

## **Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of November 09, 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**

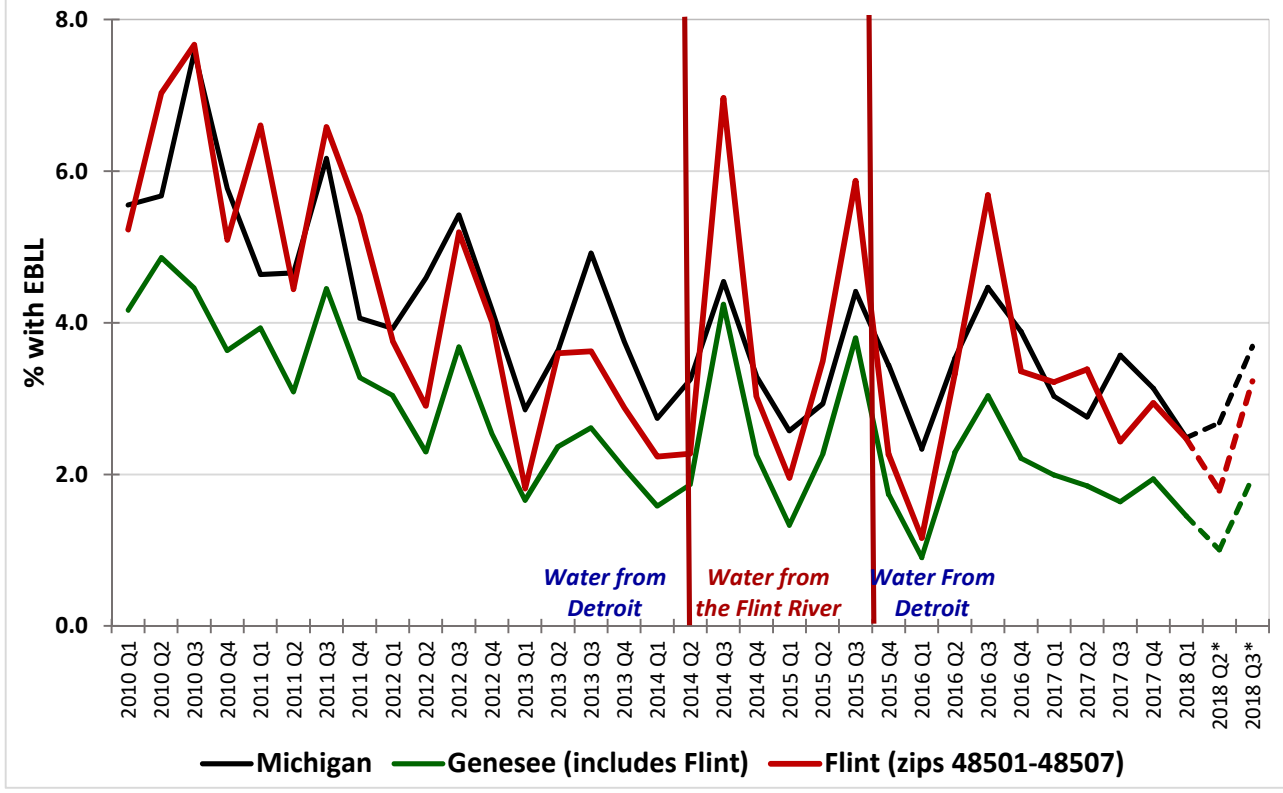
- Between 10/1/2015 and 11/02/2018, 39,501 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 319 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 10,426 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 61 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2018, 29.5% 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 ( $\geq 5 \mu\text{g/dL}$ ) by Quarter<sup>†</sup>, Michigan, 2010 - 2018\***

\*Data as of November 09, 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 2 and 3 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
<b>Annual Results</b>	1/01/2018 to 11/02/2018	Total # of children tested for lead	115,256	5,264	2,458
		Children with test results $\geq 5 \mu\text{g/dL}$	3,468	78	61
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.0%</b>	<b>1.5%</b>	<b>2.5%</b>
	1/1/2017 to 12/31/2017	Total # of children tested for lead	150,179	6,730	3,114
		Children with test results $\geq 5 \mu\text{g/dL}$	4,716	124	92
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.1%</b>	<b>1.8%</b>	<b>3.0%</b>
	1/1/2016 to 12/31/2016	Total # of children tested for lead	158,011	11,711	6,626
		Children with test results $\geq 5 \mu\text{g/dL}$	5,671	210	170
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.6%</b>	<b>1.8%</b>	<b>2.6%</b>
	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
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.4%</b>	<b>2.3%</b>	<b>3.3%</b>
	1/1/2014 to 12/31/2014	Total # of children tested for lead	144,171	6,820	3,099
		Children with test results $\geq 5 \mu\text{g/dL}$	5,089	178	121
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.5%</b>	<b>2.6%</b>	<b>3.9%</b>
<b>During Flint River Use</b>	4/1/2014 to 9/30/2015	Total # of children tested for lead	197,875	9,271	10,426
		Children with test results $\geq 5 \mu\text{g/dL}$	7,004	252	167
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.5%</b>	<b>2.7%</b>	<b>1.6%</b>
<b>After Flint River Use</b>	10/01/2015 to 11/02/2018	Total # of children tested for lead	358,212	20,496	10,426
		Children with test results $\geq 5 \mu\text{g/dL}$	11,518	351	273
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.2%</b>	<b>1.7%</b>	<b>2.6%</b>

