



Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of March 29, 2019*

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

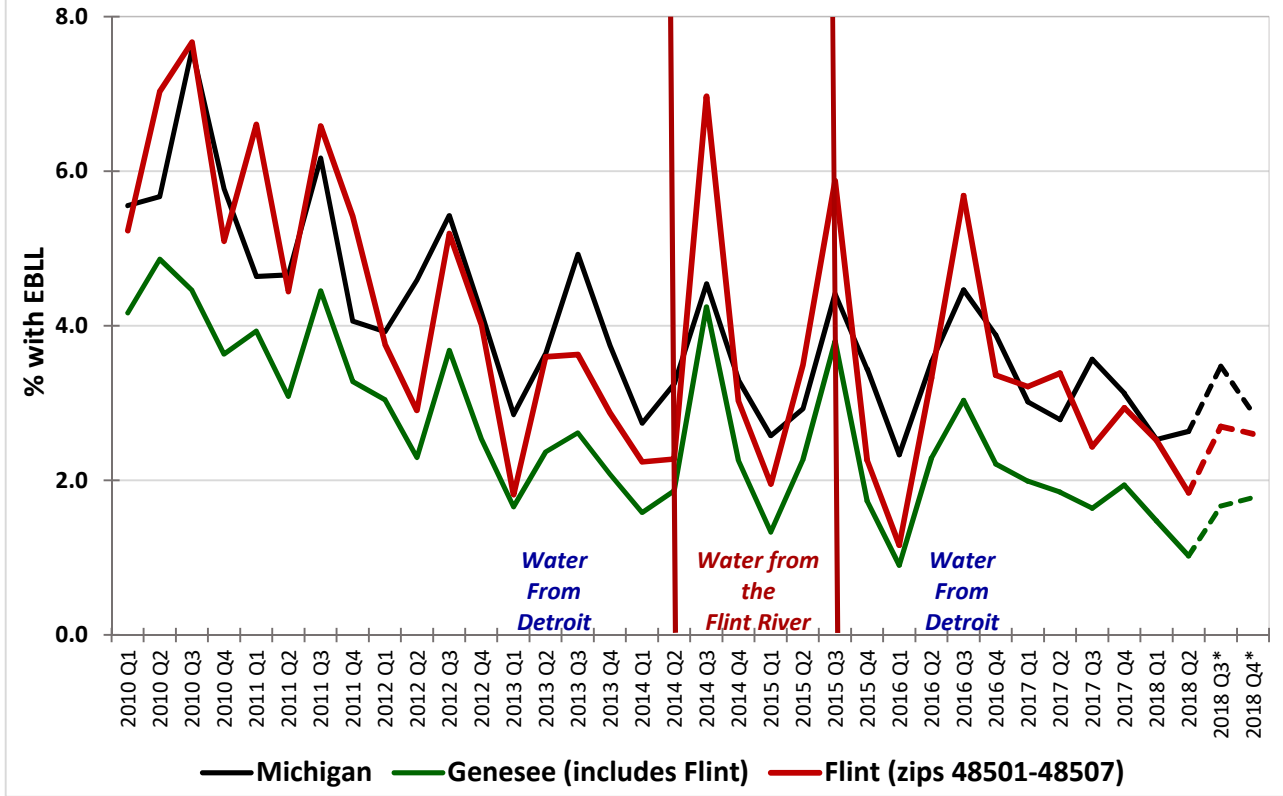
- Between 10/1/2015 and 03/29/2019, 40,921 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 341 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 11,092 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.

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

- * **Starting January 4, 2019**, CLPPP has updated the address cleaning algorithm for this report to match other analyses performed by CLPPP; counts no longer include tests that are missing ZIP code, county, city, and street name. This means that Michigan totals will be smaller compared to numbers presented in reports produced before January 4, 2019 (counts for Genesee county and city of Flint are unaffected by this change).

