
Section 6

NORA Mining (MIN) Sector

Table 6-1. NORA *mining* 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	4,837	7.4
Coal Workers' Pneumoconiosis	3,805	5.8
Unspecified and Other Pneumoconioses	860	1.3
Silicosis	203	0.3
Asbestosis	18	0.0
Byssinosis	4	0.0
Malignant Mesothelioma (all sites)*	3	0.0
Hypersensitivity Pneumonitis	0	0.0
All other conditions within this sector	55,635	85.1
TOTAL	65,365	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.

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Table 6-2. NORA mining 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
Coal Workers' Pneumoconiosis	3,805	33.54	32.5	34.6
Unspecified and Other Pneumoconioses	860	26.63	24.9	28.5
All Pneumoconioses	4,837	21.55	21.0	22.2
Silicosis	203	11.19	9.7	12.9
Byssinosis	4	-	-	-
Malignant Mesothelioma (all sites)*	3	-	-	-
Asbestosis	18	0.29	0.2	0.5
Hypersensitivity Pneumonitis	0	-	-	-
All other conditions within this sector	55,635			
TOTAL	65,365			

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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.

Table 6-3. NORA mining 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		
050	Nonmetallic mining and quarrying, except fuel	7	38.9
041	Coal mining	5	27.8
042	Oil and gas extraction	4	22.2
040	Metal mining	2	11.1
	All other industries within this sector	0	0.0
	TOTAL	18	100.0
COC	Occupation		
616	Mining machine operators	5	27.8
585	Plumbers, pipefitters, and steamfitters	2	11.1
	All other occupations within this sector	11	61.1
	Occupation not reported within this sector	0	0.0
	TOTAL	18	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.

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Table 6-4. NORA mining 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		
041	Coal mining	3,765	98.9
040	Metal mining	25	0.7
042	Oil and gas extraction	8	0.2
050	Nonmetallic mining and quarrying, except fuel	7	0.2
	All other industries within this sector	0	0.0
	TOTAL	3,805	100.0
COC	Occupation		
616	Mining machine operators	3,437	90.3
575	Electricians	50	1.3
613	Supervisors, extractive occupations	49	1.3
889	Laborers, except construction	42	1.1
019	Managers and administrators, n.e.c.	25	0.7
804	Truck drivers	19	0.5
824	Locomotive operating occupations	19	0.5
633	Supervisors, production occupations	17	0.4
844	Operating engineers	16	0.4
617	Mining occupations, n.e.c.	14	0.4
	All other occupations within this sector	115	3.0
	Occupation not reported within this sector	2	0.1
	TOTAL	3,805	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.

Table 6-5. NORA mining sector and coal workers' pneumoconiosis: 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				
041	Coal mining	3,765	53.2	51.5	54.9
040	Metal mining	25	2.0	1.3	2.9
	All other industries within this sector	15			
	TOTAL	3,805			
COC	Occupation				
616	Mining machine operators	3,437	51.8	50.1	53.6
824	Locomotive operating occupations	19	48.7	29.3	76.1
036	Inspectors and compliance officers, except construction	10	44.2	21.3	81.3
883	Freight, stock, and material handlers, n.e.c.	8	38.1	16.4	75.1
575	Electricians	50	36.3	26.9	47.9
855	Grader, dozer, and scraper operators	6	31.6	11.6	68.8
567	Carpenters	6	22.0	8.1	48.0
777	Miscellaneous machine operators, n.e.c.	5	20.1	6.5	46.9
613	Supervisors, extractive occupations	49	14.6	10.8	19.3
633	Supervisors, production occupations	17	13.0	7.6	20.8
889	Laborers, except construction	42	10.4	7.5	14.0
853	Excavating and loading machine operators	5	9.9	3.2	23.1
804	Truck drivers	19	8.6	5.2	13.5
844	Operating engineers	16	8.3	4.8	13.5
783	Welders and cutters	8	8.2	3.5	16.0
516	Heavy equipment mechanics	12	7.9	4.1	13.8
046	Mining engineers	8	7.1	3.0	13.9
019	Managers and administrators, n.e.c.	25	6.2	4.0	9.1
859	Miscellaneous material moving equipment operators	12	5.7	2.9	9.9
617	Mining occupations, n.e.c.	14	4.6	2.5	7.7
	All other occupations within this sector	35			
	Occupation not reported within this sector	2			
	TOTAL	3,805			

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 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: 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 6-6. NORA mining 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		
040	Metal mining	86	42.4
041	Coal mining	69	34.0
050	Nonmetallic mining and quarrying, except fuel	48	23.6
	All other industries within this sector	0	0.0
	TOTAL	203	100.0
COC	Occupation		
616	Mining machine operators	136	67.0
019	Managers and administrators, n.e.c.	7	3.4
613	Supervisors, extractive occupations	7	3.4
617	Mining occupations, n.e.c.	7	3.4
889	Laborers, except construction	7	3.4
844	Operating engineers	6	3.0
768	Crushing and grinding machine operators	4	2.0
046	Mining engineers	3	1.5
766	Furnace, kiln, and oven operators, except food	3	1.5
516	Heavy equipment mechanics	2	1.0
615	Explosives workers	2	1.0
633	Supervisors, production occupations	2	1.0
779	Machine operators, not specified	2	1.0
	All other occupations within this sector	15	7.4
	Occupation not reported within this sector	0	0.0
	TOTAL	203	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.

