



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2008

Number and percentage of prevalence and incidence cases
by age and county of residence

Supplementary Data Tables: Supplement #3



June, 2009

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of prevalence and incidence cases by age and county of residence
(Annual Report 2008)

Allegany County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	859	23	2.7	0	0.0	0	0.0
One Year	773	550	71.1	2	0.4	2	0.4
Two Years	910	515	56.6	5	1.0	4	0.8
Three Years	881	75	8.5	1	1.3	0	0.0
Four Years	783	79	10.1	2	2.5	2	2.5
Five Years	760	81	10.7	1	1.2	0	0.0
Total	4,966	1,323	26.6	11	0.8	8	0.6
6-17 Years	10,871	61	0.6	0	0.0		

Anne Arundel County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	7,529	551	7.3	0	0.0	0	0.0
One Year	7,875	2,845	36.1	5	0.2	5	0.2
Two Years	7,166	1,732	24.2	1	0.1	1	0.1
Three Years	7,285	706	9.7	1	0.1	0	0.0
Four Years	7,106	546	7.7	0	0.0	0	0.0
Five Years	7,130	437	6.1	0	0.0	0	0.0
Total	44,090	6,817	15.5	7	0.1	6	0.1
6-17 Years	82,904	567	0.7	1	0.2		

Baltimore County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	9,729	1,564	16.1	0	0.0	0	0.0
One Year	10,304	5,632	54.7	15	0.3	14	0.2
Two Years	9,893	4,811	48.6	13	0.3	12	0.2
Three Years	10,384	1,494	14.4	5	0.3	2	0.1
Four Years	10,273	1,313	12.8	2	0.2	2	0.2
Five Years	9,963	1,023	10.3	1	0.1	1	0.1
Total	60,547	15,837	26.2	36	0.2	31	0.2
6-17 Years	122,918	1,496	1.2	4	0.3		

Refer to page 10 for terms and definitions.

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Baltimore City

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	10,508	1,559	14.8	14	0.9	14	0.9
One Year	9,685	6,578	67.9	152	2.3	126	1.9
Two Years	8,892	5,106	57.4	140	2.7	101	2.0
Three Years	9,059	2,214	24.4	77	3.5	33	1.5
Four Years	9,165	1,862	20.3	55	3.0	23	1.2
Five Years	8,650	1,303	15.1	30	2.3	5	0.4
Total	55,959	18,622	33.3	468	2.5	302	1.6
6-17 Years	109,960	3,505	3.2	29	0.8		

Calvert County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,032	162	15.7	0	0.0	0	0.0
One Year	1,179	310	26.3	0	0.0	0	0.0
Two Years	1,090	159	14.6	0	0.0	0	0.0
Three Years	1,132	60	5.3	0	0.0	0	0.0
Four Years	1,184	38	3.2	0	0.0	0	0.0
Five Years	1,246	39	3.1	0	0.0	0	0.0
Total	6,864	768	11.2	0	0.0	0	0.0
6-17 Years	15,755	77	0.5	0	0.0		

Caroline County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	365	19	5.2	0	0.0	0	0.0
One Year	389	353	90.7	2	0.6	1	0.3
Two Years	471	322	68.4	2	0.6	2	0.6
Three Years	460	70	15.2	2	2.9	0	0.0
Four Years	393	49	12.5	1	2.0	0	0.0
Five Years	418	39	9.3	0	0.0	0	0.0
Total	2,497	852	34.1	7	0.8	3	0.4
6-17 Years	5,705	32	0.6	0	0.0		

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Carroll County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,999	138	6.9	1	0.7	1	0.7
One Year	2,323	626	27.0	3	0.5	3	0.5
Two Years	2,414	269	11.1	0	0.0	0	0.0
Three Years	2,302	107	4.6	1	0.9	1	0.9
Four Years	2,390	94	3.9	2	2.1	2	2.1
Five Years	2,445	109	4.5	1	0.9	0	0.0
Total	13,872	1,343	9.7	8	0.6	7	0.5
6-17 Years	29,026	121	0.4	0	0.0		

Cecil County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,232	119	9.7	0	0.0	0	0.0
One Year	1,457	549	37.7	2	0.4	2	0.4
Two Years	1,447	189	13.1	3	1.6	2	1.1
Three Years	1,018	151	14.8	0	0.0	0	0.0
Four Years	1,527	127	8.3	1	0.8	0	0.0
Five Years	1,284	130	10.1	0	0.0	0	0.0
Total	7,965	1,265	15.9	6	0.5	4	0.3
6-17 Years	16,485	103	0.6	0	0.0		

