

## HYPERSENSITIVITY PNEUMONITIS

### Mortality

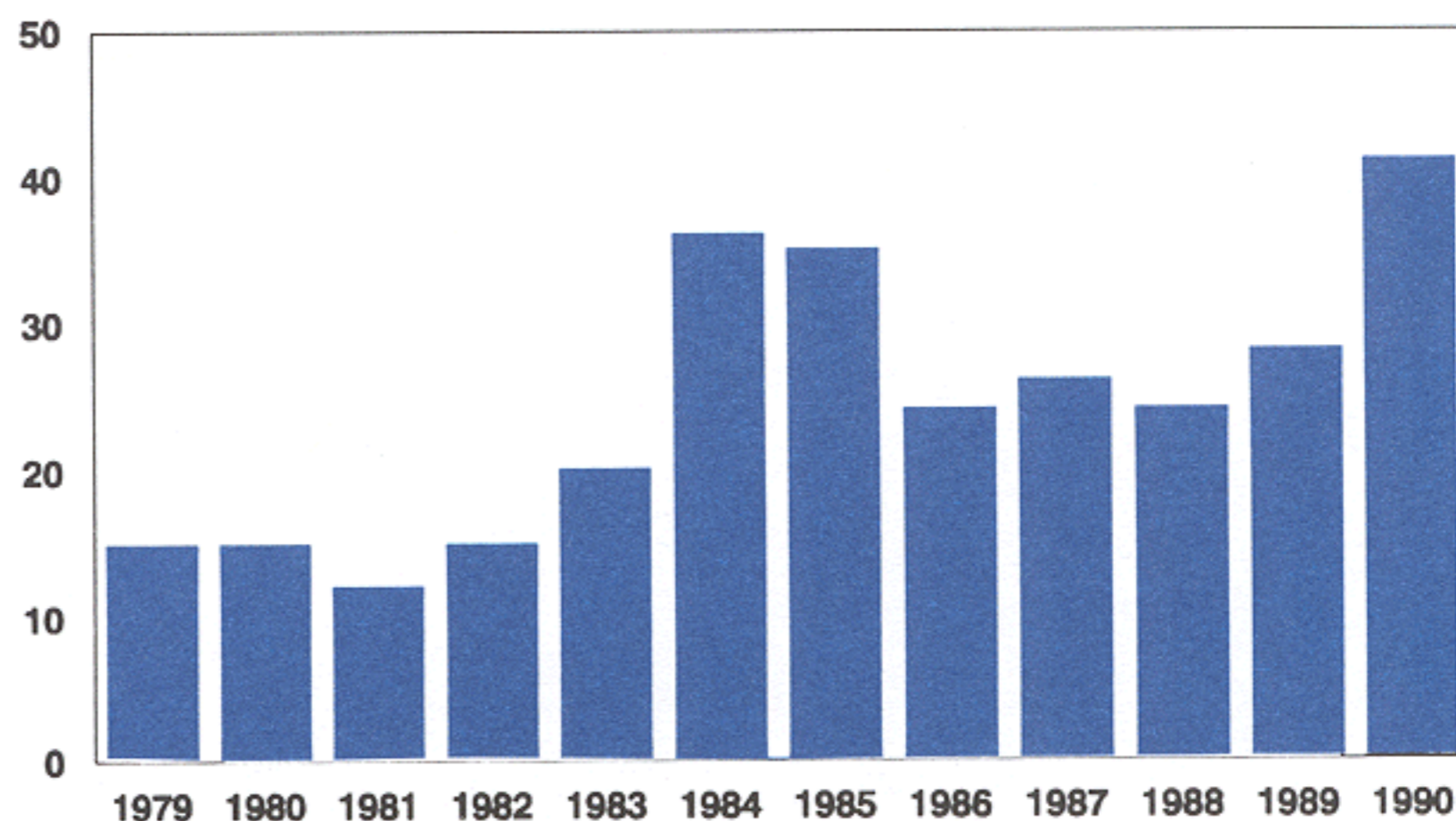
Hypersensitivity pneumonitis includes ICD-9 code 495 (extrinsic allergic alveolitis) for 1979-1990. Among the ICD-9 code 495 categories are: farmers' lung, bagassosis, bird-fanciers' lung, suberosis, malt workers' lung, mushroom workers' lung, maple bark-strippers' lung and "ventilation" pneumonitis.

