



**Screening and Prevalence Statistics  
2016 Calendar Year Data**

Massachusetts lead regulation (105 CMR 460.050) requires that all children be tested for blood lead between the ages of 9 and 12 months, and again at ages 2 and 3. Additionally, all children should be tested at age 4 if they live in a high risk community in Massachusetts. The following table presents childhood lead screening percentages, prevalence by blood lead levels, and prevalence for confirmed and unconfirmed elevated blood lead levels. This information is relevant to assessing the need for treatment and prevention services at the community level in Massachusetts.

**DATA DESCRIPTION**

**COMMUNITY:** Cities and towns in Massachusetts listed alphabetically.

**POPULATION (9-47 MONTHS):** The US Census Bureau 2016 estimate for the number of children 9 to 47 months of age.

**TOTAL SCREENED (9-47 MONTHS):** The total number of children 9 to 47 months of age screened for lead poisoning in the given calendar year.

**PERCENT SCREENED:** The percentage of children 9 to 47 months of age who were screened for lead poisoning in the given calendar year. This is calculated by dividing the total number of children screened by the underlying population in the geographic area based on the US Census Bureau 2016 estimate.

**µg/dL:** micrograms per deciliter, the unit of measurement for blood lead specimens.

**BLOOD LEAD LEVELS:** Number and percentage of children within each blood lead level category, out of all children screened 9 to 47 months of age. Only one blood lead specimen is counted per child. If a child has had more than one blood lead specimen within the designated time period, then the highest specimen is counted, with venous specimens taking priority, followed by confirmed capillary specimens and, finally, unconfirmed capillary specimens when no confirmed specimens are available.

The blood lead categories include both confirmed and unconfirmed blood lead specimens. A confirmed blood lead specimen is either a single venous blood lead specimen of any value, or the higher of two capillary blood lead specimens  $\geq 10$  µg/dL drawn within 12 weeks of each other. A single capillary blood lead specimen of any value is considered unconfirmed. The Massachusetts Childhood Lead Poisoning Prevention Program (CLPPP) recommends but does not require confirmation of capillary blood lead specimens below 10 µg/dL. Due to this, capillary blood lead specimens between 5 and 9 µg/dL are usually unconfirmed. Unconfirmed capillary blood lead specimens  $\geq 10$  µg/dL are rare but may exist because of a failure to re-test.

In 2012, the CDC updated its guidelines on blood lead levels in children. The earlier 10 µg/dL level of concern was replaced with a reference level of 5 µg/dL. Due to these changes, blood lead levels below 10 µg/dL are now included in Department of Public Health data tables. The blood lead levels are organized into four categories: 0-4 µg/dL, 5-9 µg/dL, 10-24 µg/dL, and ≥25 µg/dL. For each category, the number (N) and percentage (%) of screened children whose highest blood lead specimen fell within the category is shown. Blood lead levels in the 10-24 µg/dL category are considered elevated and blood lead levels ≥25 µg/dL signify lead poisoning. For more information regarding the new guidelines, please visit the CDC's information page on blood lead levels [here](#).

**ESTIMATED CONFIRMED ≥5:** Capillary blood tests can be a useful tool for preliminary lead screening because they are easier to conduct than venous tests, especially on children. However, a single capillary test does not provide adequate precision or reliability to be considered confirmatory of an elevated blood lead level. Only about 1/3 of capillary results in the 5-9 µg/dL range are found to be truly ≥5 µg/dL upon retest. Until confirmatory testing of preliminary capillary results 5-9 µg/dL becomes standard practice in Massachusetts, as recommended by MA CLPPP, a calculation is employed to estimate the true number of children with blood lead levels ≥5 µg/dL. The number of children with estimated confirmed ≥5 µg/dL blood lead levels is calculated as the sum of those with confirmed blood lead levels ≥5 µg/dL and a proportion of those having unconfirmed blood lead levels ≥5 µg/dL. The proportion of unconfirmed blood lead levels ≥5 µg/dL estimated to be truly elevated is based on the annual statewide proportion of capillary results in the 5-9 µg/dL range found to be truly ≥5 µg/dL upon retest (positive predictive value).

**CONFIRMED ELEVATED ≥10:** The Childhood Lead Poisoning Prevention Program defines an elevated blood lead level to be ≥10 µg/dL. This data shows the number (N) and percentage (%) of children nine to 47 months of age with a confirmed blood lead specimen ≥10 µg/dL. While not presented in the table, the number of unconfirmed elevated ≥10 µg/dL can be calculated by summing the 10-24 and ≥25 µg/dL blood lead level categories and then subtracting the number of confirmed elevated ≥10 µg/dL.

**PERCENT PRE-1978 HOUSING UNITS:** An estimate of the percentage of all housing units built prior to 1978, according to the 2011-2015 American Community Survey. In 1977, the Consumer Product Safety Commission banned lead-containing paint (16 C.F.R. 1303). Housing units built prior to this date may contain dangerous levels of lead in paint. According to Massachusetts regulations (105 CMR 460.000), removal or covering of lead hazards is required in units built before 1978 where a child under six years of age is living. This is a change from earlier high risk community incidence rate statistics (data prior to 2009-2013), which used the percentage of all housing units built prior to 1950.

