

CHILDREN WITH ELEVATED BLOOD LEAD LEVELS

(FY2009 Appropriation Bill – Public Act 246 of 2008)

February 1, 2009

Section 1129: The department shall provide a report annually to the house of representatives and senate appropriations subcommittees on community health, the house and senate fiscal agencies, and the state budget director on the number of children with elevated blood lead levels from information available to the department. The report shall provide the information by county, shall include the level of blood lead reported, and shall indicate the sources of the information.

*Michigan Department
of Community Health*



**Jennifer M. Granholm, Governor
Janet Olszewski, Director**

Legislative Report
Annual Childhood Lead Poisoning and Expenditures Report
Covering Fiscal Year 2007-08 (10/01/2007-09/30/2008)
February 1, 2009

This report is provided in response to MCL 333.5474 (2) and (3) and Public Act 246 of 2008 Section 1129.

Michigan Children Tested and Their Test Results

The following tables reflect lead testing numbers and blood lead test results by county for children through age six (Table 1) and less than sixteen years of age (Table 2) for fiscal year 2007-08. Figure 1 depicts the statewide testing information for the past three fiscal years for Michigan children \leq six years of age.

The Centers for Disease Control and Prevention (CDC) defines lead poisoning as having a venous blood lead test result of ≥ 10 micrograms per deciliter (see footnotes for Figure 1). As indicated in Table 1, there were 1,874 children through six years of age with an elevated blood lead level (EBLL) identified during FY08. In Table 1, data also reflect that statewide, 158,423 children through six years of age were tested; this is 17.7% of Michigan's total population of children in this age group. Although not shown in Table 1, 70.1% of those tested were Medicaid-enrolled. It is also important to note that the percentage of Michigan children through age of six with an EBLL has decreased from 9.9% during FY98 to 1.2% in FY08.

However, while overall prevalence has decreased, Medicaid-enrolled children still bear a disproportionate burden of lead poisoning.

- of children with blood lead levels 10-19 micrograms per deciliter, 86.2% were Medicaid enrolled;
- of children with blood lead levels 20-44 micrograms per deciliter, 87.8% were Medicaid enrolled; and
- of children with blood lead levels 45 micrograms per deciliter and greater, 90.5% were Medicaid enrolled.

Recommendations

1. That MDCH and its partners will continue to work collaboratively through local coalitions in the target communities. The work of the coalitions has resulted in a significant increase in funding through federal and local grants to address lead hazards in housing as well as increasing lead awareness and education and testing.
2. That MDCH work closely with the governor-appointed Childhood Lead Poisoning Prevention and Control Commission to create a coordinated, cross-sector, multi-stakeholder, aggressive effort to eliminate lead hazards from Michigan housing stock, increase testing of at-risk children, develop solutions to fund lead abatement through use of loans and tax credits, develop new, sustainable funding streams, and examine rental property owner liability and potential liability relief that's beneficial to both the rental property owner as well as the tenants.
3. That MDCH will continue to address all CDC required program components which includes an elimination plan, screening/testing, case management, surveillance, primary prevention,

and strategic partnerships. The primary prevention component will be a primary focus. Primary prevention strategies will focus on residents of pre-1950 housing in target communities, pregnant women, women of childbearing age, families with young children, and special populations. As resources are limited, MDCH must develop creative strategies, i.e; volunteer programs, to reach the primary prevention goals and objectives.

4. That MDCH will move toward a coordinated healthy homes approach, as encouraged by the CDC, Housing and Urban Development (HUD), and the Environmental Protection Agency (EPA), which will address a number of issues including, but not limited to, lead poisoning, injury prevention, pest management, and asthma.

