



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

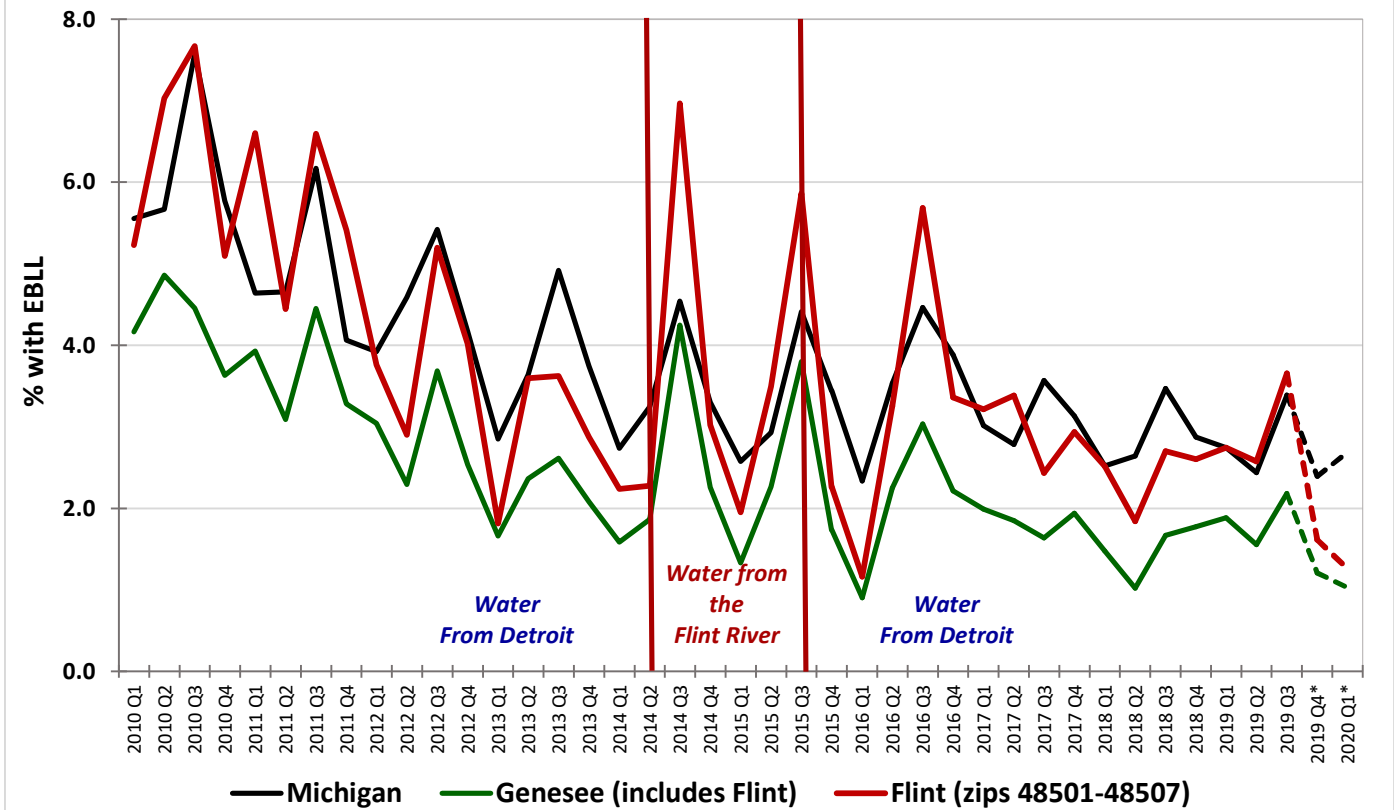
- Between 10/1/2015 and 04/29/2020, 43,823 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 382 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 12,558 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.

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

- * **Upcoming Change:** *The MDHHS Data Warehouse uses a computer algorithm to assign a unique identifying number to all individuals. CLPPP uses the identifier to link multiple test results from the same person and links blood lead test results to records from other MDHHS programs like the Michigan Care Improvement Registry (MCIR) and Medicaid. In August 2020, the CLPPP will switch from the previous algorithm to a new algorithm to generate the unique identifier. CLPPP has validated this new algorithm to make sure that it works as well or better than the previous algorithm. As a result, the numbers in reports after August 2020 may be different from previous reports.*

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

*Data as of April 29, 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 Counts on this chart include both capillary and venous blood tests.

