

Table 1-15 (page 1 of 3). Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979-1999

OSHA Region	All years		1979 – 1986 OSHA PEL=2 f/cc				1987 – 1994 OSHA PEL=0.2 f/cc				1995 – 1999 OSHA PEL=0.1 f/cc NIOSH REL=0.1 f/cc		
	Number of Samples	GM (f/cc)	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL
Region 1	1,430	0.006	836	0.014	5.0	27.0	500	0.002	4.2	5.6	94	0.001	0.0
Connecticut	619	0.003	319	0.005	1.3	16.0	254	0.001	0.0	0.4	46	0.001	0.0
Maine	103	0.008	83	0.010	2.4	16.9	20	0.004	20.0	20.0	0	–	–
Massachusetts	481	0.014	285	0.032	10.2	38.6	172	0.005	7.0	10.5	24	0.001	0.0
New Hampshire	156	0.007	89	0.021	1.1	37.1	44	0.002	2.3	2.3	23	0.001	0.0
Rhode Island	70	0.033	60	0.032	10.0	30.0	9	0.062	44.4	44.4	1	0.002	0.0
Vermont	1	0.002	0	–	–	–	1	0.002	0.0	0.0	0	–	–
Region 2	2,891	0.004	1,279	0.006	1.5	14.9	1,359	0.003	4.3	6.7	253	0.002	2.4
New Jersey	700	0.008	384	0.010	2.9	20.8	288	0.006	14.9	20.8	28	0.001	0.0
New York	2,061	0.003	861	0.005	0.9	12.5	991	0.003	1.2	2.6	209	0.002	2.9
Puerto Rico	109	0.002	29	0.003	0.0	6.9	64	0.002	1.6	4.7	16	0.001	0.0
Virgin Islands	21	0.005	5	0.002	0.0	0.0	16	0.007	12.5	12.5	0	–	–
Region 3	1,773	0.010	1,043	0.013	3.4	25.8	659	0.007	14.0	18.4	71	0.001	0.0
Delaware	22	0.022	20	0.029	0.0	40.0	2	0.002	0.0	0.0	0	–	–
District of Columbia	131	0.003	114	0.003	0.9	10.5	17	0.001	0.0	0.0	0	–	–
Maryland	129	0.003	71	0.003	0.0	4.2	31	0.008	16.1	19.4	27	0.001	0.0
Pennsylvania	1,014	0.008	587	0.013	3.4	25.7	394	0.004	5.6	7.9	33	0.001	0.0
Virginia	362	0.041	163	0.060	7.4	45.4	198	0.031	29.8	39.4	1	0.0003	0.0
West Virginia	115	0.010	88	0.012	2.3	23.9	17	0.015	35.3	35.3	10	0.001	0.0
Region 4	2,128	0.004	714	0.014	4.1	24.6	1,085	0.003	2.0	4.2	331	0.002	0.9
Alabama	187	0.009	104	0.020	6.7	28.8	74	0.003	0.0	0.0	9	0.008	11.1
Florida	269	0.003	93	0.008	3.2	14.0	161	0.002	1.9	3.7	15	0.001	0.0
Georgia	336	0.009	217	0.015	7.4	25.3	112	0.003	3.6	8.9	7	0.001	0.0
Kentucky	351	0.003	104	0.004	0.0	5.8	194	0.003	0.5	2.6	55	0.002	0.0
Mississippi	138	0.005	33	0.099	3.0	63.6	87	0.002	0.0	0.0	18	0.001	0.0
North Carolina	472	0.005	87	0.055	2.3	47.1	230	0.005	4.3	7.4	155	0.001	0.0
South Carolina	188	0.002	45	0.008	0.0	20.0	114	0.001	2.6	2.6	29	0.001	0.0
Tennessee	187	0.004	31	0.003	0.0	3.2	113	0.004	0.9	4.4	43	0.003	4.7

See footnotes at end of table.

Table 1-15 (page 2 of 3). Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979-1999