**Table 1
Childhood Lead Poisoning Data Facts
Fiscal Year 2007-2008 -- By County -- Children through Six Years of Age**

County	Children through Age 6, Tested for Lead during FY0708		Children with Elevated Blood Lead Levels			Children with Elevated Capillary Tests, Not Confirmed by Venous										
	Children through Age 6*	Number of Children Tested	% Tested	% with BLL >= 5 ug/dL	% EBLL (>= 10 ug/dL venous only)**	5 to 9 ug/dL (capillary, venous or unknown)	10-14 ug/dL (venous only)	15-19 ug/dL (venous only)	20-44 ug/dL (venous only)	≥45 ug/dL (venous only)	Total EBLL (≥ 10 ug/dL)	Capillary 10-14, not confirmed by venous	Capillary 15-19, not confirmed by venous	Capillary 20-44, not confirmed by venous	Capillary ≥45, not confirmed by venous	Total Elevated Capillary, not confirmed by venous
Alcona	561	140	24.9	10.7	0.7	12	1	0	0	0	1	0	2	0	0	2
Alger	563	98	17.4	5.1	0.0	4	0	0	0	0	0	1	0	0	0	1
Allegan	10,489	1,571	15.0	6.5	0.3	89	3	0	1	0	4	8	0	1	0	9
Alpena	2,030	381	18.8	8.7	0.0	26	0	0	0	0	0	5	1	1	0	7
Antrim	1,781	242	13.6	7.9	0.0	19	0	0	0	0	0	0	0	0	0	0
Arenac	1,194	214	17.9	6.5	0.0	13	0	0	0	0	0	1	0	0	0	1
Baraga	631	158	25.0	4.4	0.0	6	0	0	0	0	0	1	0	0	0	1
Barry	5,038	727	14.4	8.7	0.8	54	6	0	0	0	6	3	0	0	0	3
Bay	8,667	1,515	17.5	9.0	0.8	118	7	3	2	0	12	4	2	0	0	6
Benzie	1,434	160	11.2	5.6	1.3	7	2	0	0	0	2	0	0	0	0	0
Berrien	14,560	2,574	17.7	13.8	1.6	298	28	8	5	0	41	11	3	3	0	17
Branch	4,064	527	13.0	14.6	0.2	66	1	0	0	0	1	10	0	0	0	10
Calhoun	12,696	2,747	21.6	10.6	1.2	249	17	10	5	0	32	11	0	0	0	11
Cass	3,875	578	14.9	13.5	0.5	72	1	1	1	0	3	1	2	0	0	3
Charlevoix	2,036	279	13.7	6.5	0.7	16	1	0	1	0	2	0	0	0	0	0
Cheboygan	1,935	292	15.1	5.1	0.0	15	0	0	0	0	0	0	0	0	0	0
Chippewa	2,546	464	18.2	3.4	0.4	14	2	0	0	0	2	0	0	0	0	0
Clare	2,346	426	18.2	6.1	0.2	24	1	0	0	0	1	0	1	0	0	1
Clinton	5,980	673	11.3	4.2	0.7	23	3	1	1	0	5	0	0	0	0	0
Crawford	960	120	12.5	5.0	0.0	6	0	0	0	0	0	0	0	0	0	0
Delta	2,792	430	15.4	7.0	0.7	27	3	0	0	0	3	0	0	0	0	0
Dickinson	1,966	396	20.1	2.0	0.0	8	0	0	0	0	0	0	0	0	0	0
Eaton	8,622	1,267	14.7	4.6	0.5	47	4	1	1	0	6	4	0	1	0	5
Emmet	2,599	241	9.3	7.9	0.0	17	0	0	0	0	0	2	0	0	0	2
Genesee	41,680	7,225	17.3	6.6	0.6	419	29	8	9	0	46	9	2	3	0	14
Gladwin	1,903	335	17.6	2.7	0.0	8	0	0	0	0	0	1	0	0	0	1
Gogebic	921	214	23.2	4.2	0.5	8	0	1	0	0	1	0	0	0	0	0
Grand Traverse	6,991	662	9.5	6.0	0.2	38	0	0	1	0	1	1	0	0	0	1
Gratiot	3,373	467	13.8	8.6	0.4	38	0	2	0	0	2	0	0	0	0	0
Hillsdale	4,044	702	17.4	9.0	1.0	56	5	0	2	0	7	0	0	0	0	0
Houghton	2,659	554	20.8	3.1	0.2	14	0	0	1	0	1	2	0	0	0	2
Huron	2,314	565	24.4	10.1	0.0	54	0	0	0	0	0	3	0	0	0	3
Ingham	24,313	5,179	21.3	7.6	0.6	348	18	7	6	1	32	9	4	3	0	16
Ionia	5,780	740	12.8	9.3	0.8	59	4	1	0	1	6	3	0	1	0	4
Iosco	1,687	341	20.2	9.1	0.0	28	0	0	0	0	0	2	0	1	0	3
Iron	706	166	23.5	4.2	0.0	6	0	0	0	0	0	1	0	0	0	1
