

Table 6-18 (page 1 of 2). Pneumoconiotic agents: Percent of exposures exceeding designated occupational exposure limits by MSHA metal/nonmetal district and state, MSHA samples, 1979-1999

MSHA Metal/Nonmetal Mine District	1979 - 1988				1989 - 1992				1993 - 1999			
	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL
Northeast	10,176	12.5	9,471	20.9	6,612	10.1	6,311	15.7	12,607	6.3	12,101	10.6
Connecticut	351	26.2	308	36.0	167	13.2	162	22.2	342	5.3	303	5.3
Delaware	30	33.3	23	0.0	33	0.0	33	3.0	41	4.9	41	0.0
District of Columbia	0	-	0	-	0	-	0	-	0	-	0	-
Maine	207	15.9	201	24.4	169	3.0	169	7.7	255	4.3	255	9.8
Maryland	563	4.1	556	10.1	364	3.3	341	6.7	645	2.5	624	6.1
Massachusetts	497	17.5	483	28.2	263	9.9	256	15.6	554	3.6	554	7.0
New Hampshire	132	15.2	132	33.3	133	7.5	133	16.5	248	7.3	239	12.6
New Jersey	1,055	17.0	1,013	28.1	625	12.3	623	20.1	914	4.2	911	8.0
New York	2,221	11.5	1,970	17.9	1,733	6.6	1,679	11.6	2,973	5.3	2,776	9.3
Pennsylvania	2,413	9.5	2,351	15.1	1,371	13.4	1,286	19.4	2,988	7.7	2,884	12.2
Rhode Island	64	23.4	60	35.0	35	8.6	35	25.7	114	15.8	111	25.2
Vermont	708	15.7	549	47.5	350	20.0	348	27.9	729	19.5	729	29.8
Virginia	1,312	8.6	1,215	13.2	939	9.1	869	12.7	2,188	4.2	2,115	7.4
West Virginia	623	17.3	610	24.3	430	13.0	377	18.6	616	5.8	559	10.0
Southeast	15,562	7.9	14,577	12.2	9,936	8.2	9,560	12.4	15,192	4.6	14,647	8.0
Alabama	1,097	4.4	1,055	6.5	876	8.0	876	11.9	1,351	6.2	1,342	9.5
Florida	1,215	5.3	966	6.4	841	2.1	836	5.0	1,481	1.3	1,397	2.4
Georgia	2,526	11.0	2,494	19.6	1,585	10.5	1,576	15.2	2,149	5.3	2,140	7.7
Kentucky	1,055	7.8	998	10.1	534	9.4	501	11.0	1,001	3.7	1,001	5.7
Mississippi	301	4.3	286	6.3	480	5.4	478	8.2	941	7.0	941	11.8
North Carolina	3,480	6.6	3,385	11.3	2,223	6.7	2,199	11.0	2,668	3.7	2,614	6.9
Puerto Rico	1,106	5.9	788	0.3	230	10.0	114	3.5	829	2.7	704	2.7
South Carolina	1,176	16.2	1,145	27.5	1,371	8.8	1,235	14.8	2,195	3.0	1,978	7.1
Tennessee	3,517	7.0	3,401	9.8	1,774	10.5	1,735	16.0	2,516	7.7	2,486	13.6
Virgin Islands	89	6.7	59	0.0	22	9.1	10	0.0	61	1.6	44	6.8
North Central	14,704	10.0	13,332	13.5	8,922	11.0	8,755	15.6	15,428	5.2	14,928	8.7
Illinois	3,046	17.6	2,912	20.4	1,414	13.0	1,396	19.2	2,564	4.8	2,426	8.1
Indiana	1,247	4.2	1,204	3.2	929	4.7	925	5.9	2,001	2.9	1,958	5.0
Iowa	692	5.5	681	5.1	573	5.2	572	4.9	883	1.6	877	1.8
Michigan	2,062	8.0	1,577	13.8	1,559	14.6	1,506	19.5	2,664	6.2	2,520	10.4
Minnesota	4,477	7.0	3,846	10.9	1,663	10.6	1,594	16.2	2,311	5.2	2,202	8.4
Ohio	1,414	14.1	1,387	18.8	1,716	9.0	1,713	14.4	2,987	6.7	2,973	11.7
Wisconsin	1,766	9.3	1,725	13.2	1,068	15.5	1,049	20.6	2,018	5.6	1,972	9.9

See footnotes at end of table.