- The total number of deaths with mention of hypersensitivity pneumonitis from 1979 to 1990 was 291. The annual number of deaths has ranged from 12 to 41, with an apparent general increase over this time period.

- See Tables 8-3 and 8-4 for data.

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

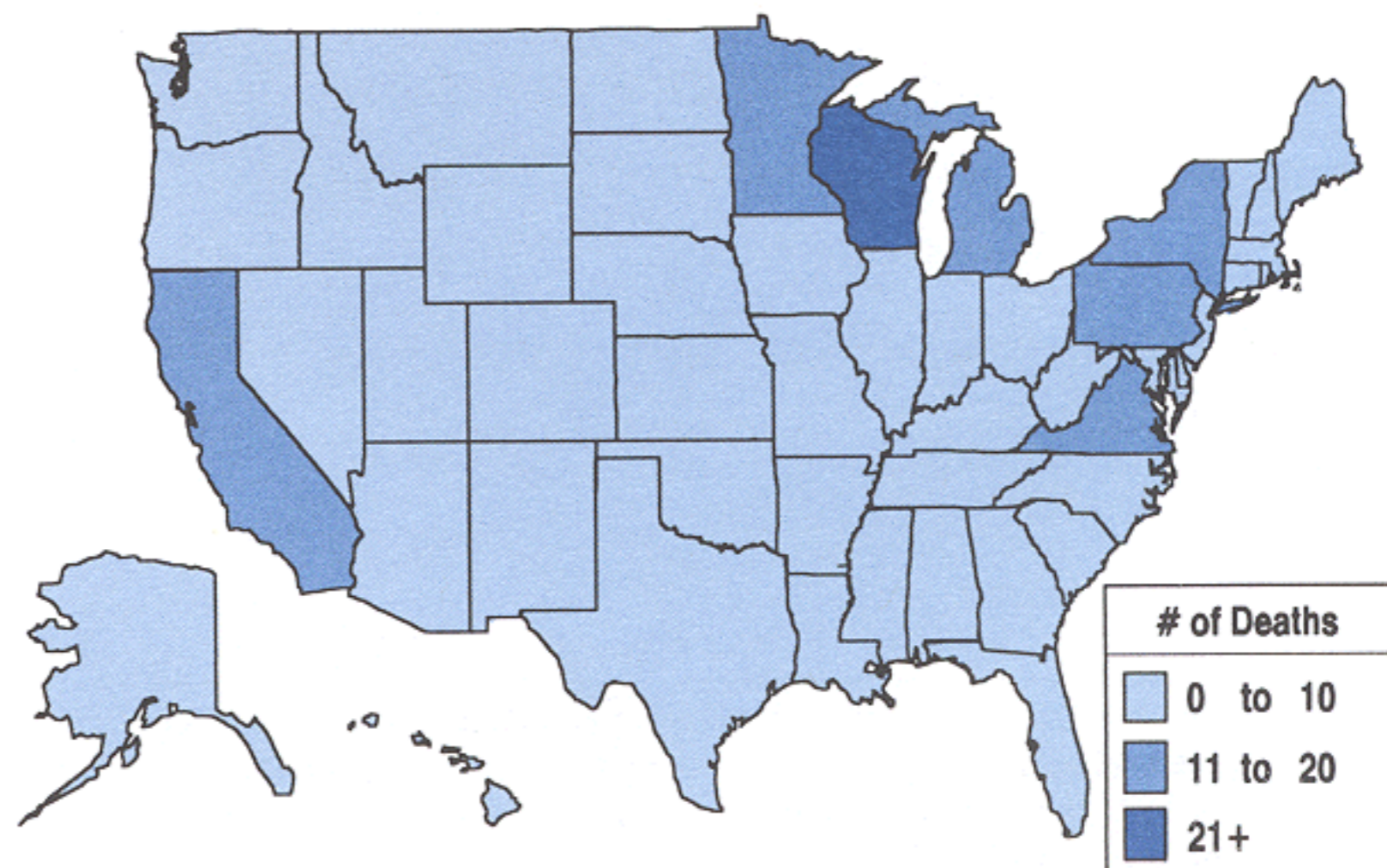
Figure 8-1. Hypersensitivity pneumonitis: number of deaths, U.S. residents age 15 and over, 1979-1990



