

Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Executive Summary as of March 30, 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

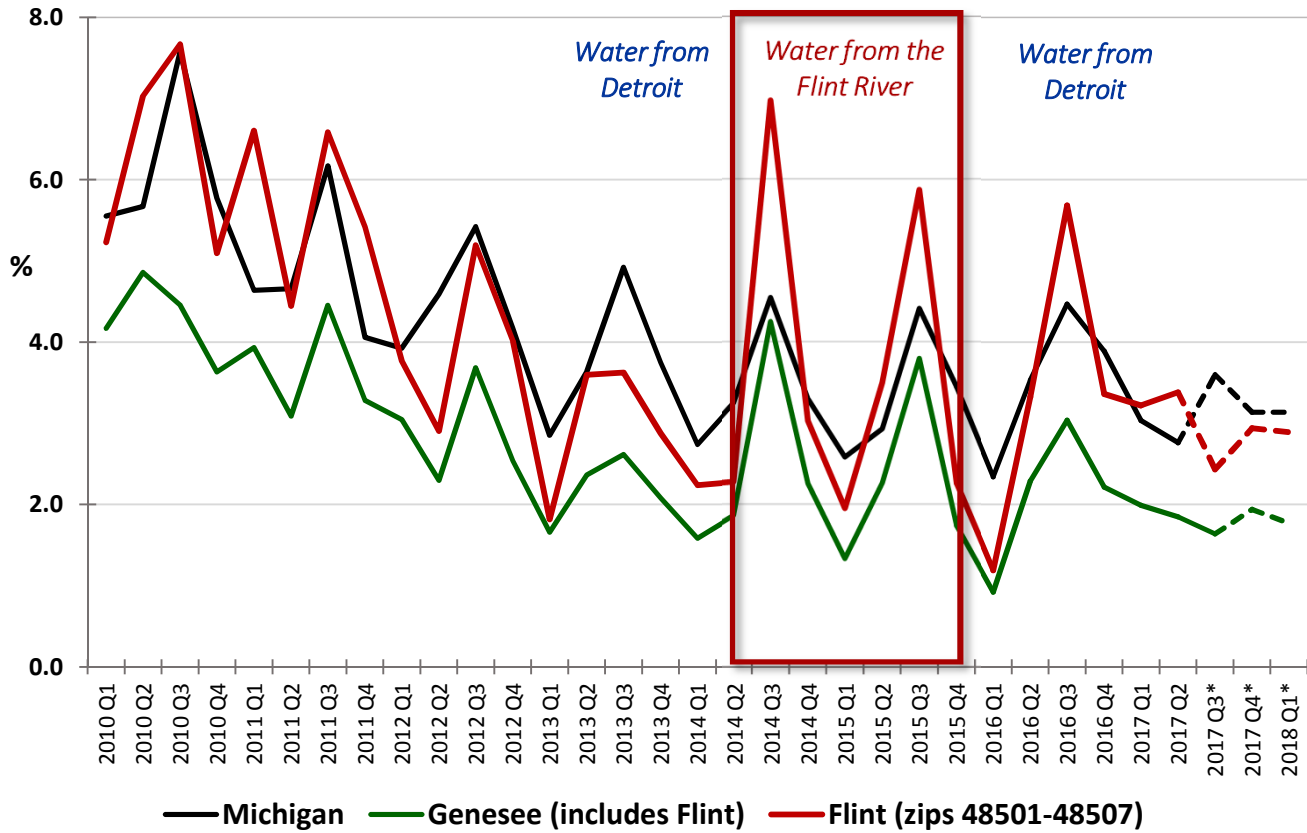
- Between 10/1/2015 and 03/30/2018, 37,355 people had a blood lead test in Flint (zip codes 48501-48507).
- Since 10/1/2015, 294 children under age 18 in the Flint zip codes 48501-48507 had elevated blood lead levels: blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood).
- Of the 9,519 children younger than 6 years old tested since 10/1/2015, 2.7% had blood lead levels greater than or equal to 5 mcg/dL.
- Of the 92 children younger than 6 from the Flint zip codes that had elevated blood lead levels in 2017, 26 (28.3%) had a previous elevated blood lead test.

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

- * **Starting February 1, 2018**, this report includes blood lead test counts that are based on the use of a new algorithm for assigning unique identifiers to individuals in the surveillance database. This new algorithm is more efficient and accurate than the previous system used, and the numbers of test results reported in the current and future Blood Lead Level Test Results may be different than those presented in reports produced before February 1, 2018.

Annual Incidence of Elevated Blood Lead ≥ 5 mcg/dL among Children <6 Years of Age by Quarter, Michigan, 2010 - 2018*

*Data as of March 30, 2018



† Blood lead levels greater than 5 $\mu\text{g}/\text{dL}$ (micrograms per deciliter of blood) are classified as elevated. People who have had multiple tests are counted only once per year for annual counts. Counts on this report include both capillary and venous blood tests.