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MSHA Metal/Nonmetal Mine District	1979 - 1988				1989 - 1992				1993 - 1999			
	No. of Samples with PEL	% > PEL	No. of Samples with REL	% > REL	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	15,513	5.3	14,775	7.8
Arkansas	596	32.4	556	44.8	672	16.4	664	28.3	1,231	7.6	1,207	13.6
Louisiana	319	7.8	288	11.5	748	4.0	748	6.1	1,475	4.2	1,451	7.5
Missouri	2,532	12.9	2,393	16.0	2,037	11.6	2,021	15.0	3,511	4.8	3,219	7.3
New Mexico	1,331	13.7	1,189	20.9	1,095	13.0	1,072	20.9	2,054	10.0	1,764	15.1
Oklahoma	1,628	9.9	1,600	13.7	1,340	10.9	1,340	16.6	2,067	4.2	2,016	7.7
Texas	1,909	11.8	1,834	14.9	3,666	6.4	3,638	8.4	5,175	4.0	5,118	4.3
Rocky Mountain	17,435	15.3	16,211	22.7	6,434	16.5	6,164	25.3	13,136	8.7	11,310	15.3
Arizona	2,709	17.6	2,548	28.5	745	18.8	733	28.4	3,098	6.8	2,348	13.7
Colorado	3,872	13.2	3,609	19.8	1,255	16.9	1,211	26.7	1,496	12.2	1,472	23.2
Kansas	1,316	12.6	1,289	14.0	553	9.8	544	12.5	1,036	6.2	949	7.8
Montana	1,915	10.7	1,568	17.6	842	20.3	733	31.2	1,071	10.2	958	18.3
Nebraska	54	5.6	53	5.7	260	2.7	257	4.7	490	1.8	480	2.5
Nevada	1,357	25.8	1,331	33.1	1,073	19.9	1,053	31.1	1,816	12.4	1,535	23.6
North Dakota	194	12.9	194	18.6	72	1.4	72	11.1	266	2.3	263	7.6
South Dakota	1,814	14.4	1,698	24.5	356	9.8	321	14.6	1,075	5.5	835	10.4
Utah	2,433	16.2	2,165	19.5	957	19.1	919	29.4	1,627	8.8	1,384	16.2
Wyoming	1,771	15.2	1,756	26.1	321	15.0	321	20.9	1,161	11.6	1,086	10.9
Western	5,217	13.8	4,937	21.8	4,639	11.7	4,519	19.1	8,086	5.7	7,713	9.0
Alaska	93	20.4	91	27.5	88	10.2	56	25.0	399	4.3	282	11.3
California	2,511	15.1	2,482	26.5	2,571	11.7	2,513	21.2	2,880	7.6	2,799	11.6
Hawaii	11	0.0	11	0.0	57	3.5	57	1.8	208	1.0	202	1.0
Idaho	1,230	16.4	1,034	23.4	590	15.9	560	26.1	1,374	6.7	1,244	13.5
Oregon	422	4.3	422	6.4	705	7.4	705	7.9	1,595	1.9	1,586	1.8
Washington	950	10.6	897	13.8	628	13.7	628	18.0	1,630	6.1	1,600	8.7
TOTAL	71,409	11.8	66,388	17.6	46,101	10.8	44,792	16.2	79,962	5.9	75,474	9.7

– indicates incalculable field

PEL - permissible exposure limit REL - recommended exposure limit

NOTE: See appendices for source description, methods, and agents.

SOURCE: Mine Safety and Health Administration (MSHA) metal/nonmetal mine data.