



Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary for October 2020 Data as of November 17, 2020*

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

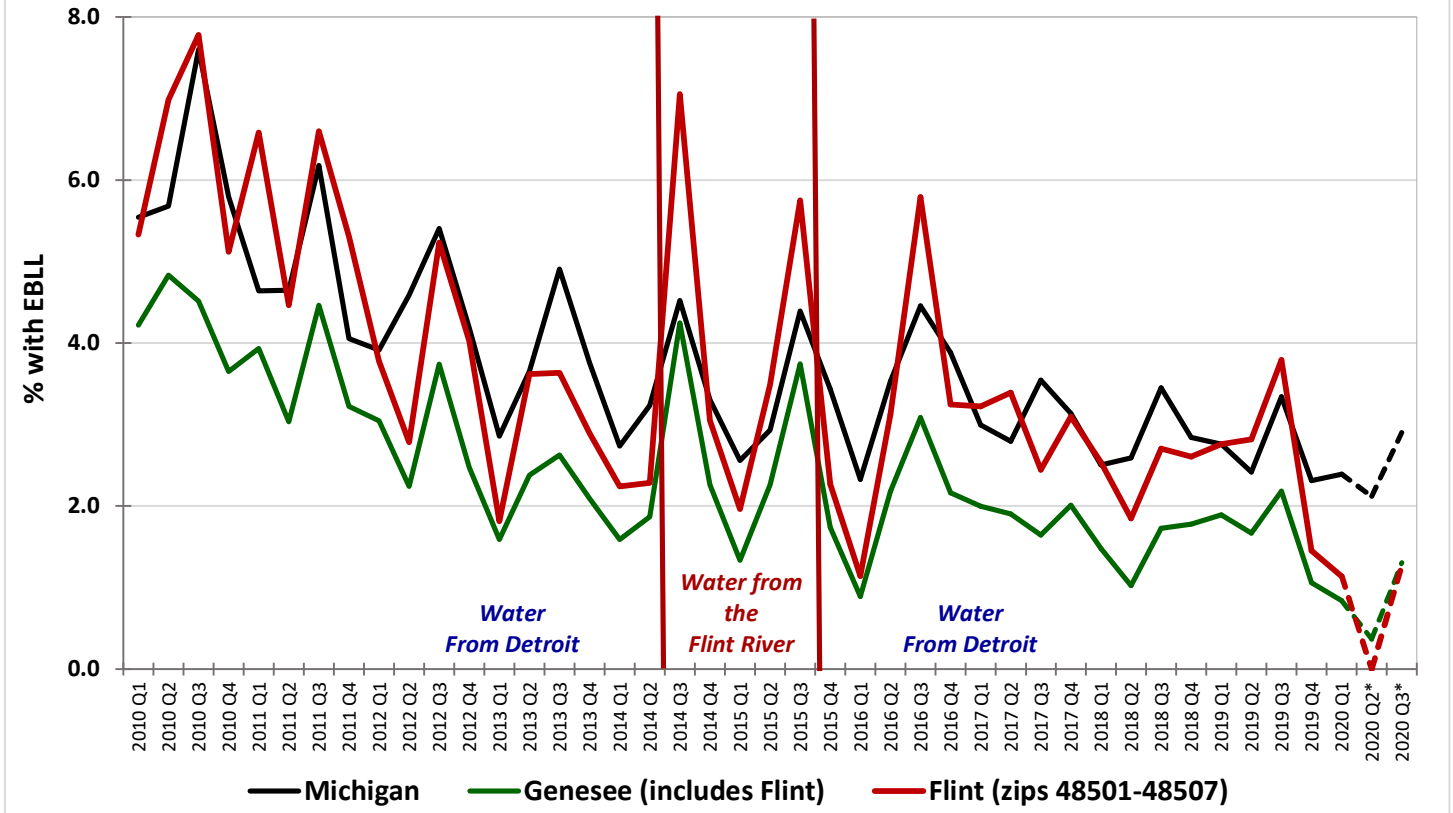
- Between 10/1/2015 and 10/31/2020, 44,475 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 384 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 12,834 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

- * The MDHHS Data Warehouse has updated their algorithm to assign a unique identifying number (the MPI) to all individuals. As of the August 2020 Monthly Executive Summary, CLPPP has switched from the old algorithm to the new MPI, which makes fewer mistakes in identifying individuals than the old algorithm. As a result, the numbers of tests and numbers of children tested in prior to August 2020 in this report differ from previous report. The new report results are considered to be more accurate than the numbers in previous reports.