Isabella	4,880	786	16.1	3.1	0.1	23	1	0	0	0	1	0	0	0	0	0
Jackson	14,584	2,353	16.1	16.1	1.2	323	14	9	3	1	27	13	4	12	0	29
Kalamazoo	21,805	4,303	19.7	11.5	0.8	428	16	11	7	0	34	27	4	2	0	33
Kalkaska	1,562	194	12.4	4.6	0.0	9	0	0	0	0	0	0	0	0	0	0
Kent	64,650	9,031	14.0	12.9	1.5	950	76	28	27	1	132	61	16	4	0	81
Keweenaw	139	23	16.5	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0
Lake	812	108	13.3	3.7	0.9	3	1	0	0	0	1	0	0	0	0	0
Lapeer	7,375	844	11.4	7.9	0.4	60	1	1	1	0	3	3	0	1	0	4
Leelanau	1,393	159	11.4	8.2	0.0	11	0	0	0	0	0	2	0	0	0	2
Lenawee	8,644	1,678	19.4	14.3	0.3	224	5	0	0	0	5	6	2	3	0	11
Livingston	15,354	1,095	7.1	2.5	0.1	26	1	0	0	0	1	0	0	0	0	0
Luce	415	104	25.1	6.7	1.0	6	0	1	0	0	1	0	0	0	0	0
Mackinac	641	154	24.0	7.1	0.0	9	0	0	0	0	0	2	0	0	0	2
Macomb	71,552	9,133	12.8	3.7	0.2	297	6	8	4	0	18	14	1	4	0	19
Manistee	1,787	280	15.7	12.5	1.8	27	3	1	1	0	5	3	0	0	0	3
Marquette	4,299	617	14.4	4.9	0.2	29	0	1	0	0	1	0	0	0	0	0
Mason	2,206	416	18.9	12.0	0.7	40	2	1	0	0	3	6	1	0	0	7
Mecosta	3,197	438	13.7	5.5	1.1	19	0	1	4	0	5	0	0	0	0	0
Menominee	1,742	309	17.7	8.7	0.6	25	1	0	0	1	2	0	0	0	0	0
Midland	6,659	617	9.3	4.9	0.0	30	0	0	0	0	0	0	0	0	0	0
Missaukee	1,210	132	10.9	6.1	0.0	8	0	0	0	0	0	0	0	0	0	0
Monroe	12,772	1,900	14.9	6.2	0.3	108	4	2	0	0	6	2	1	0	0	3
Montcalm	5,708	786	13.8	6.5	0.5	47	2	1	1	0	4	0	0	0	0	0
Montmorency	613	103	16.8	5.8	0.0	6	0	0	0	0	0	0	0	0	0	0
Muskegon	16,417	3,640	22.2	11.1	1.4	342	32	14	6	0	52	6	4	0	0	10
Newaygo	4,426	625	14.1	6.6	0.3	39	2	0	0	0	2	0	0	0	0	0
Oakland	104,175	13,674	13.1	3.8	0.4	453	25	14	12	0	51	9	2	1	0	12
Oceana	2,728	553	20.3	11.4	0.4	59	0	1	1	0	2	2	0	0	0	2
Ogemaw	1,511	385	25.5	8.1	0.3	27	0	0	1	0	0	3	0	0	0	3
Ontonagon	338	64	18.9	4.7	0.0	3	0	0	0	0	0	0	0	0	0	0
Osceola	2,046	227	11.1	4.0	0.0	8	0	0	0	0	0	1	0	0	0	1
Oscoda	602	128	21.3	3.9	0.0	5	0	0	0	0	0	0	0	0	0	0
Otsego	1,977	327	16.5	2.8	0.0	9	0	0	0	0	0	0	0	0	0	0
Ottawa	25,245	2,812	11.1	5.1	0.3	125	5	2	1	0	8	5	3	3	0	11
Presque Isle	877	137	15.6	18.2	0.0	24	0	0	0	0	0	0	0	1	0	1
Roscommon	1,558	289	18.6	3.5	0.3	9	0	1	0	0	1	0	0	0	0	0
Saginaw	17,930	3,351	18.7	13.9	1.1	408	22	8	7	0	37	19	3	0	0	22
St Clair	14,505	2,119	14.6	10.5	0.3	206	2	2	2	0	6	9	0	2	0	11
St Joseph	6,418	992	15.5	9.9	0.7	88	3	3	1	0	7	1	1	1	0	3
Sanilac	3,741	715	19.1	7.1	0.1	49	1	0	0	0	1	1	0	0	0	1
Schoolcraft	535	119	22.3	7.6	0.0	9	0	0	0	0	0	0	0	0	0	0
Shiawassee	6,031	1,055	17.5	4.7	0.2	44	1	0	1	0	2	4	0	0	0	4
Tuscola	4,557	879	19.3	5.6	0.0	49	0	0	0	0	0	0	0	0	0	0
Van Buren	7,346	1,388	18.9	9.1	0.8	111	6	2	3	0	11	5	0	0	0	5
Washtenaw	29,459	2,416	8.2	2.0	0.4	38	7	2	0	0	9	1	0	0	0	1
Wayne	190,355	53,284	28.0	15.4	2.3	6,711	765	243	193	16	1,217	207	57	38	1	303
Wexford	2,821	311	11.0	3.5	0.3	10	0	1	0	0	1	0	0	0	0	0
MICHIGAN	895,336	158,423	17.7	10.4	1.2	13,840	1,140	401	312	21	1,874	505	116	86	1	708

