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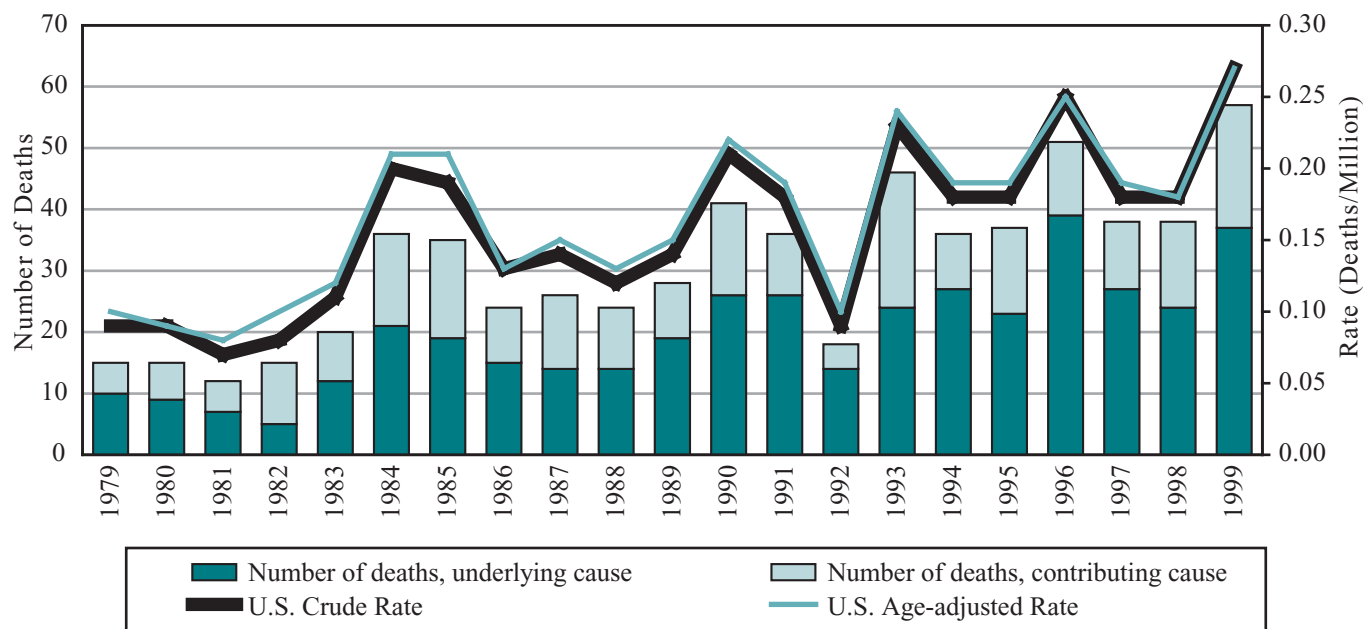
## **Section 8**

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# **Hypersensitivity Pneumonitis**



