

MEDICAID BLOOD LEAD TESTING



Michigan Department of Health & Human Services

July 2016

Blood Lead Testing Methodology

- **Children must have been eligible for one of the following programs in July 2016**
 - Medicaid Managed Care (MC)
 - enrolled in a Medicaid Health Plan (MHP)
 - Medicaid Fee-for-Service (FFS)
 - enrolled for Medicaid Only FFS coverage
 - Medicaid and CSHCS Dual Eligible (Duals)
 - dually eligible for both Medicaid and CSHCS
- **Blood Lead testing results include children tested:**
 - on or before indicated birthday for 2 and 3 year olds
 - at any time between ages 1 to 6
- **Unique Client Identifier (UCI) used to establish link between Medicaid and lead databases.**

Blood Lead Testing Summary

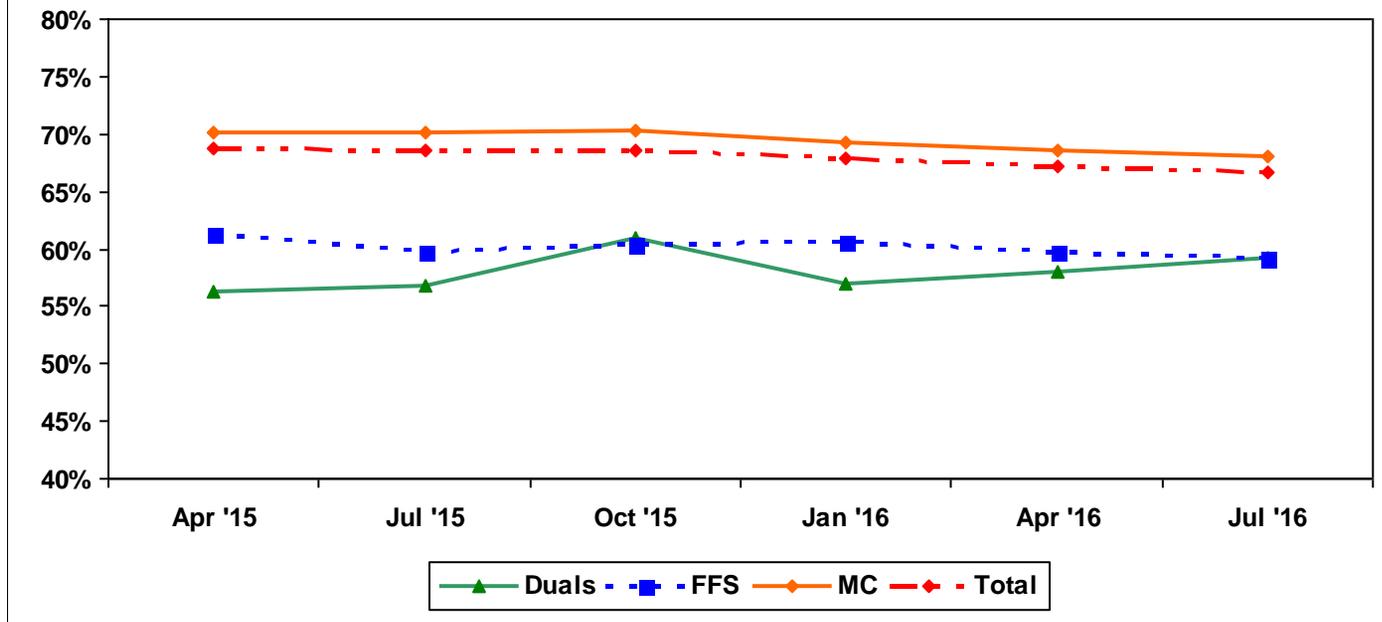
- **2 year old children tested on or before their 2nd birthday**

- 67% Statewide
- 62% City of Detroit
- 68% Statewide for Medicaid MC
 - 76% Statewide for Medicaid MC with 12-Month Continuous Enrollment
- 59% Statewide for Medicaid Only FFS Eligibles
- 59% Statewide for CSHCS Duals