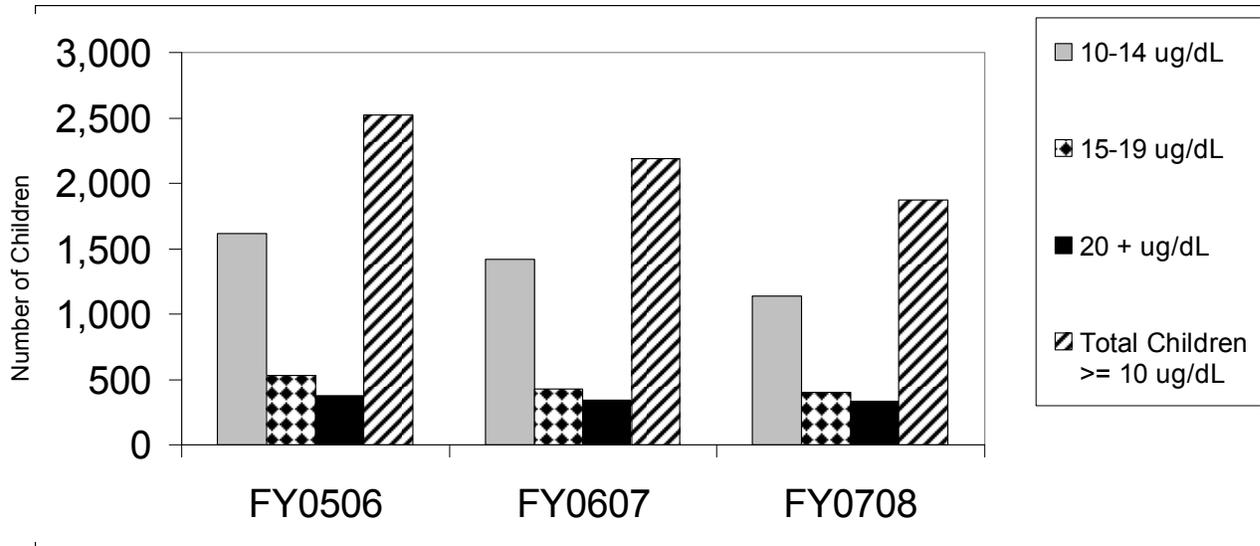
* U.S. Census Bureau, 2007 Population Estimates
 ** %EBLL is calculated as follows: Number of Children w/EBLL divided by (Number of Children Tested minus Children w/elevated capillary tests, not confirmed by venous)
 Note: Counts of children tested and blood lead levels are reported from the MDCH Data Warehouse

