



Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of December 16, 2016

Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Blood lead level testing is an important part of our efforts to identify people who have been harmed by drinking water that contained lead. However, MDHHS recognizes that the full community of Flint must be the focus of the public health response.
- People who have had multiple tests are counted only once per year for the annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years.
- Counts on this report include both capillary and venous blood tests.
- As of 5/2/2016, this report will no longer include test results for “Additional Impacted Locations” (48509, 48519, 48529, and 48532) because it has been demonstrated by CDC geographers that almost none of the addresses in these areas are serviced by water from the Flint River.
- Between 10/1/2015 and 12/16/2016, 31,261 people were tested in Flint zip codes 48501-48507.
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 233 children under age 18 in Flint zip codes 48501-48507 with blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood) since 10/1/2015.
- Of children younger than 6 years old tested between 10/1/2015 and 12/16/2016, 2.6% from Flint zip codes 48501-48507 had blood lead levels greater than or equal to 5 mcg/dL.
- Five of the 23 (21.7%) children younger than 6 years old from Flint zip codes 48501-48507 with an elevated blood lead level (tested between 10/1/2016 and 12/16/2016) in Quarter 4 of 2016 had a previous test result greater than or equal to 5 mcg/dL.

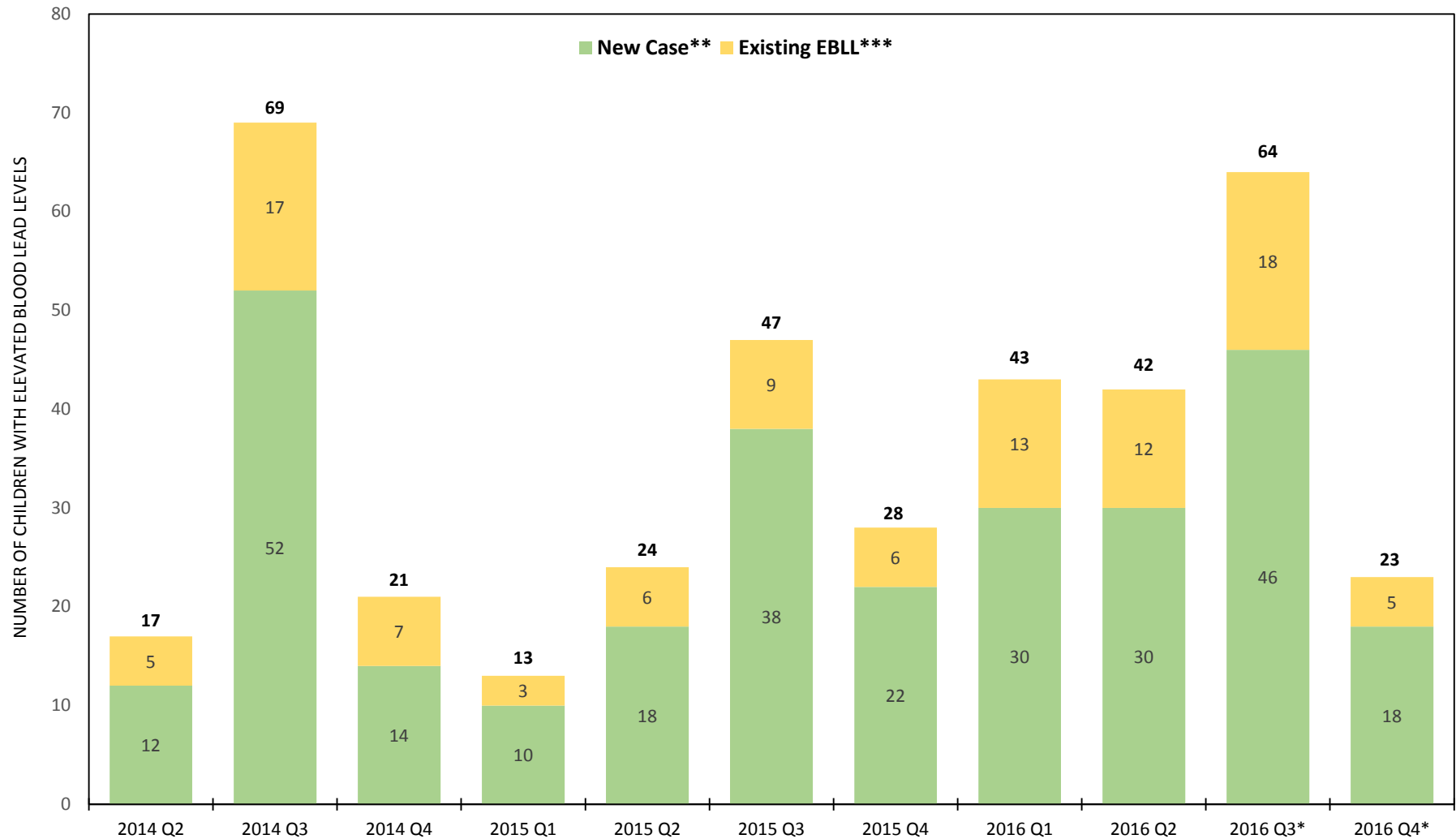
Annual Incidence of Elevated Blood Lead ≥ 5 mcg/dL among Children <6 Years of Age by Quarter, Michigan, 2010 - 2016



