

Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of August 29, 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 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

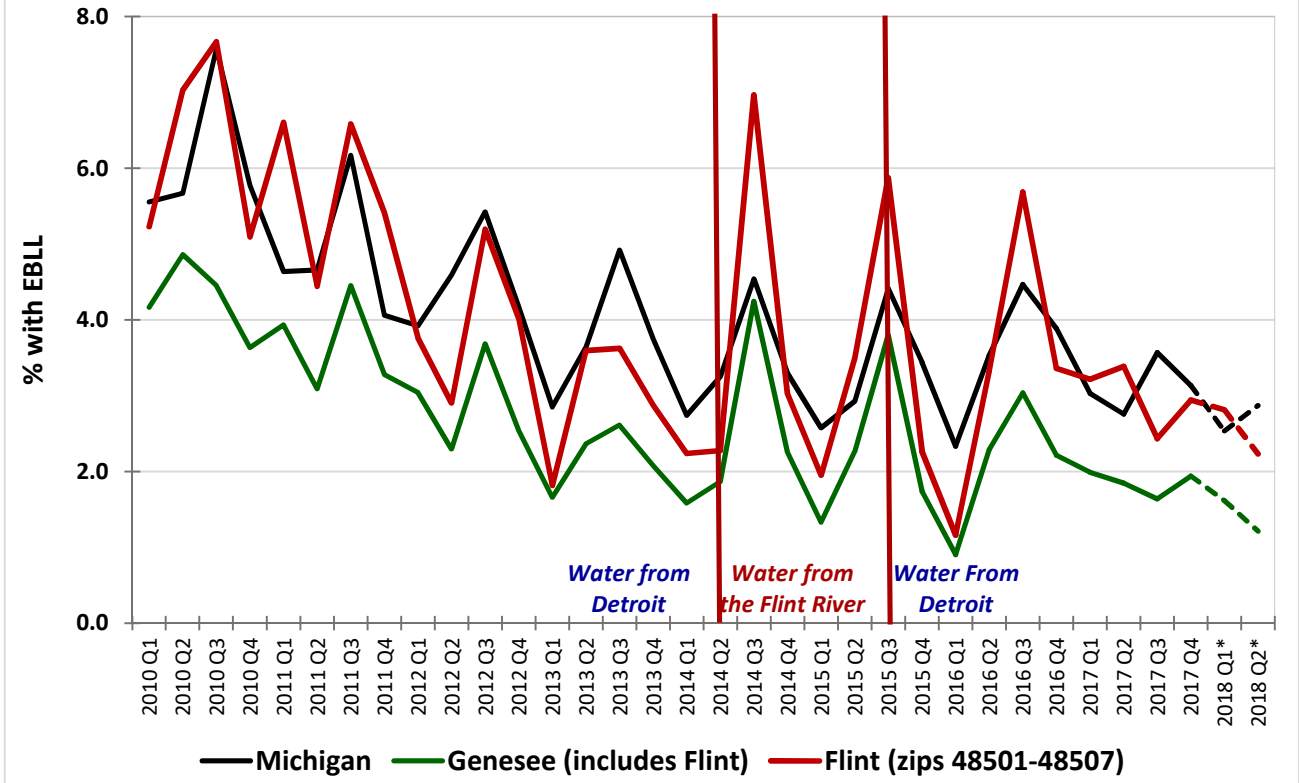
- Between 10/1/2015 and 08/24/2018, 38,961 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 307 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 10,219 children younger than 6 years old tested since 10/1/2015, 2.6% had blood lead levels greater than or equal to 5 µg/dL.
- Of the 46 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2018, 34.8% had a previous elevated blood lead test.

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

- * **Starting July 1, 2018, CLPPP is now using a more accurate method for calculating a child's age at the time of the blood lead test. This report was created using the new method for all test results from 2010 to 2018. As a result, there may be differences in the numbers presented in this report compared to numbers presented in reports produced before July 1, 2018.**

Percentage of Children < 6 Years of Age with Elevated Blood Lead Levels ($\geq 5 \mu\text{g}/\text{dL}$) by Quarter[†], Michigan, 2010 - 2018*

*Data as of August 29, 2018



† People who have had multiple tests are counted only once per year; if they are tested in more than one year, they will be counted once in each year they were tested.
 Counts on this chart include both capillary and venous blood tests.