**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
<b>Annual Results</b>	1/01/2018 to 11/02/2018	Total # of children tested for lead	10,025	1,548	989
		Children with test results $\geq 5 \mu\text{g/dL}$	219	7	6
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>2.2%</b>	<b>0.5%</b>	<b>0.6%</b>
	1/1/2017 to 12/31/2017	Total # of children tested for lead	13,711	2,496	1,670
		Children with test results $\geq 5 \mu\text{g/dL}$	278	16	13
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>2.0%</b>	<b>0.6%</b>	<b>0.8%</b>
	1/1/2016 to 12/31/2016	Total # of children tested for lead	24,411	9,681	7,312
		Children with test results $\geq 5 \mu\text{g/dL}$	418	54	38
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>1.7%</b>	<b>0.6%</b>	<b>0.5%</b>
	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
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>2.4%</b>	<b>0.6%</b>	<b>0.6%</b>
	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
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>2.7%</b>	<b>0.8%</b>	<b>1.3%</b>
<b>During Flint River Use</b>	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
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>2.4%</b>	<b>0.7%</b>	<b>1.0%</b>
<b>After Flint River Use</b>	10/01/2015 to 11/02/2018	Total # of children tested for lead	46,195	12,958	9,320
		Children with test results $\geq 5 \mu\text{g/dL}$	766	61	46
		<b>% of children with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>1.7%</b>	<b>0.5%</b>	<b>0.5%</b>

**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
<b>Annual Results</b>	1/01/2018 to 11/02/2018	Total # of adults tested for lead	16,778	3,859	2,132
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,032	44	22
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>6.2%</b>	<b>1.1%</b>	<b>1.0%</b>
	1/1/2017 to 12/31/2017	Total # of adults tested for lead	20,070	5,342	3,217
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,283	91	58
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>6.4%</b>	<b>1.7%</b>	<b>1.8%</b>
	1/1/2016 to 12/31/2016	Total # of adults tested for lead	36,949	20,217	15,738
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,643	306	245
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>4.4%</b>	<b>1.5%</b>	<b>1.6%</b>
	1/1/2015 to 12/31/2015	Total # of adults tested for lead	13,698	1,250	811
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,366	48	21
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>10.0%</b>	<b>3.8%</b>	<b>2.6%</b>
	1/1/2014 to 12/31/2014	Total # of adults tested for lead	12,573	434	111
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,419	44	12
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>11.3%</b>	<b>10.1%</b>	<b>10.8%</b>
<b>During Flint River Use</b>	<b>4/1/2014 to 9/30/2015</b>	Total # of adults tested for lead	18,317	671	202
		Adults with test results $\geq 5 \mu\text{g/dL}$	1,853	56	15
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>10.1%</b>	<b>8.3%</b>	<b>7.4%</b>
<b>After Flint River Use</b>	<b>10/01/2015 to 11/02/2018</b>	Total # of adults tested for lead	69,198	27,505	19,755
		Adults with test results $\geq 5 \mu\text{g/dL}$	3,241	396	297
		<b>% of adults with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>4.7%</b>	<b>1.4%</b>	<b>1.5%</b>

**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
<b>Annual Results</b>	1/01/2018 to 11/02/2018	Total # of people tested for lead	142,059	10,671	5,579
		People with test results $\geq 5 \mu\text{g/dL}$	4,719	129	89
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.3%</b>	<b>1.2%</b>	<b>1.6%</b>
	1/1/2017 to 12/31/2017	Total # of people tested for lead	183,960	14,568	8,001
		People with test results $\geq 5 \mu\text{g/dL}$	6,277	231	163
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.4%</b>	<b>1.6%</b>	<b>2.0%</b>
	1/1/2016 to 12/31/2016	Total # of people tested for lead	219,371	41,609	29,676
		People with test results $\geq 5 \mu\text{g/dL}$	7,732	570	453
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.5%</b>	<b>1.4%</b>	<b>1.5%</b>
	1/1/2015 to 12/31/2015	Total # of people tested for lead	165,910	9,814	5,287
		People with test results $\geq 5 \mu\text{g/dL}$	6,441	217	140
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.9%</b>	<b>2.2%</b>	<b>2.6%</b>
	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
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>4.1%</b>	<b>2.8%</b>	<b>3.9%</b>
<b>During Flint River Use</b>	<b>4/1/2014 to 9/30/2015</b>	Total # of people tested for lead	231,128	11,122	4,941
		People with test results $\geq 5 \mu\text{g/dL}$	9,209	316	188
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>4.0%</b>	<b>2.8%</b>	<b>3.8%</b>
<b>After Flint River Use</b>	<b>10/01/2015 to 11/02/2018</b>	Total # of people tested for lead	473,605	60,959	39,501
		People with test results $\geq 5 \mu\text{g/dL}$	15,525	808	616
		<b>% of people with results <math>\geq 5 \mu\text{g/dL}</math></b>	<b>3.3%</b>	<b>1.3%</b>	<b>1.6%</b>