Table 6-7. NORA mining sector and silicosis: 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				
040	Metal mining	86	41.7	33.6	51.8
050	Nonmetallic mining and quarrying, except fuel	48	29.2	21.5	38.8
041	Coal mining	69	6.2	4.8	7.9
	All other industries within this sector	0			
	TOTAL	203			
COC	Occupation				
844	Operating engineers	6	17.9	6.6	39.0
617	Mining occupations, n.e.c.	7	14.2	5.7	29.3
613	Supervisors, extractive occupations	7	13.1	5.2	26.9
616	Mining machine operators	136	12.9	10.9	15.4
019	Managers and administrators, n.e.c.	7	11.0	4.4	22.8
889	Laborers, except construction	7	10.4	4.2	21.4
	All other occupations within this sector	33			
	Occupation not reported within this sector	0			
	TOTAL	203			

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 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: 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 6-8. NORA *mining* 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		
041	Coal mining	3	75.0
	All other industries within this sector	1	25.0
	TOTAL	4	100.0
COC	Occupation		
616	Mining machine operators	4	100.0
	All other occupations within this sector	0	0.0
	Occupation not reported within this sector	0	0.0
	TOTAL	4	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.

Table 6-9. NORA mining 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		
041	Coal mining	833	96.9
040	Metal mining	18	2.1
050	Nonmetallic mining and quarrying, except fuel	7	0.8
042	Oil and gas extraction	2	0.2
	All other industries within this sector	0	0.0
	TOTAL	860	100.0
COC	Occupation		
616	Mining machine operators	756	87.9
613	Supervisors, extractive occupations	17	2.0
575	Electricians	12	1.4
889	Laborers, except construction	10	1.2
804	Truck drivers	9	1.0
019	Managers and administrators, n.e.c.	5	0.6
516	Heavy equipment mechanics	4	0.5
617	Mining occupations, n.e.c.	4	0.5
843	Supervisors, material moving equipment operators	4	0.5
046	Mining engineers	3	0.3
633	Supervisors, production occupations	3	0.3
637	Machinists	3	0.3
783	Welders and cutters	3	0.3
824	Locomotive operating occupations	3	0.3
844	Operating engineers	3	0.3
859	Miscellaneous material moving equipment operators	3	0.3
	All other occupations within this sector	18	2.1
	Occupation not reported within this sector	0	0.0
	TOTAL	860	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.

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Table 6-10. NORA mining sector and unspecified and other pneumoconioses: 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				
041	Coal mining	833	41.6	38.9	44.6
040	Metal mining	18	4.9	2.9	7.8
050	Nonmetallic mining and quarrying, except fuel	7	2.5	1.0	5.2
	All other industries within this sector	2			
	TOTAL	860			
COC	Occupation				
616	Mining machine operators	756	40.3	37.5	43.3
575	Electricians	12	30.5	15.7	53.2
613	Supervisors, extractive occupations	17	17.7	10.3	28.2
804	Truck drivers	9	14.0	6.4	26.6
889	Laborers, except construction	10	8.7	4.2	15.9
019	Managers and administrators, n.e.c.	5	4.3	1.4	10.1
	All other occupations within this sector	51			
	Occupation not reported within this sector	0			
	TOTAL	860			

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 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: 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 6-11. NORA mining 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		
041	Coal mining	4,623	95.6
040	Metal mining	131	2.7
050	Nonmetallic mining and quarrying, except fuel	69	1.4
042	Oil and gas extraction	14	0.3
	All other industries within this sector	0	0.0
	TOTAL	4,837	100.0
COC	Occupation		
616	Mining machine operators	4,292	88.7
613	Supervisors, extractive occupations	73	1.5
575	Electricians	64	1.3
889	Laborers, except construction	58	1.2
019	Managers and administrators, n.e.c.	36	0.7
804	Truck drivers	30	0.6
617	Mining occupations, n.e.c.	25	0.5
844	Operating engineers	24	0.5
824	Locomotive operating occupations	23	0.5
633	Supervisors, production occupations	22	0.5
	All other occupations within this sector	188	3.9
	Occupation not reported within this sector	2	0.0
	TOTAL	4,837	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.