Charles County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	2,037	272	13.4	0	0.0	0	0.0
One Year	1,672	610	36.5	0	0.0	0	0.0
Two Years	1,961	571	29.1	1	0.2	1	0.2
Three Years	2,131	248	11.6	0	0.0	0	0.0
Four Years	1,957	188	9.6	0	0.0	0	0.0
Five Years	2,244	143	6.4	0	0.0	0	0.0
Total	12,001	2,032	16.9	1	0.0	1	0.0
6-17 Years	23,654	161	0.7	0	0.0		

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Dorchester County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	397	16	4.0	0	0.0	0	0.0
One Year	400	291	72.8	5	1.7	3	1.0
Two Years	341	226	66.2	2	0.9	2	0.9
Three Years	399	62	15.6	1	1.6	0	0.0
Four Years	351	51	14.5	1	2.0	0	0.0
Five Years	379	34	9.0	0	0.0	0	0.0
Total	2,266	680	30.0	9	1.3	5	0.7
6-17 Years	5,085	28	0.6	0	0.0		

Frederick County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,517	156	4.4	0	0.0	0	0.0
One Year	3,026	1,428	47.2	7	0.5	6	0.4
Two Years	3,112	695	22.3	5	0.7	5	0.7
Three Years	3,426	341	10.0	1	0.3	0	0.0
Four Years	2,834	406	14.3	3	0.7	2	0.5
Five Years	3,270	350	10.7	0	0.0	0	0.0
Total	19,184	3,376	17.6	16	0.5	13	0.4
6-17 Years	36,252	199	0.5	2	1.0		

Garrett County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	514	14	2.7	0	0.0	0	0.0
One Year	364	199	54.7	0	0.0	0	0.0
Two Years	442	152	34.4	2	1.3	1	0.7
Three Years	356	43	12.1	0	0.0	0	0.0
Four Years	381	33	8.7	0	0.0	0	0.0
Five Years	410	38	9.3	0	0.0	0	0.0
Total	2,468	479	19.4	2	0.4	1	0.2
6-17 Years	5,277	19	0.4	0	0.0		

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Harford County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,464	561	16.2	0	0.0	0	0.0
One Year	3,723	1,019	27.4	2	0.2	2	0.2
Two Years	3,568	781	21.9	0	0.0	0	0.0
Three Years	3,470	303	8.7	2	0.7	2	0.7
Four Years	3,440	335	9.7	1	0.3	1	0.3
Five Years	3,339	259	7.8	0	0.0	0	0.0
Total	21,005	3,258	15.5	5	0.2	5	0.2
6-17 Years	41,529	284	0.7	0	0.0		

Howard County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	4,125	269	6.5	1	0.4	1	0.4
One Year	4,020	930	23.1	1	0.1	1	0.1
Two Years	4,206	570	13.6	2	0.4	1	0.2
Three Years	4,301	285	6.6	1	0.4	1	0.4
Four Years	3,760	261	6.9	0	0.0	0	0.0
Five Years	4,365	178	4.1	0	0.0	0	0.0
Total	24,777	2,493	10.1	5	0.2	4	0.2
6-17 Years	46,591	466	1.0	1	0.2		

Kent County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	207	29	14.0	0	0.0	0	0.0
One Year	242	110	45.4	1	0.9	1	0.9
Two Years	200	99	49.4	3	3.0	2	2.0
Three Years	158	22	14.0	1	4.5	0	0.0
Four Years	188	27	14.4	0	0.0	0	0.0
Five Years	247	16	6.5	0	0.0	0	0.0
Total	1,242	303	24.4	5	1.7	3	1.0
6-17 Years	2,867	18	0.6	0	0.0		

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Montgomery County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	13,897	3,787	27.2	6	0.2	6	0.2
One Year	13,450	4,706	35.0	15	0.3	11	0.2
Two Years	13,925	4,604	33.1	8	0.2	4	0.1
Three Years	12,699	1,955	15.4	3	0.2	1	0.1
Four Years	13,722	2,221	16.2	1	0.0	0	0.0
Five Years	12,569	1,314	10.5	3	0.2	3	0.2
Total	80,262	18,587	23.2	36	0.2	25	0.1
6-17 Years	147,139	1,889	1.3	6	0.3		

Prince George's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	13,496	1,822	13.5	3	0.2	3	0.2
One Year	13,315	5,899	44.3	15	0.3	14	0.2
Two Years	12,790	4,323	33.8	10	0.2	9	0.2
Three Years	12,746	2,455	19.3	6	0.2	4	0.2
Four Years	12,855	2,506	19.5	3	0.1	1	0.0
Five Years	12,423	1,727	13.9	4	0.2	2	0.1
Total	77,625	18,732	24.1	41	0.2	33	0.2
6-17 Years	143,394	2,606	1.8	13	0.5		