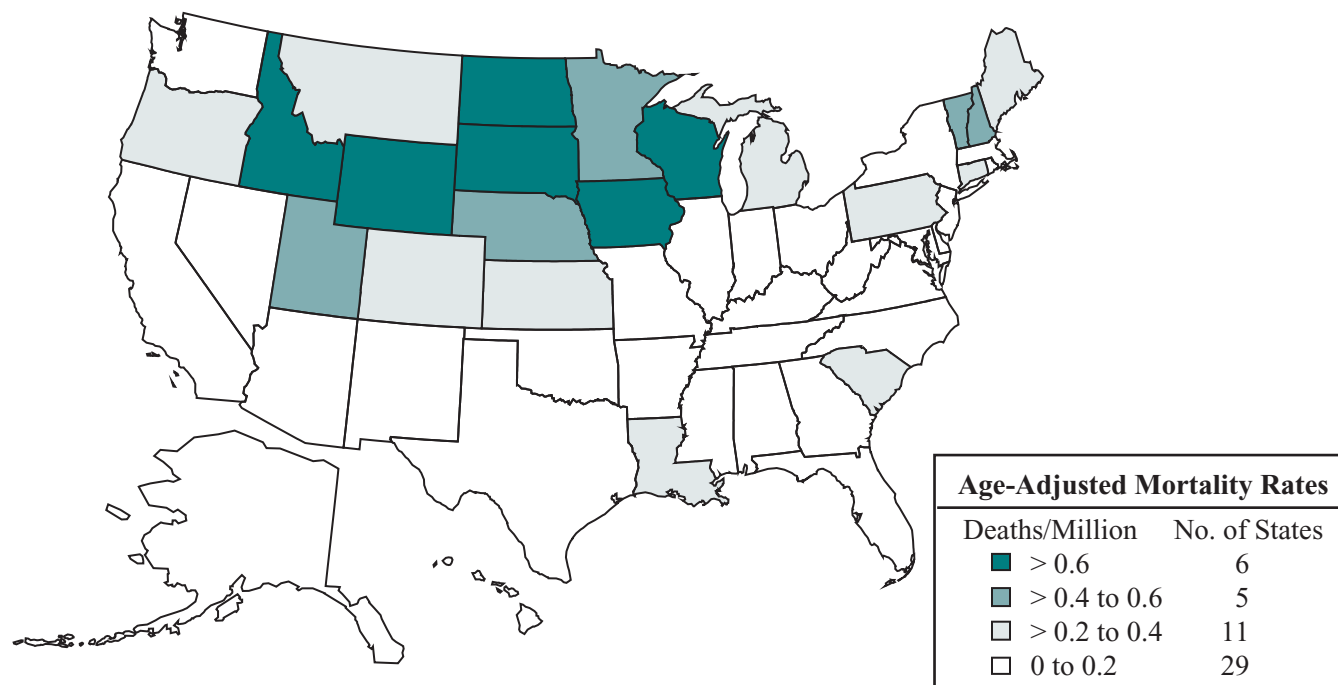
**Figure 8-1. Hypersensitivity pneumonitis: Number of deaths, crude and age-adjusted mortality rates, U.S. residents age 15 and over, 1979-1999**



NOTE: See appendices for source description, methods, and ICD codes.

SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.

**Figure 8-2. Hypersensitivity pneumonitis: Age-adjusted mortality rates by state, U.S. residents age 15 and over, 1990-1999**



NOTE: See appendices for source description, methods, and ICD codes.

SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.

**Table 8-1. Hypersensitivity pneumonitis: Number of deaths by sex, race, and age, and median age at death, U.S. residents age 15 and over, 1990-1999**

Year	No. of Deaths	Underlying Cause (%)	Sex		Race			Age Group (yrs)								Median Age (yrs)
			Male	Female	White	Black	Other	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
1990	41	63.4	31	10	38	1	2	-	1	1	3	8	11	15	2	73.0
1991	36	72.2	28	8	34	-	2	2	-	1	2	4	11	11	5	73.5
1992	18	77.8	14	4	17	1	-	-	1	2	2	2	3	7	1	72.5
1993	46	52.2	31	15	44	1	1	-	1	1	4	7	14	14	5	71.5
1994	36	75.0	28	8	36	-	-	-	-	-	2	5	8	12	9	76.5
1995	37	62.2	24	13	32	5	-	-	1	-	6	4	7	14	5	75.0
1996	51	76.5	35	16	49	2	-	-	3	3	5	7	11	16	6	73.0
1997	38	71.1	25	13	38	-	-	-	-	1	2	6	8	14	7	76.0
1998	38	63.2	31	7	37	1	-	-	-	-	2	3	10	17	6	78.5
1999	57	64.9	36	21	56	1	-	-	3	2	9	5	11	19	8	74.0
<b>TOTAL</b>	<b>398</b>	<b>67.1</b>	<b>283</b>	<b>115</b>	<b>381</b>	<b>12</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>37</b>	<b>51</b>	<b>94</b>	<b>139</b>	<b>54</b>	<b>74.0</b>

- indicates no deaths listed.

NOTE: See appendices for source description, methods, and ICD codes.