- Wisconsin had the highest number of deaths with hypersensitivity pneumonitis (n = 47) for this period.

- See Table 8-4 for data.

Figure 8-2. Hypersensitivity pneumonitis: number of deaths, U.S. residents age 15 and over, by state, 1979-1990



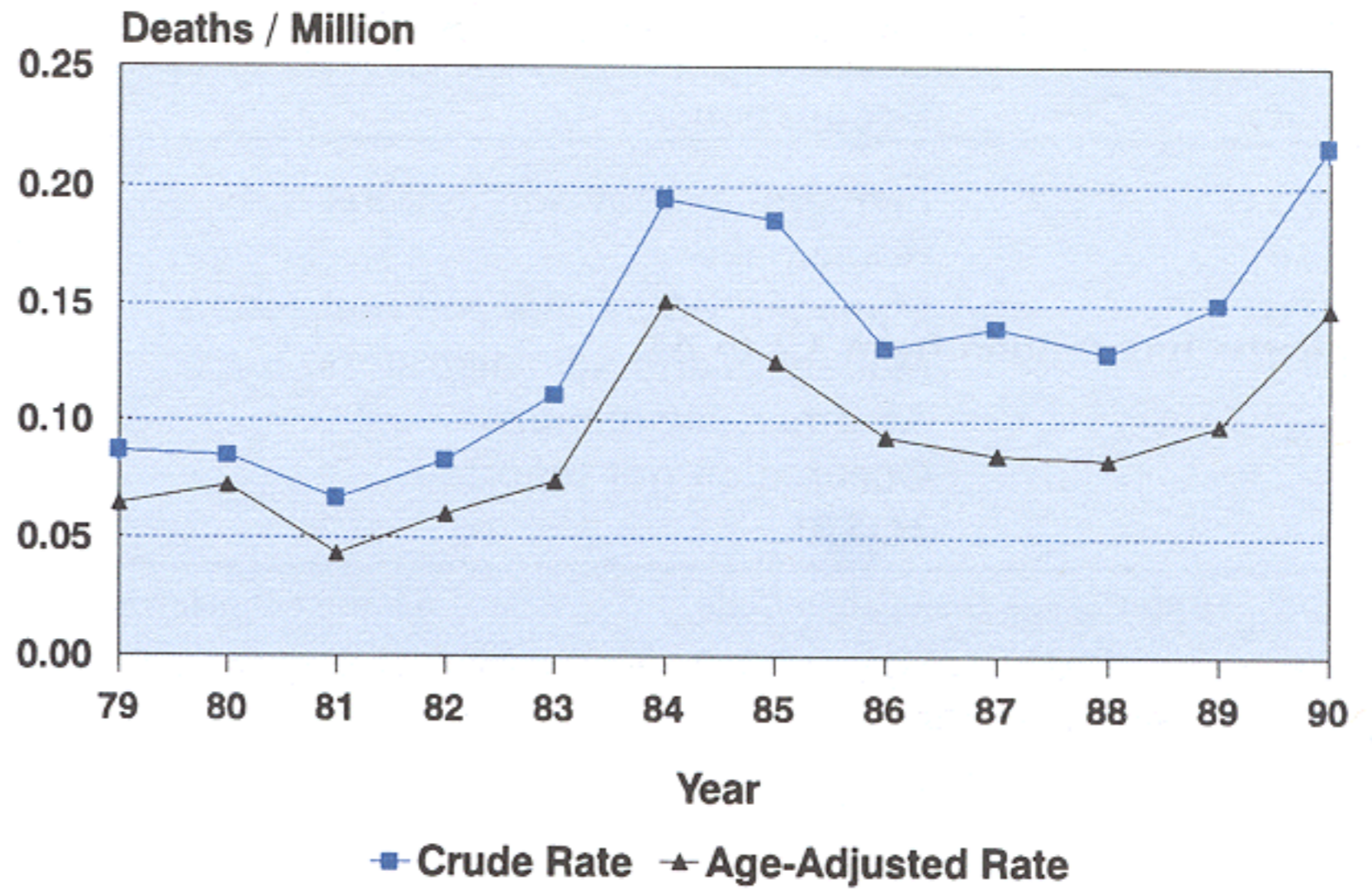


