



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2005

Number and percentage of prevalence, incidence, and “at level of qualified offer” cases
by age and county of residence

Supplementary Data Tables: Supplement #3



July 2006

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of prevalence, incidence, and qualified offer cases by age and county of residence
(Annual Report 2005)

Allegany County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	807	26	3.2	1	3.8	1	3.8	0	0.0
One Year	815	477	58.6	12	2.5	10	2.1	1	0.2
Two Years	845	356	42.1	12	3.4	7	2.0	0	0.0
Three Years	815	64	7.9	4	6.3	4	6.3	0	0.0
Four Years	785	77	9.8	1	1.3	1	1.3	0	0.0
Five Years	754	37	4.9	2	5.4	2	5.4	0	0.0
Total	4,821	1,037	21.5	32	3.1	25	2.4	1	0.1
6-17 Years	11,286	47	0.4	3	6.4	0	0.0	0	0.0

Anne Arundel County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	7,227	634	8.8	2	0.3	2	0.3	0	0.0
One Year	7,322	2,548	34.8	3	0.1	3	0.1	0	0.0
Two Years	7,082	1,734	24.5	9	0.5	9	0.5	0	0.0
Three Years	7,092	637	9.0	2	0.3	1	0.2	1	0.2
Four Years	7,086	581	8.2	3	0.5	2	0.3	1	0.2
Five Years	6,767	497	7.3	1	0.2	1	0.2	0	0.0
Total	42,575	6,631	15.6	20	0.3	18	0.3	2	0.0
6-17 Years	83,419	501	0.6	1	0.2	0	0.0	0	0.0

Baltimore County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	9,818	1,483	15.1	7	0.5	7	0.5	0	0.0
One Year	9,815	4,783	48.7	29	0.6	27	0.6	0	0.0
Two Years	9,675	3,881	40.1	34	0.9	29	0.7	3	0.1
Three Years	9,691	1,606	16.6	18	1.1	10	0.6	2	0.1
Four Years	9,971	1,592	16.0	14	0.9	7	0.4	0	0.0
Five Years	9,180	1,160	12.6	8	0.7	4	0.3	0	0.0
Total	58,150	14,505	24.9	110	0.8	84	0.6	5	0.0
6-17 Years	124,270	1,700	1.4	13	0.8	0	0.0	0	0.0

Refer to page 10 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of prevalence, incidence, and qualified offer cases by age and county of residence
(Annual Report 2005)

Baltimore City

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	9,611	1,725	17.9	29	1.7	28	1.6	1	0.1
One Year	9,192	5,911	64.3	245	4.1	197	3.3	21	0.4
Two Years	8,822	4,572	51.8	259	5.7	185	4.0	22	0.5
Three Years	8,850	2,302	26.0	136	5.9	70	3.0	9	0.4
Four Years	8,671	2,008	23.2	126	6.3	36	1.8	13	0.6
Five Years	8,481	1,425	16.8	59	4.1	18	1.3	4	0.3
Total	53,626	17,943	33.5	854	4.8	534	3.0	70	0.4
6-17 Years	113,085	3,880	3.4	91	2.3	0	0.0	8	0.2

Calvert County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,059	69	6.5	2	2.9	2	2.9	1	1.4
One Year	1,022	326	31.9	3	0.9	2	0.6	0	0.0
Two Years	1,139	204	17.9	2	1.0	2	1.0	0	0.0
Three Years	1,101	64	5.8	0	0.0	0	0.0	0	0.0
Four Years	1,171	58	5.0	0	0.0	0	0.0	0	0.0
Five Years	1,131	32	2.8	0	0.0	0	0.0	0	0.0
Total	6,623	753	11.4	7	0.9	6	0.8	1	0.1
6-17 Years	15,621	66	0.4	0	0.0	0	0.0	0	0.0

Caroline County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	380	36	9.5	0	0.0	0	0.0	0	0.0
One Year	362	321	88.8	6	1.9	6	1.9	1	0.3
Two Years	390	262	67.2	2	0.8	2	0.8	0	0.0
Three Years	455	96	21.1	1	1.0	0	0.0	0	0.0
Four Years	407	84	20.6	2	2.4	2	2.4	0	0.0
Five Years	428	50	11.7	0	0.0	0	0.0	0	0.0
Total	2,422	849	35.1	11	1.3	10	1.2	1	0.1
6-17 Years	5,640	24	0.4	1	4.2	0	0.0	0	0.0

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of prevalence, incidence, and qualified offer cases by age and county of residence
(Annual Report 2005)