**Table 2
Childhood Lead Poisoning Data Facts
Fiscal Year 2007-2008 -- By County -- Children less than Sixteen Years of Age**

County	Children under Age 16**	Children < Age 16, Tested for Lead during FY0708			Children with Elevated Blood Lead Levels					Children with Elevated Capillary Tests, Not Confirmed by Venous						
		Number of Children Tested	% Tested	% with BLL >= 5 ug/dL	% EBLL (>= 10 ug/dL, venous only)	5 to 9 ug/dL (capillary, venous or unknown)	10-14 ug/dL (venous only)	15-19 ug/dL (venous only)	20-44 ug/dL (venous only)	>=45 ug/dL (venous only)	Total EBLL (>= 10 ug/dL)	Capillary 10-14, not confirmed by venous	Capillary 15-19, not confirmed by venous	Capillary 20-44, not confirmed by venous	Capillary >= 45, not confirmed by venous	Total Elevated Capillary, not confirmed by venous
Alcona	1,569	143	9.1	11.2	0.7	13	1	0	0	0	1	0	2	0	0	2
Alger	1,427	103	7.2	4.9	0.0	4	0	0	0	0	0	1	0	0	0	1
Allegan	24,977	1,628	6.5	6.4	0.2	91	3	0	1	0	4	8	0	1	0	9
Alpena	5,187	391	7.5	8.4	0.0	26	0	0	0	0	0	5	1	1	0	7
Antrim	4,452	257	5.8	7.8	0.0	20	0	0	0	0	0	0	0	0	0	0
Arenac	2,907	234	8.0	6.0	0.0	13	0	0	0	0	0	1	0	0	0	1
Baraga	1,456	159	10.9	4.4	0.0	6	0	0	0	0	0	1	0	0	0	1
Barry	12,247	757	6.2	8.5	0.8	55	6	0	0	0	6	3	0	0	0	3
Bay	20,795	1,622	7.8	9.0	0.8	126	8	3	2	0	13	4	2	1	0	7
Benzie	3,333	166	5.0	5.4	1.2	7	2	0	0	0	2	0	0	0	0	0
Berrien	33,936	2,688	7.9	13.7	1.6	307	29	9	5	0	43	11	3	3	0	17
Branch	9,330	539	5.8	14.7	0.2	68	1	0	0	0	1	10	0	0	0	10
Calhoun	29,341	2,839	9.7	10.7	1.2	258	18	10	4	1	33	12	0	0	0	12
Cass	9,839	648	6.6	12.2	0.5	73	1	1	1	0	3	1	2	0	0	3
Charlevoix	5,126	288	5.6	6.3	0.7	16	1	0	1	0	2	0	0	0	0	0
Cheboygan	4,883	299	6.1	5.0	0.0	15	0	0	0	0	0	0	0	0	0	0
Chippewa	6,133	497	8.1	3.4	0.4	15	2	0	0	0	2	0	0	0	0	0
Clare	5,801	439	7.6	5.9	0.2	24	1	0	0	0	1	0	1	0	0	1
Clinton	14,862	713	4.8	3.9	0.7	23	3	1	1	0	5	0	0	0	0	0