*Data for Quarter 3 of 2016 are incomplete and subject to change.

People who have had multiple tests are counted only once per year for annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years. Counts on this report include both capillary and venous blood tests.

Elevated Blood Lead Levels (≥ 5 mcg/dL) among Children <6 Years of Age by Quarter, Flint (48501-48507), 4/1/14 - 12/16/2016 *



* Data for Quarters 3 and 4 of 2016 are incomplete and subject to change.

** Child has never had a previous elevated blood lead level

*** Child has a pre-existing elevated blood lead level that has not yet been brought down to <5 mcg/dL

People who have had multiple tests are counted only once per year for annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years. Counts on this report include both capillary and venous blood tests.

Table 1. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children less than 6 years of age, 2010 – 2016

		Michigan	Genesee County	Flint 48501-48507
1/1/2010 to 12/31/2010	Total tested for lead	156,015	7,053	3,630
	Number of test results ≥ 5 mcg/dL	9,754	306	230
	Percent of test results ≥ 5 mcg/dL	6.3%	4.3%	6.3%
1/1/2011 to 12/31/2011	Total tested for lead	152,334	6,760	3,145
	Number of test results ≥ 5 mcg/dL	7,571	252	182
	Percent of test results ≥ 5 mcg/dL	5.0%	3.7%	5.8%
1/1/2012 to 12/31/2012	Total tested for lead	149,061	7,152	3,198
	Number of test results ≥ 5 mcg/dL	6,834	210	130
	Percent of test results ≥ 5 mcg/dL	4.6%	2.9%	4.1%
1/1/2013 to 12/31/2013	Total tested for lead	148,684	7,133	3,143
	Number of test results ≥ 5 mcg/dL	5,747	158	96
	Percent of test results ≥ 5 mcg/dL	3.9%	2.2%	3.1%
1/1/2014 to 12/31/2014	Total tested for lead	143,987	6,820	3,102
	Number of test results ≥ 5 mcg/dL	5,063	178	122
	Percent of test results ≥ 5 mcg/dL	3.5%	2.6%	3.9%
1/1/2015 to 12/31/2015	Total tested for lead*	140,920	6,983	3,388
	Number of test results ≥ 5 mcg/dL	4,792	160	112
	Percent of test results ≥ 5 mcg/dL	3.4%	2.3%	3.3%
10/1/2015 to 12/16/2016	Total tested for lead*	176,654	12,944	7,323
	Number of test results ≥ 5 mcg/dL	6,360	235	189
	Percent of test results ≥ 5 mcg/dL	3.6%	1.8%	2.6%
4/1/2014 to 12/16/2016	Total tested for lead*	344,975	19,719	9,916
	Number of test results ≥ 5 mcg/dL	12,686	435	316
	Percent of test results ≥ 5 mcg/dL	3.7%	2.2%	3.2%
1/1/2016 to 12/16/2016	Total tested for lead*	150,011	11,386	6,504
	Number of test results ≥ 5 mcg/dL	5,524	210	172
	Percent of test results ≥ 5 mcg/dL	3.7%	1.8%	2.6%