* Data for Quarters 3 and 4 of 2017 and Quarter 1 of 2018 are provisional and subject to change.

Table 1. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children less than 6 years of age, 2014 – 2018

| | | | Michigan | Genesee County | Flint 48501-48507 |
|-------------------------------|--------------------------|---|-------------|----------------|-------------------|
| Annual Results | 01/01/2018 to 03/30/2018 | Total tested for lead | 30,626 | 1,356 | 657 |
| | | Number of test results ≥ 5 mcg/dL | 961 | 24 | 19 |
| | | Percent of test results ≥ 5 mcg/dL | 3.1% | 1.8% | 2.9% |
| | 1/1/2017 to 12/31/2017 | Total tested for lead | 150,074 | 6,731 | 3,115 |
| | | Number of test results ≥ 5 mcg/dL | 4,729 | 124 | 92 |
| | | Percent of test results ≥ 5 mcg/dL | 3.2% | 1.8% | 3.0% |
| | 1/1/2016 to 12/31/2016 | Total tested for lead | 158,014 | 11,713 | 6,627 |
| | | Number of test results ≥ 5 mcg/dL | 5,674 | 211 | 171 |
| | | Percent of test results ≥ 5 mcg/dL | 3.6% | 1.8% | 2.6% |
| | 1/1/2015 to 12/31/2015 | Total tested for lead | 141,751 | 6,994 | 3,393 |
| | | Number of test results ≥ 5 mcg/dL | 4,821 | 160 | 112 |
| | | Percent of test results ≥ 5 mcg/dL | 3.4% | 2.3% | 3.3% |
| | 1/1/2014 to 12/31/2014 | Total tested for lead | 144,182 | 6,819 | 3,099 |
| | | Number of test results ≥ 5 mcg/dL | 5,089 | 178 | 121 |
| | | Percent of test results ≥ 5 mcg/dL | 3.5% | 2.6% | 3.9% |
| During Flint River Use | 4/1/2014 to 9/30/2015 | Total tested for lead | 194,404 | 9,096 | 4,076 |
| | | Number of test results ≥ 5 mcg/dL | 6,867 | 251 | 166 |
| | | Percent of test results ≥ 5 mcg/dL | 3.5% | 2.8% | 4.1% |
| After Flint River Use | 10/01/2015 to 03/30/2018 | Total tested for lead | 306,972 | 18,237 | 9,519 |
| | | Number of test results ≥ 5 mcg/dL | 9,929 | 325 | 253 |
| | | Percent of test results ≥ 5 mcg/dL | 3.2% | 1.8% | 2.7% |

Table 2. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among children 6 to 17 years of age, 2014 – 2018

| | | | Michigan | Genesee County | Flint 48501-48507 |
|-------------------------------|--------------------------|---|-------------|----------------|-------------------|
| Annual Results | 01/01/2018 to 03/30/2018 | Total tested for lead | 2,471 | 415 | 253 |
| | | Number of test results ≥ 5 mcg/dL | 0 | 0 | 0 |
| | | Percent of test results ≥ 5 mcg/dL | 0.0% | 0.0% | 0.0% |
| | 1/1/2017 to 12/31/2017 | Total tested for lead | 13,704 | 2,496 | 1,670 |
| | | Number of test results ≥ 5 mcg/dL | 281 | 16 | 13 |
| | | Percent of test results ≥ 5 mcg/dL | 2.1% | 0.6% | 0.8% |
| | 1/1/2016 to 12/31/2016 | Total tested for lead | 24,406 | 9,678 | 7,310 |
| | | Number of test results ≥ 5 mcg/dL | 419 | 54 | 38 |
| | | Percent of test results ≥ 5 mcg/dL | 1.7% | 0.6% | 0.5% |
| | 1/1/2015 to 12/31/2015 | Total tested for lead | 10,458 | 1,571 | 1,084 |
| | | Number of test results ≥ 5 mcg/dL | 254 | 9 | 7 |
| | | Percent of test results ≥ 5 mcg/dL | 2.4% | 0.6% | 0.6% |
| | 1/1/2014 to 12/31/2014 | Total tested for lead | 10,579 | 788 | 372 |
| | | Number of test results ≥ 5 mcg/dL | 287 | 6 | 5 |
| | | Percent of test results ≥ 5 mcg/dL | 2.7% | 0.8% | 1.3% |
| During Flint River Use | 4/1/2014 to 9/30/2015 | Total tested for lead | 18,228 | 1,344 | 658 |
| | | Number of test results ≥ 5 mcg/dL | 486 | 9 | 7 |
| | | Percent of test results ≥ 5 mcg/dL | 2.7% | 0.7% | 1.1% |
| After Flint River Use | 10/01/2015 to 03/30/2018 | Total tested for lead | 40,437 | 12,325 | 8,974 |
| | | Number of test results ≥ 5 mcg/dL | 667 | 55 | 41 |
| | | Percent of test results ≥ 5 mcg/dL | 1.6% | 0.4% | 0.5% |