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

*Hypersensitivity Pneumonitis: Mortality*

**Table 8-2. Hypersensitivity pneumonitis: Mortality rates (per million population) by race and sex, U.S. residents age 15 and over, 1990-1999**

Year	Overall	White		Black		Other	
		Male	Female	Male	Female	Male	Female
<b>Crude Mortality Rate</b>							
1990	0.21	0.36	0.11	0.10	–	0.29	0.27
1991	0.18	0.32	0.09	–	–	0.55	–
1992	0.09	0.16	0.05	0.09	–	–	–
1993	0.23	0.38	0.15	–	0.08	–	0.24
1994	0.18	0.34	0.09	–	–	–	–
1995	0.18	0.26	0.11	0.18	0.23	–	–
1996	0.25	0.40	0.17	0.09	0.08	–	–
1997	0.18	0.29	0.14	–	–	–	–
1998	0.18	0.35	0.08	0.08	–	–	–
1999	0.27	0.40	0.23	0.08	–	–	–
<b>1990-1999</b>	<b>0.19</b>	<b>0.33</b>	<b>0.12</b>	<b>0.06</b>	<b>0.04</b>	<b>0.07</b>	<b>0.04</b>
<b>Age-Adjusted Mortality Rate</b>							
1990	0.22	0.41	0.09	0.07	–	0.42	0.34
1991	0.19	0.40	0.08	–	–	0.95	–
1992	0.10	0.18	0.05	0.20	–	–	–
1993	0.24	0.45	0.13	–	0.11	–	0.54
1994	0.19	0.43	0.08	–	–	–	–
1995	0.19	0.33	0.10	0.31	0.28	–	–
1996	0.25	0.46	0.14	0.07	0.09	–	–
1997	0.19	0.35	0.12	–	–	–	–
1998	0.18	0.40	0.06	0.10	–	–	–
1999	0.27	0.46	0.20	0.10	–	–	–
<b>1990-1999</b>	<b>0.20</b>	<b>0.39</b>	<b>0.11</b>	<b>0.09</b>	<b>0.05</b>	<b>0.12</b>	<b>0.08</b>

– indicates no deaths listed.

NOTE: See appendices for source description, methods, and ICD codes.

SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.

## *Hypersensitivity Pneumonitis: Mortality*

**Table 8-3. Hypersensitivity pneumonitis: Years of potential life lost to age 65 and to life expectancy by race and sex, U.S. residents age 15 and over, 1990-1999**

Year	White		Black		Other		Total
	Male	Female	Male	Female	Male	Female	
<b>Years of Potential Life Lost to Age 65</b>							
1990	95	5	35	-	5	5	145
1991	75	45	-	-	45	-	165
1992	85	40	-	-	-	-	125
1993	115	25	-	15	-	-	155
1994	40	15	-	-	-	-	55
1995	85	35	-	25	-	-	145
1996	190	65	35	-	-	-	290
1997	40	45	-	-	-	-	85
1998	30	-	15	-	-	-	45
1999	190	110	15	-	-	-	315
<b>TOTAL</b>	<b>945</b>	<b>385</b>	<b>100</b>	<b>40</b>	<b>50</b>	<b>5</b>	<b>1,525</b>
<b>Years of Potential Life Lost to Life Expectancy</b>							
1990	396	103	38	-	21	21	579
1991	344	134	-	-	65	-	543
1992	218	92	7	-	-	-	317
1993	425	196	-	28	-	8	657
1994	301	100	-	-	-	-	401
1995	280	162	18	70	-	-	530
1996	542	242	39	14	-	-	837
1997	283	202	-	-	-	-	485
1998	311	78	24	-	-	-	413
1999	531	387	24	-	-	-	942
<b>TOTAL</b>	<b>3,631</b>	<b>1,696</b>	<b>150</b>	<b>112</b>	<b>86</b>	<b>29</b>	<b>5,704</b>

- indicates no deaths listed.

NOTE: See appendices for source description, methods, and ICD codes.

