



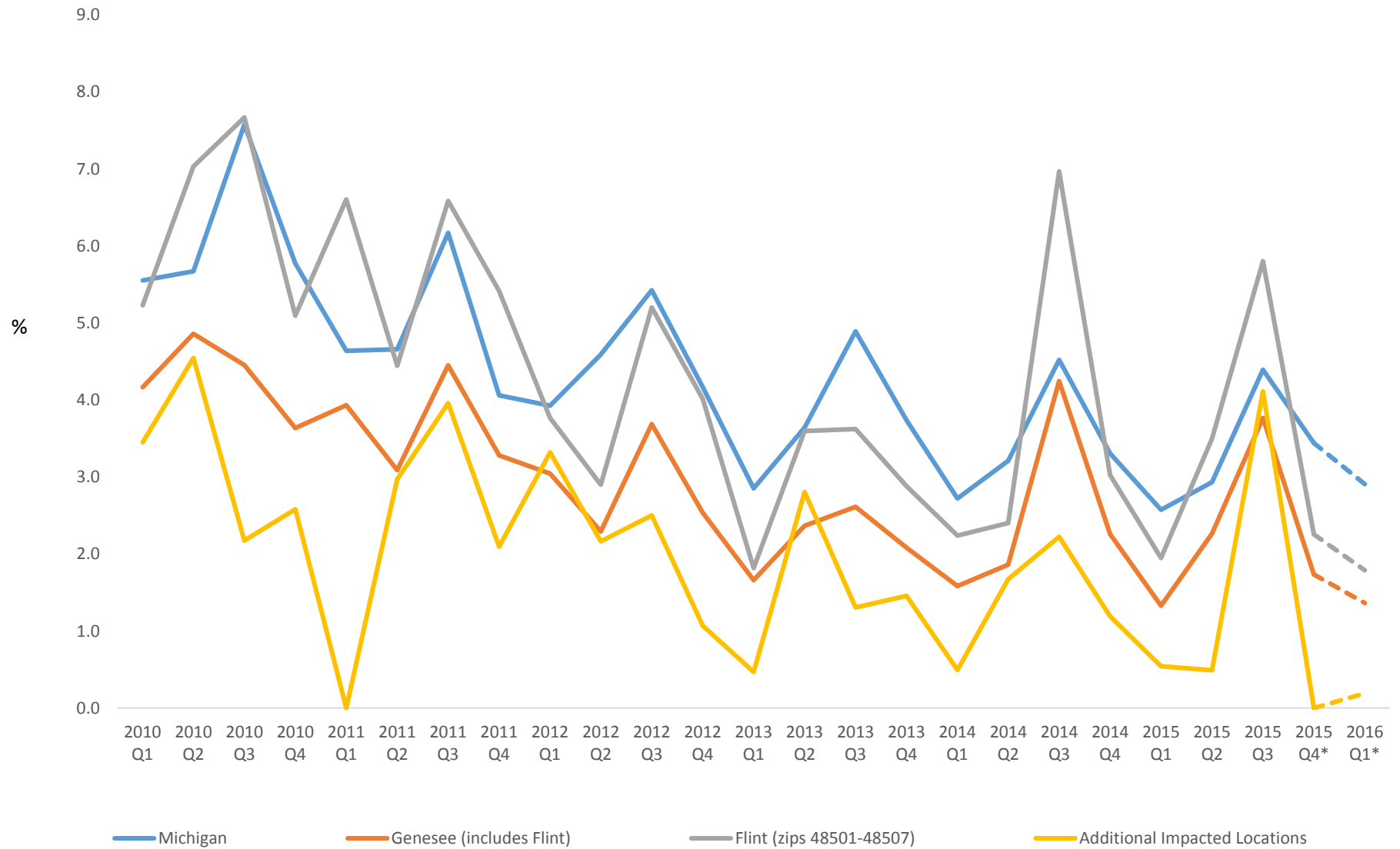
# Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of March 18, 2016

## 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 February 8, 2016, this report will include test results for four additional zip codes (48509, 48519, 48529, and 48532, referred to as “Additional Impacted Locations”) because some addresses in these areas are serviced by water from Flint River.
- Between 10/1/2015 and 3/18/2016, an additional 17,315 people were tested in Flint zip codes 48501-48507 and an additional 1,885 people were tested in the Additional Impacted Locations.
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 106 children under age 18 in Flint zip codes 48501-48507 and 3 children under age 18 in an Additional Impacted Location 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 3/18/2016, 1.9% from Flint zip codes 48501-48507 and 0.1% from an Additional Impacted Location had blood lead levels greater than or equal to 5 mcg/mL.

