
Section 2

NORA Agriculture, Forestry, and Fishing (AFF) Sector

NORA Agriculture, Forestry, and Fishing Sector

Table 2-1. NORA agriculture, forestry, and fishing sector: Number and percent of deaths with selected work-related respiratory condition, U.S. residents age 15 and over, selected states and years, 1990–1999

Condition	Number of Deaths	Percent
All Pneumoconioses	136	0.1
Hypersensitivity Pneumonitis	53	0.0
Coal Workers' Pneumoconiosis	50	0.0
Asbestosis	43	0.0
Unspecified and Other Pneumoconioses	27	0.0
Malignant Mesothelioma (all sites)*	16	0.0
Silicosis	14	0.0
Byssinosis	2	0.0
All other conditions within this sector	254,403	99.9
TOTAL	254,744	100.0

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* data for malignant mesothelioma are for 1999 only.

NOTE: The sum of the individual and all other condition death totals may be greater than the total number of deaths in the selected states and years because some decedents have more than one condition listed on their death certificates. Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-2. NORA agriculture, forestry, and fishing sector: Proportionate mortality ratio (PMR) adjusted for age, sex, and race for selected work-related respiratory conditions, U.S. residents age 15 and over, selected states and years, 1990–1999

Condition	Number of Deaths	PMR	95% Confidence Interval	
			LCL	UCL
Hypersensitivity Pneumonitis	53	7.2	5.4	9.5
Malignant Mesothelioma (all sites)*	16	0.6	0.3	0.9
Byssinosis	2	-	-	-
Unspecified and Other Pneumoconioses	27	0.2	0.1	0.3
Silicosis	14	0.2	0.1	0.3
Asbestosis	43	0.2	0.1	0.3
All Pneumoconioses	136	0.2	0.1	0.2
Coal Workers' Pneumoconiosis	50	0.1	0.1	0.2
All other conditions within this sector	254,403			
TOTAL	254,744			

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- indicates no PMR was calculated because there were fewer than 5 deaths.

* data for malignant mesothelioma are for 1999 only.