Table 2. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children 6 to 17 years of age, 2010 – 2016

		Michigan	Genesee County	Flint 48501-48507
1/1/2010 to 12/31/2010	Total tested for lead	14,730	760	400
	Number of test results ≥ 5 mcg/dL	665	17	12
	Percent of test results ≥ 5 mcg/dL	4.5%	2.2%	3.0%
1/1/2011 to 12/31/2011	Total tested for lead	12,959	959	499
	Number of test results ≥ 5 mcg/dL	474	19	13
	Percent of test results ≥ 5 mcg/dL	3.7%	2.0%	2.6%
1/1/2012 to 12/31/2012	Total tested for lead	12,711	1,259	561
	Number of test results ≥ 5 mcg/dL	351	13	9
	Percent of test results ≥ 5 mcg/dL	2.8%	1.0%	1.6%
1/1/2013 to 12/31/2013	Total tested for lead	11,449	1,109	505
	Number of test results ≥ 5 mcg/dL	271	7	3
	Percent of test results ≥ 5 mcg/dL	2.4%	0.6%	0.6%
1/1/2014 to 12/31/2014	Total tested for lead	10,563	788	372
	Number of test results ≥ 5 mcg/dL	285	6	5
	Percent of test results ≥ 5 mcg/dL	2.7%	0.8%	1.3%
1/1/2015 to 12/31/2015	Total tested for lead*	10,416	1,570	1,084
	Number of test results ≥ 5 mcg/dL	254	10	8
	Percent of test results ≥ 5 mcg/dL	2.4%	0.6%	0.7%
10/1/2015 to 12/16/2016	Total tested for lead*	26,313	10,322	7,826
	Number of test results ≥ 5 mcg/dL	463	56	44
	Percent of test results ≥ 5 mcg/dL	1.8%	0.5%	0.6%
4/1/2014 to 12/16/2016	Total tested for lead*	39,869	11,192	8,197
	Number of test results ≥ 5 mcg/dL	753	60	46
	Percent of test results ≥ 5 mcg/dL	1.9%	0.5%	0.6%
1/1/2016 to 12/16/2016	Total tested for lead*	23,529	9,546	7,230
	Number of test results ≥ 5 mcg/dL	410	52	39
	Percent of test results ≥ 5 mcg/dL	1.7%	0.5%	0.5%

Table 3. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among adults at least 18 years of age, 2010 – 2016