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**Screening and Prevalence of Childhood Blood Lead Levels for Children 9 months to less than 4 years of age by Community**

Calendar Year 2016: January 01, 2016- December 31, 2016

Community	Population 9-47 mo. <sup>1</sup>	Total Screened	Percent Screened	Blood Lead Levels <sup>2</sup> (µg/dL)								Estimated Confirmed ≥5 <sup>3</sup>		Confirmed Elevated ≥10 <sup>4</sup>		Percent Pre-1978 Housing Units <sup>5</sup>
				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
ABINGTON	600	483	80	474	98	8	2	NS	NS	0	0	6	1	NS	NS	67
ACTON	597	450	75	443	98	NS	NS	NS	NS	NS	NS	7	2	NS	NS	61
ACUSHNET	275	234	85	233	100	NS	NS	0	0	0	0	0	0	0	0	65
ADAMS	223	216	97	194	90	21	10	NS	NS	0	0	11	5	NS	NS	92
AGAWAM	790	639	81	629	98	8	1	NS	NS	0	0	8	1	NS	NS	68
ALFORD	6	3	50	NS	NS	0	0	0	0	0	0	0	0	0	0	52
AMESBURY	592	389	66	368	95	20	5	NS	NS	0	0	15	4	NS	NS	68
AMHERST	491	315	64	313	99	NS	NS	0	0	0	0	NS	NS	0	0	64
ANDOVER	922	756	82	750	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	68
ARLINGTON	1927	1470	76	1451	99	18	1	1	<1	0	0	13	1	1	0	89
ASHBURNHAM	208	108	52	104	96	NS	NS	0	0	0	0	NS	NS	0	0	60
ASHBY	92	52	57	51	98	NS	NS	0	0	0	0	NS	NS	0	0	68
ASHFIELD	35	16	46	13	81	NS	NS	0	0	0	0	NS	NS	0	0	63
ASHLAND	774	555	72	549	99	NS	NS	NS	NS	0	0	6	1	NS	NS	43
ATHOL	433	163	38	157	96	NS	NS	NS	NS	0	0	6	4	NS	NS	77

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
ATTLEBORO	1736	1275	73	1231	97	35	3	6	<1	3	<1	31	2	8	1	64
AUBURN	512	428	84	425	99	NS	NS	0	0	0	0	NS	NS	0	0	69
AVON	143	125	87	122	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	84
AYER	327	204	62	200	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	60
BARNSTABLE	1248	948	76	931	98	17	2	0	0	0	0	8	1	0	0	57
BARRE	165	88	53	83	94	NS	NS	NS	NS	0	0	NS	NS	NS	NS	66
BECKET	51	32	63	32	100	0	0	0	0	0	0	0	0	0	0	50
BEDFORD	432	448	>99	442	99	6	1	0	0	0	0	NS	NS	0	0	61
BELCHERTOWN	510	319	63	319	100	0	0	0	0	0	0	0	0	0	0	42
BELLINGHAM	704	347	49	343	99	NS	NS	0	0	0	0	NS	NS	0	0	62
BELMONT	1087	637	59	629	99	8	1	0	0	0	0	8	1	0	0	92
BERKLEY	149	165	>99	161	98	NS	NS	0	0	0	0	NS	NS	0	0	35
BERLIN	74	63	85	61	97	NS	NS	0	0	0	0	NS	NS	0	0	50
BERNARDSTON	51	32	63	29	91	NS	NS	NS	NS	0	0	NS	NS	NS	NS	64
BEVERLY	1249	1056	85	1024	97	31	3	NS	NS	0	0	21	2	NS	NS	80

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
BILLERICA	1270	1028	81	1011	98	16	2	NS	NS	0	0	9	1	NS	NS	65
BLACKSTONE	309	160	52	155	97	NS	NS	0	0	0	0	NS	NS	0	0	54
BLANDFORD	19	30	>99	30	100	0	0	0	0	0	0	0	0	0	0	64
BOLTON	156	153	98	151	99	NS	NS	0	0	0	0	NS	NS	0	0	38
BOSTON	21378	16757	78	16337	97	335	2	77	<1	8	<1	361	2	79	0	80
BOURNE	455	363	80	357	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	62
BOXBOROUGH	80	85	>99	85	100	0	0	0	0	0	0	0	0	0	0	51
BOXFORD	81	174	>99	173	99	NS	NS	0	0	0	0	NS	NS	0	0	53
BOYLSTON	128	99	77	98	99	0	0	NS	NS	0	0	NS	NS	NS	NS	59
BRAINTREE	1357	1063	78	1055	99	7	1	NS	NS	0	0	7	1	NS	NS	74
BREWSTER	198	108	55	104	96	NS	NS	0	0	0	0	NS	NS	0	0	40
BRIDGEWATER	564	636	>99	628	99	7	1	NS	NS	0	0	7	1	NS	NS	50
BRIMFIELD	90	79	88	76	96	NS	NS	NS	NS	0	0	NS	NS	NS	NS	58
BROCKTON	4486	3782	84	3586	95	150	4	43	1	3	<1	173	5	44	1	83
BROOKFIELD	118	68	58	66	97	NS	NS	0	0	0	0	NS	NS	0	0	58

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
BROOKLINE	2306	1439	62	1427	99	10	1	2	<1	0	0	11	1	2	0	88
BUCKLAND	51	1	2	NS	NS	0	0	0	0	0	0	0	0	0	0	66
BURLINGTON	839	664	79	655	99	8	1	0	0	NS	NS	6	1	NS	NS	64
CAMBRIDGE	2988	2498	84	2466	99	26	1	6	<1	0	0	24	1	6	0	77
CANTON	764	611	80	606	99	NS	NS	0	0	0	0	NS	NS	0	0	60
CARLISLE	83	83	100	83	100	0	0	0	0	0	0	0	0	0	0	53
CARVER	313	255	81	246	96	8	3	NS	NS	0	0	NS	NS	NS	NS	40
CHARLEMONT	32	20	62	20	100	0	0	0	0	0	0	0	0	0	0	70
CHARLTON	371	327	88	321	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	41
CHATHAM	110	47	43	44	94	NS	NS	NS	NS	0	0	NS	NS	NS	NS	60
CHELMSFORD	937	895	96	890	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	66
CHELSEA	2194	1916	87	1853	97	55	3	8	<1	0	0	48	3	7	0	79
CHESHIRE	93	83	89	81	98	NS	NS	0	0	0	0	NS	NS	0	0	63
CHESTER	37	19	51	17	89	NS	NS	0	0	0	0	NS	NS	0	0	67
CHESTERFIELD	12	10	83	10	100	0	0	0	0	0	0	0	0	0	0	65

