

Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of March 02, 2018*

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

Background

- Blood lead level testing is an important part of efforts to identify people who have been harmed by drinking water that contained lead, and from other sources of lead exposure in the home. MDHHS recognizes that the full community of Flint must be the focus of the public health response.

Data Presentation

- Counts in this report include both capillary and venous blood tests.
- People who have had multiple tests are counted only once per year or in the tables, per time period in the tables. People counted in one calendar year/time period who were tested again in the next calendar year/time period are counted in both years/time periods.

Summary of Findings

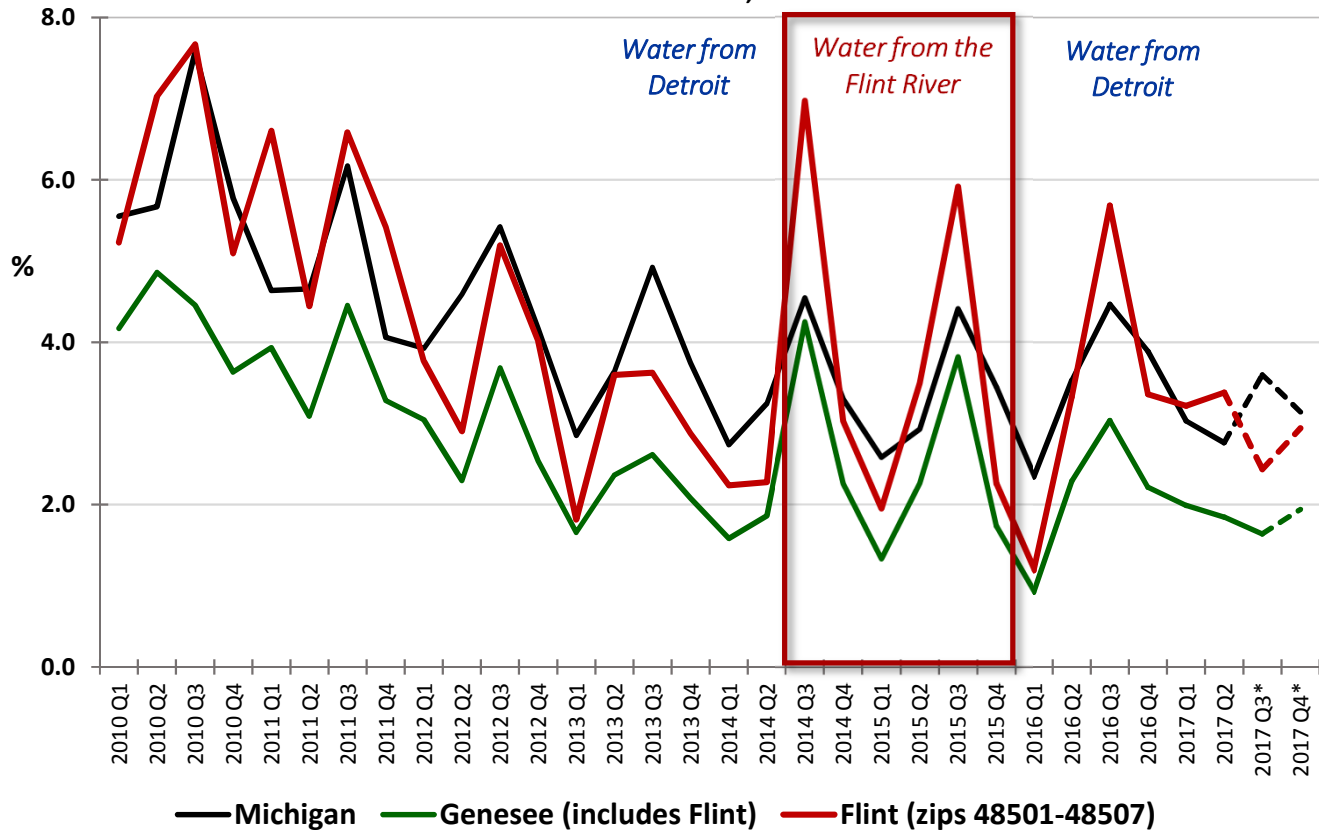
- Between 10/1/2015 and 03/02/2018, 37,053 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 295 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood).
- Of the 9,386 children younger than 6 years old tested since 10/1/2015, 2.7% had blood lead levels greater than or equal to 5 mcg/dL.
- Of the 92 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2017, 26 (28.3%) had a previous elevated blood lead test.

