



Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of May 25, 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

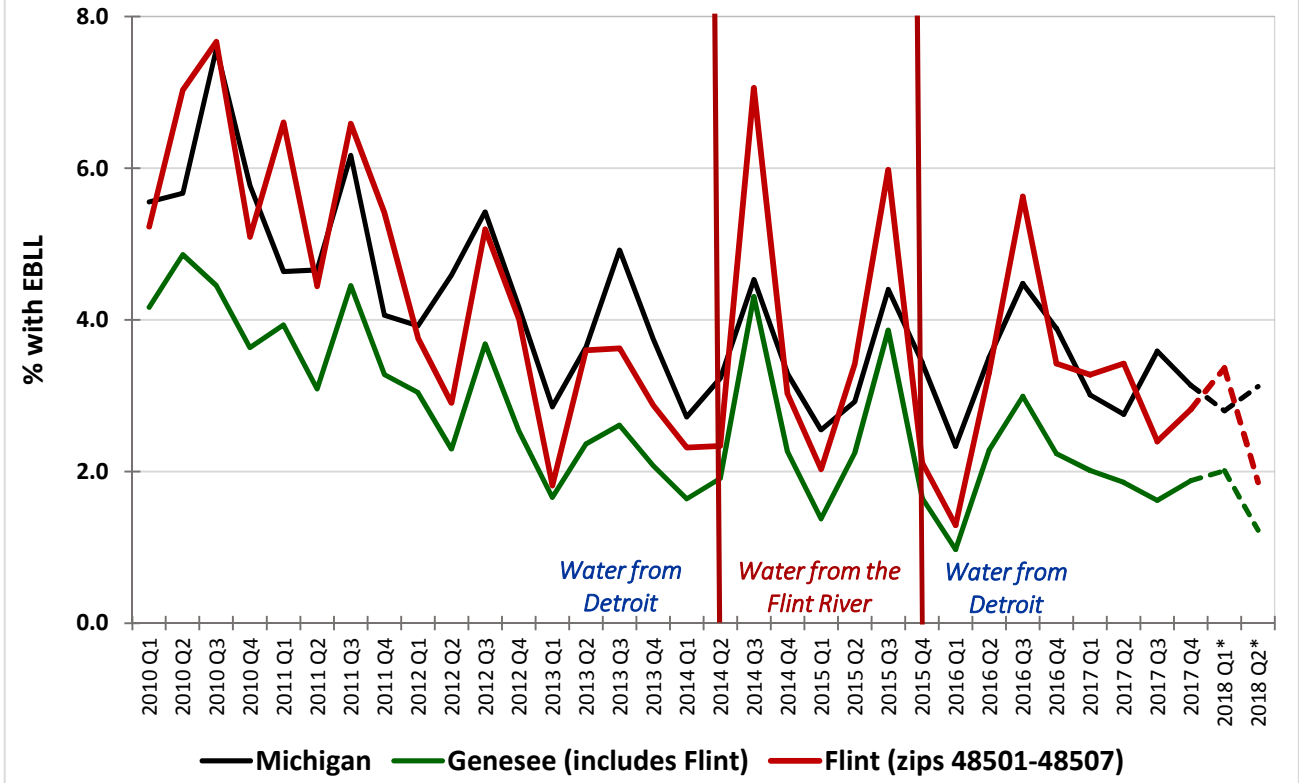
- Between 10/1/2015 and 05/25/2018, 37,970 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 298 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 9,064 children younger than 6 years old tested since 10/1/2015, 2.7% had blood lead levels greater than or equal to 5 µg/dL.
- Of the 32 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2018, 14 (43.8%) had a previous elevated blood lead test.

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

* Starting February 1, 2018, CLPPP began to use a new method for matching test results from the same person, so that only one test per person is counted in a time period. This new method is more efficient and accurate than the method used before February 2018. This report was created using this 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 February 1, 2018.

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

*Data as of May 25, 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 05/25/2018	Total # of children tested for lead	50,538	2,277	1,120
		Children with test results $\geq 5 \mu\text{g/dL}$	1,466	40	32
		% of children with results $\geq 5 \mu\text{g/dL}$	2.9%	1.8%	2.9%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	147,295	6,554	3,001
		Children with test results $\geq 5 \mu\text{g/dL}$	4,626	120	88
		% of children with results $\geq 5 \mu\text{g/dL}$	3.1%	1.8%	2.9%
	1/1/2016 to 12/31/2016	Total # of children tested for lead	154,324	10,809	5,977
		Children with test results $\geq 5 \mu\text{g/dL}$	5,551	201	162
		% of children with results $\geq 5 \mu\text{g/dL}$	3.6%	1.9%	2.7%
	1/1/2015 to 12/31/2015	Total # of children tested for lead	139,388	6,864	3,325
		Children with test results $\geq 5 \mu\text{g/dL}$	4,730	157	109
		% 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	141,688	6,690	3,042	
	Children with test results $\geq 5 \mu\text{g/dL}$	4,986	178	121	
	% of children with results $\geq 5 \mu\text{g/dL}$	3.5%	2.7%	4.0%	
During Flint River Use	4/1/2014 to 9/30/2015	Total # of children tested for lead	194,407	9,096	4,075
		Children with test results $\geq 5 \mu\text{g/dL}$	6,867	251	166
		% of children with results $\geq 5 \mu\text{g/dL}$	3.5%	2.8%	4.1%
After Flint River Use	10/01/2015 to 05/25/2018	Total # of children tested for lead	313,037	17,752	9,064
		Children with test results $\geq 5 \mu\text{g/dL}$	10,061	319	247
		% of children with results $\geq 5 \mu\text{g/dL}$	3.2%	1.8%	2.7%