Percentage of Children < 6 Years of Age with Elevated Blood Lead Levels ($\geq 5 \mu\text{g/dL}$) by Quarter[†], Michigan, 2010 - 2020*

*Data as of November 17, 2020



[†] 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 Quarter 2 and 3 of 2020 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 – 2020

			Michigan	Genesee County	Flint 48501-48507	
Annual Results	01/01/2020 to 10/31/2020	Total # of children tested for lead	79,633	3,226	1,398	
		Children with test results $\geq 5 \mu\text{g/dL}$	2,016	31	14	
		% of children with results $\geq 5 \mu\text{g/dL}$	2.5%	1.0%	1.0%	
	01/01/2019 to 12/31/2019	Total # of children tested for lead	143,230	6,071	2,781	
		Children with test results $\geq 5 \mu\text{g/dL}$	3,915	105	77	
		% of children with results $\geq 5 \mu\text{g/dL}$	2.7%	1.7%	2.8%	
	1/1/2018 to 12/31/2018	Total # of children tested for lead	142,113	6,349	2,972	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,083	95	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	150,169	6,717	3,103	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,706	126	93	
		% of children with results $\geq 5 \mu\text{g/dL}$	3.1%	1.9%	3.0%	
	1/1/2016 to 12/31/2016	Total # of children tested for lead	157,581	11,653	6,578	
		Children with test results $\geq 5 \mu\text{g/dL}$	5,647	206	166	
		% of children with results $\geq 5 \mu\text{g/dL}$	3.6%	1.8%	2.5%	
	1/1/2015 to 12/31/2015	Total # of children tested for lead	141,512	6,980	3,384	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,797	159	111	
		% 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	143,859	6,808	3,092	
		Children with test results $\geq 5 \mu\text{g/dL}$	5,068	178	122	
		% 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	197,453	9,246	4,151
			Children with test results $\geq 5 \mu\text{g/dL}$	6,965	251	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 10/31/2020	Total # of children tested for lead	514,930	26,613	12,834	
		Children with test results $\geq 5 \mu\text{g/dL}$	15,727	454	335	
		% of children with results $\geq 5 \mu\text{g/dL}$	3.1%	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 – 2020

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2020 to 10/31/2020	Total # of children tested for lead	5,731	635	379
		Children with test results $\geq 5 \mu\text{g/dL}$	120	6	2
		% of children with results $\geq 5 \mu\text{g/dL}$	2.1%	0.9%	0.5%
	01/01/2019 to 12/31/2019	Total # of children tested for lead	11,598	1,352	862
		Children with test results $\geq 5 \mu\text{g/dL}$	235	11	6
		% of children with results $\geq 5 \mu\text{g/dL}$	2.0%	0.8%	0.7%
	1/1/2018 to 12/31/2018	Total # of children tested for lead	12,066	1,806	1,139
		Children with test results $\geq 5 \mu\text{g/dL}$	245	9	7
		% of children with results $\geq 5 \mu\text{g/dL}$	2.0%	0.5%	0.6%
	1/1/2017 to 12/31/2017	Total # of children tested for lead	13,663	2,492	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	24,300	9,663	7,303
		Children with test results $\geq 5 \mu\text{g/dL}$	423	55	39
		% 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	10,432	1,572	1,082
		Children with test results $\geq 5 \mu\text{g/dL}$	258	10	8
		% of children with results $\geq 5 \mu\text{g/dL}$	2.5%	0.6%	0.7%
1/1/2014 to 12/31/2014	Total # of children tested for lead	10,554	786	371	
	Children with test results $\geq 5 \mu\text{g/dL}$	286	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	14,881	1,179	581
		Children with test results $\geq 5 \mu\text{g/dL}$	351	9	7
		% of children with results $\geq 5 \mu\text{g/dL}$	2.4%	0.8%	1.2%
After Flint River Use	10/01/2015 to 10/31/2020	Total # of children tested for lead	60,204	14,129	9,921
		Children with test results $\geq 5 \mu\text{g/dL}$	950	67	49
		% 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 - 2020

