



Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan

Executive Summary as of December 29, 2017*

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.

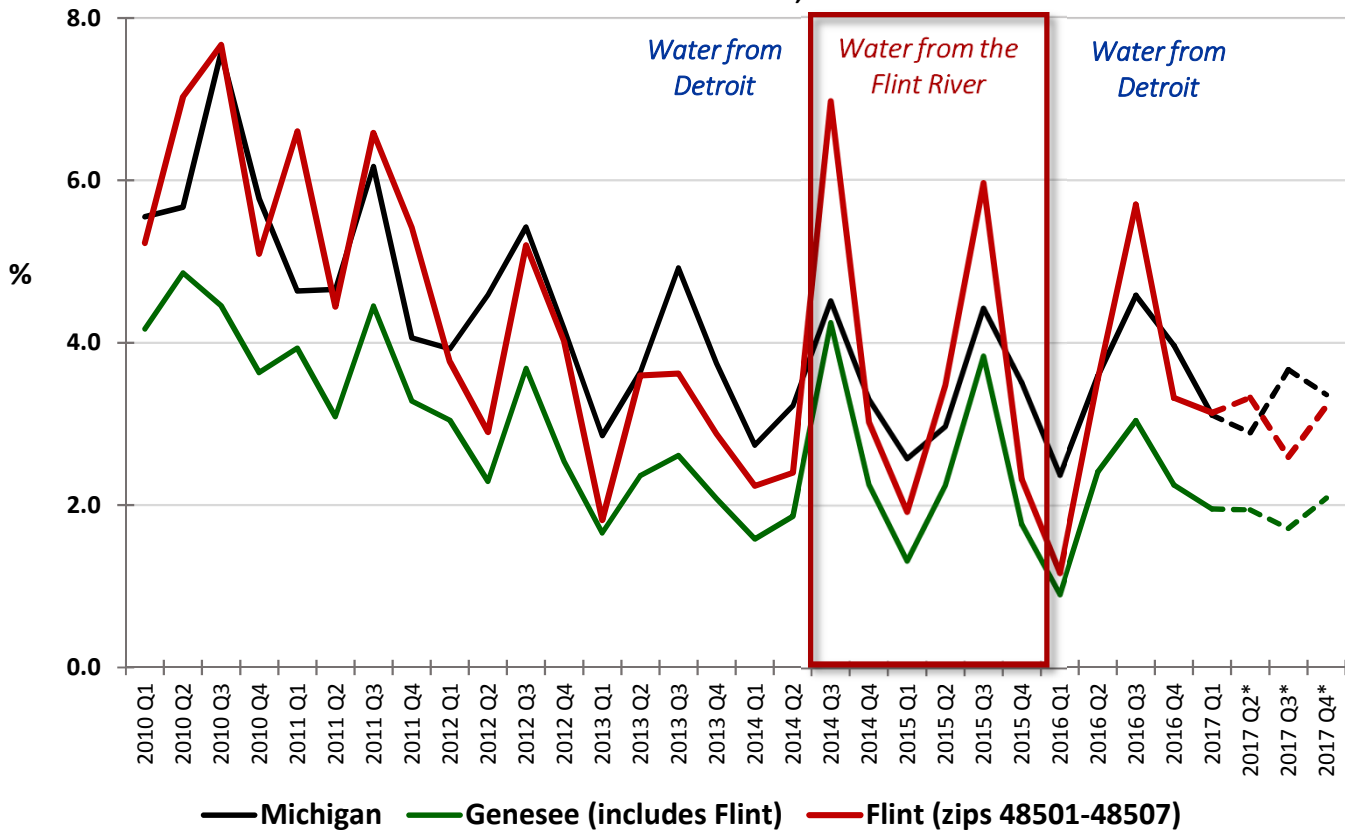
Summary of Findings

- Between 10/1/2015 and 12/29/2017, 36,714 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 302 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 9,224 children younger than 6 years old tested since 10/1/2015, 2.8% had blood lead levels greater than or equal to 5 mcg/dL.
- Of the 24 children younger than 6 from the Flint zip codes that had elevated blood lead levels in the second quarter of 2017 (April – June), 3 (14.3%) had a previous elevated blood lead test.

* **Starting July 11, 2017**, this report includes the following revisions: 1) The graph of the annual incidence of EBLL in Flint children under six now includes lines marking the time period when Flint River water was in use. 2) The bar chart of the numbers of new and existing EBLL cases is removed. 3) The tables of EBLL percentages no longer include data before 2014, and they now include numbers specifically for the time periods during and after Flint water usage, rather than the reporting period from April 2014 to the present.

