

Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979–2003 (page 1 of 3)

OSHA Region	All years				1979–1986 OSHA PEL=2 f/cc				1987–1994 OSHA PEL=0.2 f/cc				1995–2003 OSHA PEL=0.1 f/cc				
	No. of Samples	GM (f/cc)	No. of Samples	GM (f/cc)	PEL	% >	REL	No. of Samples	GM (f/cc)	PEL	% >	REL	No. of Samples	GM (f/cc)	PEL	% >	REL
Region 1	1,464	0.006	828	0.014	5.1	27.3	4.9	486	0.002	3.7	4.9	4.9	150	0.002	7.3	7.3	7.3
Connecticut	625	0.002	318	0.005	1.3	16.0	0.4	247	0.001	0.0	0.4	0.4	60	0.001	0.0	0.0	0.0
Maine	93	0.008	76	0.011	2.6	18.4	7.1	14	0.002	7.1	7.1	7.1	3	0.001	0.0	0.0	0.0
Massachusetts	514	0.014	285	0.032	10.2	38.6	9.9	171	0.005	7.0	9.9	9.9	58	0.006	19.0	19.0	19.0
New Hampshire	161	0.006	89	0.021	1.1	37.1	2.3	44	0.002	2.3	2.3	2.3	28	0.001	0.0	0.0	0.0
Rhode Island	70	0.033	60	0.032	10.0	30.0	44.4	9	0.062	44.4	44.4	44.4	1	0.002	0.0	0.0	0.0
Vermont	1	0.002	0	-	-	-	0.0	1	0.002	0.0	0.0	0.0	0	-	-	-	-
Region 2	2,900	0.004	1,249	0.006	1.4	14.8	7.0	1,281	0.003	4.5	7.0	7.0	370	0.002	2.7	2.7	2.7
New Jersey	713	0.007	374	0.010	2.7	20.6	21.7	277	0.006	15.5	21.7	21.7	62	0.002	6.5	6.5	6.5
New York	2,055	0.003	841	0.005	1.0	12.6	2.7	924	0.003	1.3	2.7	2.7	290	0.002	2.1	2.1	2.1
Puerto Rico	111	0.002	29	0.003	0.0	6.9	4.7	64	0.002	1.6	4.7	4.7	18	0.001	0.0	0.0	0.0
Virgin Islands	21	0.005	5	0.002	0.0	0.0	12.5	16	0.007	12.5	12.5	12.5	0	-	-	-	-
Region 3	1,735	0.009	1,029	0.013	3.4	26.0	19.0	616	0.007	14.6	19.0	19.0	90	0.001	0.0	0.0	0.0
Delaware	22	0.022	20	0.029	0.0	40.0	0.0	2	0.002	0.0	0.0	0.0	0	-	-	-	-
District of Columbia	128	0.003	113	0.003	0.9	10.6	0.0	15	0.001	0.0	0.0	0.0	0	-	-	-	-
Maryland	138	0.003	71	0.003	0.0	4.2	19.4	31	0.008	16.1	19.4	19.4	36	0.001	0.0	0.0	0.0
Pennsylvania	978	0.007	573	0.013	3.5	26.2	7.9	365	0.003	5.8	7.9	7.9	40	0.001	0.0	0.0	0.0
Virginia	351	0.040	164	0.056	7.3	45.1	40.9	186	0.031	31.2	40.9	40.9	1	0.000	0.0	0.0	0.0
West Virginia	118	0.010	88	0.012	2.3	23.9	35.3	17	0.015	35.3	35.3	35.3	13	0.001	0.0	0.0	0.0
Region 4	2,154	0.004	714	0.014	4.1	24.6	4.4	1,055	0.003	2.1	4.4	4.4	385	0.002	2.1	2.1	2.1
Alabama	183	0.008	104	0.020	6.7	28.8	0.0	69	0.002	0.0	0.0	0.0	10	0.005	10.0	10.0	10.0
Florida	274	0.003	93	0.008	3.2	14.0	3.8	157	0.002	1.9	3.8	3.8	24	0.001	0.0	0.0	0.0
Georgia	338	0.009	217	0.015	7.4	25.3	8.9	112	0.003	3.6	8.9	8.9	9	0.001	0.0	0.0	0.0
Kentucky	364	0.003	104	0.004	0.0	5.8	2.6	194	0.003	0.5	2.6	2.6	66	0.002	6.1	6.1	6.1
Mississippi	141	0.005	33	0.009	3.0	63.6	0.0	87	0.002	0.0	0.0	0.0	21	0.001	0.0	0.0	0.0
North Carolina	487	0.005	87	0.055	2.3	47.1	7.4	229	0.005	4.4	7.4	7.4	171	0.002	0.6	0.6	0.6
South Carolina	173	0.002	45	0.008	0.0	20.0	3.2	94	0.001	3.2	3.2	3.2	34	0.001	0.0	0.0	0.0
Tennessee	194	0.004	31	0.003	0.0	3.2	4.4	113	0.004	0.9	4.4	4.4	50	0.003	4.0	4.0	4.0