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

## Hypersensitivity Pneumonitis: Mortality

**Table 8-4. Hypersensitivity pneumonitis: Number of deaths by state, U.S. residents age 15 and over, 1990-1999**

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Alabama	-	2	-	-	-	-	-	1	-	-	3
Alaska	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	1	1	-	-	-	1	2	-	-	5
Arkansas	-	-	-	-	1	-	-	-	-	-	1
California	2	1	1	6	3	2	7	7	4	6	39
Colorado	-	1	-	1	1	1	-	1	-	1	6
Connecticut	1	2	1	-	-	-	1	1	-	1	7
Delaware	-	-	-	-	1	-	-	-	-	-	1
District of Columbia	-	-	1	-	-	-	-	-	-	-	1
Florida	-	1	-	3	5	1	2	1	1	2	16
Georgia	-	-	-	-	1	-	-	-	1	-	2
Hawaii	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	1	1	-	1	-	-	-	4	-	7
Illinois	1	1	1	2	1	2	1	-	2	3	14
Indiana	1	1	-	-	1	1	1	1	-	2	8
Iowa	1	1	1	2	-	3	2	3	7	2	22
Kansas	1	-	-	-	2	1	2	-	-	2	8
Kentucky	-	1	-	1	-	1	-	-	-	-	3
Louisiana	4	-	-	-	1	-	2	-	-	-	7
Maine	-	1	-	-	-	-	1	1	-	1	4
Maryland	1	-	1	-	1	1	-	-	-	1	5
Massachusetts	1	-	-	1	-	-	-	-	-	-	2
Michigan	5	1	2	-	2	2	2	2	2	3	21
Minnesota	2	3	2	1	3	1	2	1	1	3	19
Mississippi	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	1	1	1	-	-	2	-	-	2	7
Montana	-	-	-	-	1	-	1	-	-	-	2
Nebraska	1	1	1	-	2	-	2	-	-	1	8
Nevada	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	1	1	-	-	-	1	-	-	1	-	4
New Jersey	-	1	1	-	-	-	1	-	-	2	5
New Mexico	-	-	-	-	-	-	-	-	-	-	-
New York	3	1	1	4	2	3	3	1	-	3	21
North Carolina	-	-	-	1	1	1	1	4	1	-	9
North Dakota	1	1	-	1	-	-	-	1	-	-	4
Ohio	-	2	1	-	-	2	2	-	2	3	12
Oklahoma	-	1	-	1	-	-	-	-	-	-	2
Oregon	1	-	-	1	1	2	-	2	2	-	9
Pennsylvania	5	1	-	3	2	4	4	1	3	1	24
Rhode Island	-	-	-	1	-	-	-	-	-	-	1
South Carolina	1	-	-	2	-	1	1	-	1	1	7
South Dakota	1	-	-	2	-	-	-	-	2	-	5
Tennessee	-	1	-	-	-	-	1	-	-	-	2
Texas	-	2	-	1	1	2	1	1	1	5	14
Utah	-	-	-	1	1	-	-	-	1	2	5
Vermont	-	1	-	1	-	-	-	-	-	-	2
Virginia	-	-	-	2	-	-	1	-	-	1	4
Washington	-	-	-	-	-	2	-	1	-	-	3
West Virginia	-	-	-	-	-	-	1	-	-	-	1
Wisconsin	7	3	1	7	1	3	6	6	2	7	43
Wyoming	-	1	-	-	-	-	-	-	-	2	3
<b>TOTAL</b>	<b>41</b>	<b>36</b>	<b>18</b>	<b>46</b>	<b>36</b>	<b>37</b>	<b>51</b>	<b>38</b>	<b>38</b>	<b>57</b>	<b>398</b>

- indicates no deaths listed.

NOTE: See appendices for source description, methods, and ICD codes.

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

## Hypersensitivity Pneumonitis: Mortality

**Table 8-5. Hypersensitivity pneumonitis: Number of deaths, mortality rates (per million population), and years of potential life lost (YPLL) by state, U.S. residents age 15 and over, 1990-1999**