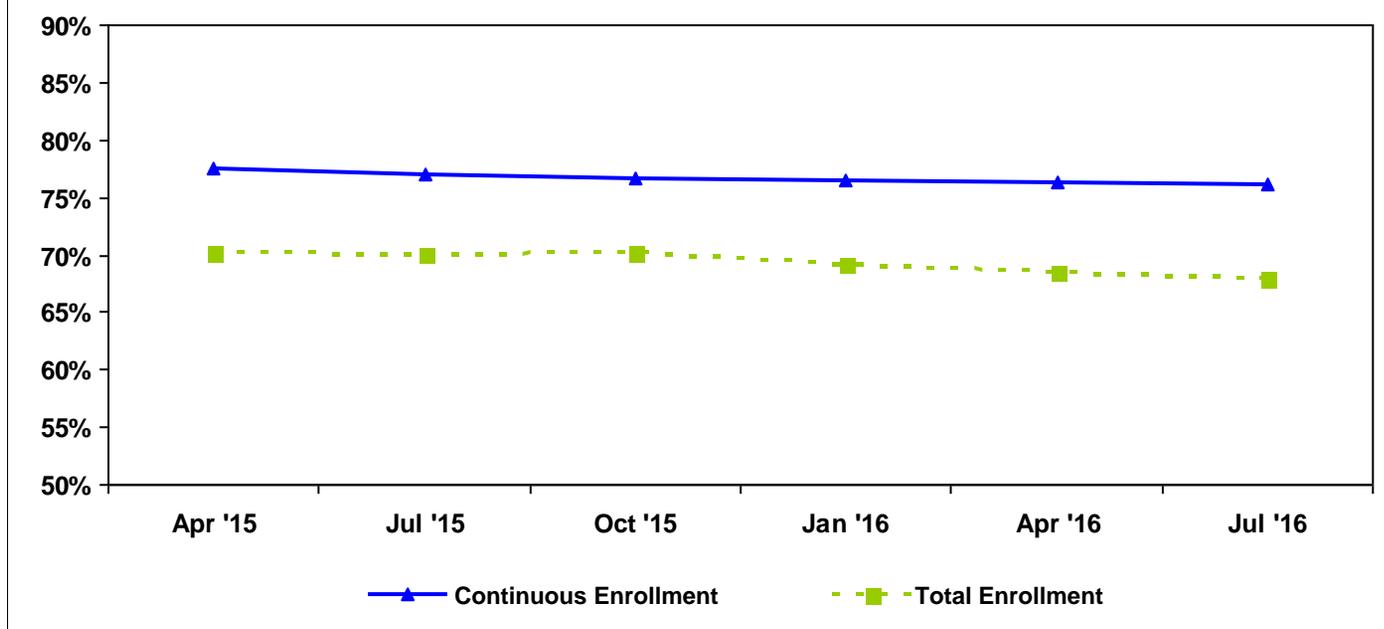
- **3 year old children tested on or before their 3rd birthday**

- 75% Statewide
- 76% City of Detroit
- 76% Statewide for Medicaid MC
 - 82% Statewide for Medicaid MC with 12-Month Continuous Enrollment
- 67% Statewide for Medicaid Only FFS Eligibles
- 66% Statewide for CSHCS Duals

Children Receiving at Least One Blood Lead Test on or before Second Birthday by Program Eligibility



Managed Care Enrolled Children Receiving at Least One Lead Test on or before Second Birthday



Total Enrollment

-Enrolled in measurement month

Continuous Enrollment

-Based on MMIS eligibility system

-Enrolled in same health plan for the measurement month and 12 months preceding 2nd birthday, with a 1-month allowable gap.

