

Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of July 27, 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

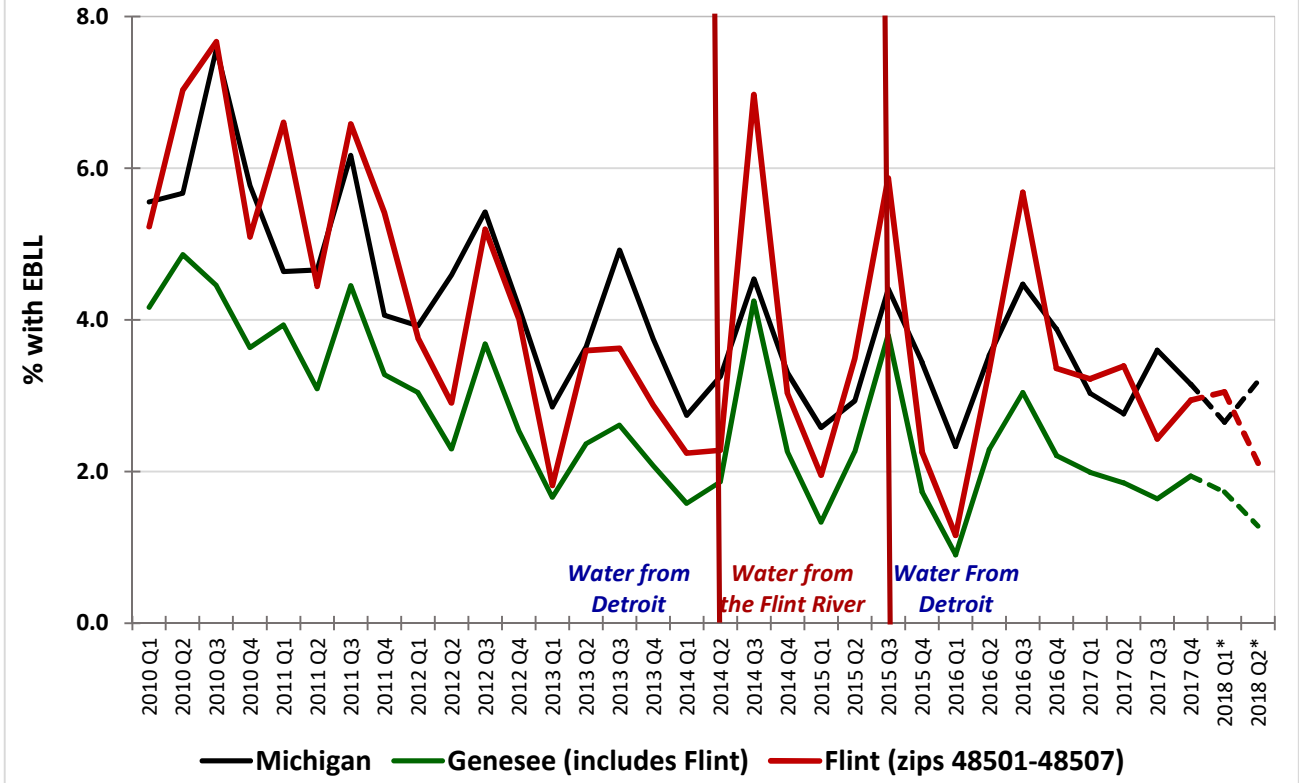
- Between 10/1/2015 and 07/27/2018, 38,566 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 304 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 µg/dL (micrograms lead per deciliter of blood).
- Of the 10,045 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 41 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2018, 36.6% 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 ($\geq 5 \mu\text{g}/\text{dL}$) by Quarter[†], Michigan, 2010 - 2018*