PLEASE NOTE: Changes in numbers of test results due to algorithm change

- * **Starting February 1, 2018**, this report includes blood lead test counts that are based on the use of a new algorithm for assigning unique identifiers to individuals in the surveillance database. This new algorithm is more efficient and accurate than the previous system used, and the numbers of test results reported in the current and future Blood Lead Level Test Results may be different than those presented in reports produced before February 1, 2018.

Annual Incidence of Elevated Blood Lead ≥ 5 mcg/dL among Children <6 Years of Age by Quarter, Michigan, 2010 - 2017*

*Data as of March 02, 2018



† Blood lead levels greater than 5 $\mu\text{g}/\text{dL}$ (micrograms per deciliter of blood) are classified as elevated. People who have had multiple tests are counted only once per year for annual counts. Counts on this report include both capillary and venous blood tests.

* Data for Quarters 3 and 4 of 2017 are provisional and subject to change.

Table 1. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children less than 6 years of age, 2014 – 2018

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2018 to 03/02/2018	Total tested for lead	20,451	881	421
		Number of test results ≥ 5 mcg/dL	669	21	19
		Percent of test results ≥ 5 mcg/dL	3.3%	2.4%	4.5%
	1/1/2017 to 12/31/2017	Total tested for lead	150,022	6,731	3,115
		Number of test results ≥ 5 mcg/dL	4,729	124	92
		Percent of test results ≥ 5 mcg/dL	3.2%	1.8%	3.0%
	1/1/2016 to 12/31/2016	Total tested for lead	158,015	11,713	6,627
		Number of test results ≥ 5 mcg/dL	5,674	211	171
		Percent of test results ≥ 5 mcg/dL	3.6%	1.8%	2.6%
	1/1/2015 to 12/31/2015	Total tested for lead	141,696	6,985	3,389
		Number of test results ≥ 5 mcg/dL	4,819	160	112
		Percent of test results ≥ 5 mcg/dL	3.4%	2.3%	3.3%
	1/1/2014 to 12/31/2014	Total tested for lead	144,182	6,819	3,099
		Number of test results ≥ 5 mcg/dL	5,089	178	121
		Percent of test results ≥ 5 mcg/dL	3.5%	2.6%	3.9%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	197,843	9,265	4,155
		Number of test results ≥ 5 mcg/dL	7,002	252	167
		Percent of test results ≥ 5 mcg/dL	3.5%	2.7%	4.0%
After Flint River Use	10/01/2015 to 03/02/2018	Total tested for lead	300,786	17,946	9,386
		Number of test results ≥ 5 mcg/dL	9,805	324	254
		Percent of test results ≥ 5 mcg/dL	3.3%	1.8%	2.7%

Table 2. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children 6 to 17 years of age, 2014 – 2018

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2018 to 03/02/2018	Total tested for lead	1,595	266	166
		Number of test results ≥ 5 mcg/dL	0	0	0
		Percent of test results ≥ 5 mcg/dL	0.0%	0.0%	0.0%
	1/1/2017 to 12/31/2017	Total tested for lead	13,688	2,496	1,670
		Number of test results ≥ 5 mcg/dL	281	16	13
		Percent of test results ≥ 5 mcg/dL	2.1%	0.6%	0.8%
	1/1/2016 to 12/31/2016	Total tested for lead	24,405	9,678	7,310
		Number of test results ≥ 5 mcg/dL	419	54	38
		Percent of test results ≥ 5 mcg/dL	1.7%	0.6%	0.5%
	1/1/2015 to 12/31/2015	Total tested for lead	10,449	1,569	1,083
		Number of test results ≥ 5 mcg/dL	254	9	7
		Percent of test results ≥ 5 mcg/dL	2.4%	0.6%	0.6%
	1/1/2014 to 12/31/2014	Total tested for lead	10,579	788	372
		Number of test results ≥ 5 mcg/dL	287	6	5
		Percent of test results ≥ 5 mcg/dL	2.7%	0.8%	1.3%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	14,907	1,176	580
		Number of test results ≥ 5 mcg/dL	352	8	6
		Percent of test results ≥ 5 mcg/dL	2.4%	0.7%	1.0%
After Flint River Use	10/01/2015 to 03/02/2018	Total tested for lead	39,774	12,233	8,932
		Number of test results ≥ 5 mcg/dL	656	55	41
		Percent of test results ≥ 5 mcg/dL	1.6%	0.4%	0.5%