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
CHICOPEE	2111	1317	62	1297	98	15	1	5	<1	0	0	19	1	5	0	83
CHILMARK	26	15	58	14	93	NS	NS	0	0	0	0	NS	NS	0	0	50
CLARKSBURG	60	7	12	6	86	NS	NS	0	0	0	0	0	0	0	0	79
CLINTON	606	439	72	413	94	24	5	NS	NS	0	0	17	4	NS	NS	74
COHASSET	267	221	83	219	99	NS	NS	0	0	0	0	NS	NS	0	0	74
COLRAIN	14	30	>99	30	100	0	0	0	0	0	0	0	0	0	0	61
CONCORD	402	318	79	318	100	0	0	0	0	0	0	0	0	0	0	69
CONWAY	59	27	46	25	93	NS	NS	0	0	0	0	NS	NS	0	0	60
CUMMINGTON	17	18	>99	16	89	NS	NS	0	0	0	0	NS	NS	0	0	65
DALTON	142	134	94	132	99	NS	NS	0	0	0	0	NS	NS	0	0	83
DANVERS	804	760	95	745	98	11	1	NS	NS	0	0	9	1	NS	NS	69
DARTMOUTH	651	682	>99	670	98	11	2	NS	NS	0	0	8	1	NS	NS	62
DEDHAM	863	708	82	702	99	6	1	0	0	0	0	6	1	0	0	73
DEERFIELD	124	100	81	93	93	7	7	0	0	0	0	6	6	0	0	64
DENNIS	320	175	55	167	95	8	5	0	0	0	0	NS	NS	0	0	73

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
DIGHTON	259	192	74	190	99	NS	NS	0	0	0	0	NS	NS	0	0	55
DOUGLAS	298	154	52	149	97	NS	NS	NS	NS	0	0	NS	NS	NS	NS	50
DOVER	93	117	>99	116	99	NS	NS	0	0	0	0	NS	NS	0	0	68
DRACUT	987	825	84	818	99	7	1	0	0	0	0	6	1	0	0	51
DUDLEY	314	237	75	230	97	NS	NS	NS	NS	0	0	6	3	NS	NS	63
DUNSTABLE	32	46	>99	46	100	0	0	0	0	0	0	0	0	0	0	39
DUXBURY	369	313	85	311	99	NS	NS	0	0	0	0	NS	NS	0	0	62
EAST BRIDGEWATER	432	394	91	382	97	11	3	NS	NS	0	0	8	2	NS	NS	61
EAST BROOKFIELD	64	46	72	45	98	NS	NS	0	0	0	0	NS	NS	0	0	73
EAST LONGMEADOW	424	356	84	352	99	NS	NS	0	0	0	0	NS	NS	0	0	67
EASTHAM	65	33	51	30	91	NS	NS	0	0	0	0	NS	NS	0	0	52
EASTHAMPTON	478	309	65	299	97	8	3	NS	NS	0	0	10	3	NS	NS	71
EASTON	547	543	99	540	99	NS	NS	0	0	0	0	NS	NS	0	0	53
EDGARTOWN	154	127	82	124	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	39
EGREMONT	22	8	36	8	100	0	0	0	0	0	0	0	0	0	0	65



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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
ERVING	56	21	38	20	95	NS	NS	0	0	0	0	NS	NS	0	0	68
ESSEX	120	82	68	79	96	NS	NS	NS	NS	0	0	NS	NS	NS	NS	72
EVERETT	2131	1674	79	1622	97	48	3	3	<1	1	<1	40	2	4	0	90
FAIRHAVEN	398	319	80	308	97	8	3	NS	NS	0	0	7	2	NS	NS	77
FALL RIVER	3763	2725	72	2611	96	101	4	11	<1	2	<1	66	2	13	0	83
FALMOUTH	789	603	76	597	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	61
FITCHBURG	1835	1104	60	1053	95	41	4	10	1	0	0	40	4	8	1	77
FLORIDA	40	3	8	NS	NS	0	0	0	0	0	0	0	0	0	0	63
FOXBOROUGH	511	443	87	433	98	8	2	NS	NS	0	0	7	2	NS	NS	59
FRAMINGHAM	3161	2110	67	2063	98	43	2	4	<1	0	0	43	2	4	0	80
FRANKLIN	913	592	65	586	99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	41
FREETOWN	196	262	>99	259	99	NS	NS	0	0	0	0	NS	NS	0	0	64
GARDNER	832	423	51	404	96	13	3	NS	NS	NS	NS	15	4	6	1	78
AQUINNAH	13	1	8	NS	NS	0	0	0	0	0	0	0	0	0	0	41
GEORGETOWN	248	224	90	221	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	53