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

*Data as of December 29, 2017



† 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 2, 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 – 2017

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2017 to 12/29/2017	Total tested for lead	117,943	5,324	2,451
		Number of test results ≥ 5 mcg/dL	3,827	99	73
		Percent of test results ≥ 5 mcg/dL	3.2%	1.9%	3.0%
	1/1/2016 to 12/31/2016	Total tested for lead	160,130	11,877	6,736
		Number of test results ≥ 5 mcg/dL	5,872	217	176
		Percent of test results ≥ 5 mcg/dL	3.7%	1.8%	2.6%
	1/1/2015 to 12/31/2015	Total tested for lead	142,759	7,036	3,419
		Number of test results ≥ 5 mcg/dL	4,900	162	114
		Percent of test results ≥ 5 mcg/dL	3.4%	2.3%	3.3%
	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%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	201,884	9,455	4,283
		Number of test results ≥ 5 mcg/dL	7,328	265	178
		Percent of test results ≥ 5 mcg/dL	3.6%	2.8%	4.2%
After Flint River Use	10/01/2015 to 12/29/2017	Total tested for lead	286,726	17,480	9,224
		Number of test results ≥ 5 mcg/dL	9,734	323	254
		Percent of test results ≥ 5 mcg/dL	3.4%	1.8%	2.8%

Table 2. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children 6 to 17 years of age, 2014 – 2017

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2017 to 12/29/2017	Total tested for lead	10,940	2,071	1,412
		Number of test results ≥ 5 mcg/dL	237	21	18
		Percent of test results ≥ 5 mcg/dL	2.2%	1.0%	1.3%
	1/1/2016 to 12/31/2016	Total tested for lead	24,675	9,789	7,399
		Number of test results ≥ 5 mcg/dL	434	61	45
		Percent of test results ≥ 5 mcg/dL	1.8%	0.6%	0.6%
	1/1/2015 to 12/31/2015	Total tested for lead	10,472	1,582	1,095
		Number of test results ≥ 5 mcg/dL	255	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	10,563	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%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	14,977	1,197	600
		Number of test results ≥ 5 mcg/dL	363	8	6
		Percent of test results ≥ 5 mcg/dL	2.4%	0.7%	1.0%
After Flint River Use	10/01/2015 to 12/29/2017	Total tested for lead	38,497	12,202	8,959
		Number of test results ≥ 5 mcg/dL	657	62	48
		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, 2014 - 2017

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2017 to 12/29/2017	Total tested for lead	15,432	4,288	2,615
		Number of test results ≥ 5 mcg/dL	1,015	71	51
		Percent of test results ≥ 5 mcg/dL	6.6%	1.7%	2.0%
	1/1/2016 to 12/31/2016	Total tested for lead	37,186	20,290	15,794
		Number of test results ≥ 5 mcg/dL	1,681	317	256
		Percent of test results ≥ 5 mcg/dL	4.5%	1.6%	1.6%
	1/1/2015 to 12/31/2015	Total tested for lead	13,816	1,253	814
		Number of test results ≥ 5 mcg/dL	1,391	48	21
		Percent of test results ≥ 5 mcg/dL	10.1%	3.8%	2.6%
	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%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	18,617	680	205
		Number of test results ≥ 5 mcg/dL	1,931	56	15
		Percent of test results ≥ 5 mcg/dL	10.4%	8.2%	7.3%
After Flint River Use	10/01/2015 to 12/29/2017	Total tested for lead	55,782	24,929	18,531
		Number of test results ≥ 5 mcg/dL	2,723	392	300
		Percent of test results ≥ 5 mcg/dL	4.9%	1.6%	1.6%

Table 4. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among residents of all ages, 2014 – 2017

		Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2017 to 12/29/2017	Total tested for lead	144,315	11,683	6,478
		Number of test results ≥ 5 mcg/dL	5,079	191	142
		Percent of test results ≥ 5 mcg/dL	3.5%	1.6%	2.2%
	1/1/2016 to 12/31/2016	Total tested for lead	221,991	41,956	29,929
		Number of test results ≥ 5 mcg/dL	7,987	595	477
		Percent of test results ≥ 5 mcg/dL	3.6%	1.4%	1.6%
	1/1/2015 to 12/31/2015	Total tested for lead	167,047	9,871	5,328
		Number of test results ≥ 5 mcg/dL	6,546	219	142
		Percent of test results ≥ 5 mcg/dL	3.9%	2.2%	2.7%
	1/1/2014 to 12/31/2014	Total tested for lead	167,126	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%
During Flint River Use	4/1/2014 to 9/30/2015	Total tested for lead	235,478	11,332	5,088
		Number of test results ≥ 5 mcg/dL	9,622	329	199
		Percent of test results ≥ 5 mcg/dL	4.1%	2.9%	3.9%
After Flint River Use	10/01/2015 to 12/29/2017	Total tested for lead	381,005	54,611	36,714
		Number of test results ≥ 5 mcg/dL	13,114	777	602
		Percent of test results ≥ 5 mcg/dL	3.4%	1.4%	1.6%