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2020 to 10/31/2020	Total # of adults tested for lead	11,040	1,655	907
		Adults with test results $\geq 5 \mu\text{g/dL}$	777	25	11
		% of adults with results $\geq 5 \mu\text{g/dL}$	7.0%	1.5%	1.2%
	01/01/2019 to 12/31/2019	Total # of adults tested for lead	17,467	3,675	1,954
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,061	55	17
		% of adults with results $\geq 5 \mu\text{g/dL}$	6.1%	1.5%	0.9%
	1/1/2018 to 12/31/2018	Total # of adults tested for lead	18,609	4,669	2,536
		Adults with test results $\geq 5 \mu\text{g/dL}$	996	54	23
		% of adults with results $\geq 5 \mu\text{g/dL}$	5.4%	1.2%	0.9%
	1/1/2017 to 12/31/2017	Total # of adults tested for lead	18,158	5,360	3,226
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,128	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	34,531	20,221	15,835
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,371	305	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	11,812	1,251	811
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,138	49	21
		% of adults with results $\geq 5 \mu\text{g/dL}$	9.6%	3.9%	2.6%
1/1/2014 to 12/31/2014	Total # of adults tested for lead	10,764	437	112	
	Adults with test results $\geq 5 \mu\text{g/dL}$	1,182	44	12	
	% of adults with results $\geq 5 \mu\text{g/dL}$	11.0%	10.1%	10.7%	
During Flint River Use	4/1/2014 to 9/30/2015	Total # of adults tested for lead	15,661	675	203
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,541	57	15
		% of adults with results $\geq 5 \mu\text{g/dL}$	9.8%	8.4%	7.4%
After Flint River Use	10/01/2015 to 10/31/2020	Total # of adults tested for lead	88,515	31,535	21,720
		Adults with test results $\geq 5 \mu\text{g/dL}$	3,817	437	314
		% of adults with results $\geq 5 \mu\text{g/dL}$	4.3%	1.4%	1.4%

Table 4. Percentage of elevated blood lead levels ($\geq 5 \mu\text{g/dL}$) among tested residents of all ages, 2014 – 2020

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2020 to 10/31/2020	Total # of people tested for lead	96,404	5,516	2,684
		People with test results $\geq 5 \mu\text{g/dL}$	2,913	62	27
		% of people with results $\geq 5 \mu\text{g/dL}$	3.0%	1.1%	1.0%
	01/01/2019 to 12/31/2019	Total # of people tested for lead	172,295	11,098	5,597
		People with test results $\geq 5 \mu\text{g/dL}$	5,211	171	100
		% of people with results $\geq 5 \mu\text{g/dL}$	3.0%	1.5%	1.8%
	1/1/2018 to 12/31/2018	Total # of people tested for lead	172,788	12,824	6,647
		People with test results $\geq 5 \mu\text{g/dL}$	5,324	158	102
		% 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	181,990	14,569	7,999
		People with test results $\geq 5 \mu\text{g/dL}$	6,113	233	164
		% of people with results $\geq 5 \mu\text{g/dL}$	3.4%	1.6%	2.1%
	1/1/2016 to 12/31/2016	Total # of people tested for lead	216,412	41,537	29,716
		People with test results $\geq 5 \mu\text{g/dL}$	7,441	566	451
		% 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	163,756	9,803	5,277
		People with test results $\geq 5 \mu\text{g/dL}$	6,193	218	140
		% of people with results $\geq 5 \mu\text{g/dL}$	3.8%	2.2%	2.7%
1/1/2014 to 12/31/2014	Total # of people tested for lead	165,177	8,031	3,575	
	People with test results $\geq 5 \mu\text{g/dL}$	6,536	228	139	
	% 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	227,995	11,100	4,935
		People with test results $\geq 5 \mu\text{g/dL}$	8,857	317	189
		% of people with results $\geq 5 \mu\text{g/dL}$	3.9%	2.9%	3.8%
After Flint River Use	10/01/2015 to 10/31/2020	Total # of people tested for lead	663,649	72,277	44,475
		People with test results $\geq 5 \mu\text{g/dL}$	20,494	958	698
		% of people with results $\geq 5 \mu\text{g/dL}$	3.1%	1.3%	1.6%