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 05/25/2018	Total # of children tested for lead	5,627	735	460
		Children with test results $\geq 5 \mu\text{g/dL}$	0	2	2
		% of children with results $\geq 5 \mu\text{g/dL}$	0.0%	0.3%	0.4%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	16,267	2,576	1,726
		Children with test results $\geq 5 \mu\text{g/dL}$	381	20	17
		% of children with results $\geq 5 \mu\text{g/dL}$	2.3%	0.8%	1.0%
	1/1/2016 to 12/31/2016	Total # of children tested for lead	27,637	10,288	7,735
		Children with test results $\geq 5 \mu\text{g/dL}$	539	62	46
		% of children with results $\geq 5 \mu\text{g/dL}$	2.0%	0.6%	0.6%
	1/1/2015 to 12/31/2015	Total # of children tested for lead	12,706	1,690	1,145
		Children with test results $\geq 5 \mu\text{g/dL}$	344	12	10
		% of children with results $\geq 5 \mu\text{g/dL}$	2.7%	0.7%	0.9%
1/1/2014 to 12/31/2014	Total # of children tested for lead	12,965	913	428	
	Children with test results $\geq 5 \mu\text{g/dL}$	388	6	5	
	% of children with results $\geq 5 \mu\text{g/dL}$	3.0%	0.7%	1.2%	
During Flint River Use	4/1/2014 to 9/30/2015	Total # of children tested for lead	18,228	1,344	658
		Children with test results $\geq 5 \mu\text{g/dL}$	486	9	7
		% of children with results $\geq 5 \mu\text{g/dL}$	2.7%	0.7%	1.1%
After Flint River Use	10/01/2015 to 05/25/2018	Total # of children tested for lead	47,961	13,134	9,501
		Children with test results $\geq 5 \mu\text{g/dL}$	876	65	51
		% of children with results $\geq 5 \mu\text{g/dL}$	1.8%	0.5%	0.5%

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

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 05/25/2018	Total # of adults tested for lead	7,970	2,046	1,175
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	536	32	15
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	6.7%	1.6%	1.3%
	1/1/2017 to 12/31/2017	Total # of adults tested for lead	20,284	5,439	3,275
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	1,283	91	58
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	6.3%	1.7%	1.8%
	1/1/2016 to 12/31/2016	Total # of adults tested for lead	37,414	20,512	15,963
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	1,646	308	246
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	4.4%	1.5%	1.5%
	1/1/2015 to 12/31/2015	Total # of adults tested for lead	13,820	1,260	817
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	1,369	48	21
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	9.9%	3.8%	2.6%
	1/1/2014 to 12/31/2014	Total # of adults tested for lead	12,685	439	112
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	1,421	44	12
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	11.2%	10.0%	10.7%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of adults tested for lead	18,496	682	208
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	1,859	56	15
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	10.1%	8.2%	7.2%
After Flint River Use	10/01/2015 to 05/25/2018	Total # of adults tested for lead	62,913	26,594	19,405
		Adults with test results $\geq 5 \mu\text{g}/\text{dL}$	2,974	393	296
		% of adults with results $\geq 5 \mu\text{g}/\text{dL}$	4.7%	1.5%	1.5%

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

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2018 to 05/25/2018	Total # of people tested for lead	64,135	5,058	2,755
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	2,146	74	49
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	3.3%	1.5%	1.8%
	1/1/2017 to 12/31/2017	Total # of people tested for lead	183,846	14,569	8,002
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	6,290	231	163
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	3.4%	1.6%	2.0%
	1/1/2016 to 12/31/2016	Total # of people tested for lead	219,375	41,609	29,675
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	7,736	571	454
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	3.5%	1.4%	1.5%
	1/1/2015 to 12/31/2015	Total # of people tested for lead	165,914	9,814	5,287
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	6,443	217	140
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	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 $\geq 5 \mu\text{g}/\text{dL}$	6,795	228	138
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	4.1%	2.8%	3.9%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of people tested for lead	231,131	11,122	4,941
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	9,212	316	188
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	4.0%	2.8%	3.8%
After Flint River Use	10/01/2015 to 05/25/2018	Total # of people tested for lead	423,911	57,480	37,970
		People with test results $\geq 5 \mu\text{g}/\text{dL}$	13,911	777	594
		% of people with results $\geq 5 \mu\text{g}/\text{dL}$	3.3%	1.4%	1.6%