See footnotes at end of table.

Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979–2003 (page 2 of 3)

OSHA Region	All years			1979–1986 OSHA PEL=2 f/cc			1987–1994 OSHA PEL=0.2 f/cc			1995–2003 OSHA PEL=0.1 f/cc		
	No. of Samples	GM (f/cc)	%> REL	No. of Samples	GM (f/cc)	%> PEL	No. of Samples	GM (f/cc)	%> PEL	No. of Samples	GM (f/cc)	%> PEL
Region 5	3,417	0.004	19.7	1,287	0.010	1.9	1,704	0.003	2.1	426	0.001	0.9
Illinois	888	0.003	13.2	342	0.007	0.0	427	0.002	0.0	119	0.002	2.5
Indiana	462	0.006	41.8	213	0.033	4.2	152	0.001	0.0	97	0.001	0.0
Michigan	467	0.002	0.0	36	0.001	0.0	372	0.002	1.9	59	0.004	1.7
Minnesota	63	0.003	21.4	14	0.010	14.3	47	0.002	0.0	2	0.001	0.0
Ohio	905	0.005	18.4	381	0.009	0.8	434	0.004	5.5	90	0.001	0.0
Wisconsin	632	0.005	15.3	301	0.012	3.7	272	0.003	1.5	59	0.001	0.0
Region 6	1,348	0.005	15.5	699	0.007	1.7	557	0.004	5.6	92	0.001	0.0
Arkansas	260	0.005	12.5	104	0.004	3.8	143	0.006	7.0	13	0.001	0.0
Louisiana	122	0.005	8.7	69	0.006	1.4	52	0.003	1.9	1	0.001	0.0
New Mexico	43	0.001	0.0	2	0.002	0.0	27	0.002	0.0	14	0.001	0.0
Oklahoma	166	0.006	15.7	108	0.008	4.6	49	0.003	4.1	9	0.004	0.0
Texas	757	0.005	17.3	416	0.008	0.5	286	0.004	6.3	55	0.001	0.0
Region 7	1,313	0.004	10.8	899	0.006	1.8	373	0.002	1.1	41	0.001	0.0
Iowa	339	0.004	14.8	230	0.006	2.6	106	0.002	0.0	3	0.001	0.0
Kansas	245	0.009	19.0	168	0.016	2.4	63	0.003	3.2	14	0.001	0.0
Missouri	556	0.003	6.0	415	0.004	1.4	126	0.002	1.6	15	0.001	0.0
Nebraska	173	0.003	7.0	86	0.004	0.0	78	0.002	0.0	9	0.001	0.0
Region 8	627	0.005	14.9	437	0.007	0.9	141	0.002	2.8	49	0.002	0.0
Colorado	318	0.004	14.2	226	0.005	0.4	74	0.003	5.4	18	0.001	0.0
Montana	168	0.009	21.6	134	0.012	2.2	26	0.003	0.0	8	0.001	0.0
North Dakota	26	0.005	11.1	9	0.006	0.0	0	-	-	17	0.004	0.0
South Dakota	67	0.002	3.2	31	0.003	0.0	33	0.001	0.0	3	0.001	0.0
Utah	20	0.011	13.3	15	0.025	0.0	4	0.001	0.0	1	0.001	0.0
Wyoming	28	0.003	0.0	22	0.003	0.0	4	0.010	0.0	2	0.001	0.0

