



## **MARYLAND DEPARTMENT OF THE ENVIRONMENT**

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2007

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

Supplementary Data Tables: Supplement #3



*May 2008*

**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 2007)

Allegany County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	836	24	2.9	0	0.0	0	0.0
One Year	841	553	65.8	5	0.9	5	0.9
Two Years	867	430	49.6	6	1.4	5	1.2
Three Years	826	77	9.3	0	0.0	0	0.0
Four Years	789	89	11.3	1	1.1	1	1.1
Five Years	798	58	7.3	0	0.0	0	0.0
Total	4,957	1,231	24.8	12	1.0	11	0.9
6-17 Years	11,220	31	0.3	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	7,488	570	7.6	0	0.0	0	0.0
One Year	7,559	2,711	35.9	10	0.4	8	0.3
Two Years	7,268	1,667	22.9	6	0.4	6	0.4
Three Years	7,189	613	8.5	1	0.2	1	0.2
Four Years	7,114	589	8.3	1	0.2	1	0.2
Five Years	7,160	465	6.5	1	0.2	0	0.0
Total	43,779	6,615	15.1	19	0.3	16	0.2
6-17 Years	82,933	262	0.3	0	0.0		

Baltimore County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	10,174	1,807	17.8	4	0.2	4	0.2
One Year	10,132	5,679	56.1	14	0.2	12	0.2
Two Years	9,929	4,489	45.2	21	0.5	18	0.4
Three Years	9,824	1,628	16.6	11	0.7	10	0.6
Four Years	10,011	1,510	15.1	9	0.6	6	0.4
Five Years	9,725	1,142	11.7	3	0.3	2	0.2
Total	59,794	16,255	27.2	62	0.4	52	0.3
6-17 Years	123,546	800	0.6	5	0.6		

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	9,959	1,613	16.2	18	1.1	17	1.1
One Year	9,488	5,982	63.0	212	3.5	187	3.1
Two Years	9,054	4,736	52.3	174	3.7	126	2.7
Three Years	8,971	2,194	24.5	108	4.9	58	2.6
Four Years	8,706	1,825	21.0	75	4.1	31	1.7
Five Years	8,964	1,320	14.7	37	2.8	16	1.2
Total	55,142	17,670	32.0	624	3.5	435	2.5
6-17 Years	112,426	1,664	1.5	40	2.4		

Calvert County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,097	102	9.3	0	0.0	0	0.0
One Year	1,055	357	33.8	0	0.0	0	0.0
Two Years	1,169	162	13.9	1	0.6	1	0.6
Three Years	1,116	55	4.9	0	0.0	0	0.0
Four Years	1,176	67	5.7	0	0.0	0	0.0
Five Years	1,197	42	3.5	0	0.0	0	0.0
Total	6,810	785	11.5	1	0.1	1	0.1
6-17 Years	15,530	38	0.2	0	0.0		

Caroline County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	393	27	6.9	0	0.0	0	0.0
One Year	373	374	100.2	2	0.5	2	0.5
Two Years	400	297	74.3	4	1.3	1	0.3
Three Years	462	58	12.6	0	0.0	0	0.0
Four Years	409	60	14.7	1	1.7	1	1.7
Five Years	453	40	8.8	1	2.5	1	2.5
Total	2,490	856	34.4	8	0.9	5	0.6
6-17 Years	5,607	12	0.2	1	8.3		

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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	2,135	146	6.8	0	0.0	0	0.0
One Year	2,184	569	26.1	1	0.2	1	0.2
Two Years	2,271	280	12.3	0	0.0	0	0.0
Three Years	2,260	169	7.5	0	0.0	0	0.0
Four Years	2,326	133	5.7	2	1.5	1	0.8
Five Years	2,370	107	4.5	0	0.0	0	0.0
Total	13,546	1,404	10.4	3	0.2	2	0.1
6-17 Years	29,120	69	0.2	0	0.0		

Cecil County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,328	87	6.6	0	0.0	0	0.0
One Year	1,303	535	41.1	1	0.2	1	0.2
Two Years	1,318	169	12.8	2	1.2	2	1.2
Three Years	1,281	149	11.6	1	0.7	1	0.7
Four Years	1,359	139	10.2	1	0.7	0	0.0
Five Years	1,305	107	8.2	1	0.9	0	0.0
Total	7,894	1,186	15.0	6	0.5	4	0.3
6-17 Years	16,306	63	0.4	1	1.6		

Charles County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,835	261	14.2	0	0.0	0	0.0
One Year	1,924	639	33.2	0	0.0	0	0.0
Two Years	1,962	493	25.1	1	0.2	1	0.2
Three Years	1,885	240	12.7	0	0.0	0	0.0
Four Years	1,911	219	11.5	0	0.0	0	0.0
Five Years	2,012	147	7.3	0	0.0	0	0.0
Total	11,529	1,999	17.3	1	0.1	1	0.1
6-17 Years	23,859	119	0.5	0	0.0		

Refer to page 10 for terms and definitions.

