



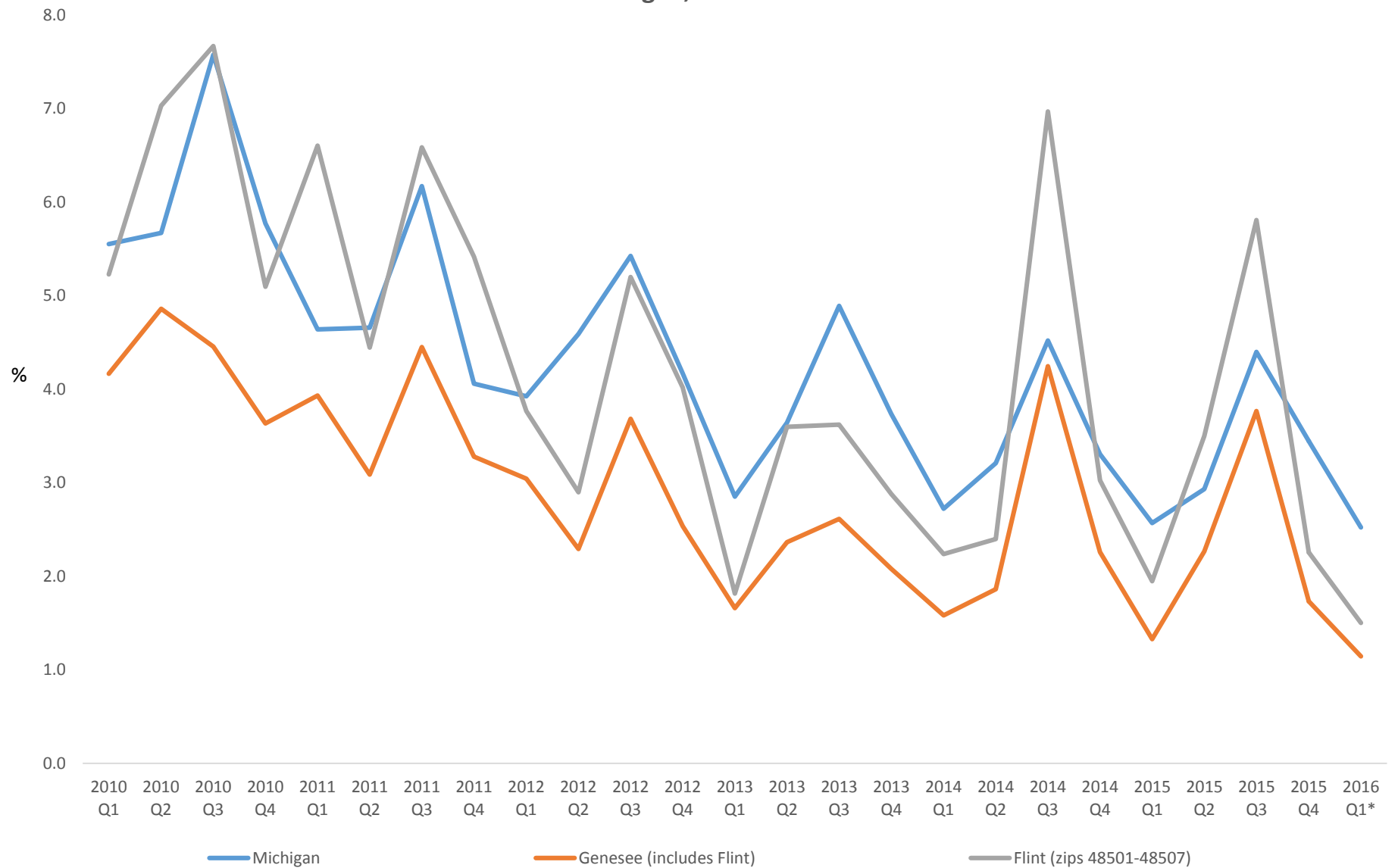
# Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of June 24, 2016

## 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 5/2/2016, 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 6/24/2016, an additional 26,312 people were tested in Flint zip codes 48501-48507.
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 169 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 6/24/2016, 2.3% from Flint zip codes 48501-48507 had blood lead levels greater than or equal to 5 mcg/dL.
- Twenty of the 57 children (35.1%) younger than 6 years old from Flint zip codes 48501-48507 with an elevated blood lead level (tested between 4/1/2016 and 6/24/2016) had a previous test result 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**