* Data for Quarters 1 and 2 of 2018 are provisional and subject to change.

Table 1. Percentage of elevated blood lead levels ($\geq 5 \mu\text{g/dL}$) among tested children less than 6 years of age, 2014 – 2018

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 08/24/2018	Total # of children tested for lead	91,024	4,250	1,993
		Children with test results $\geq 5 \mu\text{g/dL}$	2,646	57	46
		% of children with results $\geq 5 \mu\text{g/dL}$	2.9%	1.3%	2.3%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	150,174	6,730	3,114
		Children with test results $\geq 5 \mu\text{g/dL}$	4,715	124	92
		% of children with results $\geq 5 \mu\text{g/dL}$	3.1%	1.8%	3.0%
	1/1/2016 to 12/31/2016	Total # of children tested for lead	158,008	11,711	6,626
		Children with test results $\geq 5 \mu\text{g/dL}$	5,671	210	170
		% of children with results $\geq 5 \mu\text{g/dL}$	3.6%	1.8%	2.6%
	1/1/2015 to 12/31/2015	Total # of children tested for lead	141,741	6,991	3,391
		Children with test results $\geq 5 \mu\text{g/dL}$	4,820	160	112
		% of children with results $\geq 5 \mu\text{g/dL}$	3.4%	2.3%	3.3%
1/1/2014 to 12/31/2014	Total # of children tested for lead	144,168	6,820	3,099	
	Children with test results $\geq 5 \mu\text{g/dL}$	5,089	178	121	
	% of children with results $\geq 5 \mu\text{g/dL}$	3.5%	2.6%	3.9%	
During Flint River Use	4/1/2014 to 9/30/2015	Total # of children tested for lead	197,872	9,271	4,157
		Children with test results $\geq 5 \mu\text{g/dL}$	7,004	252	167
		% of children with results $\geq 5 \mu\text{g/dL}$	3.5%	2.7%	4.0%
After Flint River Use	10/01/2015 to 08/24/2018	Total # of children tested for lead	344,054	19,949	10,219
		Children with test results $\geq 5 \mu\text{g/dL}$	10,924	335	263
		% of children with results $\geq 5 \mu\text{g/dL}$	3.2%	1.7%	2.6%

Table 2. Percentage of elevated blood lead levels ($\geq 5 \mu\text{g/dL}$) among tested children 6 to 17 years of age, 2014 – 2018

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 08/24/2018	Total # of children tested for lead	7,558	1,190	757
		Children with test results $\geq 5 \mu\text{g/dL}$	159	5	4
		% of children with results $\geq 5 \mu\text{g/dL}$	2.1%	0.4%	0.5%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	13,712	2,496	1,670
		Children with test results $\geq 5 \mu\text{g/dL}$	279	16	13
		% of children with results $\geq 5 \mu\text{g/dL}$	2.0%	0.6%	0.8%
	1/1/2016 to 12/31/2016	Total # of children tested for lead	24,408	9,679	7,310
		Children with test results $\geq 5 \mu\text{g/dL}$	418	54	38
		% of children with results $\geq 5 \mu\text{g/dL}$	1.7%	0.6%	0.5%
	1/1/2015 to 12/31/2015	Total # of children tested for lead	10,471	1,573	1,085
		Children with test results $\geq 5 \mu\text{g/dL}$	255	9	7
		% of children with results $\geq 5 \mu\text{g/dL}$	2.4%	0.6%	0.6%
1/1/2014 to 12/31/2014	Total # of children tested for lead	10,594	788	372	
	Children with test results $\geq 5 \mu\text{g/dL}$	287	6	5	
	% of children with results $\geq 5 \mu\text{g/dL}$	2.7%	0.8%	1.3%	
During Flint River Use	4/1/2014 to 9/30/2015	Total # of children tested for lead	14,936	1,180	582
		Children with test results $\geq 5 \mu\text{g/dL}$	352	8	6
		% of children with results $\geq 5 \mu\text{g/dL}$	2.4%	0.7%	1.0%
After Flint River Use	10/01/2015 to 08/24/2018	Total # of children tested for lead	44,334	12,746	9,215
		Children with test results $\geq 5 \mu\text{g/dL}$	727	58	44
		% of children with results $\geq 5 \mu\text{g/dL}$	1.6%	0.5%	0.5%