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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	377	12	3.2	0	0.0	0	0.0
One Year	343	293	85.4	5	1.7	4	1.4
Two Years	380	207	54.5	2	1.0	1	0.5
Three Years	368	81	22.0	1	1.2	1	1.2
Four Years	358	56	15.6	1	1.8	1	1.8
Five Years	375	27	7.2	0	0.0	0	0.0
Total	2,201	676	30.7	9	1.3	7	1.0
6-17 Years	5,066	34	0.7	0	0.0		

Frederick County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,023	217	7.2	0	0.0	0	0.0
One Year	3,147	1,488	47.3	6	0.4	6	0.4
Two Years	3,118	638	20.5	3	0.5	3	0.5
Three Years	3,115	369	11.8	0	0.0	0	0.0
Four Years	3,143	380	12.1	0	0.0	0	0.0
Five Years	3,140	373	11.9	1	0.3	1	0.3
Total	18,686	3,465	18.5	10	0.3	10	0.3
6-17 Years	36,365	152	0.4	0	0.0		

Garrett County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	412	19	4.6	0	0.0	0	0.0
One Year	400	197	49.2	1	0.5	1	0.5
Two Years	402	166	41.3	1	0.6	1	0.6
Three Years	379	67	17.7	0	0.0	0	0.0
Four Years	410	47	11.5	0	0.0	0	0.0
Five Years	429	45	10.5	0	0.0	0	0.0
Total	2,432	541	22.2	2	0.4	2	0.4
6-17 Years	5,259	15	0.3	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	3,406	525	15.4	0	0.0	0	0.0
One Year	3,545	1,015	28.6	1	0.1	1	0.1
Two Years	3,443	768	22.3	1	0.1	1	0.1
Three Years	3,591	368	10.2	1	0.3	1	0.3
Four Years	3,465	364	10.5	2	0.5	2	0.5
Five Years	3,498	306	8.7	1	0.3	0	0.0
Total	20,947	3,346	16.0	6	0.2	5	0.1
6-17 Years	41,137	195	0.5	0	0.0		

Howard County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,963	245	6.2	0	0.0	0	0.0
One Year	3,934	804	20.4	2	0.2	2	0.2
Two Years	4,039	538	13.3	0	0.0	0	0.0
Three Years	4,128	311	7.5	0	0.0	0	0.0
Four Years	4,115	241	5.9	1	0.4	0	0.0
Five Years	4,177	195	4.7	0	0.0	0	0.0
Total	24,355	2,334	9.6	3	0.1	2	0.1
6-17 Years	46,177	203	0.4	1	0.5		

Kent County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	222	37	16.7	0	0.0	0	0.0
One Year	204	129	63.2	1	0.8	1	0.8
Two Years	196	85	43.4	1	1.2	0	0.0
Three Years	179	41	23.0	0	0.0	0	0.0
Four Years	184	28	15.2	0	0.0	0	0.0
Five Years	213	14	6.6	0	0.0	0	0.0
Total	1,197	334	27.9	2	0.6	1	0.3
6-17 Years	2,964	7	0.2	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	13,842	3,718	26.9	7	0.2	7	0.2
One Year	13,388	4,831	36.1	12	0.2	12	0.2
Two Years	13,221	4,057	30.7	5	0.1	5	0.1
Three Years	12,993	2,053	15.8	2	0.1	2	0.1
Four Years	13,153	2,229	16.9	4	0.2	2	0.1
Five Years	12,667	1,386	10.9	5	0.4	3	0.2
Total	79,264	18,274	23.1	35	0.2	31	0.2
6-17 Years	146,509	1,095	0.7	5	0.5		

Prince George's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	12,865	1,865	14.5	2	0.1	2	0.1
One Year	12,981	5,632	43.4	6	0.1	6	0.1
Two Years	12,865	4,024	31.3	10	0.2	9	0.2
Three Years	12,778	2,305	18.0	11	0.5	10	0.4
Four Years	12,623	2,528	20.0	5	0.2	4	0.2
Five Years	12,714	1,717	13.5	4	0.2	4	0.2
Total	76,826	18,071	23.5	38	0.2	35	0.2
6-17 Years	144,814	1,450	1.0	8	0.6		