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



\* Data for Quarter 4 of 2015 and Quarter 1 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

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

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
1/1/2010 to 12/31/2010	Total tested for lead	156,014	7,053	3,630	779
	Number of test results $\geq 5$ mcg/dL	9,754	306	230	25
	Percent of test results $\geq 5$ mcg/dL	6.3%	4.3%	6.3%	3.2%
1/1/2011 to 12/31/2011	Total tested for lead	152,333	6,760	3,145	835
	Number of test results $\geq 5$ mcg/dL	7,571	252	182	21
	Percent of test results $\geq 5$ mcg/dL	5.0%	3.7%	5.8%	2.5%
1/1/2012 to 12/31/2012	Total tested for lead	149,037	7,152	3,198	909
	Number of test results $\geq 5$ mcg/dL	6,832	210	130	21
	Percent of test results $\geq 5$ mcg/dL	4.6%	2.9%	4.1%	2.3%
1/1/2013 to 12/31/2013	Total tested for lead	148,400	7,132	3,142	863
	Number of test results $\geq 5$ mcg/dL	5,720	158	96	13
	Percent of test results $\geq 5$ mcg/dL	3.9%	2.2%	3.1%	1.5%
1/1/2014 to 12/31/2014	Total tested for lead	143,838	6,820	3,102	880
	Number of test results $\geq 5$ mcg/dL	5,051	178	122	13
	Percent of test results $\geq 5$ mcg/dL	3.5%	2.6%	3.9%	1.5%
1/1/2015 to 12/31/2015	Total tested for lead*	140,768	6,981	3,388	817
	Number of test results $\geq 5$ mcg/dL	4,781	159	111	11
	Percent of test results $\geq 5$ mcg/dL	3.4%	2.3%	3.3%	1.3%
10/1/2015 to 3/18/2016	Total tested for lead*	65,716	6,663	4,290	724
	Number of test results $\geq 5$ mcg/dL	2,100	102	83	1
	Percent of test results $\geq 5$ mcg/dL	3.2%	1.5%	1.9%	0.1%
4/1/2014 to 3/18/2016	Total tested for lead*	244,856	13,879	7,027	1,668
	Number of test results $\geq 5$ mcg/dL	8,477	297	204	19
	Percent of test results $\geq 5$ mcg/dL	3.5%	2.1%	2.9%	1.1%
1/1/2016 to 3/18/2016	Total tested for lead*	31,860	4,695	3,189	525
	Number of test results $\geq 5$ mcg/dL	926	64	57	1
	Percent of test results $\geq 5$ mcg/dL	2.9%	1.4%	1.8%	0.2%

\* Data for Quarter 4 of 2015 and Quarter 1 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

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

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
1/1/2010 to 12/31/2010	Total tested for lead	14,729	760	400	76
	Number of test results $\geq 5$ mcg/dL	665	17	12	0
	Percent of test results $\geq 5$ mcg/dL	4.5%	2.2%	3.0%	0.0%
1/1/2011 to 12/31/2011	Total tested for lead	12,959	959	499	129
	Number of test results $\geq 5$ mcg/dL	474	19	13	2
	Percent of test results $\geq 5$ mcg/dL	3.7%	2.0%	2.6%	1.6%
1/1/2012 to 12/31/2012	Total tested for lead	12,710	1,259	561	185
	Number of test results $\geq 5$ mcg/dL	351	13	9	1
	Percent of test results $\geq 5$ mcg/dL	2.8%	1.0%	1.6%	0.5%
1/1/2013 to 12/31/2013	Total tested for lead	11,428	1,109	505	171
	Number of test results $\geq 5$ mcg/dL	269	7	3	2
	Percent of test results $\geq 5$ mcg/dL	2.4%	0.6%	0.6%	1.2%
1/1/2014 to 12/31/2014	Total tested for lead	10,562	788	372	111
	Number of test results $\geq 5$ mcg/dL	285	6	5	1
	Percent of test results $\geq 5$ mcg/dL	2.7%	0.8%	1.3%	0.9%
1/1/2015 to 12/31/2015	Total tested for lead*	10,415	1,570	1,084	172
	Number of test results $\geq 5$ mcg/dL	253	10	8	1
	Percent of test results $\geq 5$ mcg/dL	2.4%	0.6%	0.7%	0.6%
10/1/2015 to 3/18/2016	Total tested for lead*	10,763	5,928	4,729	470
	Number of test results $\geq 5$ mcg/dL	156	27	23	2
	Percent of test results $\geq 5$ mcg/dL	1.4%	0.5%	0.5%	0.4%
4/1/2014 to 3/18/2016	Total tested for lead*	24,939	6,866	5,133	627
	Number of test results $\geq 5$ mcg/dL	454	31	26	3
	Percent of test results $\geq 5$ mcg/dL	1.8%	0.5%	0.5%	0.5%
1/1/2016 to 3/18/2016	Total tested for lead*	7,740	5,031	4,029	400
	Number of test results $\geq 5$ mcg/dL	93	21	17	3
	Percent of test results $\geq 5$ mcg/dL	1.2%	0.4%	0.4%	0.8%