Queen Anne's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	611	45	7.4	0	0.0	0	0.0
One Year	599	233	38.9	1	0.4	1	0.4
Two Years	614	157	25.6	0	0.0	0	0.0
Three Years	697	77	11.0	0	0.0	0	0.0
Four Years	408	56	13.7	0	0.0	0	0.0
Five Years	654	26	4.0	0	0.0	0	0.0
Total	3,583	594	16.6	1	0.2	1	0.2
6-17 Years	6,970	21	0.3	0	0.0		

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Saint Mary's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,430	202	14.1	1	0.5	1	0.5
One Year	1,415	607	42.9	1	0.2	1	0.2
Two Years	1,368	467	34.1	1	0.2	1	0.2
Three Years	1,515	120	7.9	0	0.0	0	0.0
Four Years	1,307	70	5.4	0	0.0	0	0.0
Five Years	1,512	51	3.4	1	2.0	0	0.0
Total	8,548	1,517	17.7	4	0.3	3	0.2
6-17 Years	16,259	69	0.4	0	0.0		

Somerset County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	286	22	7.7	0	0.0	0	0.0
One Year	194	183	94.6	0	0.0	0	0.0
Two Years	281	206	73.4	1	0.5	1	0.5
Three Years	263	60	22.8	1	1.7	1	1.7
Four Years	286	35	12.2	0	0.0	0	0.0
Five Years	212	16	7.5	0	0.0	0	0.0
Total	1,521	522	34.3	2	0.4	2	0.4
6-17 Years	3,193	40	1.3	1	2.5		

Talbot County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	327	15	4.6	0	0.0	0	0.0
One Year	377	261	69.2	4	1.5	4	1.5
Two Years	458	239	52.2	0	0.0	0	0.0
Three Years	437	39	8.9	0	0.0	0	0.0
Four Years	375	29	7.7	0	0.0	0	0.0
Five Years	425	29	6.8	1	3.4	1	3.4
Total	2,399	612	25.5	5	0.8	5	0.8
6-17 Years	5,101	31	0.6	0	0.0		

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Washington County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,897	96	5.1	1	1.0	1	1.0
One Year	1,710	1,098	64.2	4	0.4	4	0.4
Two Years	2,033	868	42.7	6	0.7	5	0.6
Three Years	1,726	312	18.1	1	0.3	0	0.0
Four Years	1,848	366	19.8	0	0.0	0	0.0
Five Years	1,899	301	15.8	1	0.3	1	0.3
Total	11,113	3,041	27.4	13	0.4	11	0.4
6-17 Years	20,810	175	0.8	0	0.0		

Wicomico County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,266	97	7.7	1	1.0	1	1.0
One Year	1,219	890	73.0	3	0.3	3	0.3
Two Years	1,184	807	68.2	6	0.7	4	0.5
Three Years	1,297	273	21.0	4	1.5	3	1.1
Four Years	933	215	23.0	4	1.9	1	0.5
Five Years	1,099	138	12.6	2	1.4	1	0.7
Total	6,998	2,420	34.6	20	0.8	13	0.5
6-17 Years	14,585	295	2.0	1	0.3		

Worcester County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	547	26	4.8	0	0.0	0	0.0
One Year	513	337	65.7	3	0.9	2	0.6
Two Years	607	277	45.6	1	0.4	1	0.4
Three Years	466	123	26.4	1	0.8	0	0.0
Four Years	455	92	20.2	0	0.0	0	0.0
Five Years	561	55	9.8	0	0.0	0	0.0
Total	3,148	910	28.9	5	0.5	3	0.3
6-17 Years	6,691	168	2.5	2	1.2		

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County Unknown

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One		8		0	0.0	0	0.0
One Year		28		0	0.0	0	0.0
Two Years		17		0	0.0	0	0.0
Three Years		7		0	0.0	0	0.0
Four Years		5		0	0.0	0	0.0
Five Years		4		0	0.0	0	0.0
Total		69		0	0.0	0	0.0
6-17 Years		12		0	0.0		

Statewide

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	81,272	11,572	14.2	28	0.2	28	0.2
One Year	80,225	36,272	45.2	243	0.7	206	0.6
Two Years	79,371	28,162	35.5	212	0.8	159	0.6
Three Years	78,608	11,602	14.8	109	0.9	48	0.4
Four Years	77,920	11,004	14.1	76	0.7	34	0.3
Five Years	77,504	7,840	10.1	45	0.6	14	0.2
Total	474,900	106,452	22.4	713	0.7	489	0.5
6-17 Years	919,018	12,443	1.4	60	0.5		

Terms and definitions:

1. County assignment in the order of available address information is based on census tract or zip code of the address.
2. Population of children has been adapted from US Census Bureau age-sex population projection at the state level for 2008.
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 2007. Incidence data is not calculated for children 6-17 years old.