- The crude mortality rates have generally increased from less than 0.1 to more than 0.2 deaths per million from 1979 to 1990.

- See Tables 8-5 and 8-6 for data.

- See Appendix B for methods.

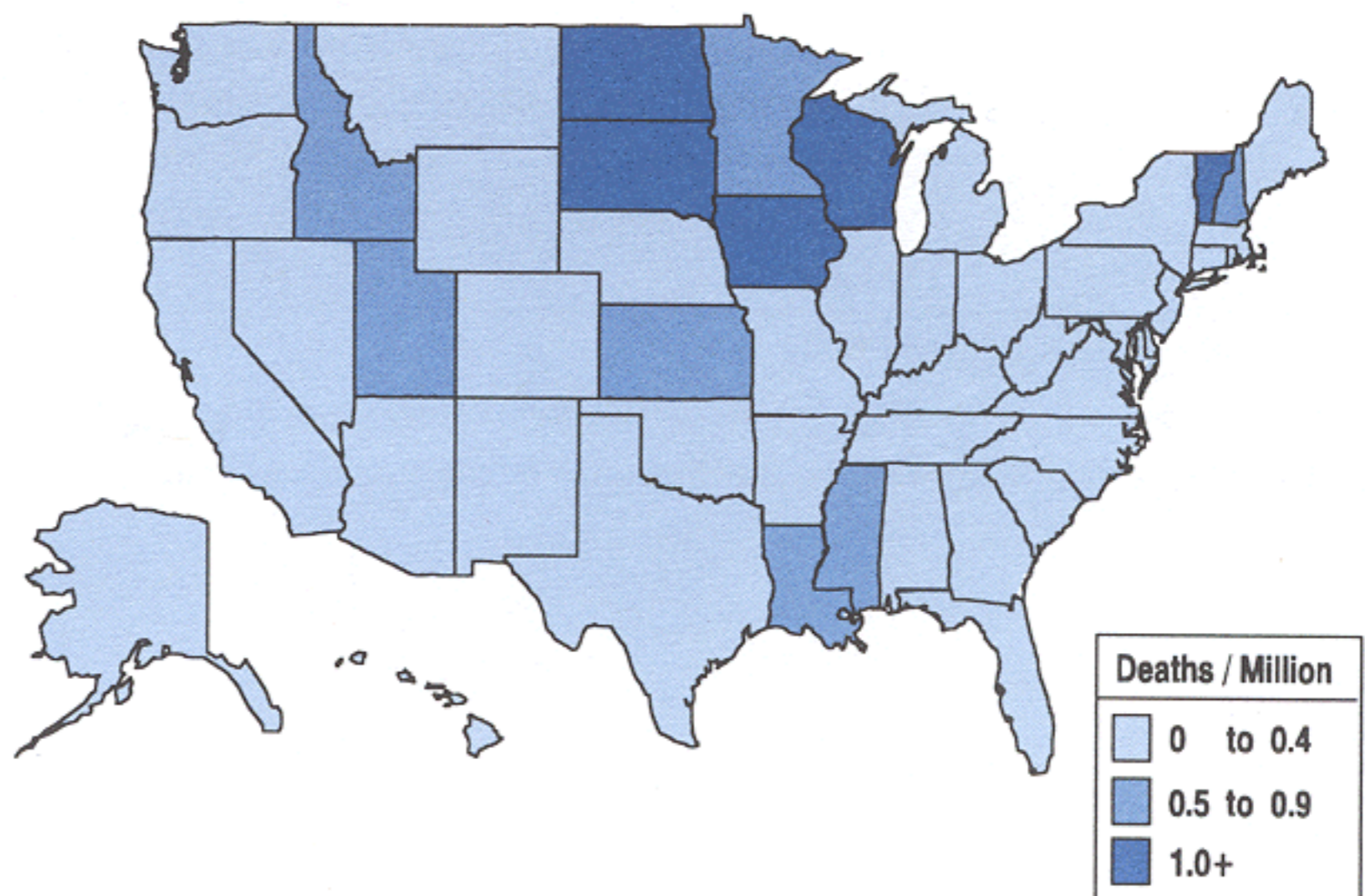
**Figure 8-3. Hypersensitivity pneumonitis: crude and age-adjusted mortality rates, U.S. residents age 15 and over, 1979-1990**