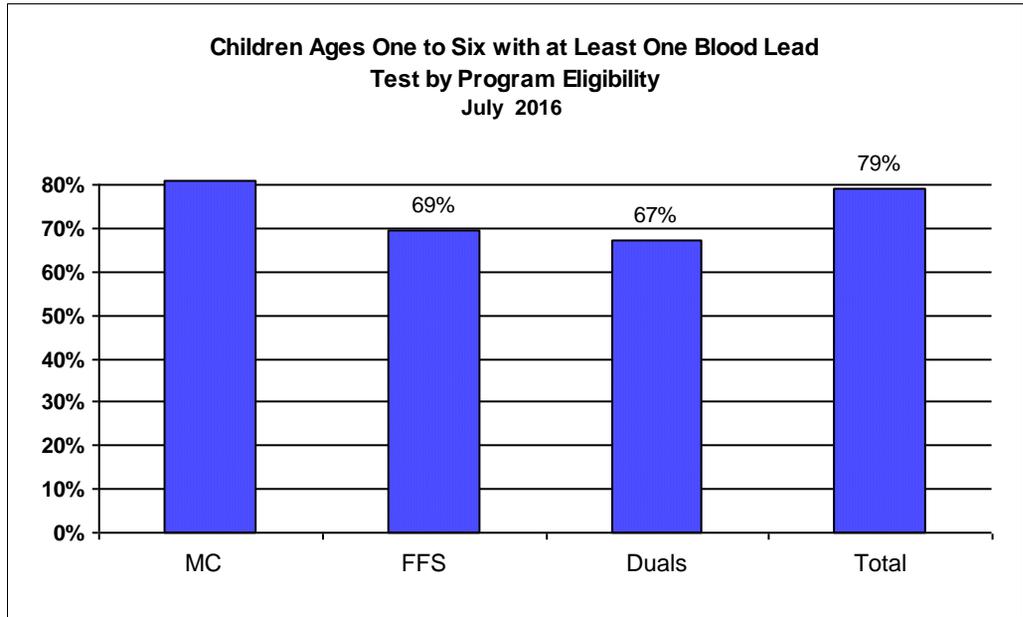
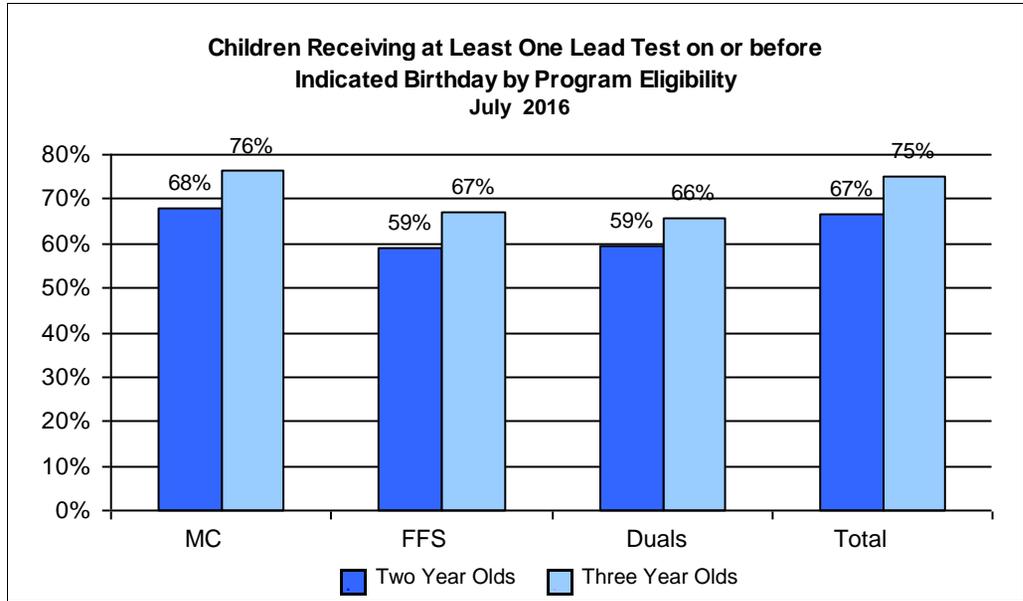


Table 1. Percent of Children with at Least One Blood Lead Test on or before their Second Birthday