Queen Anne's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	603	43	7.1	0	0.0	0	0.0
One Year	579	281	48.6	2	0.7	1	0.4
Two Years	547	188	34.3	1	0.5	1	0.5
Three Years	598	76	12.7	1	1.3	0	0.0
Four Years	542	66	12.2	0	0.0	0	0.0
Five Years	594	49	8.2	0	0.0	0	0.0
Total	3,462	703	20.3	4	0.6	2	0.3
6-17 Years	7,022	28	0.4	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	1,337	253	18.9	0	0.0	0	0.0
One Year	1,394	549	39.4	0	0.0	0	0.0
Two Years	1,443	418	29.0	1	0.2	1	0.2
Three Years	1,366	111	8.1	0	0.0	0	0.0
Four Years	1,361	75	5.5	1	1.3	0	0.0
Five Years	1,474	62	4.2	0	0.0	0	0.0
Total	8,375	1,468	17.5	2	0.1	1	0.1
6-17 Years	16,365	23	0.1	1	4.3		

Somerset County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	288	39	13.5	0	0.0	0	0.0
One Year	239	208	87.1	0	0.0	0	0.0
Two Years	262	170	64.8	1	0.6	1	0.6
Three Years	254	51	20.1	1	2.0	1	2.0
Four Years	282	44	15.6	0	0.0	0	0.0
Five Years	252	17	6.7	0	0.0	0	0.0
Total	1,577	529	33.5	2	0.4	2	0.4
6-17 Years	3,424	24	0.7	1	4.2		

Talbot County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	385	21	5.4	0	0.0	0	0.0
One Year	342	304	88.9	1	0.3	1	0.3
Two Years	399	238	59.7	0	0.0	0	0.0
Three Years	407	75	18.4	2	2.7	1	1.3
Four Years	403	35	8.7	1	2.9	1	2.9
Five Years	414	29	7.0	0	0.0	0	0.0
Total	2,351	702	29.9	4	0.6	3	0.4
6-17 Years	5,115	14	0.3	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	1,881	124	6.6	0	0.0	0	0.0
One Year	1,765	1,108	62.8	3	0.3	3	0.3
Two Years	1,811	760	42.0	3	0.4	3	0.4
Three Years	1,794	330	18.4	1	0.3	0	0.0
Four Years	1,724	392	22.7	1	0.3	0	0.0
Five Years	1,733	350	20.2	0	0.0	0	0.0
Total	10,709	3,064	28.6	8	0.3	6	0.2
6-17 Years	20,969	110	0.5	1	0.9		

Wicomico County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,268	218	17.2	0	0.0	0	0.0
One Year	1,151	1,053	91.5	5	0.5	3	0.3
Two Years	1,172	855	73.0	11	1.3	9	1.1
Three Years	1,236	399	32.3	3	0.8	0	0.0
Four Years	1,062	306	28.8	4	1.3	2	0.7
Five Years	1,142	144	12.6	0	0.0	0	0.0
Total	7,031	2,975	42.3	23	0.8	14	0.5
6-17 Years	14,859	154	1.0	2	1.3		

Worcester County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	541	66	12.2	0	0.0	0	0.0
One Year	508	293	57.7	4	1.4	4	1.4
Two Years	537	316	58.8	1	0.3	1	0.3
Three Years	470	138	29.3	1	0.7	0	0.0
Four Years	462	74	16.0	0	0.0	0	0.0
Five Years	516	60	11.6	1	1.7	0	0.0
Total	3,035	947	31.2	7	0.7	5	0.5
6-17 Years	6,698	57	0.9	0	0.0		

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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		24		0	0.0	0	0.0
One Year		102		0	0.0	0	0.0
Two Years		66		1	1.5	1	1.5
Three Years		32		0	0.0	0	0.0
Four Years		28		0	0.0	0	0.0
Five Years		26		0	0.0	0	0.0
Total		278		1	0.4	1	0.4
6-17 Years		19		0	0.0		

Statewide

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	79,659	12,063	15.1	31	0.3	30	0.2
One Year	78,779	35,686	45.3	294	0.8	261	0.7
Two Years	78,074	26,217	33.6	257	1.0	197	0.8
Three Years	77,470	11,990	15.5	145	1.2	86	0.7
Four Years	77,084	11,524	14.9	110	1.0	53	0.5
Five Years	77,324	8,228	10.6	55	0.7	27	0.3
Total	468,390	105,708	22.6	892	0.8	654	0.6
6-17 Years	923,290	6,638	0.7	66	1.0		

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 2007.
3. Prevalence is based on number of children with blood lead level  $\geq 10$   $\mu\text{g/dL}$  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  $\geq 10$   $\mu\text{g/dL}$  in 2007. Incidence data is not calculated for children 6-17 years old.