- Crude mortality rates for hypersensitivity pneumonitis were highest in the north central states and Vermont.

- See Table 8-9 for data.

**Figure 8-4. Hypersensitivity pneumonitis: crude mortality rates, U.S. residents age 15 and over, by state, 1989-1990**



## HYPERSENSITIVITY PNEUMONITIS

### Mortality

**Table 8-1. Hypersensitivity pneumonitis: most frequently recorded occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1985-1990**

COC	Occupation	Number	Percent
473	Farmers, except horticultural	29	50.0
914	Homemaker	8	13.8
016	Manager, properties and real estate	2	3.4
019	Managers and administrators, n.e.c.	2	3.4
	All other occupations	13	22.4
	Occupation not reported	4	6.9
	<b>TOTAL</b>	<b>58</b>	<b>100.0</b>

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 add to 100% due to rounding.

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

**Table 8-2. Hypersensitivity pneumonitis: most frequently recorded industries on death certificate, U.S. residents age 15 and over, selected states and years, 1985-1990**

CIC	Industry	Number	Percent
010	Agricultural production, crops	16	27.6
011	Agricultural production, livestock	15	25.9
961	Homemaker, student, unemployed, volunteer	8	13.8
712	Real estate, including real estate-insurance-law offices	2	3.4
	All other industries	12	20.7
	Industry not reported	5	8.6
	<b>TOTAL</b>	<b>58</b>	<b>100.0</b>

CIC - 1980 Census Industry Code

NOTE: See Appendix C for list of 25 states reporting usual industry and years reporting.

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



**HYPERSENSITIVITY PNEUMONITIS**

**Mortality**

**Table 8-3. Hypersensitivity pneumonitis: number of deaths, U.S. residents age 15 and over, by age, race, and sex, 1979-1990**

Years		1979-1990		1989-1990	
Total Deaths		291	%	69	%
Sex	Male	210	72.2	48	69.6
	Female	81	27.8	21	30.4
Race	White	278	95.5	65	94.2
	Black	11	3.8	2	2.9
	Other	2	0.7	2	2.9
Race/Sex	White Male	205	70.4	45	65.2
	White Female	73	25.1	20	29.0
	Black Male	4	1.4	2	2.9
	Black Female	7	2.4	0	0.0
	Other Male	1	0.3	1	1.4
	Other Female	1	0.3	1	1.4
Age	Years				
	15-24	5	1.7	0	0.0
	25-34	9	3.1	2	2.9
	35-44	7	2.4	4	5.8
	45-54	19	6.5	3	4.3
	55-64	47	16.2	10	14.5
	65-74	92	31.6	23	33.3
	75-84	88	30.2	24	34.8
	85 and Over	24	8.2	3	4.3
	Mean	68.5		68.8	
	Range	15-98		29-88	

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.