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 March 29, 2019



† 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 3 and 4 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	1/1/2018 to 12/31/2018	Total # of children tested for lead	141,931	6,361	2,984
		Children with test results $\geq 5 \mu\text{g/dL}$	4,120	94	72
		% of children with results $\geq 5 \mu\text{g/dL}$	2.9%	1.5%	2.4%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	150,446	6,732	3,116
		Children with test results $\geq 5 \mu\text{g/dL}$	4,724	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	158,042	11,712	6,626
		Children with test results $\geq 5 \mu\text{g/dL}$	5,669	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	141,756	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	144,186	6,820	3,099
		Children with test results $\geq 5 \mu\text{g/dL}$	5,091	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	197,894	9,271	4,157
		Children with test results $\geq 5 \mu\text{g/dL}$	7,006	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 03/29/2019	Total # of children tested for lead	395,912	22,036	11,092
		Children with test results $\geq 5 \mu\text{g/dL}$	12,505	382	293
		% 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	1/1/2018 to 12/31/2018	Total # of children tested for lead	12,060	1,809	1,143
		Children with test results $\geq 5 \mu\text{g/dL}$	251	9	7
		% of children with results $\geq 5 \mu\text{g/dL}$	2.1%	0.5%	0.6%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	13,694	2,497	1,671
		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	24,324	9,673	7,312
		Children with test results $\geq 5 \mu\text{g/dL}$	420	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	10,439	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	10,577	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	14,902	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 03/29/2019	Total # of children tested for lead	49,212	13,284	9,498
		Children with test results $\geq 5 \mu\text{g/dL}$	813	63	48
		% of children with results $\geq 5 \mu\text{g/dL}$	1.7%	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	1/1/2018 to 12/31/2018	Total # of adults tested for lead	18,653	4,663	2,533
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,030	56	24
		% of adults with results $\geq 5 \mu\text{g/dL}$	5.5%	1.2%	0.9%
	1/1/2017 to 12/31/2017	Total # of adults tested for lead	18,165	5,342	3,216
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,132	91	58
		% of adults with results $\geq 5 \mu\text{g/dL}$	6.2%	1.7%	1.8%
	1/1/2016 to 12/31/2016	Total # of adults tested for lead	34,564	20,110	15,753
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,383	306	246
		% of adults with results $\geq 5 \mu\text{g/dL}$	4.0%	1.5%	1.6%
	1/1/2015 to 12/31/2015	Total # of adults tested for lead	11,820	1,251	811
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,147	49	21
		% of adults with results $\geq 5 \mu\text{g/dL}$	9.7%	3.9%	2.6%
	1/1/2014 to 12/31/2014	Total # of adults tested for lead	10,779	437	112
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,192	44	12
		% of adults with results $\geq 5 \mu\text{g/dL}$	11.1%	10.1%	10.7%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of adults tested for lead	15,679	676	203
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,554	57	15
		% of adults with results $\geq 5 \mu\text{g/dL}$	9.9%	8.4%	7.4%
After Flint River Use	10/01/2015 to 03/29/2019	Total # of adults tested for lead	69,484	28,606	20,331
		Adults with test results $\geq 5 \mu\text{g/dL}$	3,036	404	303
		% of adults with results $\geq 5 \mu\text{g/dL}$	4.4%	1.4%	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	1/1/2018 to 12/31/2018	Total # of people tested for lead	172,644	12,833	6,660
		People with test results $\geq 5 \mu\text{g/dL}$	5,401	159	103
		% of people with results $\geq 5 \mu\text{g/dL}$	3.1%	1.2%	1.5%
	1/1/2017 to 12/31/2017	Total # of people tested for lead	182,305	14,571	8,003
		People with test results $\geq 5 \mu\text{g/dL}$	6,135	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	216,930	41,495	29,691
		People with test results $\geq 5 \mu\text{g/dL}$	7,472	570	454
		% of people with results $\geq 5 \mu\text{g/dL}$	3.4%	1.4%	1.5%
	1/1/2015 to 12/31/2015	Total # of people tested for lead	164,015	9,815	5,287
		People with test results $\geq 5 \mu\text{g/dL}$	6,222	218	140
		% of people with results $\geq 5 \mu\text{g/dL}$	3.8%	2.2%	2.6%
	1/1/2014 to 12/31/2014	Total # of people tested for lead	165,542	8,045	3,583
		People with test results $\geq 5 \mu\text{g/dL}$	6,570	228	138
		% of people with results $\geq 5 \mu\text{g/dL}$	4.0%	2.8%	3.9%
During Flint River Use	4/1/2014 to 9/30/2015	Total # of people tested for lead	228,475	11,127	4,942
		People with test results $\geq 5 \mu\text{g/dL}$	8,912	317	188
		% of people with results $\geq 5 \mu\text{g/dL}$	3.9%	2.8%	3.8%
After Flint River Use	10/01/2015 to 03/29/2019	Total # of people tested for lead	514,608	63,926	40,921
		People with test results $\geq 5 \mu\text{g/dL}$	16,354	849	644
		% of people with results $\geq 5 \mu\text{g/dL}$	3.2%	1.3%	1.6%