State	No. of Deaths		Crude Mortality		Age-Adjusted Mortality		YPLL to Life Expectancy			
	Deaths	Rank	Rate	Rank	Rate	Rank	Total	Rank	YPLL/death	Rank
Alabama	3	32	0.09	37	0.10	36	53	30	17.7	15
Alaska	-	-	-	-	-	-	-	-	-	-
Arizona	5	23	0.15	28	0.14	31	107	17	21.4	4
Arkansas	1	42	0.05	43	0.05	43	21	40	21.0	6
California	39	2	0.16	26	0.18	23	751	1	19.3	11
Colorado	6	22	0.21	21	0.25	19	103	19	17.2	16
Connecticut	7	17	0.27	17	0.27	17	158	12	22.6	3
Delaware	1	42	0.18	23	0.18	23	21	40	21.0	6
District of Columbia	1	42	0.22	20	0.24	20	9	45	9.0	42
Florida	16	8	0.14	31	0.12	33	220	8	13.8	24
Georgia	2	36	0.04	45	0.05	43	17	43	8.5	44
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	7	17	0.81	6	0.80	4	83	26	11.9	34
Illinois	14	9	0.15	28	0.16	27	199	10	14.2	21
Indiana	8	14	0.18	23	0.18	23	106	18	13.3	27
Iowa	22	4	0.99	2	0.84	3	279	5	12.7	30
Kansas	8	14	0.41	11	0.39	13	124	14	15.5	19
Kentucky	3	32	0.10	35	0.10	36	64	29	21.3	5
Louisiana	7	17	0.21	21	0.23	21	124	14	17.7	14
Maine	4	28	0.41	11	0.40	12	53	30	13.3	27
Maryland	5	23	0.13	33	0.15	28	94	24	18.8	13
Massachusetts	2	36	0.04	45	0.04	46	28	36	14.0	22
Michigan	21	5	0.28	16	0.31	15	332	3	15.8	18
Minnesota	19	7	0.54	8	0.53	8	225	7	11.8	36
Mississippi	-	-	-	-	-	-	-	-	-	-
Missouri	7	17	0.17	25	0.15	28	83	26	11.9	34
Montana	2	36	0.30	15	0.27	17	22	39	11.0	40
Nebraska	8	14	0.64	7	0.57	7	97	22	12.1	32
Nevada	-	-	-	-	-	-	-	-	-	-
New Hampshire	4	28	0.44	9	0.47	9	48	33	12.0	33
New Jersey	5	23	0.08	38	0.08	39	120	16	24.0	2
New Mexico	-	-	-	-	-	-	-	-	-	-
New York	21	5	0.15	28	0.15	28	266	6	12.7	31
North Carolina	9	12	0.16	26	0.18	23	103	19	11.4	38
North Dakota	4	28	0.82	5	0.78	5	139	13	34.8	1
Ohio	12	11	0.14	31	0.14	31	165	11	13.8	24
Oklahoma	2	36	0.08	38	0.07	41	14	44	7.0	46
Oregon	9	12	0.37	13	0.37	14	100	21	11.1	39
Pennsylvania	24	3	0.25	18	0.22	22	315	4	13.1	29
Rhode Island	1	42	0.13	33	0.11	35	8	46	8.0	45
South Carolina	7	17	0.25	18	0.28	16	93	25	13.3	26
South Dakota	5	23	0.91	3	0.73	6	51	32	10.2	41
Tennessee	2	36	0.05	43	0.05	43	38	34	19.0	12
Texas	14	9	0.10	35	0.12	33	203	9	14.5	20
Utah	5	23	0.37	13	0.44	10	97	22	19.4	10
Vermont	2	36	0.44	9	0.44	10	28	36	14.0	22
Virginia	4	28	0.08	38	0.09	38	82	28	20.5	9
Washington	3	32	0.07	41	0.08	39	26	38	8.7	43
West Virginia	1	42	0.07	41	0.07	41	21	40	21.0	6
Wisconsin	43	1	1.09	1	1.05	1	680	2	15.8	17
Wyoming	3	32	0.84	4	0.94	2	35	35	11.7	37

- indicates no deaths listed.

NOTE: See appendices for source description, methods, and ICD codes.

SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.



**Table 8-6. Hypersensitivity pneumonitis: Most frequently recorded industries on death certificate, U.S. residents age 15 and over, selected states and years, 1990-1999**

CIC	Industry	Number of Deaths	Percent
011	Agricultural production, livestock	30	24.6
010	Agricultural production, crops	22	18.0
961	Non-paid worker or non-worker or own home/at home	13	10.7
060	Construction	4	3.3
410	Trucking service	4	3.3
831	Hospitals	4	3.3
142	Yarn, thread, and fabric mills	3	2.5
630	Apparel and accessory stores, except shoe	3	2.5
601	Grocery stores	2	1.6
842	Elementary and secondary schools	2	1.6
850	Colleges and universities	2	1.6
942	Military	2	1.6
	All other industries	23	18.9
	Industry not reported	8	6.6
	<b>TOTAL</b>	<b>122</b>	<b>100.0</b>

CIC - Census Industry Code

n.e.c. - not elsewhere classified

NOTE: Percentages may not total to 100% due to rounding. See appendices for source description, methods, and ICD codes, industry and occupation codes, and list of selected states and years.

