



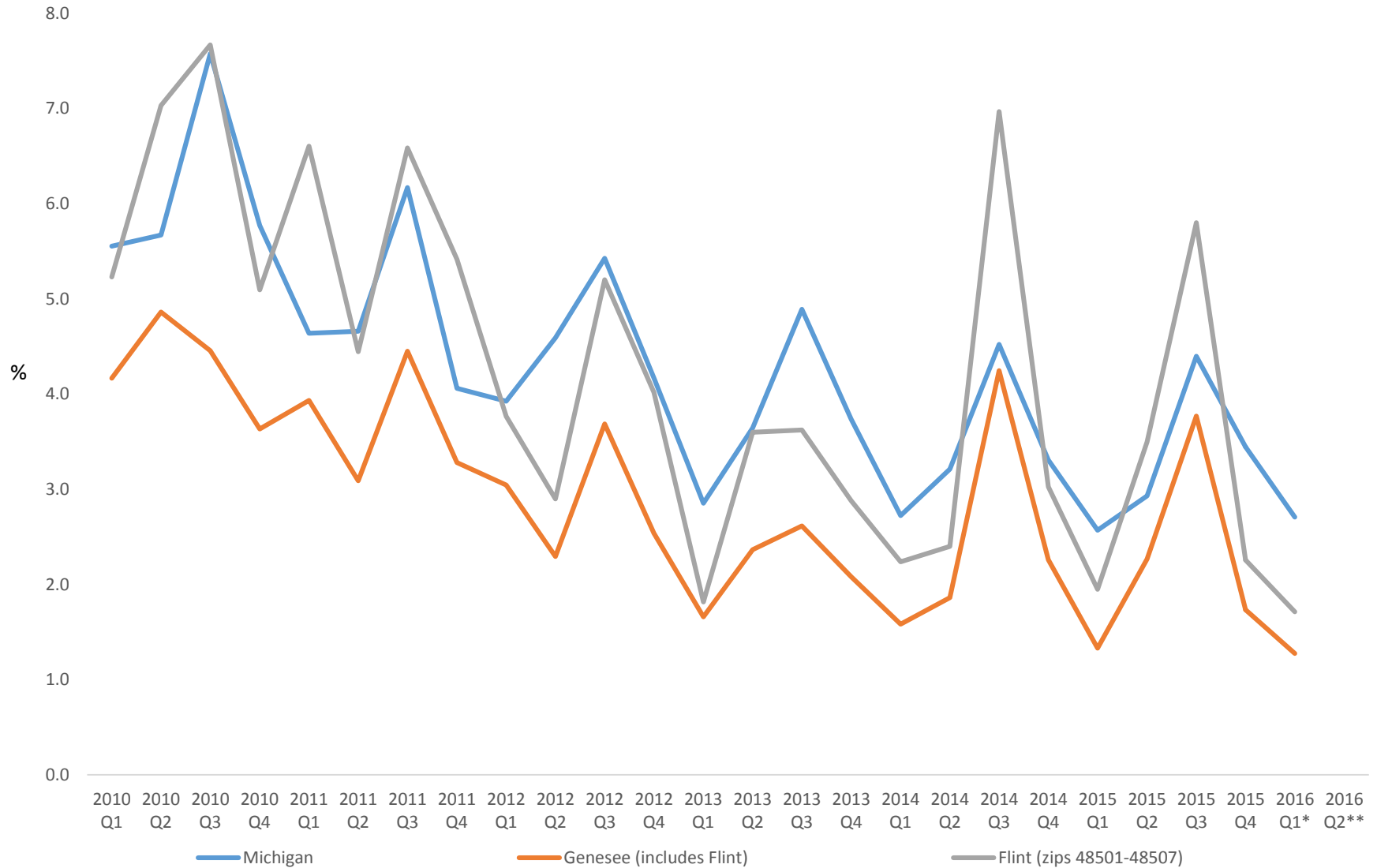
# Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of April 29, 2016

## Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Blood lead level testing is an important part of our efforts to identify people who have been harmed by drinking water that contained lead. However, MDHHS recognizes that the full community of Flint must be the focus of the public health response.
- People who have had multiple tests are counted only once per year for the annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years.
- Counts on this report include both capillary and venous blood tests.
- As of April 29, 2016, this report will no longer include test results for “Additional Impacted Locations” (48509, 48519, 48529, and 48532) because it has been demonstrated by CDC geographers that almost none of the addresses in these areas are serviced by water from the Flint River.
- Between 10/1/2015 and 4/29/2016, an additional 22,986 people were tested in Flint zip codes 48501-48507
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 140 children under age 18 in Flint zip codes 48501-48507 with blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood) since 10/1/2015.
- Of children younger than 6 years old tested between 10/1/2015 and 4/29/2016, 2.1% from Flint zip codes 48501-48507 had blood lead levels greater than or equal to 5 mcg/dL.

**Incidence of elevated blood lead  $\geq 5$  mcg/dL among children < 6 years of age by quarter, Michigan, 2010-2016**



\*Data for Quarter 1 are incomplete and subject to change.