## HYPERSENSITIVITY PNEUMONITIS

### Mortality

**Table 8-4. Hypersensitivity pneumonitis: 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	-	-	-	-	-	-	-	1	-	-	-	-	1
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	2	-	1	-	2	-	5
Arkansas	-	-	-	-	-	1	-	-	-	1	-	-	2
California	1	-	-	-	1	7	1	2	4	1	1	2	20
Colorado	-	-	-	-	1	-	-	-	1	-	-	-	2
Connecticut	2	1	-	1	1	-	2	1	-	-	1	1	10
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	1	1	2	-	1	1	-	3	-	-	1	-	10
Georgia	-	-	-	-	-	-	-	1	-	-	1	-	2
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	1	-	-	-	-	-	1	-	2
Illinois	1	-	-	-	3	-	1	1	-	1	1	1	9
Indiana	1	-	2	-	-	-	1	-	1	1	-	1	7
Iowa	-	-	-	-	-	2	2	-	1	-	4	1	10
Kansas	-	-	-	1	-	1	-	-	-	-	1	1	4
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	2	-	-	-	-	-	1	-	-	-	-	4	7
Maine	-	-	-	-	-	1	-	-	-	1	-	-	2
Maryland	-	-	-	-	-	-	2	-	1	-	-	1	4
Massachusetts	-	-	-	-	-	1	-	-	1	1	-	1	4
Michigan	1	1	1	2	-	3	2	-	-	3	-	5	18
Minnesota	-	-	2	-	1	4	2	-	1	2	2	2	16
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	1	-	-	-	-	1	-	-	1	-	-	3
Montana	-	-	-	-	-	-	-	1	-	-	-	-	1
Nebraska	1	-	-	-	-	-	-	-	-	1	-	1	3
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	1	1
New Jersey	-	1	-	-	-	-	-	-	1	1	-	-	3
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	-
New York	2	2	1	-	-	-	2	-	3	-	1	3	14
North Carolina	-	-	1	-	-	-	-	-	-	1	-	-	2
North Dakota	-	-	-	-	-	-	-	-	-	-	-	1	1
Ohio	-	1	-	-	-	1	-	-	-	1	3	-	6
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-	1	1	-	1	3
Pennsylvania	-	-	1	2	2	4	2	-	-	2	1	5	19
Rhode Island	1	-	-	-	-	1	-	-	1	-	-	-	3
South Carolina	-	-	-	-	-	-	-	-	1	-	-	1	2
South Dakota	-	-	-	-	1	2	-	1	1	-	-	1	6
Tennessee	-	1	-	-	1	-	1	1	-	-	-	-	4
Texas	-	1	-	2	2	1	2	1	-	-	1	-	10
Utah	-	-	-	-	-	-	-	-	-	-	2	-	2
Vermont	-	-	-	2	-	-	-	-	-	1	1	-	4
Virginia	-	1	-	1	-	1	2	3	1	2	-	-	11
Washington	-	-	-	2	-	-	2	1	-	-	1	-	6
West Virginia	-	-	-	-	1	-	-	-	2	-	-	-	3
Wisconsin	2	4	2	2	3	4	7	7	4	2	3	7	47
Wyoming	-	-	-	-	1	1	-	-	-	-	-	-	2
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>12</b>	<b>15</b>	<b>20</b>	<b>36</b>	<b>35</b>	<b>24</b>	<b>26</b>	<b>24</b>	<b>28</b>	<b>41</b>	<b>291</b>

NOTE: See Appendix B for methods.

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

- indicates quantity zero.