Program	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
MC	70.2%	70.4%	70.1%	70.2%	70.0%	69.5%	69.3%	69.1%	69.0%	68.6%	68.5%	68.2%	68.0%
FFS	59.8%	58.8%	60.0%	60.4%	61.2%	60.1%	60.5%	59.5%	59.8%	59.7%	59.0%	59.0%	59.1%
Duals	56.8%	55.6%	58.4%	61.0%	60.4%	60.0%	56.9%	55.3%	53.4%	58.0%	59.4%	59.8%	59.2%
Total	68.6%	68.3%	68.4%	68.5%	68.4%	67.9%	67.9%	67.4%	67.3%	67.2%	67.0%	66.9%	66.7%

Table 2. Percent of Children with at Least One Blood Lead Test on or before their Third Birthday

Program	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
MC	76.8%	77.2%	77.2%	77.2%	77.3%	77.0%	76.8%	76.6%	76.6%	76.5%	76.5%	76.5%	76.3%
FFS	68.4%	67.1%	67.8%	68.1%	67.6%	67.8%	68.4%	67.1%	67.7%	68.4%	67.3%	67.0%	66.9%
Duals	63.4%	62.7%	66.0%	65.4%	66.5%	67.0%	65.3%	66.2%	66.2%	63.0%	62.7%	63.7%	65.7%
Total	75.5%	75.4%	75.5%	75.6%	75.5%	75.4%	75.4%	74.9%	75.0%	75.2%	75.1%	75.0%	74.9%

Table 3. Percent of Children Ages One to Six with at Least One Blood Lead Test

Program	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
MC	77.9%	79.1%	78.4%	78.5%	78.5%	79.0%	79.4%	80.3%	80.9%	80.7%	80.9%	81.1%	81.1%
FFS	67.5%	67.0%	67.2%	67.6%	67.6%	67.9%	67.8%	68.1%	68.1%	68.6%	68.9%	69.2%	69.5%
Duals	63.6%	65.2%	65.8%	66.8%	67.1%	67.0%	65.7%	65.7%	66.5%	66.9%	67.5%	66.8%	67.3%
Total	76.2%	76.8%	76.4%	76.4%	76.4%	77.0%	77.4%	78.0%	78.6%	78.7%	79.0%	79.2%	79.3%

Table 4. Statewide Blood Lead Testing of Two and Three Year Old Children for All Programs