Carroll County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	2,061	174	8.4	1	0.6	1	0.6	0	0.0
One Year	2,116	559	26.4	3	0.5	2	0.4	0	0.0
Two Years	2,213	269	12.2	1	0.4	0	0.0	1	0.4
Three Years	2,230	170	7.6	0	0.0	0	0.0	0	0.0
Four Years	2,316	143	6.2	0	0.0	0	0.0	0	0.0
Five Years	2,238	145	6.5	0	0.0	0	0.0	0	0.0
Total	13,173	1,460	11.1	5	0.3	3	0.2	1	0.1
6-17 Years	29,290	126	0.4	3	2.4	0	0.0	0	0.0

Cecil County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,282	65	5.1	0	0.0	0	0.0	0	0.0
One Year	1,262	450	35.7	2	0.4	2	0.4	0	0.0
Two Years	1,284	129	10.0	1	0.8	1	0.8	0	0.0
Three Years	1,264	140	11.1	3	2.1	3	2.1	0	0.0
Four Years	1,353	155	11.5	1	0.6	0	0.0	0	0.0
Five Years	1,232	107	8.7	0	0.0	0	0.0	0	0.0
Total	7,677	1,046	13.6	7	0.7	6	0.6	0	0.0
6-17 Years	16,401	114	0.7	4	3.5	0	0.0	2	1.8

Charles County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,770	231	13.0	1	0.4	1	0.4	0	0.0
One Year	1,864	471	25.3	2	0.4	2	0.4	0	0.0
Two Years	1,912	522	27.3	4	0.8	3	0.6	0	0.0
Three Years	1,859	223	12.0	0	0.0	0	0.0	0	0.0
Four Years	1,903	223	11.7	0	0.0	0	0.0	0	0.0
Five Years	1,903	141	7.4	0	0.0	0	0.0	0	0.0
Total	11,212	1,811	16.2	7	0.4	6	0.3	0	0.0
6-17 Years	23,999	227	0.9	1	0.4	0	0.0	0	0.0

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Dorchester County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	364	13	3.6	0	0.0	0	0.0	0	0.0
One Year	332	267	80.3	3	1.1	3	1.1	1	0.4
Two Years	370	157	42.4	3	1.9	3	1.9	1	0.6
Three Years	363	71	19.6	4	5.6	1	1.4	0	0.0
Four Years	356	62	17.4	1	1.6	1	1.6	0	0.0
Five Years	355	39	11.0	0	0.0	0	0.0	0	0.0
Total	2,141	609	28.5	11	1.8	8	1.3	2	0.3
6-17 Years	5,095	39	0.8	0	0.0	0	0.0	0	0.0

Frederick County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	2,917	257	8.8	1	0.4	1	0.4	0	0.0
One Year	3,049	1,165	38.2	6	0.5	6	0.5	1	0.1
Two Years	3,038	524	17.2	1	0.2	1	0.2	0	0.0
Three Years	3,073	335	10.9	2	0.6	2	0.6	0	0.0
Four Years	3,130	395	12.6	2	0.5	1	0.3	0	0.0
Five Years	2,965	343	11.6	2	0.6	0	0.0	0	0.0
Total	18,172	3,019	16.6	14	0.5	11	0.4	1	0.0
6-17 Years	36,578	248	0.7	1	0.4	0	0.0	0	0.0

Garrett County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	397	32	8.1	0	0.0	0	0.0	0	0.0
One Year	388	166	42.8	1	0.6	1	0.6	1	0.6
Two Years	392	137	35.0	3	2.2	2	1.5	1	0.7
Three Years	374	71	19.0	0	0.0	0	0.0	0	0.0
Four Years	408	59	14.5	0	0.0	0	0.0	0	0.0
Five Years	406	67	16.5	0	0.0	0	0.0	0	0.0
Total	2,365	532	22.5	4	0.8	3	0.6	2	0.4
6-17 Years	5,290	28	0.5	1	3.6	0	0.0	0	0.0

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

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(Annual Report 2005)

Harford County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	3,287	360	11.0	2	0.6	2	0.6	0	0.0
One Year	3,434	933	27.2	4	0.4	4	0.4	0	0.0
Two Years	3,354	648	19.3	8	1.2	5	0.8	0	0.0
Three Years	3,542	326	9.2	1	0.3	1	0.3	0	0.0
Four Years	3,451	394	11.4	2	0.5	2	0.5	0	0.0
Five Years	3,302	278	8.4	0	0.0	0	0.0	0	0.0
Total	20,371	2,939	14.4	17	0.6	14	0.5	0	0.0
6-17 Years	41,378	279	0.7	3	1.1	0	0.0	0	0.0