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
GILL	19	26	>99	25	96	NS	NS	0	0	0	0	NS	NS	0	0	55
GLOUCESTER	661	666	>99	624	94	38	6	NS	NS	0	0	30	5	NS	NS	77
GOSHEN	41	5	12	NS	NS	0	0	0	0	0	0	0	0	0	0	61
GOSNOLD	-1	0	>99	0	0	0	0	0	0	0	0	0	0	0	0	78
GRAFTON	842	491	58	486	99	NS	NS	0	0	0	0	NS	NS	0	0	51
GRANBY	130	118	91	116	98	NS	NS	0	0	0	0	NS	NS	0	0	67
GRANVILLE	28	27	96	25	93	NS	NS	0	0	0	0	NS	NS	0	0	65
GREAT BARRINGTON	145	120	83	112	93	7	6	NS	NS	0	0	NS	NS	NS	NS	74
GREENFIELD	672	327	49	316	97	8	2	NS	NS	NS	NS	10	3	NS	NS	81
GROTON	244	209	86	206	99	NS	NS	0	0	0	0	NS	NS	0	0	47
GROVELAND	148	133	90	128	96	NS	NS	0	0	0	0	NS	NS	0	0	60
HADLEY	117	57	49	54	95	NS	NS	0	0	0	0	NS	NS	0	0	62
HALIFAX	212	188	89	187	99	NS	NS	0	0	0	0	NS	NS	0	0	66
HAMILTON	270	225	83	224	100	NS	NS	0	0	0	0	0	0	0	0	76
HAMPDEN	98	87	89	86	99	NS	NS	0	0	0	0	0	0	0	0	71

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
HANCOCK	16	2	12	NS	NS	0	0	0	0	0	0	0	0	0	0	36
HANOVER	369	396	>99	392	99	NS	NS	0	0	0	0	NS	NS	0	0	60
HANSON	272	273	>99	268	98	NS	NS	0	0	0	0	NS	NS	0	0	65
HARDWICK	142	40	28	35	88	NS	NS	0	0	0	0	NS	NS	0	0	63
HARVARD	69	93	>99	92	99	NS	NS	0	0	0	0	NS	NS	0	0	61
HARWICH	295	159	54	154	97	NS	NS	NS	NS	0	0	NS	NS	NS	NS	58
HATFIELD	66	49	74	49	100	0	0	0	0	0	0	0	0	0	0	73
HAVERHILL	2862	1829	64	1764	96	57	3	5	<1	3	<1	56	3	8	0	66
HAWLEY	5	2	40	NS	NS	0	0	0	0	0	0	0	0	0	0	64
HEATH	7	3	43	NS	NS	0	0	0	0	0	0	0	0	0	0	48
HINGHAM	853	699	82	697	100	NS	NS	NS	NS	0	0	NS	NS	NS	NS	63
HINSDALE	26	48	>99	47	98	NS	NS	0	0	0	0	0	0	0	0	68
HOLBROOK	371	317	85	311	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	75
HOLDEN	630	462	73	459	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	61
HOLLAND	57	54	95	51	94	NS	NS	0	0	0	0	NS	NS	0	0	70

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**Screening and Prevalence of Childhood Blood Lead Levels for Children 9 months to less than 4 years of age by Community**

Calendar Year 2016: January 01, 2016- December 31, 2016

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
HOLLISTON	385	328	85	323	98	NS	NS	0	0	0	0	NS	NS	0	0	73
HOLYOKE	1968	1410	72	1368	97	37	3	5	<1	0	0	34	2	5	0	84
HOPEDALE	155	133	86	128	96	NS	NS	NS	NS	0	0	NS	NS	NS	NS	59
HOPKINTON	398	442	>99	433	98	8	2	NS	NS	0	0	NS	NS	NS	NS	42
HUBBARDSTON	105	62	59	62	100	0	0	0	0	0	0	0	0	0	0	35
HUDSON	703	510	73	501	98	7	1	NS	NS	0	0	6	1	NS	NS	62
HULL	202	173	86	168	97	NS	NS	NS	NS	0	0	NS	NS	NS	NS	76
HUNTINGTON	72	50	69	45	90	NS	NS	0	0	0	0	NS	NS	0	0	66
IPSWICH	302	233	77	230	99	NS	NS	0	0	0	0	NS	NS	0	0	67
KINGSTON	334	348	>99	343	99	NS	NS	0	0	0	0	NS	NS	0	0	51
LAKEVILLE	265	276	>99	273	99	NS	NS	0	0	0	0	NS	NS	0	0	46
LANCASTER	189	139	74	133	96	6	4	0	0	0	0	NS	NS	0	0	76
LANESBOROUGH	100	52	52	51	98	NS	NS	0	0	0	0	0	0	0	0	71
LAWRENCE	4203	3228	77	3142	97	69	2	14	<1	3	<1	81	3	17	1	82
LEE	152	90	59	85	94	NS	NS	0	0	NS	NS	NS	NS	NS	NS	71

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
LEICESTER	301	231	77	226	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	67
LENOX	123	59	48	56	95	NS	NS	0	0	0	0	NS	NS	0	0	68
LEOMINSTER	1346	1130	84	1102	98	23	2	NS	NS	0	0	24	2	NS	NS	66
LEVERETT	44	27	61	26	96	NS	NS	0	0	0	0	0	0	0	0	59
LEXINGTON	789	533	68	531	100	NS	NS	NS	NS	0	0	NS	NS	NS	NS	73
LEYDEN	11	3	27	NS	NS	0	0	0	0	0	0	0	0	0	0	57
LINCOLN	74	99	>99	99	100	0	0	0	0	0	0	0	0	0	0	55
LITTLETON	269	232	86	230	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	57
LONGMEADOW	388	303	78	300	99	NS	NS	0	0	0	0	NS	NS	0	0	83
LOWELL	5268	3918	74	3790	97	104	3	20	1	4	<1	111	3	23	1	79
LUDLOW	526	380	72	375	99	NS	NS	0	0	0	0	NS	NS	0	0	66
LUNENBURG	313	227	73	222	98	NS	NS	0	0	0	0	NS	NS	0	0	62
LYNN	4499	3796	84	3607	95	167	4	22	1	0	0	137	4	21	1	88
LYNNFIELD	248	377	>99	374	99	NS	NS	0	0	0	0	NS	NS	0	0	72
MALDEN	2679	2033	76	1973	97	50	2	8	<1	2	<1	46	2	9	0	79