July 2016

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	42	26	62%	33	22	67%
ALGER	26	18	69%	39	31	79%
ALLEGAN	586	377	64%	545	350	64%
ALPENA	149	115	77%	144	125	87%
ANTRIM	103	77	75%	102	79	77%
ARENAC	79	59	75%	83	66	80%
BARAGA	46	37	80%	44	37	84%
BARRY	239	150	63%	256	194	76%
BAY	543	432	80%	508	435	86%
BENZIE	89	75	84%	79	58	73%
BERRIEN	969	614	63%	1,067	765	72%
BRANCH	285	182	64%	294	214	73%
CALHOUN	928	611	66%	952	681	72%
CASS	271	150	55%	260	168	65%
CHARLEVOIX	111	83	75%	126	106	84%
CHEBOYGAN	129	87	67%	135	104	77%
CHIPPEWA	206	145	70%	176	146	83%
CLARE	191	153	80%	186	154	83%
CLINTON	246	170	69%	265	191	72%
CRAWFORD	69	52	75%	62	39	63%
DELTA	196	142	72%	189	156	83%
DICKINSON	137	93	68%	135	106	79%
EATON	456	300	66%	464	329	71%
EMMET	143	104	73%	133	112	84%
GENESEE	3,056	2,262	74%	2,856	2,329	82%
GLADWIN	117	87	74%	107	83	78%
GOGEBIC	67	43	64%	65	55	85%
GRAND TRAVERSE	421	295	70%	369	261	71%
GRATIOT	226	172	76%	241	198	82%
HILLSDALE	303	219	72%	292	236	81%
HOUGHTON	162	125	77%	179	147	82%
HURON	131	90	69%	126	94	75%
INGHAM	1,490	1,071	72%	1,603	1,261	79%
IONIA	322	215	67%	330	265	80%
IOSCO	141	94	67%	137	89	65%
IRON	54	43	80%	52	40	77%
ISABELLA	283	192	68%	279	212	76%
JACKSON	867	662	76%	887	754	85%
KALAMAZOO	1,353	1,040	77%	1,318	1,041	79%
KALKASKA	110	78	71%	112	86	77%
KENT	3,541	2,708	76%	3,585	2,955	82%
KEWEENAW	10	9	90%	5	2	40%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	75	58	77%	74	66	89%
LAPEER	410	241	59%	426	308	72%
LEELANAU	61	46	75%	73	50	68%
LENAWEE	514	283	55%	518	344	66%
LIVINGSTON	434	294	68%	433	288	67%
LUCE	35	26	74%	35	31	89%
MACKINAC	31	28	90%	39	35	90%
MACOMB	4,003	2,545	64%	3,948	2,770	70%
MANISTEE	92	80	87%	126	110	87%
MARQUETTE	247	169	68%	281	206	73%
MASON	133	109	82%	148	131	89%
MECOSTA	200	148	74%	207	152	73%
MENOMINEE	110	85	77%	104	77	74%
MIDLAND	324	151	47%	309	152	49%
MISSAUKEE	101	72	71%	94	65	69%
MONROE	585	348	59%	551	421	76%
MONTCALM	402	292	73%	368	281	76%
MONTMORENCY	41	28	68%	33	25	76%
MUSKEGON	1,224	671	55%	1,247	845	68%
NEWAYGO	290	197	68%	317	243	77%
OAKLAND	3,903	2,505	64%	3,739	2,671	71%
OCEANA	191	130	68%	199	166	83%
OGEMAW	128	78	61%	137	89	65%
ONTONAGON	15	9	60%	9	9	100%
OSCEOLA	131	93	71%	160	129	81%
OSCODA	44	23	52%	51	33	65%
OTSEGO	142	94	66%	142	106	75%
OTTAWA	964	599	62%	988	663	67%
PRESQUE ISLE	56	38	68%	52	41	79%
ROSCOMMON	100	75	75%	131	94	72%
SAGINAW	1,232	1,002	81%	1,232	1,081	88%
SAINT CLAIR	851	700	82%	820	702	86%
SAINT JOSEPH	455	312	69%	459	330	72%
SANILAC	175	126	72%	237	199	84%
SCHOOLCRAFT	32	27	84%	39	36	92%
SHIAWASSEE	370	298	81%	379	315	83%
TUSCOLA	268	217	81%	296	240	81%
VAN BUREN	496	259	52%	532	344	65%
WASHTENAW	1,112	675	61%	1,048	672	64%
DETROIT, CITY OF	7,082	4,372	62%	7,091	5,379	76%
WAYNE, ex Detroit	7,133	4,233	59%	6,973	4,887	70%
WEXFORD	270	188	70%	256	213	83%
MICHIGAN	53,355	35,581	67%	53,121	39,775	75%

Table 5. Statewide Blood Lead Testing of Two and Three Year Old Children Enrolled in Managed Care