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

**Table 8-7. Hypersensitivity pneumonitis: Most frequently recorded occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990-1999**

COC	Occupation	Number of Deaths	Percent
473	Farmers, except horticulture	51	41.8
914	Housewife/Homemaker	12	9.8
019	Managers and administrators, n.e.c.	4	3.3
633	Supervisors, production occupations	3	2.5
804	Truck drivers	3	2.5
095	Registered nurses	2	1.6
243	Supervisors and proprietors, sales occupations	2	1.6
637	Machinists	2	1.6
889	Laborers, except construction	2	1.6
905	Military occupations	2	1.6
	All other occupations	32	26.2
	Occupation not reported	7	5.7
	<b>TOTAL</b>	<b>122</b>	<b>100.0</b>

COC - Census Occupation Code

n.e.c. - not elsewhere classified

NOTE: Percentages may not total to 100% due to rounding. See appendices for source description, methods, and ICD codes, industry and occupation codes, and list of selected states and years.

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

## *Hypersensitivity Pneumonitis: Mortality*

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**Table 8-8. Hypersensitivity pneumonitis: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by usual industry, U.S. residents age 15 and over, selected states and years, 1990-1999**

CIC	Industry	Number of Deaths	PMR	95% Confidence Interval	
				LCL	UCL
011	Agricultural production, livestock	30	17.61	11.90	25.15
010	Agricultural production, crops	22	4.44	2.78	6.73

CIC - Census Industry Code    n.e.c. - not elsewhere classified    LCL - lower confidence limit    UCL - upper confidence limit

NOTE: See appendices for source description, methods, and ICD codes, industry and occupation codes, and list of selected states and years.