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
MANCHESTER	138	85	62	82	96	NS	NS	0	0	0	0	NS	NS	0	0	80
MANSFIELD	525	588	>99	580	99	7	1	NS	NS	0	0	NS	NS	NS	NS	47
MARBLEHEAD	508	459	90	451	98	8	2	0	0	0	0	NS	NS	0	0	86
MARION	109	103	94	101	98	NS	NS	0	0	0	0	NS	NS	0	0	56
MARLBOROUGH	1733	1177	68	1162	99	11	1	NS	NS	0	0	10	1	NS	NS	61
MARSHFIELD	729	611	84	607	99	NS	NS	0	0	0	0	NS	NS	0	0	65
MASHPEE	376	271	72	266	98	NS	NS	0	0	0	0	NS	NS	0	0	29
MATTAPOISETT	112	99	88	95	96	NS	NS	NS	NS	0	0	NS	NS	0	0	77
MAYNARD	507	285	56	281	99	NS	NS	0	0	0	0	NS	NS	0	0	74
MEDFIELD	204	374	>99	374	100	0	0	0	0	0	0	0	0	0	0	63
MEDFORD	2015	1561	77	1530	98	27	2	4	<1	0	0	27	2	4	0	83
MEDWAY	296	312	>99	307	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	60
MELROSE	978	991	>99	968	98	21	2	NS	NS	0	0	19	2	NS	NS	85
MENDON	141	100	71	98	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	40
MERRIMAC	63	150	>99	142	95	6	4	NS	NS	0	0	7	5	NS	NS	51

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
METHUEN	1874	1221	65	1204	99	16	1	0	0	1	<1	17	1	1	0	63
MIDDLEBOROUGH	802	588	73	574	98	11	2	NS	NS	0	0	10	2	NS	NS	50
MIDDLEFIELD	13	2	15	NS	NS	0	0	0	0	0	0	0	0	0	0	38
MIDDLETON	188	192	>99	191	99	NS	NS	0	0	0	0	0	0	0	0	46
MILFORD	1224	865	71	832	96	27	3	6	1	0	0	30	3	6	1	67
MILLBURY	445	298	67	295	99	NS	NS	0	0	0	0	NS	NS	0	0	65
MILLIS	220	174	79	172	99	NS	NS	0	0	0	0	NS	NS	0	0	59
MILLVILLE	81	51	63	50	98	NS	NS	0	0	0	0	NS	NS	0	0	61
MILTON	929	818	88	802	98	14	2	NS	NS	0	0	15	2	NS	NS	83
MONROE	-1	1	>99	NS	NS	0	0	0	0	0	0	0	0	0	0	64
MONSON	179	155	87	149	96	6	4	0	0	0	0	NS	NS	0	0	58
MONTAGUE	271	166	61	161	97	NS	NS	0	0	0	0	NS	NS	0	0	75
MONTEREY	35	6	17	6	100	0	0	0	0	0	0	0	0	0	0	57
MONTGOMERY	32	8	25	8	100	0	0	0	0	0	0	0	0	0	0	55
MOUNT WASHINGTON	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
NAHANT	53	53	100	49	92	NS	NS	NS	NS	0	0	NS	NS	NS	NS	89
NANTUCKET	516	206	40	196	95	8	4	NS	NS	0	0	NS	NS	NS	NS	39
NATICK	1385	1021	74	1010	99	6	1	NS	NS	0	0	11	1	NS	NS	69
NEEDHAM	1083	929	86	921	99	8	1	0	0	0	0	7	1	0	0	74
NEW ASHFORD	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
NEW BEDFORD	4521	3600	80	3374	94	192	5	31	1	3	<1	171	5	33	1	85
NEW BRAintree	30	12	40	12	100	0	0	0	0	0	0	0	0	0	0	49
NEW MARLBOROUGH	27	11	41	10	91	NS	NS	0	0	0	0	0	0	0	0	62
NEW SALEM	21	8	38	8	100	0	0	0	0	0	0	0	0	0	0	55
NEWBURY	146	113	77	107	95	6	5	0	0	0	0	NS	NS	0	0	54
NEWBURYPORT	544	363	67	355	98	7	2	NS	NS	0	0	7	2	NS	NS	73
NEWTON	3028	2168	72	2147	99	18	1	2	<1	1	<1	16	1	3	0	84
NORFOLK	211	281	>99	278	99	NS	NS	0	0	0	0	NS	NS	0	0	44
NORTH ADAMS	471	407	86	380	93	25	6	0	0	NS	NS	15	4	NS	NS	85
NORTH ANDOVER	981	778	79	769	99	9	1	0	0	0	0	7	1	0	0	56