July 2016

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	34	21	62%	22	18	82%
ALGER	22	14	64%	33	26	79%
ALLEGAN	453	305	67%	433	294	68%
ALPENA	130	104	80%	131	114	87%
ANTRIM	81	67	83%	84	67	80%
ARENAC	67	50	75%	73	59	81%
BARAGA	27	23	85%	28	22	79%
BARRY	200	130	65%	214	166	78%
BAY	475	382	80%	446	388	87%
BENZIE	76	66	87%	63	47	75%
BERRIEN	812	527	65%	913	670	73%
BRANCH	236	158	67%	235	176	75%
CALHOUN	730	492	67%	766	555	72%
CASS	225	128	57%	219	143	65%
CHARLEVOIX	96	72	75%	109	92	84%
CHEBOYGAN	104	73	70%	117	93	79%
CHIPPEWA	117	83	71%	108	88	81%
CLARE	167	133	80%	150	126	84%
CLINTON	214	152	71%	219	167	76%
CRAWFORD	59	45	76%	50	33	66%
DELTA	169	124	73%	170	140	82%
DICKINSON	111	79	71%	113	87	77%
EATON	384	259	67%	390	286	73%
EMMET	120	87	73%	110	92	84%
GENESEE	2,675	2,009	75%	2,521	2,071	82%
GLADWIN	104	78	75%	91	72	79%
GOGEBIC	57	38	67%	56	48	86%
GRAND TRAVERSE	372	263	71%	319	234	73%
GRATIOT	202	159	79%	211	177	84%
HILLSDALE	262	194	74%	248	202	81%
HOUGHTON	147	116	79%	165	135	82%
HURON	115	80	70%	109	83	76%
INGHAM	1,268	932	74%	1,359	1,090	80%
IONIA	263	178	68%	270	217	80%
IOSCO	128	88	69%	104	74	71%
IRON	52	42	81%	51	40	78%
ISABELLA	225	157	70%	236	183	78%
JACKSON	733	569	78%	756	650	86%
KALAMAZOO	1,129	891	79%	1,086	882	81%
KALKASKA	95	67	71%	96	74	77%
KENT	2,964	2,316	78%	2,915	2,463	84%
KEWEENAW	9	8	89%	3	0	0%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	63	49	78%	60	53	88%
LAPEER	348	214	61%	357	264	74%
LEELANAU	45	33	73%	60	40	67%
LENAWEE	417	224	54%	417	279	67%
LIVINGSTON	356	256	72%	362	239	66%
LUCE	32	24	75%	31	28	90%
MACKINAC	21	20	95%	24	21	88%
MACOMB	3,447	2,236	65%	3,428	2,460	72%
MANISTEE	69	60	87%	100	87	87%
MARQUETTE	215	154	72%	249	190	76%
MASON	106	87	82%	126	115	91%
MECOSTA	165	124	75%	172	129	75%
MENOMINEE	79	59	75%	71	49	69%
MIDLAND	283	135	48%	250	121	48%
MISSAUKEE	81	58	72%	75	52	69%
MONROE	482	293	61%	436	344	79%
MONTCALM	344	251	73%	303	237	78%
MONTMORENCY	31	21	68%	30	22	73%
MUSKEGON	1,008	565	56%	1,028	692	67%
NEWAYGO	244	170	70%	267	206	77%
OAKLAND	3,374	2,230	66%	3,258	2,386	73%
OCEANA	145	102	70%	156	132	85%
OGEAW	112	72	64%	116	79	68%
ONTONAGON	14	9	64%	8	8	100%
OSCEOLA	112	85	76%	130	108	83%
OSCODA	35	22	63%	45	30	67%
OTSEGO	120	82	68%	117	89	76%
OTTAWA	734	459	63%	747	497	67%
PRESQUE ISLE	45	35	78%	44	34	77%
ROSCOMMON	89	69	78%	111	83	75%
SAGINAW	1,078	894	83%	1,089	976	90%
SAINT CLAIR	740	616	83%	723	621	86%
SAINT JOSEPH	387	270	70%	381	281	74%
SANILAC	145	107	74%	204	171	84%
SCHOOLCRAFT	28	23	82%	35	33	94%
SHIAWASSEE	309	249	81%	322	272	84%
TUSCOLA	217	173	80%	249	204	82%
VAN BUREN	404	219	54%	457	302	66%
WASHTENAW	935	585	63%	899	589	66%
DETROIT, CITY OF	6,179	3,862	63%	6,241	4,788	77%
WAYNE, ex Detroit	6,136	3,704	60%	6,021	4,348	72%
WEXFORD	220	160	73%	194	165	85%
MICHIGAN	45,303	30,819	68%	45,185	34,468	76%

**Table 6. Statewide Blood Lead Testing of Two and Three Year Old Children Eligible for Medicaid Only Fee-for-Service Coverage
July 2016**