Crawford	2,504	122	4.9	4.9	0.0	6	0	0	0	0	0	0	0	0	0	0
Delta	6,700	440	6.6	7.0	0.7	28	3	0	0	0	3	0	0	0	0	0
Dickinson	4,986	403	8.1	2.0	0.0	8	0	0	0	0	0	0	0	0	0	0
Eaton	21,288	1,342	6.3	4.3	0.4	47	4	1	1	0	6	4	0	1	0	5
Emmet	6,406	255	4.0	7.5	0.0	17	0	0	0	0	0	2	0	0	0	2
Genesee	97,635	7,905	8.1	6.3	0.7	431	32	11	10	0	53	10	2	3	0	15
Gladwin	4,685	352	7.5	2.6	0.0	8	0	0	0	0	0	1	0	0	0	1
Gogebic	2,417	222	9.2	4.1	0.5	8	0	1	0	0	1	0	0	0	0	0
Grand Traverse	16,415	709	4.3	5.6	0.1	38	0	0	1	0	1	1	0	0	0	1
Gratiot	7,911	486	6.1	8.2	0.4	38	0	2	0	0	2	0	0	0	0	0
Hillsdale	9,601	731	7.6	8.8	1.1	56	6	0	2	0	8	0	0	0	0	0
Houghton	6,357	570	9.0	3.0	0.2	14	0	0	1	0	1	2	0	0	0	2
Huron	5,837	587	10.1	9.9	0.0	55	0	0	0	0	0	3	0	0	0	3
Ingham	56,424	5,417	9.6	7.6	0.7	358	21	7	7	1	36	9	4	3	0	16
Ionia	13,507	770	5.7	9.0	0.8	59	4	1	0	1	6	3	0	1	0	4
Iosco	4,262	344	8.1	9.3	0.0	29	0	0	0	0	0	2	0	1	0	3
Iron	1,807	170	9.4	4.1	0.0	6	0	0	0	0	0	1	0	0	0	1
Isabella	11,916	814	6.8	2.9	0.1	23	1	0	0	0	1	0	0	0	0	0
Jackson	33,959	2,485	7.3	15.5	1.1	329	14	9	3	1	27	14	4	12	0	30
Kalamazoo	50,799	4,580	9.0	11.1	0.8	440	17	11	7	0	35	27	4	2	0	33
Kalkaska	3,568	197	5.5	4.6	0.0	9	0	0	0	0	0	0	0	0	0	0
Kent	145,122	9,401	6.5	12.7	1.5	977	81	28	27	2	138	61	16	4	0	81
Keweenaw	344	25	7.3	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0
Lake	1,916	116	6.1	3.4	0.9	3	1	0	0	0	1	0	0	0	0	0
Lapeer	18,788	887	4.7	7.8	0.3	62	1	1	1	0	3	3	0	1	0	4
Leelanau	3,675	172	4.7	7.6	0.0	11	0	0	0	0	0	2	0	0	0	2
Lenawee	20,491	1,712	8.4	14.1	0.4	224	5	0	1	0	6	6	2	3	0	11
Livingston	39,088	1,169	3.0	2.4	0.1	27	1	0	0	0	1	0	0	0	0	0
Luce	1,047	110	10.5	6.4	0.9	6	0	1	0	0	1	0	0	0	0	0
Mackinac	1,664	158	9.5	7.0	0.0	9	0	0	0	0	0	2	0	0	0	2
Macomb	170,319	9,940	5.8	3.5	0.2	314	7	8	4	0	19	14	0	4	0	18
Manistee	4,296	288	6.7	12.2	1.8	27	3	1	1	0	5	3	0	0	0	3
Marquette	10,736	633	5.9	4.7	0.2	29	0	1	0	0	1	0	0	0	0	0