NOTE: The sum of the individual and all other condition death totals may be greater than the total number of deaths in the selected states and years because some decedents have more than one condition listed on their death certificates. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-3. NORA agriculture, forestry, and fishing sector and asbestosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	22	51.2
011	Agricultural production, livestock	10	23.3
031	Fishing, hunting, and trapping	5	11.6
230	Logging	5	11.6
	All other industries within this sector	1	2.3
	TOTAL	43	100.0
COC	Occupation		
473	Farmers, except horticulture	25	58.1
496	Timber cutting and logging occupations	5	11.6
498	Fishers	4	9.3
479	Farm workers	2	4.7
	All other occupations within this sector	7	16.3
	Occupation not reported within this sector	0	0.0
	TOTAL	43	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with asbestosis reported was 2,859 in these same selected states and years, and the comparable number of asbestosis deaths in the entire United States for this same time period was 10,914.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-4. NORA agriculture, forestry, and fishing sector and coal workers' pneumoconiosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	35	70.0
230	Logging	7	14.0
011	Agricultural production, livestock	6	12.0
020	Agricultural services, except horticultural	2	4.0
	All other industries within this sector	0	0.0
	TOTAL	50	100.0
COC	Occupation		
473	Farmers, except horticulture	39	78.0
496	Timber cutting and logging occupations	6	12.0
479	Farm workers	3	6.0
	All other occupations within this sector	2	4.0
	Occupation not reported within this sector	0	0.0
	TOTAL	50	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with coal workers' pneumoconiosis reported was 4,893 in these same selected states and years, and the comparable number of coal workers' pneumoconiosis deaths in the entire United States for this same time period was 15,036.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-5. NORA agriculture, forestry, and fishing sector and silicosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	8	57.1
011	Agricultural production, livestock	4	28.6
	All other industries within this sector	2	14.3
	TOTAL	14	100.0
COC	Occupation		
473	Farmers, except horticulture	9	64.3
479	Farm workers	2	14.3
	All other occupations within this sector	3	21.4
	Occupation not reported within this sector	0	0.0
	TOTAL	14	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with silicosis reported was 881 in these same selected states and years, and the comparable number of silicosis deaths in the entire United States for this same time period was 2,407.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-6. NORA agriculture, forestry, and fishing sector and byssinosis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	2	100.0
	All other industries within this sector	0	0.0
	TOTAL	2	100.0
COC	Occupation		
473	Farmers, except horticulture	2	100.0
	All other occupations within this sector	0	0.0
	Occupation not reported within this sector	0	0.0
	TOTAL	2	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with byssinosis reported was 81 in these same selected states and years, and the comparable number of byssinosis deaths in the entire United States for this same time period was 125.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-7. NORA agriculture, forestry, and fishing sector and unspecified and other pneumoconioses: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	16	59.3
230	Logging	6	22.2
011	Agricultural production, livestock	4	14.8
	All other industries within this sector	1	3.7
	TOTAL	27	100.0
COC	Occupation		
473	Farmers, except horticulture	18	66.7
496	Timber cutting and logging occupations	6	22.2
	All other occupations within this sector	3	11.1
	Occupation not reported within this sector	0	0.0
	TOTAL	27	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with unspecified and other pneumoconioses reported was 1,440 in these same selected states and years, and the comparable number of unspecified and other pneumoconioses deaths in the entire United States for this same time period was 3,384.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-8. NORA agriculture, forestry, and fishing sector and all pneumoconioses: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	83	61.0
011	Agricultural production, livestock	24	17.6
230	Logging	18	13.2
020	Agricultural services, except horticultural	5	3.7
031	Fishing, hunting, and trapping	5	3.7
	All other industries within this sector	1	0.7
	TOTAL	136	100.0
COC	Occupation		
473	Farmers, except horticulture	93	68.4
496	Timber cutting and logging occupations	17	12.5
479	Farm workers	8	5.9
498	Fishers	4	2.9
019	Managers and administrators, n.e.c.	2	1.5
	All other occupations within this sector	12	8.8
	Occupation not reported within this sector	0	0.0
	TOTAL	136	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with all pneumoconioses reported was 10,014 in these same selected states and years, and the comparable number of all pneumoconioses deaths in the entire United States for this same time period was 31,455.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

Table 2-9. NORA agriculture, forestry, and fishing sector and malignant mesothelioma: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
010	Agricultural production, crops	10	62.5
011	Agricultural production, livestock	5	31.3
	All other industries within this sector	1	6.3
	TOTAL	16	100.0
COC	Occupation		
473	Farmers, except horticulture	12	75.0
	All other occupations within this sector	4	25.0
	Occupation not reported within this sector	0	0.0
	TOTAL	16	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified
 * The total number of deaths with malignant mesothelioma reported was 541 in these same selected states and year, and the comparable number of malignant mesothelioma deaths in the entire United States for this same time period was 2,484.
 NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.
 SOURCE: National Center for Health Statistics multiple cause-of-death data.

NORA Agriculture, Forestry, and Fishing Sector

Table 2-10. NORA agriculture, forestry, and fishing sector and hypersensitivity pneumonitis: Most frequently recorded industries and occupations on death certificate, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	Percent
CIC	Industry		
011	Agricultural production, livestock	30	56.6
010	Agricultural production, crops	22	41.5
	All other industries within this sector	1	1.9
	TOTAL	53	100.0
COC	Occupation		
473	Farmers, except horticulture	51	96.2
	All other occupations within this sector	2	3.8
	Occupation not reported within this sector	0	0.0
	TOTAL	53	100.0

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code n.e.c. - not elsewhere classified

* The total number of deaths with hypersensitivity pneumonitis reported was 122 in these same selected states and years, and the comparable number of hypersensitivity pneumonitis deaths in the entire United States for this same time period was 398.