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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
NORTH ATTLEBORO	1144	687	60	665	97	20	3	NS	NS	0	0	15	2	NS	NS	60
NORTH BROOKFIELD	185	100	54	97	97	NS	NS	NS	NS	0	0	NS	NS	0	0	73
NORTH READING	376	388	>99	386	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	57
NORTHAMPTON	659	455	69	439	96	13	3	NS	NS	0	0	16	4	NS	NS	78
NORTHBOROUGH	290	402	>99	399	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	56
NORTHBRIDGE	684	394	58	384	97	8	2	NS	NS	0	0	9	2	NS	NS	66
NORTHFIELD	53	35	66	35	100	0	0	0	0	0	0	0	0	0	0	68
NORTON	468	432	92	431	100	0	0	NS	NS	0	0	0	0	0	0	47
NORWELL	336	321	96	320	100	NS	NS	0	0	0	0	0	0	0	0	70
NORWOOD	1196	947	79	927	98	17	2	NS	NS	NS	NS	12	1	NS	NS	77
OAK BLUFFS	188	40	21	37	92	NS	NS	0	0	0	0	NS	NS	0	0	49
OAKHAM	29	36	>99	35	97	NS	NS	0	0	0	0	NS	NS	0	0	45
ORANGE	293	92	31	84	91	NS	NS	NS	NS	0	0	7	8	NS	NS	69
ORLEANS	101	54	53	54	100	0	0	0	0	0	0	0	0	0	0	52
OTIS	51	15	29	13	87	NS	NS	0	0	0	0	NS	NS	0	0	61

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
OXFORD	490	328	67	324	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	66
PALMER	308	264	86	250	95	12	5	NS	NS	0	0	13	5	NS	NS	69
PAXTON	161	60	37	59	98	NS	NS	0	0	0	0	0	0	0	0	71
PEABODY	1488	1407	95	1390	99	15	1	2	<1	0	0	8	1	1	0	66
PELHAM	37	31	84	31	100	0	0	0	0	0	0	0	0	0	0	64
PEMBROKE	523	417	80	416	100	NS	NS	0	0	0	0	0	0	0	0	59
PEPPERELL	286	218	76	215	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	49
PERU	15	7	47	7	100	0	0	0	0	0	0	0	0	0	0	44
PETERSHAM	35	11	31	8	73	NS	NS	NS	NS	0	0	NS	NS	NS	NS	67
PHILLIPSTON	40	14	35	14	100	0	0	0	0	0	0	0	0	0	0	49
PITTSFIELD	1649	1179	71	1122	95	48	4	7	1	NS	NS	31	3	9	1	83
PLAINFIELD	21	9	43	8	89	NS	NS	0	0	0	0	NS	NS	0	0	63
PLAINVILLE	285	219	77	218	100	NS	NS	0	0	0	0	0	0	0	0	55
PLYMOUTH	1946	960	49	953	99	7	1	0	0	0	0	NS	NS	0	0	54
PLYMPTON	60	76	>99	75	99	NS	NS	0	0	0	0	0	0	0	0	51

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
PRINCETON	67	57	85	57	100	0	0	0	0	0	0	0	0	0	0	62
PROVINCETOWN	39	16	41	15	94	0	0	NS	NS	0	0	NS	NS	NS	NS	72
QUINCY	3386	2732	81	2677	98	40	1	13	<1	2	<1	49	2	15	1	72
RANDOLPH	1252	880	70	866	98	11	1	NS	NS	0	0	11	1	NS	NS	69
RAYNHAM	486	396	81	389	98	6	2	NS	NS	0	0	NS	NS	0	0	47
READING	904	676	75	671	99	NS	NS	0	0	0	0	NS	NS	0	0	76
REHOBOTH	327	217	66	210	97	6	3	NS	NS	0	0	6	3	NS	NS	55
REVERE	2314	1988	86	1944	98	40	2	4	<1	0	0	31	2	4	0	74
RICHMOND	3	11	>99	11	100	0	0	0	0	0	0	0	0	0	0	71
ROCHESTER	123	108	88	105	97	NS	NS	0	0	0	0	NS	NS	0	0	42
ROCKLAND	686	532	78	517	97	15	3	0	0	0	0	11	2	0	0	67
ROCKPORT	101	112	>99	107	96	NS	NS	0	0	0	0	NS	NS	0	0	77
ROWE	17	1	6	NS	NS	0	0	0	0	0	0	0	0	0	0	74
ROWLEY	172	119	69	116	97	NS	NS	0	0	0	0	NS	NS	0	0	53
ROYALSTON	33	21	64	18	86	NS	NS	0	0	0	0	NS	NS	0	0	58

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
RUSSELL	61	25	41	22	88	NS	NS	NS	NS	0	0	NS	NS	0	0	74
RUTLAND	307	202	66	198	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	47
SALEM	1509	1181	78	1134	96	43	4	NS	NS	NS	NS	30	3	NS	NS	79
SALISBURY	201	156	78	154	99	NS	NS	0	0	0	0	NS	NS	0	0	60
SANDISFIELD	32	14	44	12	86	NS	NS	0	0	0	0	NS	NS	0	0	58
SANDWICH	434	370	85	365	99	NS	NS	0	0	0	0	NS	NS	0	0	46
SAUGUS	747	643	86	635	99	8	1	0	0	0	0	7	1	0	0	72
SAVOY	14	3	21	NS	NS	0	0	0	0	0	0	0	0	0	0	48
SCITUATE	470	524	>99	518	99	NS	NS	NS	NS	0	0	NS	NS	NS	NS	74
SEEKONK	284	260	92	256	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	67
SHARON	406	408	>99	401	98	7	2	0	0	0	0	NS	NS	0	0	60
SHEFFIELD	47	59	>99	51	86	8	14	0	0	0	0	6	10	0	0	67
SHELBURNE	47	55	>99	53	96	NS	NS	0	0	0	0	NS	NS	0	0	83
SHERBORN	53	87	>99	86	99	NS	NS	0	0	0	0	0	0	0	0	68
SHIRLEY	193	126	65	125	99	NS	NS	0	0	0	0	NS	NS	0	0	48

