, except public service	4	1.32	0.36	3.38
913	Retired; with no other occupation	9	1.19	0.55	2.26
176	Clergy	3	1.16	0.24	3.39

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.

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