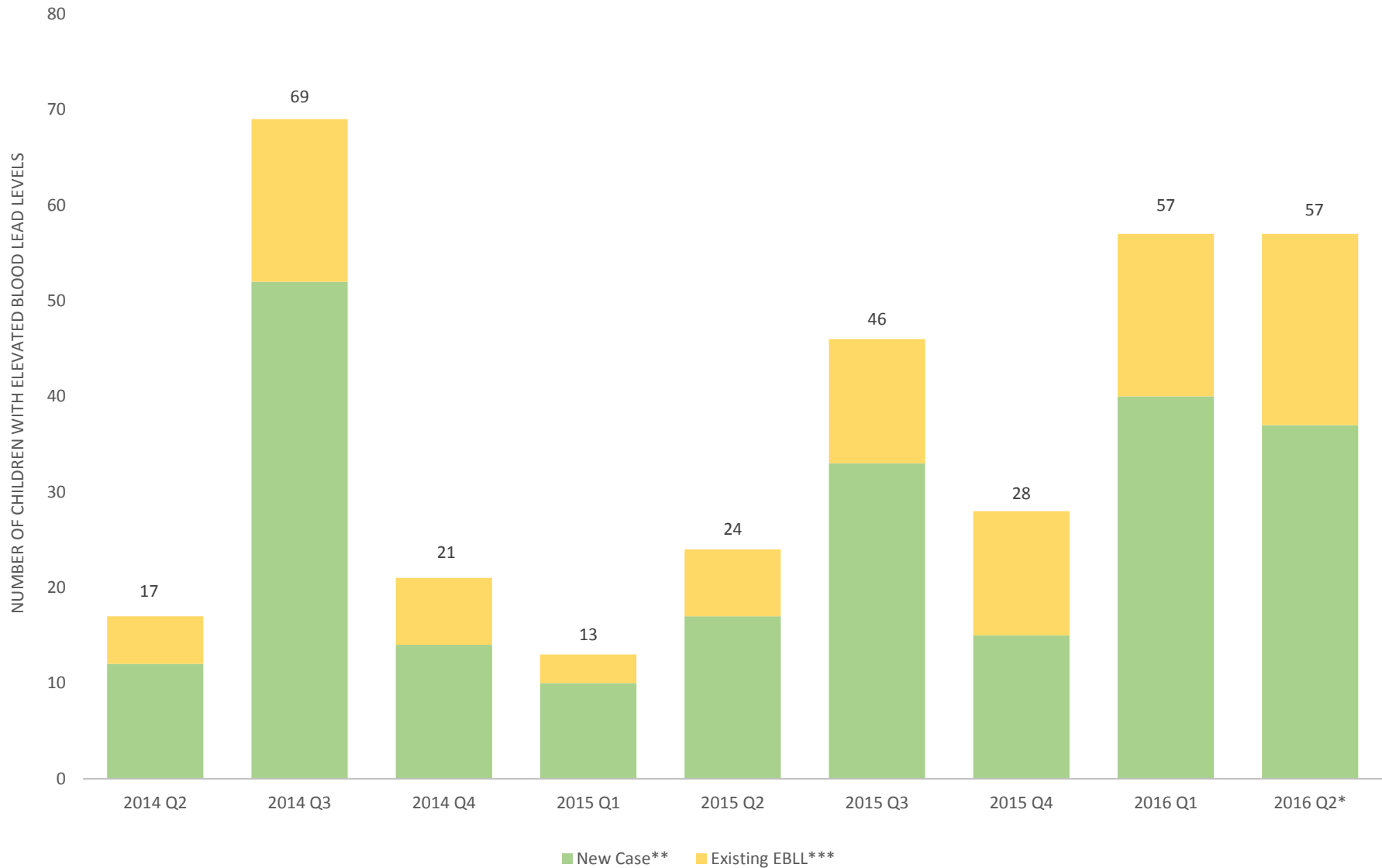


\*Data for Quarter 1 of 2016 are subject to change.

\*\*Data for Quarter 2 will be graphed once the quarter is complete.

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

## Elevated Blood Lead Levels ( $\geq 5$ mcg/dL) among Children <6 Years of Age by Quarter, Flint (48501-48507), 4/1/14 - 6/24/16



\*Data as of June 24, 2016

\*\*Child never had a previous elevated blood lead level

\*\*\*Child has a pre-existing elevated blood lead level that has not yet been brought down to <5 mcg/dL

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

**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>	140,781	6,981	3,386
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	4,784	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 6/24/2016</b>	<b>Total tested for lead*</b>	106,982	9,680	5,904
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	3,404	167	134
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.2%	1.7%	2.3%
<b>4/1/2014 to 6/24/2016</b>	<b>Total tested for lead*</b>	273,257	15,963	8,088
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,515	343	239
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.5%	2.1%	3.0%
<b>1/1/2016 to 6/24/2016</b>	<b>Total tested for lead*</b>	74,939	7,896	4,953
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,413	139	114
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.2%	1.8%	2.3%

\* 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 6/24/2016</b>	<b>Total tested for lead*</b>	17,644	8,664	6,740
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	276	43	35
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.6%	0.5%	0.5%
<b>4/1/2014 to 6/24/2016</b>	<b>Total tested for lead*</b>	31,280	9,502	7,080
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	549	46	37
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.8%	0.5%	0.5%
<b>1/1/2016 to 6/24/2016</b>	<b>Total tested for lead*</b>	14,731	7,836	6,099
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	219	39	30
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.5%	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>	13,676	1,250	811
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,367	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 6/24/2016</b>	<b>Total tested for lead*</b>	28,860	16,824	13,668
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,256	255	214
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.4%	1.5%	1.6%
<b>4/1/2014 to 6/24/2016</b>	<b>Total tested for lead*</b>	45,492	17,431	13,831
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,808	302	226
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.2%	1.7%	1.6%
<b>1/1/2016 to 6/24/2016</b>	<b>Total tested for lead*</b>	25,282	16,057	13,088
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	946	233	202
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.7%	1.5%	1.5%

\* 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>	164,873	9,801	5,281
	<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 6/24/2016</b>	<b>Total tested for lead*</b>	153,486	35,168	26,312
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	4,936	465	383
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.2%	1.3%	1.5%
<b>4/1/2014 to 6/24/2016</b>	<b>Total tested for lead*</b>	350,029	42,896	28,999
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	12,872	691	502
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.7%	1.6%	1.7%
<b>1/1/2016 to 6/24/2016</b>	<b>Total tested for lead*</b>	114,952	31,789	24,140
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	3,578	411	346
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.1%	1.3%	1.4%

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