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	8	5	63%	10	4	40%
ALGER	4	4	100%	6	5	83%
ALLEGAN	127	70	55%	109	56	51%
ALPENA	18	10	56%	11	9	82%
ANTRIM	20	8	40%	18	12	67%
ARENAC	11	8	73%	9	7	78%
BARAGA	18	13	72%	14	13	93%
BARRY	37	18	49%	41	27	66%
BAY	66	50	76%	58	44	76%
BENZIE	13	9	69%	16	11	69%
BERRIEN	155	85	55%	153	94	61%
BRANCH	49	24	49%	58	37	64%
CALHOUN	187	111	59%	184	124	67%
CASS	46	22	48%	39	24	62%
CHARLEVOIX	14	11	79%	16	14	88%
CHEBOYGAN	25	14	56%	18	11	61%
CHIPPEWA	87	61	70%	65	56	86%
CLARE	23	19	83%	36	28	78%
CLINTON	32	18	56%	46	24	52%
CRAWFORD	9	6	67%	12	6	50%
DELTA	27	18	67%	19	16	84%
DICKINSON	25	14	56%	22	19	86%
EATON	70	39	56%	73	43	59%
EMMET	23	17	74%	22	19	86%
GENESEE	372	249	67%	322	249	77%
GLADWIN	13	9	69%	16	11	69%
GOGEBIC	10	5	50%	9	7	78%
GRAND TRAVERSE	47	32	68%	48	25	52%
GRATIOT	24	13	54%	30	21	70%
HILLSDALE	41	25	61%	40	31	78%
HOUGHTON	15	9	60%	14	12	86%
HURON	16	10	63%	16	10	63%
INGHAM	213	133	62%	239	167	70%
IONIA	57	36	63%	58	46	79%
IOSCO	13	6	46%	32	14	44%
IRON	2	1	50%	1	0	0%
ISABELLA	57	34	60%	40	27	68%
JACKSON	124	87	70%	124	97	78%
KALAMAZOO	221	147	67%	224	154	69%
KALKASKA	15	11	73%	16	12	75%
KENT	559	381	68%	650	480	74%
KEWEENAW	1	1	100%	2	2	100%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	12	9	75%	13	12	92%
LAPEER	58	24	41%	66	42	64%
LEELANAU	16	13	81%	13	10	77%
LENAWEE	93	58	62%	98	64	65%
LIVINGSTON	74	35	47%	69	47	68%
LUCE	3	2	67%	3	2	67%
MACKINAC	9	7	78%	13	12	92%
MACOMB	539	300	56%	510	303	59%
MANISTEE	22	19	86%	26	23	88%
MARQUETTE	31	15	48%	31	16	52%
MASON	25	21	84%	22	16	73%
MECOSTA	35	24	69%	35	23	66%
MENOMINEE	31	26	84%	33	28	85%
MIDLAND	38	14	37%	57	30	53%
MISSAUKEE	20	14	70%	19	13	68%
MONROE	103	55	53%	111	74	67%
MONTCALM	57	41	72%	62	41	66%
MONTMORENCY	10	7	70%	3	3	100%
MUSKEGON	208	99	48%	209	145	69%
NEWAYGO	46	27	59%	48	35	73%
OAKLAND	509	264	52%	462	277	60%
OCEANA	46	28	61%	42	33	79%
OGEMAW	16	6	38%	19	9	47%
ONTONAGON	1	0	0%	1	1	100%
OSCEOLA	18	8	44%	30	21	70%
OSCODA	9	1	11%	5	3	60%
OTSEGO	22	12	55%	23	16	70%
OTTAWA	216	132	61%	231	157	68%
PRESQUE ISLE	11	3	27%	8	7	88%
ROSCOMMON	11	6	55%	20	11	55%
SAGINAW	149	105	70%	138	102	74%
SAINT CLAIR	108	82	76%	93	78	84%
SAINT JOSEPH	65	41	63%	77	48	62%
SANILAC	29	19	66%	32	27	84%
SCHOOLCRAFT	4	4	100%	4	3	75%
SHIAWASSEE	59	48	81%	56	42	75%
TUSCOLA	50	43	86%	44	35	80%
VAN BUREN	91	39	43%	74	41	55%
WASHTENAW	173	89	51%	140	80	57%
DETROIT, CITY OF	885	499	56%	840	583	69%
WAYNE, ex Detroit	974	515	53%	926	526	57%
WEXFORD	49	27	55%	61	47	77%
MICHIGAN	7,819	4,624	59%	7,703	5,154	67%