See footnotes at end of table.

Asbestos: Geometric mean exposures and percent exceeding designated occupational exposure limits by OSHA region and state, OSHA samples, 1979–2003 (page 3 of 3)

OSHA Region	All years				1979–1986 OSHA PEL=2 f/cc				1987–1994 OSHA PEL=0.2 f/cc				1995–2003 OSHA PEL=0.1 f/cc						
	No. of Samples	GM (f/cc)	No. of Samples	GM (f/cc)	PEL	% > PEL	REL	% > REL	No. of Samples	GM (f/cc)	PEL	% > PEL	REL	% > REL	No. of Samples	GM (f/cc)	PEL	% > PEL	REL
Region 9	725	0.002	178	0.003	0.6	9.0	9.0	6.3	461	0.002	3.3	6.3	6.3	86	0.004	0.0	0.0	0.0	0.0
American Samoa	0	-	0	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-
Arizona	107	0.005	45	0.002	0.0	8.9	8.9	3.6	56	0.006	1.8	3.6	3.6	6	0.026	0.0	0.0	0.0	0.0
California	453	0.003	70	0.004	1.4	12.9	12.9	7.4	310	0.002	3.5	7.4	7.4	73	0.004	0.0	0.0	0.0	0.0
Guam	3	0.000	3	0.000	0.0	0.0	0.0	-	0	-	-	-	-	0	-	-	-	-	-
Hawaii	53	0.001	31	0.001	0.0	3.2	3.2	0.0	19	0.001	0.0	0.0	0.0	3	0.001	0.0	0.0	0.0	0.0
Nevada	109	0.002	29	0.004	0.0	6.9	6.9	5.3	76	0.001	3.9	5.3	5.3	4	0.003	0.0	0.0	0.0	0.0
Region 10	587	0.004	289	0.007	2.4	16.3	16.3	3.4	232	0.003	0.9	3.4	3.4	66	0.002	1.5	1.5	1.5	1.5
Alaska	220	0.003	149	0.003	1.3	2.7	2.7	2.0	50	0.004	2.0	2.0	2.0	21	0.002	0.0	0.0	0.0	0.0
Idaho	95	0.003	27	0.013	0.0	22.2	22.2	0.0	66	0.002	0.0	0.0	0.0	2	0.001	0.0	0.0	0.0	0.0
Oregon	164	0.010	107	0.013	2.8	29.9	29.9	9.8	41	0.010	0.0	9.8	9.8	16	0.003	6.3	6.3	6.3	6.3
Washington	108	0.003	6	0.385	33.3	83.3	83.3	4.0	75	0.003	1.3	4.0	4.0	27	0.001	0.0	0.0	0.0	0.0
TOTAL	16,270	0.005	7,609	0.009	2.5	18.9	18.9	6.3	6,906	0.003	4.0	6.3	6.3	1,755	0.002	1.9	1.9	1.9	1.9

- indicates incalculable field. PEL - permissible exposure limit REL - recommended exposure limit GM - geometric mean f/cc - fibers per cubic centimeter
 OSHA - Occupational Safety and Health Administration
 NOTE: The NIOSH REL is 0.1 f/cc. See appendices for source description and methods.
 SOURCE: OSHA Integrated Management Information System.