Table 3. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among adults at least 18 years of age, 2014 - 2018

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2018 to 03/02/2018	Total tested for lead	3,041	783	450
		Number of test results ≥ 5 mcg/dL	246	13	5
		Percent of test results ≥ 5 mcg/dL	8.1%	1.7%	1.1%
	1/1/2017 to 12/31/2017	Total tested for lead	20,048	5,341	3,217
		Number of test results ≥ 5 mcg/dL	1,280	91	58
		Percent of test results ≥ 5 mcg/dL	6.4%	1.7%	1.8%
	1/1/2016 to 12/31/2016	Total tested for lead	36,953	20,218	15,738
		Number of test results ≥ 5 mcg/dL	1,643	307	246
		Percent of test results ≥ 5 mcg/dL	4.4%	1.5%	1.6%
	1/1/2015 to 12/31/2015	Total tested for lead	13,705	1,250	811
		Number of test results ≥ 5 mcg/dL	1,369	48	21
		Percent of test results ≥ 5 mcg/dL	10.0%	3.8%	2.6%
	1/1/2014 to 12/31/2014	Total tested for lead	12,578	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%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	18,327	672	202
		Number of test results ≥ 5 mcg/dL	1,857	56	15
		Percent of test results ≥ 5 mcg/dL	10.1%	8.3%	7.4%
After Flint River Use	10/01/2015 to 03/02/2018	Total tested for lead	58,590	25,422	18,735
		Number of test results ≥ 5 mcg/dL	2,820	384	290
		Percent of test results ≥ 5 mcg/dL	4.8%	1.5%	1.5%

Table 4. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among residents of all ages, 2014 – 2018

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2018 to 03/02/2018	Total tested for lead	25,087	1,930	1,037
		Number of test results ≥ 5 mcg/dL	946	34	24
		Percent of test results ≥ 5 mcg/dL	3.8%	1.8%	2.3%
	1/1/2017 to 12/31/2017	Total tested for lead	183,758	14,568	8,002
		Number of test results ≥ 5 mcg/dL	6,290	231	163
		Percent of test results ≥ 5 mcg/dL	3.4%	1.6%	2.0%
	1/1/2016 to 12/31/2016	Total tested for lead	219,373	41,609	29,675
		Number of test results ≥ 5 mcg/dL	7,736	572	455
		Percent of test results ≥ 5 mcg/dL	3.5%	1.4%	1.5%
	1/1/2015 to 12/31/2015	Total tested for lead	165,850	9,804	5,283
		Number of test results ≥ 5 mcg/dL	6,442	217	140
		Percent of test results ≥ 5 mcg/dL	3.9%	2.2%	2.7%
	1/1/2014 to 12/31/2014	Total tested for lead	167,339	8,043	3,582
		Number of test results ≥ 5 mcg/dL	6,795	228	138
		Percent of test results ≥ 5 mcg/dL	4.1%	2.8%	3.9%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	231,077	11,113	4,937
		Number of test results ≥ 5 mcg/dL	9,211	316	188
		Percent of test results ≥ 5 mcg/dL	4.0%	2.8%	3.8%
After Flint River Use	10/01/2015 to 03/02/2018	Total tested for lead	399,150	55,601	37,053
		Number of test results ≥ 5 mcg/dL	13,281	763	585
		Percent of test results ≥ 5 mcg/dL	3.3%	1.4%	1.6%