Howard County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	3,825	254	6.6	0	0.0	0	0.0	0	0.0
One Year	3,811	787	20.7	2	0.3	1	0.1	0	0.0
Two Years	3,935	457	11.6	3	0.7	3	0.7	0	0.0
Three Years	4,072	286	7.0	0	0.0	0	0.0	0	0.0
Four Years	4,099	275	6.7	1	0.4	0	0.0	0	0.0
Five Years	3,945	214	5.4	1	0.5	0	0.0	0	0.0
Total	23,686	2,273	9.6	7	0.3	4	0.2	0	0.0
6-17 Years	46,448	493	1.1	2	0.4	0	0.0	0	0.0

Kent County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	214	8	3.7	0	0.0	0	0.0	0	0.0
One Year	198	77	39.0	1	1.3	1	1.3	0	0.0
Two Years	191	44	23.0	0	0.0	0	0.0	0	0.0
Three Years	176	21	11.9	0	0.0	0	0.0	0	0.0
Four Years	183	13	7.1	0	0.0	0	0.0	0	0.0
Five Years	203	9	4.4	1	11.1	1	11.1	0	0.0
Total	1,164	172	14.8	2	1.2	2	1.2	0	0.0
6-17 Years	2,982	6	0.2	0	0.0	0	0.0	0	0.0

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of prevalence, incidence, and qualified offer cases by age and county of residence
(Annual Report 2005)

Montgomery County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	13,358	3,324	24.9	10	0.3	10	0.3	0	0.0
One Year	12,969	3,998	30.8	14	0.4	14	0.4	0	0.0
Two Years	12,882	3,371	26.2	17	0.5	15	0.4	2	0.1
Three Years	12,818	1,907	14.9	8	0.4	6	0.3	1	0.1
Four Years	13,101	2,273	17.3	8	0.4	6	0.3	1	0.0
Five Years	11,958	1,480	12.4	8	0.5	4	0.3	1	0.1
Total	77,085	16,353	21.2	65	0.4	55	0.3	5	0.0
6-17 Years	147,367	2,594	1.8	7	0.3	0	0.0	2	0.1

Prince George's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	12,415	1,743	14.0	5	0.3	5	0.3	0	0.0
One Year	12,575	5,318	42.3	18	0.3	16	0.3	1	0.0
Two Years	12,535	3,954	31.5	25	0.6	22	0.6	4	0.1
Three Years	12,605	2,288	18.2	6	0.3	6	0.3	0	0.0
Four Years	12,573	2,654	21.1	8	0.3	6	0.2	0	0.0
Five Years	12,010	1,949	16.2	6	0.3	6	0.3	1	0.1
Total	74,714	17,906	24.0	68	0.4	61	0.3	6	0.0
6-17 Years	145,662	2,864	2.0	14	0.5	0	0.0	1	0.0

Queen Anne's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	582	29	5.0	0	0.0	0	0.0	0	0.0
One Year	560	189	33.7	0	0.0	0	0.0	0	0.0
Two Years	533	137	25.7	0	0.0	0	0.0	0	0.0
Three Years	590	58	9.8	0	0.0	0	0.0	0	0.0
Four Years	539	50	9.3	0	0.0	0	0.0	0	0.0
Five Years	562	21	3.7	0	0.0	0	0.0	0	0.0
Total	3,367	484	14.4	0	0.0	0	0.0	0	0.0
6-17 Years	7,063	31	0.4	0	0.0	0	0.0	0	0.0

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

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(Annual Report 2005)

Saint Mary's County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,290	221	17.1	3	1.4	3	1.4	0	0.0
One Year	1,350	516	38.2	4	0.8	4	0.8	0	0.0
Two Years	1,406	399	28.4	0	0.0	0	0.0	0	0.0
Three Years	1,348	112	8.3	1	0.9	1	0.9	0	0.0
Four Years	1,355	87	6.4	2	2.3	1	1.1	0	0.0
Five Years	1,395	46	3.3	0	0.0	0	0.0	0	0.0
Total	8,145	1,381	17.0	10	0.7	9	0.7	0	0.0
6-17 Years	16,461	83	0.5	1	1.2	0	0.0	0	0.0

Somerset County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	278	29	10.4	0	0.0	0	0.0	0	0.0
One Year	231	168	72.6	3	1.8	1	0.6	2	1.2
Two Years	256	157	61.4	2	1.3	1	0.6	1	0.6
Three Years	250	65	26.0	1	1.5	1	1.5	0	0.0
Four Years	281	45	16.0	2	4.4	0	0.0	0	0.0
Five Years	238	24	10.1	0	0.0	0	0.0	0	0.0
Total	1,534	488	31.8	8	1.6	3	0.6	3	0.6
6-17 Years	3,444	46	1.3	0	0.0	0	0.0	0	0.0