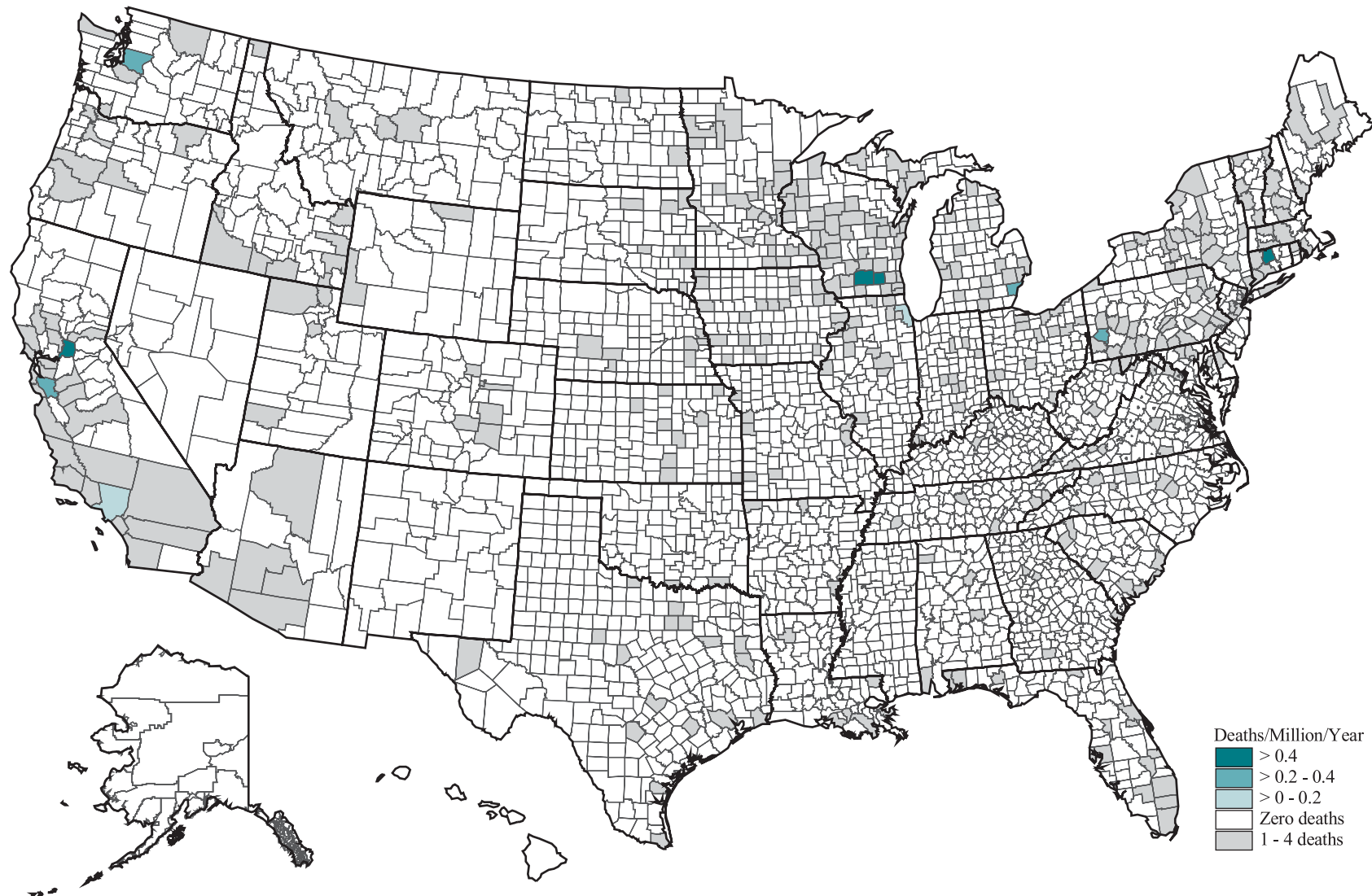
SOURCE: National Center for Health Statistics multiple cause of death data.

**Table 8-9. Hypersensitivity pneumonitis: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by usual occupation, U.S. residents age 15 and over, selected states and years, 1990-1999**

COC	Occupation	Number of Deaths	PMR	95% Confidence Interval	
				LCL	UCL
473	Farmers, except horticulture	51	8.51	6.42	11.32

COC - Census Occupation Code      n.e.c. - not elsewhere classified      LCL - lower confidence limit      UCL - upper confidence limit  
NOTE: See appendices for source description, methods, and ICD codes, industry and occupation codes, and list of selected states and years.  
SOURCE: National Center for Health Statistics multiple cause of death data.

**Figure 8-3. Hypersensitivity pneumonitis: Age-adjusted mortality rates by county, U.S. residents age 15 and over, 1980-1999**



NOTE: Age-adjusted rates are not calculated for those counties with 1-4 deaths. See appendices for source description, methods, and ICD codes.

SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.

**Table 8-10. Hypersensitivity pneumonitis: Counties with highest age-adjusted mortality rates (per million population), U.S. residents age 15 and over, 1985-1999**

<b>County</b>	<b>State</b>	<b>Age-Adjusted Rate</b>	<b>Crude Rate</b>	<b>Number of Deaths</b>	<b>% Female</b>
Jefferson County	Wisconsin	6.9	7.4	6	0.0
Dane County	Wisconsin	1.5	1.1	5	0.0
Hartford County	Connecticut	0.7	0.7	7	42.9
Sacramento County	California	0.5	0.5	6	33.3
Wayne County	Michigan	0.3	0.2	6	50.0
Allegheny County	Pennsylvania	0.2	0.3	5	40.0
Los Angeles County	California	0.1	0.1	11	54.5
Cook County	Illinois	0.1	0.1	6	50.0
<b>Overall United States</b>		<b>0.2</b>	<b>0.2</b>	<b>535</b>	<b>29.9</b>

NOTE: Only counties with at least 5 deaths from the disease of interest are included. See appendices for source description, methods, and ICD codes.  
 SOURCE: National Center for Health Statistics multiple cause of death data. Population estimates from U.S. Bureau of the Census.