Mason	5,270	430	8.2	11.9	0.7	41	2	1	0	0	3	6	1	0	0	7
Mecosta	7,921	451	5.7	5.5	1.1	20	0	1	4	0	5	0	0	0	0	0
Menominee	4,358	311	7.1	8.7	0.6	25	1	0	0	1	2	0	0	0	0	0
Midland	16,933	708	4.2	4.5	0.0	32	0	0	0	0	0	0	0	0	0	0
Missaukee	3,014	138	4.6	5.8	0.0	8	0	0	0	0	0	0	0	0	0	0
Monroe	31,690	2,040	6.4	6.0	0.3	114	4	2	0	0	6	2	1	0	0	3
Montcalm	13,201	841	6.4	6.3	0.6	48	3	1	1	0	5	0	0	0	0	0
Montmorency	1,565	106	6.8	5.7	0.0	6	0	0	0	0	0	0	0	0	0	0
Muskegon	38,281	3,866	10.1	11.0	1.4	362	33	14	7	0	54	6	4	0	0	10
Newaygo	10,766	657	6.1	6.4	0.5	39	2	1	0	0	3	0	0	0	0	0
Oakland	251,963	14,672	5.8	3.7	0.4	472	27	15	13	0	55	10	2	1	0	13
Oceana	6,098	573	9.4	11.2	0.4	60	0	1	1	0	2	2	0	0	0	2
Ogemaw	3,748	393	10.5	8.4	0.3	28	0	0	1	0	1	3	0	1	0	4
Ontonagon	930	64	6.9	4.7	0.0	3	0	0	0	0	0	0	0	0	0	0
Osceola	4,727	239	5.1	3.8	0.0	8	0	0	0	0	0	1	0	0	0	1
Oscoda	1,535	130	8.5	3.8	0.0	5	0	0	0	0	0	0	0	0	0	0
Otsego	4,826	346	7.2	2.6	0.0	9	0	0	0	0	0	0	0	0	0	0
Ottawa	59,888	2,915	4.9	5.0	0.3	128	5	2	1	0	8	5	3	3	0	11
Presque Isle	2,164	142	6.6	17.6	0.0	24	0	0	0	0	0	0	0	1	0	1
Roscommon	3,956	306	7.7	3.9	0.3	11	0	1	0	0	1	0	0	0	0	0
Saginaw	43,121	3,546	8.2	13.5	1.1	419	23	9	7	0	39	19	3	0	0	22
St Clair	35,223	2,201	6.2	10.3	0.3	208	3	2	2	0	7	9	0	2	0	11
St Joseph	14,380	1,069	7.4	9.2	0.7	88	3	3	1	0	7	1	1	1	0	3
Sanilac	8,980	750	8.4	7.1	0.1	51	1	0	0	0	1	1	0	0	0	1
Schoolcraft	1,413	122	8.6	7.4	0.0	9	0	0	0	0	0	0	0	0	0	0
Shiawassee	14,794	1,122	7.6	4.5	0.2	45	1	0	1	0	2	4	0	0	0	4
Tuscola	11,229	916	8.2	5.7	0.0	52	0	0	0	0	0	0	0	0	0	0
Van Buren	17,177	1,477	8.6	8.7	0.7	112	6	2	3	0	11	5	0	0	0	5
Washtenaw	68,962	2,564	3.7	2.1	0.4	42	8	2	1	0	11	1	0	0	0	1
Wayne	457,697	58,756	12.8	14.6	2.2	7,015	806	250	197	16	1,269	212	57	39	1	309
Wexford	6,537	320	4.9	3.4	0.3	10	0	1	0	0	1	0	0	0	0	0
MICHIGAN	2,136,415	170,093	8.0	10.0	1.2	14,350	1,205	415	321	23	1,964	514	115	89	1	719