Talbot County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	372	16	4.3	0	0.0	0	0.0	0	0.0
One Year	331	254	76.7	0	0.0	0	0.0	0	0.0
Two Years	389	161	41.4	1	0.6	1	0.6	0	0.0
Three Years	402	72	17.9	0	0.0	0	0.0	0	0.0
Four Years	402	45	11.2	0	0.0	0	0.0	0	0.0
Five Years	391	25	6.4	1	4.0	1	4.0	0	0.0
Total	2,286	573	25.1	2	0.3	2	0.3	0	0.0
6-17 Years	5,145	20	0.4	0	0.0	0	0.0	0	0.0

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Washington County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,816	146	8.0	0	0.0	0	0.0	0	0.0
One Year	1,710	1,065	62.3	9	0.8	9	0.8	2	0.2
Two Years	1,765	759	43.0	6	0.8	4	0.5	0	0.0
Three Years	1,770	382	21.6	2	0.5	1	0.3	0	0.0
Four Years	1,717	441	25.7	3	0.7	3	0.7	0	0.0
Five Years	1,637	442	27.0	1	0.2	1	0.2	0	0.0
Total	10,414	3,235	31.1	21	0.6	18	0.6	2	0.1
6-17 Years	21,092	213	1.0	0	0.0	0	0.0	0	0.0

Wicomico County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	1,224	146	11.9	0	0.0	0	0.0	0	0.0
One Year	1,115	697	62.5	7	1.0	7	1.0	0	0.0
Two Years	1,142	609	53.3	8	1.3	5	0.8	1	0.2
Three Years	1,219	252	20.7	9	3.6	6	2.4	0	0.0
Four Years	1,058	218	20.6	4	1.8	0	0.0	1	0.5
Five Years	1,080	174	16.1	1	0.6	0	0.0	1	0.6
Total	6,838	2,096	30.7	29	1.4	18	0.9	3	0.1
6-17 Years	14,946	312	2.1	4	1.3	0	0.0	0	0.0

Worcester County

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	522	42	8.0	1	2.4	1	2.4	1	2.4
One Year	492	239	48.6	1	0.4	1	0.4	0	0.0
Two Years	524	208	39.7	1	0.5	1	0.5	0	0.0
Three Years	464	86	18.5	2	2.3	0	0.0	0	0.0
Four Years	461	75	16.3	1	1.3	0	0.0	0	0.0
Five Years	489	46	9.4	0	0.0	0	0.0	0	0.0
Total	2,952	696	23.6	6	0.9	3	0.4	1	0.1
6-17 Years	6,738	167	2.5	2	1.2	0	0.0	0	0.0

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(Annual Report 2005)

County Unknown

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year		49		2		2		0	
One Year		97		6		5		0	
Two Years		90		3		3		0	
Three Years		44		2		2		0	
Four Years		47		0		0		0	
Five Years		30		1		1		0	
Total		357		14		13		0	
6-17 Years		106		2		0		0	

Statewide

Age Group	Population of Children	Children Tested		Prevalence		Incidence		At Level of Qualified Offer	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One Year	76,876	11,112	14.5	67	0.6	66	0.6	3	0.0
One Year	76,314	31,782	41.6	384	1.2	324	1.0	31	0.1
Two Years	76,074	23,741	31.2	405	1.7	304	1.3	36	0.2
Three Years	76,422	11,678	15.3	202	1.7	115	1.0	13	0.1
Four Years	76,778	12,054	15.7	181	1.5	68	0.6	16	0.1
Five Years	73,050	8,781	12.0	92	1.0	39	0.4	7	0.1
Total	455,514	99,148	21.8	1,331	1.3	916	0.9	106	0.1
6-17 Years	928,699	14,214	1.5	154	1.1	0	0.0	13	0.1

Terms and definitions:

1. County assignment in the order of available address information is based on child's address census tract or zip code, or provider's zip code address.
2. Population of children has been adapted from US Census Bureau age-sex population projection at the state level for 2005.
3. Prevalence is based on number of children with blood lead level ≥ 10 $\mu\text{g/dL}$ who may have had one or more EBL in the past.
4. Incidence is based on number of children with the first blood lead level ≥ 10 $\mu\text{g/dL}$ in 2005.
5. "At Level of Qualified Offer" is based on number of children with a venous blood lead level ≥ 20 $\mu\text{g/dL}$ in 2005.