

Pneumoconiotic agents: Percent of exposures exceeding designated occupational exposure limits by MSHA metal/nonmetal district and state, MSHA samples, 1979–2003 (page 1 of 2)

MSHA Metal/Nonmetal Mine District	1979–1988			1989–1992			1993–2003		
	No. of Samples with PEL	% > PEL	% > REL	No. of Samples with PEL	% > PEL	% > REL	No. of Samples with PEL	% > PEL	% > REL
Northeast	10,176	12.6	20.9	6,612	10.1	15.7	19,807	5.9	11.2
Connecticut	351	26.2	36.0	167	13.2	22.2	618	3.2	5.3
Delaware	30	33.3	0.0	33	0.0	3.0	112	1.8	0.0
District of Columbia	0	-	-	0	-	-	0	-	-
Maine	207	15.9	24.4	169	3.0	7.7	572	5.4	12.1
Maryland	563	4.1	10.1	364	3.3	6.7	974	2.6	5.7
Massachusetts	497	17.5	28.2	263	9.9	15.6	963	5.0	10.4
New Hampshire	132	15.2	33.3	133	7.5	16.5	489	5.5	13.3
New Jersey	1,055	17.0	28.1	625	12.3	20.1	1,201	4.1	8.5
New York	2,221	11.5	17.9	1,733	6.6	11.6	4,553	5.0	9.7
Pennsylvania	2,413	9.6	15.1	1,371	13.4	19.4	4,782	7.0	12.8
Rhode Island	64	23.4	35.0	35	8.6	25.7	185	11.4	19.9
Vermont	708	15.8	47.5	350	20.0	27.9	1,157	16.8	28.9
Virginia	1,312	8.6	13.2	939	9.1	12.7	3,249	4.1	7.6
West Virginia	623	17.5	24.3	430	13.0	18.6	952	6.3	11.1
Southeast	15,562	7.9	12.2	9,936	8.2	12.4	21,391	4.7	8.4
Alabama	1,097	4.4	6.5	876	8.0	11.9	1,865	5.4	8.7
Florida	1,215	5.3	6.4	841	2.1	5.0	2,429	1.7	2.7
Georgia	2,526	11.0	19.6	1,585	10.5	15.2	2,801	6.3	9.7
Kentucky	1,055	7.8	10.1	534	9.4	11.0	1,487	4.5	6.1
Mississippi	301	4.3	6.3	480	5.4	8.2	1,321	5.8	9.8
North Carolina	3,480	6.6	11.3	2,223	6.7	11.0	3,801	4.4	8.5
Puerto Rico	1,106	5.9	0.3	230	10.0	3.5	1,041	2.8	3.2
South Carolina	1,176	16.2	27.5	1,371	8.8	14.8	2,821	3.4	7.9
Tennessee	3,517	7.1	9.8	1,774	10.5	16.0	3,752	6.7	12.6
Virgin Islands	89	6.7	0.0	22	9.1	0.0	73	1.4	5.5
North Central	14,704	10.0	13.5	8,922	11.0	15.6	21,274	5.3	9.4
Illinois	3,046	17.6	20.4	1,414	13.0	19.2	3,260	5.3	9.4
Indiana	1,247	4.2	3.2	929	4.7	5.9	2,455	3.0	5.3
Iowa	692	5.5	5.1	573	5.2	4.9	1,263	2.7	4.2
Michigan	2,062	8.0	13.8	1,559	14.6	19.5	3,339	6.3	10.9
Minnesota	4,477	7.0	10.9	1,663	10.6	16.2	3,377	5.4	9.7
Ohio	1,414	14.1	18.8	1,716	9.0	14.4	4,648	6.2	11.0
Wisconsin	1,766	9.4	13.2	1,068	15.7	20.6	2,932	5.6	10.6

See footnotes at end of table.

Pneumoconiotic agents: Percent of exposures exceeding designated occupational exposure limits by MSHA metal/nonmetal district and state, MSHA samples, 1979–2003 (page 2 of 2)

MSHA Metal/Nonmetal Mine District	1979–1988			1989–1992			1993–2003					
	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL				
South Central	8,315	13.4	7,860	17.9	9,558	9.4	9,483	13.6	21,378	5.2	20,397	8.2
Arkansas	596	32.4	556	44.8	672	16.4	664	28.3	1,644	8.0	1,620	14.6
Louisiana	319	7.8	288	11.5	748	4.0	748	6.1	2,083	3.8	2,053	6.8
Missouri	2,532	12.9	2,393	16.0	2,037	11.6	2,021	15.0	5,332	5.0	4,860	8.1
New Mexico	1,331	13.7	1,189	20.9	1,095	13.1	1,072	20.9	2,730	10.1	2,404	15.8
Oklahoma	1,628	9.9	1,600	13.7	1,340	10.9	1,340	16.6	2,714	4.3	2,645	8.8
Texas	1,909	11.8	1,834	14.9	3,666	6.4	3,638	8.4	6,875	3.4	6,815	4.2
Rocky Mountain	17,435	15.3	16,211	22.7	6,434	16.6	6,164	25.3	16,376	9.6	14,440	17.1
Arizona	2,709	17.6	2,548	28.5	745	18.8	733	28.4	3,571	7.4	2,818	15.3
Colorado	3,872	13.4	3,609	19.8	1,255	16.9	1,211	26.7	1,964	12.3	1,922	23.1
Kansas	1,316	12.8	1,289	14.0	553	9.8	544	12.5	1,293	6.3	1,206	8.2
Montana	1,915	10.8	1,568	17.6	842	20.3	733	31.2	1,497	10.9	1,370	19.8
Nebraska	54	5.6	53	5.7	260	2.7	257	4.7	571	3.0	561	3.7
Nevada	1,357	25.9	1,331	33.1	1,073	19.9	1,053	31.1	2,340	12.4	2,020	23.2
North Dakota	194	12.9	194	18.6	72	1.4	72	11.1	321	5.6	318	12.3
South Dakota	1,814	14.4	1,698	24.5	356	9.8	321	14.6	1,258	6.7	1,000	12.7
Utah	2,433	16.2	2,165	19.5	957	19.2	919	29.4	2,227	10.3	1,966	20.4
Wyoming	1,771	15.2	1,756	26.1	321	15.0	321	20.9	1,334	13.3	1,259	13.4
Western	5,217	13.8	4,937	21.8	4,639	11.8	4,519	19.1	12,463	5.2	11,996	8.9
Alaska	93	20.4	91	27.5	88	10.2	56	25.0	568	3.7	424	11.3
California	2,511	15.1	2,482	26.5	2,571	11.8	2,513	21.2	4,565	6.7	4,456	11.1
Hawaii	11	0.0	11	0.0	57	3.5	57	1.8	263	1.1	257	0.8
Idaho	1,230	16.4	1,034	23.4	590	15.9	560	26.1	2,013	7.3	1,877	15.3
Oregon	422	4.3	422	6.4	705	7.4	705	7.9	2,384	1.9	2,369	1.8
Pacific Island Possession	0	-	0	-	0	-	0	-	0	-	0	-
Panama Canal Zone	0	-	0	-	0	-	0	-	0	-	0	-
Washington	950	10.6	897	13.8	628	13.7	628	18.0	2,670	4.7	2,613	7.5
TOTAL	71,409	11.9	66,388	17.6	46,101	10.8	44,792	16.2	112,689	5.9	107,115	10.3

- indicates incalculable field. PEL - permissible exposure limit REL - recommended exposure limit MSHA - Mine Safety and Health Administration
 NOTE: See appendices for source description, methods, and agents.
 SOURCE: MSHA metal/nonmetal mine data.