Table 7: Blood Lead Testing of Two Year Old Children by Length of Enrollment
July 2016

Health Plan Name	Total Enrollment			Continuous Enrollment			
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Percentage Point Difference with Continuous Enrollment
Aetna Better Health of Michigan	1,087	695	64%	422	302	72%	8
Blue Cross Complete	3,501	2,130	61%	955	671	70%	9
Harbor Health Plan	215	110	51%	45	30	67%	16
McLaren Health Plan	5,079	3,764	74%	2,320	1,927	83%	9
Meridian Health Plan of Michigan	13,277	9,062	68%	5,921	4,552	77%	9
Midwest Health Plan	55	28	51%	6	4	67%	16
Molina Healthcare of Michigan	9,686	6,541	68%	2,995	2,105	70%	3
Priority Health Govt Pgms	3,212	2,283	71%	1,308	1,068	82%	11
Total Health Care	1,379	797	58%	657	433	66%	8
United Healthcare Community Plan	6,763	4,624	68%	3,367	2,555	76%	8
Upper Peninsula Health Plan	1,102	814	74%	574	490	85%	12
Managed Care Totals/Percent	45,356	30,848	68%	18,570	14,137	76%	8
Current Performance Monitoring Standard	N/A			80%			
FFS (Title XIX only)	7,840	4,634	59%	1,208	797	66%	7
FFS (Title V/XIX)	233	138	59%	121	69	57%	-2
FFS Totals (Title XIX & V/XIX)	8,073	4,772	59%	1,329	866	65%	6

Total Enrollment

- Based on MMIS eligibility system
- Enrolled in plan (health plan or FFS) for the measurement month

Continuous Enrollment

- Based on MMIS eligibility system
- Enrolled in same plan (health plan or FFS) for the measurement month and 12 months preceding 2nd birthday, with 1-month allowable gap

**Table 8. Blood Lead Testing of Three Year Old Children by Length of Enrollment
July 2016**

Health Plan Name	Total Enrollment			Continuous Enrollment			
	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday	Percentage Point Difference with Continuous Enrollment
Aetna Better Health of Michigan	1,119	846	76%	580	488	84%	8
Blue Cross Complete	3,188	2,201	69%	865	659	76%	7
Harbor Health Plan	153	92	60%	53	40	75%	15
McLaren Health Plan	4,976	4,019	81%	2,533	2,178	86%	5
Meridian Health Plan of Michigan	13,098	10,023	77%	6,634	5,518	83%	6
Midwest Health Plan	35	28	80%	5	5	100%	20
Molina Healthcare of Michigan	9,930	7,685	77%	3,612	2,883	80%	3
Priority Health Govt Pgms	3,143	2,382	76%	1,353	1,132	84%	8
Total Health Care	1,409	993	70%	817	616	75%	5
United Healthcare Community Plan	7,032	5,315	76%	4,052	3,253	80%	4
Upper Peninsula Health Plan	1,147	915	80%	639	571	89%	9
Managed Care Totals/Percent	45,230	34,499	76%	21,143	17,343	82%	6
FFS (Title XIX only)	7,719	5,163	67%	1,587	1,154	73%	6
FFS (Title V/XIX)	233	153	66%	117	72	62%	-4
FFS Totals (Title XIX & V/XIX)	7,952	5,316	67%	1,704	1,226	72%	5

Total Enrollment

- Based on MMIS eligibility system
- Enrolled in plan (health plan or FFS) for the measurement month

Continuous Enrollment

- Based on MMIS eligibility system
- Enrolled in same plan (health plan or FFS) for the measurement month and 12 months preceding 3rd birthday, with 1-month allowable gap