		Michigan	Genesee County	Flint 48501-48507
1/1/2010 to 12/31/2010	Total tested for lead	13,681	588	188
	Number of test results ≥ 5 mcg/dL	1,459	42	18
	Percent of test results ≥ 5 mcg/dL	10.7%	7.1%	9.6%
1/1/2011 to 12/31/2011	Total tested for lead	13,112	528	132
	Number of test results ≥ 5 mcg/dL	1,367	43	16
	Percent of test results ≥ 5 mcg/dL	10.4%	8.1%	12.1%
1/1/2012 to 12/31/2012	Total tested for lead	12,912	539	148
	Number of test results ≥ 5 mcg/dL	1,413	33	11
	Percent of test results ≥ 5 mcg/dL	10.9%	6.1%	7.4%
1/1/2013 to 12/31/2013	Total tested for lead	12,081	484	132
	Number of test results ≥ 5 mcg/dL	1,499	54	16
	Percent of test results ≥ 5 mcg/dL	12.4%	11.2%	12.1%
1/1/2014 to 12/31/2014	Total tested for lead	12,576	436	111
	Number of test results ≥ 5 mcg/dL	1,419	44	12
	Percent of test results ≥ 5 mcg/dL	11.3%	10.1%	10.8%
1/1/2015 to 12/31/2015	Total tested for lead*	13,684	1,250	811
	Number of test results ≥ 5 mcg/dL	1,368	48	21
	Percent of test results ≥ 5 mcg/dL	10.0%	3.8%	2.6%
10/1/2015 to 12/16/2016	Total tested for lead*	38,868	20,549	16,112
	Number of test results ≥ 5 mcg/dL	1,828	322	258
	Percent of test results ≥ 5 mcg/dL	4.7%	1.6%	1.6%
4/1/2014 to 12/16/2016	Total tested for lead*	55,342	21,148	16,273
	Number of test results ≥ 5 mcg/dL	3,417	369	270
	Percent of test results ≥ 5 mcg/dL	6.2%	1.7%	1.7%
1/1/2016 to 12/16/2016	Total tested for lead*	35,583	19,808	15,553
	Number of test results ≥ 5 mcg/dL	1,578	302	247
	Percent of test results ≥ 5 mcg/dL	4.4%	1.5%	1.6%

Table 4. Total incidence of elevated blood lead levels (≥ 5 mcg/dL), 2010 – 2016

		Michigan	Genesee County	Flint 48501-48507
1/1/2010 to 12/31/2010	Total tested for lead	184,426	8,401	4,218
	Number of test results ≥ 5 mcg/dL	11,878	365	260
	Percent of test results ≥ 5 mcg/dL	6.4%	4.3%	6.2%
1/1/2011 to 12/31/2011	Total tested for lead	178,405	8,247	3,776
	Number of test results ≥ 5 mcg/dL	9,412	314	211
	Percent of test results ≥ 5 mcg/dL	5.3%	3.8%	5.6%
1/1/2012 to 12/31/2012	Total tested for lead	174,684	8,950	3,907
	Number of test results ≥ 5 mcg/dL	8,598	256	150
	Percent of test results ≥ 5 mcg/dL	4.9%	2.9%	3.8%
1/1/2013 to 12/31/2013	Total tested for lead	172,214	8,726	3,780
	Number of test results ≥ 5 mcg/dL	7,517	219	115
	Percent of test results ≥ 5 mcg/dL	4.4%	2.5%	3.0%
1/1/2014 to 12/31/2014	Total tested for lead	167,126	8,044	3,585
	Number of test results ≥ 5 mcg/dL	6,767	228	139
	Percent of test results ≥ 5 mcg/dL	4.0%	2.8%	3.9%
1/1/2015 to 12/31/2015	Total tested for lead*	165,020	9,803	5,283
	Number of test results ≥ 5 mcg/dL	6,414	218	141
	Percent of test results ≥ 5 mcg/dL	3.9%	2.2%	2.7%
10/1/2015 to 12/16/2016	Total tested for lead*	241,835	43,815	31,261
	Number of test results ≥ 5 mcg/dL	8,651	613	491
	Percent of test results ≥ 5 mcg/dL	3.6%	1.4%	1.6%
4/1/2014 to 12/16/2016	Total tested for lead*	440,186	52,059	34,386
	Number of test results ≥ 5 mcg/dL	16,856	864	632
	Percent of test results ≥ 5 mcg/dL	3.8%	1.7%	1.8%
1/1/2016 to 12/16/2016	Total tested for lead*	209,123	40,740	29,287
	Number of test results ≥ 5 mcg/dL	7,512	564	458
	Percent of test results ≥ 5 mcg/dL	3.6%	1.4%	1.6%