Table 3. Percentage of elevated blood lead levels ($\geq 5 \mu\text{g/dL}$) among tested adults at least 18 years of age, 2014 - 2018

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 08/24/2018	Total # of adults tested for lead	13,768	3,217	1,779
		Adults with test results $\geq 5 \mu\text{g/dL}$	895	41	21
		% of adults with results $\geq 5 \mu\text{g/dL}$	6.5%	1.3%	1.2%
	1/1/2017 to 12/31/2017	Total # of adults tested for lead	20,071	5,342	3,217
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,283	91	58
		% of adults with results $\geq 5 \mu\text{g/dL}$	6.4%	1.7%	1.8%
	1/1/2016 to 12/31/2016	Total # of adults tested for lead	36,953	20,217	15,738
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,643	306	245
		% of adults with results $\geq 5 \mu\text{g/dL}$	4.4%	1.5%	1.6%
	1/1/2015 to 12/31/2015	Total # of adults tested for lead	13,701	1,250	811
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,368	48	21
		% of adults with results $\geq 5 \mu\text{g/dL}$	10.0%	3.8%	2.6%
	1/1/2014 to 12/31/2014	Total # of adults tested for lead	12,576	434	111
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,419	44	12
		% of adults with results $\geq 5 \mu\text{g/dL}$	11.3%	10.1%	10.8%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of adults tested for lead	18,324	671	202
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,856	56	15
		% of adults with results $\geq 5 \mu\text{g/dL}$	10.1%	8.3%	7.4%
After Flint River Use	10/01/2015 to 08/24/2018	Total # of adults tested for lead	66,870	27,046	19,527
		Adults with test results $\geq 5 \mu\text{g/dL}$	3,145	395	297
		% of adults with results $\geq 5 \mu\text{g/dL}$	4.7%	1.5%	1.5%

Table 4. Percentage of elevated blood lead levels ($\geq 5 \mu\text{g/dL}$) among tested residents of all ages, 2014 – 2018

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 08/24/2018	Total # of people tested for lead	112,350	8,657	4,529
		People with test results $\geq 5 \mu\text{g/dL}$	3,700	103	71
		% of people with results $\geq 5 \mu\text{g/dL}$	3.3%	1.2%	1.6%
	1/1/2017 to 12/31/2017	Total # of people tested for lead	183,957	14,568	8,001
		People with test results $\geq 5 \mu\text{g/dL}$	6,277	231	163
		% of people with results $\geq 5 \mu\text{g/dL}$	3.4%	1.6%	2.0%
	1/1/2016 to 12/31/2016	Total # of people tested for lead	219,369	41,607	29,674
		People with test results $\geq 5 \mu\text{g/dL}$	7,732	570	453
		% of people with results $\geq 5 \mu\text{g/dL}$	3.5%	1.4%	1.5%
	1/1/2015 to 12/31/2015	Total # of people tested for lead	165,913	9,814	5,287
		People with test results $\geq 5 \mu\text{g/dL}$	6,443	217	140
		% of people with results $\geq 5 \mu\text{g/dL}$	3.9%	2.2%	2.6%
	1/1/2014 to 12/31/2014	Total # of people tested for lead	167,338	8,042	3,582
		People with test results $\geq 5 \mu\text{g/dL}$	6,795	228	138
		% of people with results $\geq 5 \mu\text{g/dL}$	4.1%	2.8%	3.9%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of people tested for lead	231,132	11,122	4,941
		People with test results $\geq 5 \mu\text{g/dL}$	9,212	316	188
		% of people with results $\geq 5 \mu\text{g/dL}$	4.0%	2.8%	3.8%
After Flint River Use	10/01/2015 to 08/24/2018	Total # of people tested for lead	455,258	59,741	38,961
		People with test results $\geq 5 \mu\text{g/dL}$	14,796	788	604
		% of people with results $\geq 5 \mu\text{g/dL}$	3.3%	1.3%	1.6%