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Table 6-12 (page 1 of 2). NORA mining sector and all pneumoconioses: 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				
041	Coal mining	4,623	33.1	32.2	34.1
040	Metal mining	131	5.2	4.4	6.2
050	Nonmetallic mining and quarrying, except fuel	69	3.6	2.8	4.6
	All other industries within this sector	14			
	TOTAL	4,837			
COC	Occupation				
616	Mining machine operators	4,292	32.9	31.9	33.9
824	Locomotive operating occupations	23	30.0	19.0	45.0
036	Inspectors and compliance officers, except construction	12	26.6	13.7	46.4
883	Freight, stock, and material handlers, n.e.c.	10	24.2	11.6	44.4
575	Electricians	64	23.5	18.3	30.3
855	Grader, dozer, and scraper operators	7	18.2	7.3	37.4
777	Miscellaneous machine operators, n.e.c.	6	12.2	4.5	26.6
567	Carpenters	6	11.4	4.2	24.7
768	Crushing and grinding machine operators	9	11.1	5.1	21.0
613	Supervisors, extractive occupations	73	10.9	8.6	13.8
615	Explosives workers	5	10.9	3.5	25.4
633	Supervisors, production occupations	22	8.4	5.2	12.7
889	Laborers, except construction	58	7.3	5.6	9.5
853	Excavating and loading machine operators	7	6.9	2.8	14.3
046	Mining engineers	15	6.7	3.8	11.1
804	Truck drivers	30	6.7	4.5	9.5
844	Operating engineers	24	6.1	3.9	9.1
516	Heavy equipment mechanics	18	5.9	3.5	9.3

See footnotes at end of table.

Table 6-12 (page 2 of 2). NORA mining sector and all pneumoconioses: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by 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
COC	Occupation (continued)				
637	Machinists	7	5.7	2.3	11.7
783	Welders and cutters	11	5.6	2.8	10.0
019	Managers and administrators, n.e.c.	36	4.5	3.1	6.2
859	Miscellaneous material moving equipment operators	17	4.2	2.4	6.6
617	Mining occupations, n.e.c.	25	4.1	2.7	6.1
	All other occupations within this sector	58			
	Occupation not reported within this sector	2			
	TOTAL	4,837			

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 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: 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 6-13. NORA mining 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		
042	Oil and gas extraction	2	66.7
	All other industries within this sector	1	33.3
	TOTAL	3	100.0
COC	Occupation		
783	Welders and cutters	2	66.7
	All other occupations within this sector	1	33.3
	Occupation not reported within this sector	0	0.0
	TOTAL	3	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.

Table 6-14. NORA mining 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				
041	Coal mining	783	2.0	1.8	2.1
050	Nonmetallic mining and quarrying, except fuel	77	1.3	1.0	1.6
040	Metal mining	115	1.3	1.0	1.5
042	Oil and gas extraction	129	1.2	1.0	1.5
	All other industries within this sector	0			
	TOTAL	1,104			
COC	Occupation				
615	Explosives workers	7	3.0	1.2	6.1
783	Welders and cutters	16	2.2	1.2	3.5
616	Mining machine operators	765	2.0	1.9	2.2
617	Mining occupations, n.e.c.	27	1.8	1.2	2.6
889	Laborers, except construction	25	1.6	1.0	2.3
	All other occupations within this sector	261			
	Occupation not reported within this sector	3			
	TOTAL	1,104			

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 the 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.

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Table 6-15. NORA *mining* 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				
050	Nonmetallic mining and quarrying, except fuel	16	1.9	1.1	3.0
040	Metal mining	17	1.8	1.1	2.9
041	Coal mining	67	1.4	1.1	1.8
	All other industries within this sector	7			
	TOTAL	107			
COC	Occupation				
616	Mining machine operators	76	1.7	1.4	2.1
	All other occupations within this sector	30			
	Occupation not reported within this sector	1			
	TOTAL	107			

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.

Table 6-16. NORA mining sector and lung cancer: 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				
041	Coal mining	327	1.3	1.1	1.4
	All other industries within this sector	189			
	TOTAL	516			
COC	Occupation				
614	Drillers, oil well	18	1.8	1.0	2.8
616	Mining machine operators	315	1.3	1.1	1.4
	All other occupations within this sector	180			
	Occupation not reported within this sector	3			
	TOTAL	516			

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 lung cancer reported was 37,562 in these same selected states and year, and the comparable number of lung cancer deaths in the entire United States for this same time period was 162,546.

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 Mining Sector

Table 6-17. NORA *mining* sector and other interstitial pulmonary diseases: Proportionate mortality ratio (PMR) adjusted for age, sex, and race by industry, U.S. residents age 15 and over, selected states and years, 1990–1999

Bureau of Census Industry		Number of Deaths*	PMR	95% Confidence Interval	
				LCL	UCL
CIC	Industry				
040	Metal mining	15	2.2	1.2	3.6
	All other industries within this sector	41			
	TOTAL	56			

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 other interstitial pulmonary diseases was 4,471 in these same selected states and years, 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.

Table 6-18. NORA *mining* sector and pneumonia and influenza: 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				
041	Coal mining	410	1.3	1.2	1.5
	All other industries within this sector	221			
	TOTAL	631			
COC	Occupation				
616	Mining machine operators	394	1.3	1.2	1.5
	All other occupations within this sector	236			
	Occupation not reported within this sector	1			
	TOTAL	631			

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.