**HYPERSENSITIVITY PNEUMONITIS**

**Mortality**

**Table 8-5. Hypersensitivity pneumonitis, crude mortality rates (per 1,000,000 population), U.S. residents age 15 and over, by race and sex, 1979-1990**

Year	Overall rate	White		Black	
		Males	Females	Males	Females
1979	0.09	0.14	0.05	0.10	-
1980	0.08	0.12	0.06	-	0.08
1981	0.07	0.12	0.04	-	-
1982	0.08	0.17	0.02	-	-
1983	0.11	0.20	0.06	-	-
1984	0.20	0.39	0.06	-	0.07
1985	0.19	0.28	0.13	0.08	0.07
1986	0.13	0.23	0.05	-	0.17
1987	0.14	0.23	0.08	-	0.09
1988	0.13	0.20	0.08	-	0.08
1989	0.15	0.20	0.13	0.10	-
1990	0.22	0.36	0.10	0.10	-

NOTE: See Appendix B for methods.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.  
U.S. Bureau of the Census: 1979-1990 population estimates of the U.S.

- indicates no deaths listed.

## HYPERSENSITIVITY PNEUMONITIS

### Mortality

**Table 8-6. Hypersensitivity pneumonitis: age-adjusted mortality rates (per 1,000,000 population), U.S. residents age 15 and over, by race and sex, 1979-1990**

Year	Overall rate	White		Black	
		Males	Females	Males	Females
1979	0.06	0.11	0.03	0.10	-
1980	0.07	0.10	0.05	-	0.09
1981	0.04	0.08	0.03	-	-
1982	0.06	0.13	0.02	-	-
1983	0.07	0.14	0.04	-	-
1984	0.15	0.32	0.03	-	0.10
1985	0.12	0.22	0.05	0.12	0.10
1986	0.09	0.18	0.03	-	0.15
1987	0.08	0.16	0.03	-	0.11
1988	0.08	0.14	0.05	-	0.07
1989	0.10	0.15	0.06	0.11	-
1990	0.15	0.27	0.05	0.08	-

NOTE: See Appendix B for methods.

SOURCE: National Center for Health Statistics multiple cause of death data tapes.  
U.S. Bureau of the Census: 1979-1990 population estimates of the U.S.

- indicates no deaths listed.

**HYPERSENSITIVITY PNEUMONITIS**

**Mortality**

**Table 8-7. Hypersensitivity pneumonitis: years of potential life lost to age 65, U.S. residents age 15 and over, by race and sex, 1979-1990**

Year	Total	White		Black	
		Males	Females	Males	Females
1979	60	50	10	0	-
1980	80	30	45	-	5
1981	25	15	10	-	-
1982	95	50	45	-	-
1983	40	25	15	-	-
1984	265	205	45	-	15
1985	105	70	5	15	15
1986	140	100	5	-	35
1987	35	20	0	-	15
1988	125	45	45	-	35
1989	120	115	0	5	-
1990	145	95	5	35	-

NOTE: See Appendix B for methods.

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

- indicates no deaths listed.



## HYPERSENSITIVITY PNEUMONITIS

### Mortality

**Table 8-8. Hypersensitivity pneumonitis: years of potential life lost to life expectancy, U.S. residents age 15 and over, by race and sex, 1979-1990**

Year	Total	White		Black	
		Males	Females	Males	Females
1979	242	147	67	11	-
1980	272	130	114	-	20
1981	148	82	60	-	-
1982	251	159	75	-	-
1983	275	168	89	-	-
1984	696	516	99	-	28
1985	478	278	115	22	28
1986	434	287	59	-	60
1987	318	202	61	-	28
1988	389	195	131	-	46
1989	450	283	128	16	-
1990	628	396	102	38	-

NOTE: See Appendix B for methods.

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

- indicates no deaths listed.