NOTE: Percentages may not total to 100% due to rounding. See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

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Table 2-11. NORA agriculture, forestry, and fishing sector and hypersensitivity pneumonitis: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
011	Agricultural production, livestock	30	17.6	11.9	25.2
010	Agricultural production, crops	22	4.4	2.8	6.7
	All other industries within this sector	1			
	TOTAL	53			
COC	Occupation				
473	Farmers, except horticulture	51	8.5	6.4	11.3
	All other occupations within this sector	2			
	Occupation not reported within this sector	0			
	TOTAL	53			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with hypersensitivity pneumonitis reported was 122 in these same selected states and years, and the comparable number of hypersensitivity pneumonitis deaths in the entire United States for this same time period was 398.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-12. NORA agriculture, forestry, and fishing sector and asthma: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
011	Agricultural production, livestock	274	1.5	1.3	1.7
010	Agricultural production, crops	687	1.1	1.0	1.2
	All other industries within this sector	97			
	TOTAL	1,058			
COC	Occupation				
473	Farmers, except horticulture	795	1.2	1.1	1.3
	All other occupations within this sector	262			
	Occupation not reported within this sector	1			
	TOTAL	1,058			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code

n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with asthma reported was 29,703 in these same selected states and years, and the comparable number of asthma deaths in the entire United States for this same time period was 115,729.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-13. NORA agriculture, forestry, and fishing sector and chronic obstructive pulmonary disease: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
230	Logging	172	1.3	1.1	1.5
	All other industries within this sector	2,618			
	TOTAL	2,790			
COC	Occupation				
496	Timber cutting and logging occupations	130	1.3	1.1	1.5
479	Farm workers	214	1.2	1.0	1.3
	All other occupations within this sector	2,444			
	Occupation not reported within this sector	2			
	TOTAL	2,790			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with chronic obstructive pulmonary disease reported was 57,073 in these same selected states and year, and the comparable number of chronic obstructive pulmonary disease deaths in the entire United States for this same time period was 245,415.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-14. NORA agriculture, forestry, and fishing sector and respiratory tuberculosis: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry and occupation, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry/Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
010	Agricultural production, crops	436	1.5	1.3	1.6
	All other industries within this sector	113			
	TOTAL	549			
COC	Occupation				
479	Farm workers	99	1.7	1.4	2.1
473	Farmers, except horticulture	356	1.3	1.1	1.4
	All other occupations within this sector	93			
	Occupation not reported within this sector	1			
	TOTAL	549			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with respiratory tuberculosis reported was 8,071 in these same selected states and years, and the comparable number of respiratory tuberculosis deaths in the entire United States for this same time period was 35,417.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-15. NORA agriculture, forestry, and fishing sector and other interstitial pulmonary diseases: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
COC	Occupation				
086	Veterinarians	5	4.5	1.5	10.6
019	Managers and administrators, n.e.c.	5	4.3	1.4	10.1
	All other occupations within this sector	1,602			
	Occupation not reported within this sector	2			
	TOTAL	1,619			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code
n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with other interstitial pulmonary diseases reported was 4,471 in these same selected states and year, and the comparable number of other interstitial pulmonary diseases deaths in the entire United States for this same time period was 18,655.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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

NORA Agriculture, Forestry, and Fishing Sector

Table 2-16. NORA agriculture, forestry, and fishing sector and pneumonia and influenza: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by occupation, U.S. residents age 15 and over, selected states, 1999

Bureau of Census Occupation		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
COC	Occupation				
567	Carpenters	5	3.2	1.0	7.5
783	Welders and cutters	6	2.7	1.0	6.0
	All other occupations within this sector	2,590			
	Occupation not reported within this sector	4			
	TOTAL	2,605			

NORA - National Occupational Research Agenda CIC - Census Industry Code COC - Census Occupation Code

n.e.c. - not elsewhere classified LCL - lower confidence limit UCL - upper confidence limit

* The total number of deaths with pneumonia and influenza reported was 52,295 in these same selected states and year, and the comparable number of pneumonia and influenza deaths in the entire United States for this same time period was 229,136.

NOTE: See selected limitations for general cautions regarding inferences based on small numbers of deaths, and see appendices for source description, methods, ICD codes, industry and occupation codes, industrial sector groupings, and list of selected states and years.

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