*Data as of July 27, 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 07/27/2018 | Total # of children tested for lead | 75,841 | 3,479 | 1,655 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 2,278 | 51 | 41 |
| | | % of children with results $\geq 5 \mu\text{g/dL}$ | 3.0% | 1.5% | 2.5% |
| | 1/1/2017 to 12/31/2017 | Total # of children tested for lead | 150,131 | 6,730 | 3,114 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 4,732 | 124 | 92 |
| | | % of children with results $\geq 5 \mu\text{g/dL}$ | 3.2% | 1.8% | 3.0% |
| | 1/1/2016 to 12/31/2016 | Total # of children tested for lead | 158,010 | 11,711 | 6,626 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 5,671 | 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 | 141,741 | 6,992 | 3,392 |
| | | 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 | 144,167 | 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 | 197,871 | 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 07/27/2018 | Total # of children tested for lead | 334,439 | 19,486 | 10,045 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 10,708 | 335 | 261 |
| | | % 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 | 01/01/2018 to 07/27/2018 | Total # of children tested for lead | 6,056 | 940 | 607 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | #REF! | 3 | 3 |
| | | % of children with results $\geq 5 \mu\text{g/dL}$ | #REF! | 0.3% | 0.5% |
| | 1/1/2017 to 12/31/2017 | Total # of children tested for lead | 13,705 | 2,496 | 1,670 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 281 | 16 | 13 |
| | | % of children with results $\geq 5 \mu\text{g/dL}$ | 2.1% | 0.6% | 0.8% |
| | 1/1/2016 to 12/31/2016 | Total # of children tested for lead | 24,407 | 9,679 | 7,310 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 418 | 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 | 10,470 | 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 | 10,594 | 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 | 14,935 | 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 07/27/2018 | Total # of children tested for lead | 43,175 | 12,609 | 9,147 |
| | | Children with test results $\geq 5 \mu\text{g/dL}$ | 719 | 57 | 43 |
| | | % 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 | 01/01/2018 to 07/27/2018 | Total # of adults tested for lead | 11,487 | 2,768 | 1,550 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 795 | 37 | 18 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 6.9% | 1.3% | 1.2% |
| | 1/1/2017 to 12/31/2017 | Total # of adults tested for lead | 20,054 | 5,342 | 3,217 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 1,281 | 91 | 58 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 6.4% | 1.7% | 1.8% |
| | 1/1/2016 to 12/31/2016 | Total # of adults tested for lead | 36,953 | 20,218 | 15,739 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 1,643 | 307 | 246 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 4.4% | 1.5% | 1.6% |
| | 1/1/2015 to 12/31/2015 | Total # of adults tested for lead | 13,702 | 1,250 | 811 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 1,368 | 48 | 21 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 10.0% | 3.8% | 2.6% |
| | 1/1/2014 to 12/31/2014 | Total # of adults tested for lead | 12,576 | 434 | 111 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 1,419 | 44 | 12 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 11.3% | 10.1% | 10.8% |
| During Flint River Use | 4/1/2014 to 9/30/2015 | Total # of adults tested for lead | 18,325 | 671 | 202 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 1,856 | 56 | 15 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 10.1% | 8.3% | 7.4% |
| After Flint River Use | 10/01/2015 to 07/27/2018 | Total # of adults tested for lead | 64,943 | 26,723 | 19,374 |
| | | Adults with test results $\geq 5 \mu\text{g/dL}$ | 3,065 | 393 | 296 |
| | | % of adults with results $\geq 5 \mu\text{g/dL}$ | 4.7% | 1.5% | 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 | 01/01/2018 to 07/27/2018 | Total # of people tested for lead | 93,384 | 7,187 | 3,812 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 3,210 | 91 | 62 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 3.4% | 1.3% | 1.6% |
| | 1/1/2017 to 12/31/2017 | Total # of people tested for lead | 183,890 | 14,568 | 8,001 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 6,294 | 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 | 219,370 | 41,608 | 29,675 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 7,732 | 571 | 454 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 3.5% | 1.4% | 1.5% |
| | 1/1/2015 to 12/31/2015 | Total # of people tested for lead | 165,913 | 9,815 | 5,288 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 6,443 | 217 | 140 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 3.9% | 2.2% | 2.6% |
| | 1/1/2014 to 12/31/2014 | Total # of people tested for lead | 167,337 | 8,042 | 3,582 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 6,795 | 228 | 138 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 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 | 11,123 | 4,942 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 9,212 | 316 | 188 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 4.0% | 2.8% | 3.8% |
| After Flint River Use | 10/01/2015 to 07/27/2018 | Total # of people tested for lead | 442,557 | 58,818 | 38,566 |
| | | People with test results $\geq 5 \mu\text{g/dL}$ | 14,492 | 785 | 600 |
| | | % of people with results $\geq 5 \mu\text{g/dL}$ | 3.3% | 1.3% | 1.6% |