Table 3. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among adults at least 18 years of age, 2014 - 2018

| | | Michigan | Genesee County | Flint 48501-48507 | |
|-------------------------------|--------------------------|---|----------------|-------------------|--------------|
| Annual Results | 01/01/2018 to 03/30/2018 | Total tested for lead | 4,819 | 1,228 | 699 |
| | | Number of test results ≥ 5 mcg/dL | 355 | 19 | 7 |
| | | Percent of test results ≥ 5 mcg/dL | 7.4% | 1.5% | 1.0% |
| | 1/1/2017 to 12/31/2017 | Total tested for lead | 20,054 | 5,342 | 3,217 |
| | | Number of test results ≥ 5 mcg/dL | 1,281 | 91 | 58 |
| | | Percent of test results ≥ 5 mcg/dL | 6.4% | 1.7% | 1.8% |
| | 1/1/2016 to 12/31/2016 | Total tested for lead | 36,954 | 20,218 | 15,738 |
| | | Number of test results ≥ 5 mcg/dL | 1,643 | 307 | 246 |
| | | Percent of test results ≥ 5 mcg/dL | 4.4% | 1.5% | 1.6% |
| | 1/1/2015 to 12/31/2015 | Total tested for lead | 13,707 | 1,250 | 811 |
| | | Number of test results ≥ 5 mcg/dL | 1,369 | 48 | 21 |
| | | Percent of test results ≥ 5 mcg/dL | 10.0% | 3.8% | 2.6% |
| | 1/1/2014 to 12/31/2014 | Total tested for lead | 12,577 | 435 | 111 |
| | | Number of test results ≥ 5 mcg/dL | 1,419 | 44 | 12 |
| | | Percent of test results ≥ 5 mcg/dL | 11.3% | 10.1% | 10.8% |
| During Flint River Use | 4/1/2014 to 9/30/2015 | Total tested for lead | 18,501 | 683 | 208 |
| | | Number of test results ≥ 5 mcg/dL | 1,860 | 56 | 15 |
| | | Percent of test results ≥ 5 mcg/dL | 10.1% | 8.2% | 7.2% |
| After Flint River Use | 10/01/2015 to 03/30/2018 | Total tested for lead | 59,916 | 25,688 | 18,862 |
| | | Number of test results ≥ 5 mcg/dL | 2,884 | 385 | 289 |
| | | Percent of test results ≥ 5 mcg/dL | 4.8% | 1.5% | 1.5% |

Table 4. Incidence of elevated blood lead levels (≥ 5 mcg/dL) among residents of all ages, 2014 – 2018

| | | Michigan | Genesee County | Flint 48501-48507 | |
|-------------------------------|--------------------------|---|----------------|-------------------|-------------|
| Annual Results | 01/01/2018 to 03/30/2018 | Total tested for lead | 37,916 | 2,999 | 1,609 |
| | | Number of test results ≥ 5 mcg/dL | 1,370 | 43 | 26 |
| | | Percent of test results ≥ 5 mcg/dL | 3.6% | 1.4% | 1.6% |
| | 1/1/2017 to 12/31/2017 | Total tested for lead | 183,832 | 14,569 | 8,002 |
| | | Number of test results ≥ 5 mcg/dL | 6,291 | 231 | 163 |
| | | Percent of test results ≥ 5 mcg/dL | 3.4% | 1.6% | 2.0% |
| | 1/1/2016 to 12/31/2016 | Total tested for lead | 219,374 | 41,609 | 29,675 |
| | | Number of test results ≥ 5 mcg/dL | 7,736 | 572 | 455 |
| | | Percent of test results ≥ 5 mcg/dL | 3.5% | 1.4% | 1.5% |
| | 1/1/2015 to 12/31/2015 | Total tested for lead | 165,916 | 9,815 | 5,288 |
| | | Number of test results ≥ 5 mcg/dL | 6,444 | 217 | 140 |
| | | Percent of test results ≥ 5 mcg/dL | 3.9% | 2.2% | 2.6% |
| | 1/1/2014 to 12/31/2014 | Total tested for lead | 167,338 | 8,042 | 3,582 |
| | | Number of test results ≥ 5 mcg/dL | 6,795 | 228 | 138 |
| | | Percent of test results ≥ 5 mcg/dL | 4.1% | 2.8% | 3.9% |
| During Flint River Use | 4/1/2014 to 9/30/2015 | Total tested for lead | 231,133 | 11,123 | 4,942 |
| | | Number of test results ≥ 5 mcg/dL | 9,213 | 316 | 188 |
| | | Percent of test results ≥ 5 mcg/dL | 4.0% | 2.8% | 3.8% |
| After Flint River Use | 10/01/2015 to 03/30/2018 | Total tested for lead | 407,325 | 56,250 | 37,355 |
| | | Number of test results ≥ 5 mcg/dL | 13,480 | 765 | 583 |
| | | Percent of test results ≥ 5 mcg/dL | 3.3% | 1.4% | 1.6% |