\*\*Data for Quarter 2 are too incomplete for graphing.

**Table 1. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among children less than 6 years of age, 2010 – 2016**

		<b>Michigan</b>	<b>Genesee County</b>	<b>Flint 48501-48507</b>
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	156,014	7,053	3,630
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,754	306	230
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.3%	4.3%	6.3%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	152,333	6,760	3,145
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	7,571	252	182
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	5.0%	3.7%	5.8%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	149,037	7,152	3,198
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,832	210	130
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.6%	2.9%	4.1%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	148,400	7,132	3,142
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	5,720	158	96
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.9%	2.2%	3.1%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	143,838	6,820	3,102
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	5,051	178	122
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.5%	2.6%	3.9%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	140,778	6,981	3,387
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	4,783	159	111
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.4%	2.3%	3.3%
<b>10/1/2015 to 4/29/2016</b>	<b>Total tested for lead*</b>	83,323	8,260	5,247
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,535	132	109
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.0%	1.6%	2.1%
<b>4/1/2014 to 4/29/2016</b>	<b>Total tested for lead*</b>	256,861	14,962	7,659
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	8,804	313	219
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.4%	2.1%	2.9%
<b>1/1/2016 to 4/29/2016</b>	<b>Total tested for lead*</b>	50,188	6,394	4,232
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,458	101	88
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.9%	1.6%	2.1%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

**Table 2. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among children 6 to 17 years of age, 2010 – 2016**

		<b>Michigan</b>	<b>Genesee County</b>	<b>Flint 48501-48507</b>
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	14,729	760	400
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	665	17	12
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.5%	2.2%	3.0%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	12,959	959	499
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	474	19	13
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.7%	2.0%	2.6%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	12,710	1,259	561
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	351	13	9
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.8%	1.0%	1.6%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	11,428	1,109	505
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	269	7	3
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.4%	0.6%	0.6%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	10,562	788	372
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	285	6	5
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.7%	0.8%	1.3%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	10,416	1,570	1,084
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	254	10	8
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.4%	0.6%	0.7%
<b>10/1/2015 to 4/29/2016</b>	<b>Total tested for lead*</b>	14,189	7,624	6,017
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	208	35	31
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.5%	0.5%	0.5%
<b>4/1/2014 to 4/29/2016</b>	<b>Total tested for lead*</b>	28,108	8,500	6,377
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	491	39	34
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.7%	0.5%	0.5%
<b>1/1/2016 to 4/29/2016</b>	<b>Total tested for lead*</b>	11,229	6,773	5,357
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	149	32	27
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.3%	0.5%	0.5%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

**Table 3. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among adults at least 18 years of age, 2010 – 2016**

		<b>Michigan</b>	<b>Genesee County</b>	<b>Flint 48501-48507</b>
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	13,681	588	188
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,459	42	18
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.7%	7.1%	9.6%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	13,112	528	132
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,367	43	16
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.4%	8.1%	12.1%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	12,914	539	148
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,414	33	11
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.9%	6.1%	7.4%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	12,081	484	132
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,499	54	16
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	12.4%	11.2%	12.1%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	12,574	436	111
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,420	44	12
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	11.3%	10.1%	10.8%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	13,677	1,250	811
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,368	48	21
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.0%	3.8%	2.6%
<b>10/1/2015 to 4/29/2016</b>	<b>Total tested for lead*</b>	23,875	14,262	11,722
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,007	208	172
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.2%	1.5%	1.5%
<b>4/1/2014 to 4/29/2016</b>	<b>Total tested for lead*</b>	40,780	14,875	11,889
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,590	255	184
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.4%	1.7%	1.5%
<b>1/1/2016 to 4/29/2016</b>	<b>Total tested for lead*</b>	20,160	13,472	11,121
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	649	184	158
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.2%	1.4%	1.4%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

**Table 4. Total incidence of elevated blood lead levels ( $\geq 5$  mcg/dL), 2010 – 2016**

		<b>Michigan</b>	<b>Genesee County</b>	<b>Flint 48501-48507</b>
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	184,424	8,401	4,218
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,878	365	260
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.4%	4.3%	6.2%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	178,404	8,247	2,726
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,412	314	211
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	5.3%	3.8%	7.7%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	174,661	8,950	3,907
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	8,597	256	150
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.9%	2.9%	3.8%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	171,909	8,725	3,779
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	7,488	219	115
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.4%	2.5%	3.0%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	166,974	8,044	3,585
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,756	228	139
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.0%	2.8%	3.9%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	164,871	9,801	5,282
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,405	217	140
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.9%	2.2%	2.7%
<b>10/1/2015 to 4/29/2016</b>	<b>Total tested for lead*</b>	121,387	30,146	22,986
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	3,750	375	312
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.1%	1.2%	1.4%
<b>4/1/2014 to 4/29/2016</b>	<b>Total tested for lead*</b>	325,749	38,337	25,925
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,885	607	437
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.6%	1.6%	1.7%
<b>1/1/2016 to 4/29/2016</b>	<b>Total tested for lead*</b>	81,577	26,639	20,710
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,256	317	273
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.8%	1.2%	1.3%

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