OSHA Region	All years		1979 – 1986 PEL=2 f/cc				1987 – 1994 PEL=0.2 f/cc				1995 – 1999 OSHA PEL=0.1 f/cc NIOSH REL=0.1 f/cc		
	Number of Samples	GM (f/cc)	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL
Region 5	3,255	0.004	1,301	0.010	1.9	19.4	1,722	0.003	2.0	3.4	232	0.001	0.4
Illinois	835	0.003	352	0.007	0.0	12.8	434	0.002	0.0	0.7	49	0.001	0.0
Indiana	440	0.006	213	0.033	4.2	41.8	152	0.001	0.0	0.7	75	0.001	0.0
Michigan	453	0.002	36	0.001	0.0	0.0	376	0.002	1.9	2.7	41	0.003	2.4
Minnesota	61	0.003	14	0.010	14.3	21.4	47	0.002	0.0	2.1	0	–	–
Ohio	863	0.005	381	0.009	0.8	18.4	435	0.004	5.5	7.8	47	0.001	0.0
Wisconsin	603	0.006	305	0.012	3.6	15.1	278	0.003	1.4	3.2	20	0.001	0.0
Region 6	1,315	0.005	695	0.007	1.7	15.5	557	0.004	5.6	9.9	63	0.001	0.0
Arkansas	253	0.005	100	0.005	4.0	13.0	143	0.006	7.0	14.0	10	0.001	0.0
Louisiana	121	0.005	69	0.006	1.4	8.7	52	0.003	1.9	1.9	0	–	–
New Mexico	30	0.002	2	0.002	0.0	0.0	27	0.002	0.0	0.0	1	0.001	0.0
Oklahoma	166	0.006	108	0.008	4.6	15.7	49	0.003	4.1	6.1	9	0.004	0.0
Texas	745	0.005	416	0.008	0.5	17.3	286	0.004	6.3	10.8	43	0.001	0.0
Region 7	1,304	0.004	910	0.006	1.9	10.9	373	0.002	1.1	1.1	21	0.001	0.0
Iowa	339	0.004	230	0.006	2.6	14.8	106	0.002	0.0	0.0	3	0.001	0.0
Kansas	247	0.010	177	0.018	2.8	19.2	64	0.003	3.1	3.1	6	0.001	0.0
Missouri	548	0.003	416	0.004	1.4	6.0	126	0.002	1.6	1.6	6	0.001	0.0
Nebraska	170	0.003	87	0.004	0.0	6.9	77	0.002	0.0	0.0	6	0.001	0.0
Region 8	628	0.005	445	0.007	0.9	15.1	158	0.003	2.5	3.2	25	0.001	0.0
Colorado	320	0.005	226	0.005	0.4	14.2	82	0.004	4.9	6.1	12	0.001	0.0
Montana	164	0.009	134	0.012	2.2	21.6	27	0.003	0.0	0.0	3	0.001	0.0
North Dakota	16	0.003	9	0.006	0.0	11.1	0	–	–	–	7	0.001	0.0
South Dakota	66	0.002	32	0.003	0.0	6.3	33	0.001	0.0	0.0	1	0.001	0.0
Utah	35	0.012	22	0.023	0.0	13.6	12	0.005	0.0	0.0	1	0.001	0.0
Wyoming	27	0.003	22	0.003	0.0	0.0	4	0.010	0.0	0.0	1	0.001	0.0

See footnotes at end of table.

Table 1-15 (page 3 of 3). Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979-1999

OSHA Region	All years		1979 – 1986 PEL=2 f/cc				1987 – 1994 PEL=0.2 f/cc				1995 – 1999 OSHA PEL=0.1 f/cc NIOSH REL=0.1 f/cc		
	Number of Samples	GM (f/cc)	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL	% > REL	Number of Samples	GM (f/cc)	% > PEL
Region 9	715	0.002	177	0.003	0.6	9.0	471	0.002	3.2	6.2	67	0.004	0.0
American Samoa	0	–	0	–	–	–	0	–	–	–	0	–	–
Arizona	103	0.004	45	0.002	0.0	8.9	56	0.006	1.8	3.6	2	0.043	0.0
California	450	0.003	71	0.004	1.4	12.7	320	0.002	3.4	7.2	59	0.004	0.0
Guam	3	0.000	3	0.0003	0.0	0.0	0	–	–	–	0	–	–
Hawaii	50	0.001	29	0.001	0.0	3.4	19	0.001	0.0	0.0	2	0.001	0.0
Nevada	109	0.002	29	0.004	0.0	6.9	76	0.001	3.9	5.3	4	0.003	0.0
Region 10	568	0.005	289	0.007	2.4	16.3	232	0.003	0.9	3.4	47	0.001	2.1
Alaska	220	0.003	149	0.003	1.3	2.7	50	0.004	2.0	2.0	21	0.002	0.0
Idaho	95	0.003	27	0.013	0.0	22.2	66	0.002	0.0	0.0	2	0.001	0.0
Oregon	154	0.011	107	0.013	2.8	29.9	41	0.010	0.0	9.8	6	0.003	16.7
Washington	99	0.003	6	0.385	33.3	83.3	75	0.003	1.3	4.0	18	0.001	0.0
TOTAL	16,007	0.005	7,689	0.009	2.5	18.9	7,116	0.003	4.0	6.3	1,204	0.001	0.9

– indicates incalculable field

PEL - permissible exposure limit REL - recommended exposure limit GM - geometric mean f/cc - fibers per cubic centimeter

NOTE: The NIOSH REL is 0.1 f/cc. See appendices for source description, methods, and agents.

SOURCE: Occupational Safety and Health Administration (OSHA) Integrated Management Information System.