* U.S. Census Bureau, 2007 Population Estimates
 ** %EBLL is calculated as follows: Number of Children w/EBLL divided by (Number of Children Tested minus Children w/elevated capillary tests, not confirmed by venous)
 Note: Counts of children tested and blood lead levels are reported from the MDCH Data Warehouse

Figure 1
Michigan Children Confirmed as Lead Poisoned
Fiscal Years 2005-06 through 2007-08



Blood Lead Test Result	Fiscal Year 2005-06	Fiscal Year 2006-07	Fiscal Year 2007-08
10-14 µg/dL	1,613	1,416	1,140
15-19 µg/dL	533	428	401
≥ 20 µg/dL	379	345	333
Total Children ≥ 10 µg/dL	2,525	2,189	1,874
Total Children through Six Years of Age Tested	143,326	150,541	158,423

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A blood lead level of ≥ 10 µg/dL (micrograms/deciliter) is considered to be diagnostic of lead poisoning. Recommended actions include the following:

- 10-19 µg/dL – Referrals are made to the local health department for follow-up. A nurse makes a home visit to recommend a diet high in iron, calcium and Vitamin C to decrease the potential for absorption of lead from the environment. There is a review of environmental factors that can place the child at-risk for lead poisoning.
- ≥ 20 µg/dL – Medical management is needed. Referrals are made to the local health departments for home visits by both a nurse and an environmental health sanitarian. The environmental health sanitarian inspects the home to determine the source of the lead poisoning and recommends actions for lead hazard control. When blood lead levels reach 45 µg/dL and over, hospitalization is required for chelation therapy. The danger to the child increases with the blood lead level. Levels of 70 µg/dL or more are considered medical emergencies requiring immediate hospitalization and intervention. Children who have been hospitalized for treatment cannot return to their homes until the environmental lead has been removed.

Expenditures

Funding for the Childhood Lead Poisoning Prevention Program (CLPPP) comes from four sources:

Funding Source	Amount
Centers for Disease Control & Prevention	\$ 841,059
Healthy Michigan Fund	1,000,000
Maternal Child Health Block	490,000
Michigan General Funds	106,900
TOTAL	\$2,437,959

The Center for Disease Control and Prevention (CDC), Maternal Child Health Block (MCHB) Title V and State General Funds (GF) monies during this report period were used to fund state program staff positions and fund target community health departments for activities required by the CDC, including:

- testing of children for blood lead status;
- primary prevention activities,
- comprehensive case management for children with elevated blood lead levels;
- maintenance of a statewide surveillance system;
- implementation of a statewide lead testing/lead screening plan;
- purchase and/or development of outreach and educational materials for use by CLPPP staff, and managed care plans, health care providers and local public health agencies.

As mandated by the CDC, no CDC funds have been used for laboratory reimbursement for blood lead testing of uninsured children since July 1, 2005.

Healthy Michigan Funds in the amount of \$1M were allocated in FY2007-08, to continue addressing the seven priority activities identified in the *Final Report of the Governor's Task Force to Eliminate Childhood Lead Poisoning*. Collaboration between the two lead poisoning programs housed in the Department of Community Health, in conjunction with bureau and department administration, resulted in the following priority activities being addressed with the Healthy Michigan Funds:

- maintenance of a voluntary electronic Lead-Safe Housing Registry (pursuant to PA 433 of 2004) for Michigan rental properties;
- assistance to communities in the development of local lead activities and coalitions with the goal of local sustainability and grant writing (to finance remediation of homes with lead hazards where children under six years of age reside);
- assurance of comprehensive case management for children with severely elevated blood lead levels until their blood lead levels are lower than the "level of concern" (≥ 10 $\mu\text{g}/\text{dL}$ per CDC), achieved through funding or enhancing funding for Lead Initiative Coordinators in the targeted community public health agencies;
- support for the governor's lead commission meetings and public hearing (compliance with PA 431 of 2004);
- funding for Healthy Homes University to support lead education and awareness;
- funding for analysis of dust wipes and soil samples necessary for identification of environmental lead hazards;

- hosted the first statewide Lead Safe and Healthy Homes Conference;
- maintenance of web-based training modules for health care professionals;
- supported the Statewide Ombudsmen, who was responsible for leveraging over \$443,356 towards Lead Safe Home Program interventions for families; and
- provision of a public awareness media campaign.