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
SHREWSBURY	1125	1010	90	991	98	13	1	NS	NS	NS	NS	18	2	6	1	57
SHUTESBURY	40	19	48	18	95	NS	NS	0	0	0	0	NS	NS	0	0	49
SOMERSET	543	327	60	320	98	6	2	NS	NS	0	0	NS	NS	NS	NS	79
SOMERVILLE	2258	1866	83	1831	98	28	2	7	<1	0	0	26	1	7	0	88
SOUTH HADLEY	392	311	79	305	98	6	2	0	0	0	0	NS	NS	0	0	70
SOUTHAMPTON	158	119	75	118	99	NS	NS	0	0	0	0	NS	NS	0	0	48
SOUTHBOROUGH	187	253	>99	249	98	NS	NS	0	0	0	0	NS	NS	0	0	51
SOUTHBRIDGE	602	401	67	383	96	11	3	7	2	0	0	14	3	6	1	80
SOUTHWICK	208	191	92	188	98	NS	NS	0	0	0	0	NS	NS	0	0	53
SPENCER	347	274	79	269	98	NS	NS	0	0	0	0	NS	NS	0	0	71
SPRINGFIELD	7269	5121	70	4860	95	213	4	44	1	4	<1	218	4	47	1	84
STERLING	217	143	66	143	100	0	0	0	0	0	0	0	0	0	0	57
STOCKBRIDGE	20	20	100	17	85	NS	NS	NS	NS	0	0	NS	NS	NS	NS	78
STONEHAM	589	586	99	569	97	16	3	NS	NS	0	0	11	2	NS	NS	73
STOUGHTON	962	747	78	725	97	18	2	NS	NS	0	0	18	2	NS	NS	69

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**Screening and Prevalence of Childhood Blood Lead Levels for Children 9 months to less than 4 years of age by Community**

*Calendar Year 2016: January 01, 2016- December 31, 2016*

Community	Population 9-47 mo. <sup>1</sup>	Total Screened	Percent Screened	Blood Lead Levels <sup>2</sup> (µg/dL)								Estimated Confirmed ≥5 <sup>3</sup>		Confirmed Elevated ≥10 <sup>4</sup>		Percent Pre-1978 Housing Units <sup>5</sup>
				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
STOW	219	155	71	153	99	NS	NS	0	0	0	0	NS	NS	0	0	56
STURBRIDGE	465	230	49	222	97	NS	NS	NS	NS	0	0	7	3	NS	NS	42
SUDBURY	406	416	>99	416	100	0	0	0	0	0	0	0	0	0	0	61
SUNDERLAND	70	51	73	51	100	0	0	0	0	0	0	0	0	0	0	61
SUTTON	181	187	>99	184	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	49
SWAMPSCOTT	431	402	93	394	98	8	2	0	0	0	0	NS	NS	0	0	85
SWANSEA	447	276	62	268	97	7	3	NS	NS	0	0	NS	NS	NS	NS	69
TAUNTON	2093	1656	79	1618	98	32	2	6	<1	0	0	28	2	5	0	65
TEMPLETON	309	148	48	142	96	6	4	0	0	0	0	NS	NS	0	0	52
TEWKSBURY	741	647	87	640	99	6	1	NS	NS	0	0	NS	NS	NS	NS	51
TISBURY	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
TOLLAND	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
TOPSFIELD	100	139	>99	139	100	0	0	0	0	0	0	0	0	0	0	77
TOWNSEND	223	181	81	173	96	NS	NS	NS	NS	0	0	6	3	NS	NS	62
TRURO	33	16	48	15	94	NS	NS	0	0	0	0	NS	NS	0	0	55

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
TYNGSBOROUGH	218	289	>99	285	99	NS	NS	0	0	0	0	NS	NS	0	0	38
TYRINGHAM	1	2	>99	NS	NS	0	0	0	0	0	0	0	0	0	0	54
UPTON	183	150	82	148	99	NS	NS	0	0	0	0	NS	NS	0	0	53
UXBRIDGE	473	242	51	239	99	NS	NS	0	0	0	0	NS	NS	0	0	49
WAKEFIELD	846	736	87	717	97	19	3	0	0	0	0	14	2	0	0	80
WALES	72	36	50	33	92	NS	NS	0	0	0	0	NS	NS	0	0	58
WALPOLE	719	725	>99	715	99	9	1	NS	NS	0	0	6	1	NS	NS	55
WALTHAM	2272	1591	70	1563	98	24	2	4	<1	0	0	24	2	4	0	75
WARE	412	191	46	175	92	11	6	NS	NS	0	0	16	8	NS	NS	66
WAREHAM	761	485	64	472	97	13	3	0	0	0	0	7	1	0	0	72
WARREN	194	82	42	76	93	6	7	0	0	0	0	6	7	0	0	64
WARWICK	12	7	58	7	100	0	0	0	0	0	0	0	0	0	0	65
WASHINGTON	9	10	>99	10	100	0	0	0	0	0	0	0	0	0	0	50
WATERTOWN	1342	885	66	866	98	16	2	NS	NS	0	0	17	2	NS	NS	81
WAYLAND	285	386	>99	385	100	0	0	NS	NS	0	0	NS	NS	NS	NS	78