* Data for Quarter 4 of 2019 and Quarter 1 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	Flint 48501-	
Annual Results	01/01/2020 to 04/29/2020	Total # of children tested for lead	30,556	1,488	720	
		Children with test results $\geq 5 \mu\text{g/dL}$	823	15	9	
		% of children with results $\geq 5 \mu\text{g/dL}$	2.7%	1.0%	1.3%	
	01/01/2019 to 12/31/2019	Total # of children tested for lead	142,150	6,076	2,783	
		Children with test results $\geq 5 \mu\text{g/dL}$	3,936	105	75	
		% of children with results $\geq 5 \mu\text{g/dL}$	2.8%	1.7%	2.7%	
	1/1/2018 to 12/31/2018	Total # of children tested for lead	142,404	6,362	2,983	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,130	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	150,472	6,732	3,116	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,728	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	158,050	11,711	6,623	
		Children with test results $\geq 5 \mu\text{g/dL}$	5,670	209	169	
		% 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	141,771	6,992	3,393	
		Children with test results $\geq 5 \mu\text{g/dL}$	4,821	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	144,190	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	197,914	9,272	4,158
			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 04/29/2020	Total # of children tested for lead	485,054	25,732	12,558	
		Children with test results $\geq 5 \mu\text{g/dL}$	14,920	441	333	
		% of children with results $\geq 5 \mu\text{g/dL}$	3.1%	1.7%	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 – 2020

			Michigan	Genesee County	Flint 48501-48507
Annual Results	01/01/2020 to 04/29/2020	Total # of children tested for lead	2,266	255	150
		Children with test results $\geq 5 \mu\text{g/dL}$	58	4	1
		% of children with results $\geq 5 \mu\text{g/dL}$	2.6%	1.6%	0.7%
	01/01/2019 to 12/31/2019	Total # of children tested for lead	11,583	1,354	863
		Children with test results $\geq 5 \mu\text{g/dL}$	236	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	12,097	1,810	1,143
		Children with test results $\geq 5 \mu\text{g/dL}$	252	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	24,323	9,681	7,317
		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	1,084
		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 04/29/2020	Total # of children tested for lead	57,890	13,980	9,866
		Children with test results $\geq 5 \mu\text{g/dL}$	928	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 04/29/2020	Total # of adults tested for lead	4,973	778	413	
		Adults with test results $\geq 5 \mu\text{g/dL}$	379	15	6	
		% of adults with results $\geq 5 \mu\text{g/dL}$	7.6%	1.9%	1.5%	
	01/01/2019 to 12/31/2019	Total # of adults tested for lead	17,444	3,673	1,952	
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,058	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	18,613	4,662	2,531	
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,005	55	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	18,159	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	34,559	20,233	15,840	
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,383	307	247	
		% 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	11,818	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	10,774	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	15,674	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 04/29/2020	Total # of adults tested for lead	83,926	30,891	21,399	
		Adults with test results $\geq 5 \mu\text{g/dL}$	3,615	432	309	
		% 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 04/29/2020	Total # of people tested for lead	37,795	2,521	1,283	
		People with test results $\geq 5 \mu\text{g/dL}$	1,260	34	16	
		% of people with results $\geq 5 \mu\text{g/dL}$	3.3%	1.3%	1.2%	
	01/01/2019 to 12/31/2019	Total # of people tested for lead	171,177	11,103	5,598	
		People with test results $\geq 5 \mu\text{g/dL}$	5,230	171	98	
		% of people with results $\geq 5 \mu\text{g/dL}$	3.1%	1.5%	1.8%	
	1/1/2018 to 12/31/2018	Total # of people tested for lead	173,114	12,834	6,657	
		People with test results $\geq 5 \mu\text{g/dL}$	5,387	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	182,325	14,571	8,003	
		People with test results $\geq 5 \mu\text{g/dL}$	6,139	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	216,932	41,625	29,780	
		People with test results $\geq 5 \mu\text{g/dL}$	7,473	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	164,028	9,816	5,288	
		People with test results $\geq 5 \mu\text{g/dL}$	6,223	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	165,541	8,045	3,583	
		People with test results $\geq 5 \mu\text{g/dL}$	6,568	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	228,490	11,128	4,943
			People with test results $\geq 5 \mu\text{g/dL}$	8,910	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 04/29/2020	Total # of people tested for lead	626,870	70,603	43,823	
		People with test results $\geq 5 \mu\text{g/dL}$	19,463	940	691	
		% of people with results $\geq 5 \mu\text{g/dL}$	3.1%	1.3%	1.6%	