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\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

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

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
1/1/2010 to 12/31/2010	Total tested for lead	13,681	588	188	67
	Number of test results $\geq 5$ mcg/dL	1,459	42	18	3
	Percent of test results $\geq 5$ mcg/dL	10.7%	7.1%	9.6%	4.5%
1/1/2011 to 12/31/2011	Total tested for lead	13,112	528	132	50
	Number of test results $\geq 5$ mcg/dL	1,367	43	16	4
	Percent of test results $\geq 5$ mcg/dL	10.4%	8.1%	12.1%	8.0%
1/1/2012 to 12/31/2012	Total tested for lead	12,914	539	148	54
	Number of test results $\geq 5$ mcg/dL	1,414	33	11	3
	Percent of test results $\geq 5$ mcg/dL	10.9%	6.1%	7.4%	5.6%
1/1/2013 to 12/31/2013	Total tested for lead	12,081	484	132	54
	Number of test results $\geq 5$ mcg/dL	1,499	54	16	5
	Percent of test results $\geq 5$ mcg/dL	12.4%	11.2%	12.1%	9.3%
1/1/2014 to 12/31/2014	Total tested for lead	12,574	436	111	47
	Number of test results $\geq 5$ mcg/dL	1,420	44	12	5
	Percent of test results $\geq 5$ mcg/dL	11.3%	10.1%	10.8%	10.6%
1/1/2015 to 12/31/2015	Total tested for lead*	13,674	1,250	811	88
	Number of test results $\geq 5$ mcg/dL	1,377	48	21	6
	Percent of test results $\geq 5$ mcg/dL	10.1%	3.8%	2.6%	6.8%
10/1/2015 to 3/18/2016	Total tested for lead*	17,415	10,019	8,296	691
	Number of test results $\geq 5$ mcg/dL	870	160	126	10
	Percent of test results $\geq 5$ mcg/dL	5.0%	1.6%	1.5%	1.4%
4/1/2014 to 3/18/2016	Total tested for lead*	34,709	10,651	8,476	758
	Number of test results $\geq 5$ mcg/dL	2,489	209	139	18
	Percent of test results $\geq 5$ mcg/dL	7.2%	2.0%	1.6%	2.4%
1/1/2016 to 3/18/2016	Total tested for lead*	13,576	9,206	7,677	640
	Number of test results $\geq 5$ mcg/dL	449	136	112	8
	Percent of test results $\geq 5$ mcg/dL	3.3%	1.5%	1.5%	1.3%

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**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>Additional Impacted Locations**</b>
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	184,424	8,401	4,218	922
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,878	365	260	28
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.4%	4.3%	6.2%	3.0%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	178,404	8,247	2,726	1,014
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,412	314	211	27
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	5.3%	3.8%	7.7%	2.7%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	174,661	8,950	3,907	1,148
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	8,597	256	150	25
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.9%	2.9%	3.8%	2.2%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	171,909	8,725	3,779	1,088
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	7,488	219	115	20
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.4%	2.5%	3.0%	1.8%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	166,974	8,044	3,585	1,038
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,756	228	139	19
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.0%	2.8%	3.9%	1.8%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	164,857	9,801	5,283	1,077
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,411	217	140	18
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.9%	2.2%	2.7%	1.7%
<b>10/1/2015 to 3/18/2016</b>	<b>Total tested for lead*</b>	93,894	22,610	17,315	1,885
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	3,126	289	232	13
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.3%	1.3%	1.3%	0.7%
<b>4/1/2014 to 3/18/2016</b>	<b>Total tested for lead*</b>	304,504	31,396	20,636	3,053
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,420	537	369	40
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.8%	1.7%	1.8%	1.3%
<b>1/1/2016 to 3/18/2016</b>	<b>Total tested for lead*</b>	53,176	18,932	14,895	1,565
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,468	221	186	12
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.8%	1.2%	1.2%	0.8%

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