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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%					
WEBSTER	653	481	74	473	98	6	1	NS	NS	0	0	7	1	NS	NS	75
WELLESLEY	856	642	75	635	99	7	1	0	0	0	0	NS	NS	0	0	80
WELLFLEET	43	28	65	25	89	NS	NS	0	0	0	0	NS	NS	0	0	53
WENDELL	21	12	57	11	92	NS	NS	0	0	0	0	NS	NS	0	0	49
WENHAM	59	94	>99	91	97	NS	NS	NS	NS	0	0	NS	NS	NS	NS	73
WEST BOYLSTON	155	135	87	134	99	NS	NS	0	0	0	0	NS	NS	0	0	69
WEST BRIDGEWATER	175	218	>99	216	99	0	0	NS	NS	0	0	NS	NS	NS	NS	73
WEST BROOKFIELD	83	66	80	63	95	NS	NS	NS	NS	0	0	NS	NS	NS	NS	61
WEST NEWBURY	78	94	>99	92	98	NS	NS	0	0	0	0	NS	NS	0	0	56
WEST SPRINGFIELD	1122	812	72	786	97	24	3	NS	NS	0	0	22	3	NS	NS	79
WEST STOCKBRIDGE	11	19	>99	16	84	NS	NS	NS	NS	0	0	NS	NS	NS	NS	58
WEST TISBURY	78	15	19	15	100	0	0	0	0	0	0	0	0	0	0	28
WESTBOROUGH	609	629	>99	611	97	13	2	NS	NS	NS	NS	18	3	NS	NS	56
WESTFIELD	1389	935	67	898	96	29	3	8	1	0	0	34	4	7	1	72
WESTFORD	371	475	>99	467	98	7	1	NS	NS	0	0	8	2	NS	NS	43



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				0-4		5-9		10-24		≥25		N	%	N	%		
				N	%	N	%	N	%	N	%						
WESTHAMPTON	47	28	60	28	100	0	0	0	0	0	0	0	0	0	0	0	55
WESTMINSTER	165	159	96	156	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	60
WESTON	213	191	90	188	98	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	69
WESTPORT	406	308	76	301	98	7	2	0	0	0	0	NS	NS	0	0	0	62
WESTWOOD	357	365	>99	363	99	NS	NS	0	0	0	0	NS	NS	0	0	0	69
WEYMOUTH	2041	1542	76	1513	98	23	1	5	<1	1	<1	21	1	5	0	0	75
WHATELY	41	12	29	12	100	0	0	0	0	0	0	0	0	0	0	0	61
WHITMAN	661	428	65	416	97	11	3	NS	NS	0	0	9	2	NS	NS	NS	79
WILBRAHAM	302	304	>99	302	99	NS	NS	0	0	0	0	NS	NS	0	0	0	74
WILLIAMSBURG	75	66	88	63	95	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	68
WILLIAMSTOWN	131	94	72	92	98	NS	NS	0	0	0	0	NS	NS	0	0	0	79
WILMINGTON	715	555	78	553	100	NS	NS	0	0	0	0	NS	NS	0	0	0	58
WINCHENDON	282	196	70	190	97	6	3	0	0	0	0	NS	NS	0	0	0	59
WINCHESTER	809	625	77	618	99	7	1	0	0	0	0	NS	NS	0	0	0	79
WINDSOR	2	9	>99	9	100	0	0	0	0	0	0	0	0	0	0	0	53



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				0-4		5-9		10-24		≥25		N	%	N	%	
				N	%	N	%	N	%	N	%	N	%	N	%	
WINTHROP	564	479	85	463	97	14	3	NS	NS	0	0	10	2	NS	NS	90
WOBURN	1591	1141	72	1108	97	29	3	NS	NS	NS	NS	20	2	NS	NS	72
WORCESTER	8108	5929	73	5708	96	192	3	28	<1	1	<1	200	3	29	0	79
WORTHINGTON	10	13	>99	10	77	NS	NS	0	0	0	0	NS	NS	0	0	70
WRENTHAM	271	262	97	259	99	NS	NS	0	0	0	0	NS	NS	0	0	46
YARMOUTH	660	413	63	401	97	12	3	0	0	0	0	NS	NS	0	0	68
<b>Total for MA</b>	<b>227,918</b>	<b>175,354</b>	<b>77</b>	<b>170,862</b>	<b>97</b>	<b>3,806</b>	<b>2</b>	<b>629</b>	<b>&lt;1</b>	<b>57</b>	<b>&lt;1</b>	<b>3,500</b>	<b>2</b>	<b>651</b>	<b>&lt;1</b>	<b>71</b>

**Comments:**

N = number (counts of children)

NS = number or prevalence is not shown when N is between 1-5 and total screened is less than 1,200. These small numbers are suppressed to protect privacy.

**Footnotes:**

<sup>1</sup>According to MA state regulation (105 CMR 460.050) children are not required to be screened until 9 months of age. Population count is obtained from 2016 extrapolations of the US Census Bureau's 2000 and 2010 population estimates and includes children 9 to 47 months of age.

<sup>2</sup>Blood lead levels include both confirmed and unconfirmed blood lead specimens. Refer to the data description for definitions and practice guidelines.

<sup>3</sup>The CDC uses a reference level of 5 µg/dL to identify children whose blood lead levels are higher than 97.5% of all U.S. children's levels, based on the National Health and Nutrition Examination Survey (NHANES). There is no safe blood lead level. The number of children with estimated confirmed ≥5 µg/dL blood lead levels is calculated as the sum of those with confirmed blood lead levels ≥5 µg/dL and a proportion of those having unconfirmed blood lead levels ≥5 µg/dL.

<sup>4</sup>MA CLPPP defines a confirmed elevated blood lead level as a single venous blood specimen ≥10 µg/dL or 2 capillary blood specimens ≥10 µg/dL drawn within 12 weeks of each other.

<sup>5</sup>Percentage of housing units built prior to 1978 as estimated by the 2011-2015 American Community Survey.