# HYPERSENSITIVITY PNEUMONITIS

## Mortality

**Table 8-9. Hypersensitivity pneumonitis: 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	Rank	Crude mortality		Age-adjusted mortality		YPLL to age 65		YPLL to life expectancy	
			Rate	Rank	Rate	Rank	Years	Rank	Years	Rank
Alabama	-	30	-	30	-	30	-	30	-	30
Alaska	-	30	-	30	-	30	-	30	-	30
Arizona	2	10	0.38	14	0.27	13	35	2	56	8
Arkansas	-	30	-	30	-	30	-	30	-	30
California	3	8	0.07	27	0.05	27	5	10	37	13
Colorado	-	30	-	30	-	30	-	30	-	30
Connecticut	2	10	0.39	13	0.26	14	25	4	46	9
Delaware	-	30	-	30	-	30	-	30	-	30
District of Columbia	-	30	-	30	-	30	-	30	-	30
Florida	1	15	0.05	28	0.02	29	0	16	14	19
Georgia	1	15	0.10	25	0.08	23	0	16	14	19
Hawaii	-	30	-	30	-	30	-	30	-	30
Idaho	1	15	0.69	7	0.63	4	25	4	38	11
Illinois	2	10	0.12	23	0.11	18	15	8	43	10
Indiana	1	15	0.12	23	0.08	23	0	16	14	19
Iowa	5	3	1.16	2	0.91	2	40	1	103	2
Kansas	2	10	0.53	11	0.28	11	0	16	22	15
Kentucky	-	30	-	30	-	30	-	30	-	30
Louisiana	4	5	0.64	8	0.39	10	35	2	72	3
Maine	-	30	-	30	-	30	-	30	-	30
Maryland	1	15	0.14	20	0.08	23	0	16	8	27
Massachusetts	1	15	0.10	25	0.07	26	0	16	14	19
Michigan	5	3	0.35	15	0.24	15	5	10	69	4
Minnesota	4	5	0.61	9	0.44	8	5	10	57	7
Mississippi	-	30	-	30	-	30	-	30	-	30
Missouri	-	30	-	30	-	30	-	30	-	30
Montana	-	30	-	30	-	30	-	30	-	30
Nebraska	1	15	0.42	12	0.28	11	0	16	14	19
Nevada	-	30	-	30	-	30	-	30	-	30
New Hampshire	1	15	0.57	10	0.43	9	0	16	14	19
New Jersey	-	30	-	30	-	30	-	30	-	30
New Mexico	-	30	-	30	-	30	-	30	-	30
New York	4	5	0.14	20	0.10	19	10	9	64	6
North Carolina	-	30	-	30	-	30	-	30	-	30
North Dakota	1	15	1.07	4	1.17	1	6	10	21	16
Ohio	3	8	0.18	19	0.09	22	0	16	34	14
Oklahoma	-	30	-	30	-	30	-	30	-	30
Oregon	1	15	0.23	17	0.24	15	5	10	21	16
Pennsylvania	6	2	0.32	16	0.15	17	5	10	66	5
Rhode Island	-	30	-	30	-	30	-	30	-	30
South Carolina	1	15	0.19	18	0.10	19	0	16	8	27
South Dakota	1	15	1.01	5	0.62	5	0	16	14	19
Tennessee	-	30	-	30	-	30	-	30	-	30
Texas	1	15	0.04	29	0.04	28	25	4	38	11
Utah	2	10	0.89	6	0.52	6	0	16	17	18
Vermont	1	15	1.15	3	0.51	7	0	16	8	27
Virginia	-	30	-	30	-	30	-	30	-	30
Washington	1	15	0.14	20	0.10	19	0	16	14	19
West Virginia	-	30	-	30	-	30	-	30	-	30
Wisconsin	10	1	1.34	1	0.88	3	25	4	140	1
Wyoming	-	30	-	30	-	30	-	30	-	30

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.

## **HYPERSENSITIVITY PNEUMONITIS**

### **Mortality**

**Table 8-10. Hypersensitivity pneumonitis: 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
473	Farmers, excluding horticultural	19	11.51	6.93	17.98

COC - 1980 Census Occupation Code

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.