



**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2009

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

Supplementary Data Tables: Supplement #3



*August, 2010*

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**  
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 (Annual Report 2009)

Allegany County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	868	26	3.0	2	7.7	2	7.7
One Year	782	599	76.6	4	0.7	4	0.7
Two Years	918	527	57.4	6	1.1	5	0.9
Three Years	888	79	8.9	0	0.0	0	0.0
Four Years	788	85	10.8	1	1.2	1	1.2
Five Years	764	55	7.2	2	3.6	1	1.8
Total	5,007	1,371	27.4	15	1.1	13	0.9
6-17 Years	10,842	52	0.5	1	1.9		

Anne Arundel County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	7,609	642	8.4	0	0.0	0	0.0
One Year	7,959	3,007	37.8	4	0.1	3	0.1
Two Years	7,231	1,852	25.6	0	0.0	0	0.0
Three Years	7,347	707	9.6	2	0.3	1	0.1
Four Years	7,157	624	8.7	0	0.0	0	0.0
Five Years	7,168	501	7.0	1	0.2	1	0.2
Total	44,471	7,333	16.5	7	0.1	5	0.1
6-17 Years	82,741	590	0.7	2	0.3		

Baltimore County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	9,829	1,743	17.7	1	0.1	1	0.1
One Year	10,405	5,510	53.0	7	0.1	7	0.1
Two Years	9,980	5,108	51.2	11	0.2	8	0.2
Three Years	10,470	1,639	15.7	2	0.1	1	0.1
Four Years	10,352	1,252	12.1	4	0.3	2	0.2
Five Years	10,018	887	8.9	3	0.3	2	0.2
Total	61,053	16,139	26.4	28	0.2	21	0.1
6-17 Years	122,658	1,414	1.2	6	0.4		

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	10,618	1,718	16.2	6	0.3	6	0.3
One Year	9,779	6,621	67.7	96	1.4	85	1.3
Two Years	8,978	5,525	61.5	133	2.4	91	1.6
Three Years	9,131	2,222	24.3	44	2.0	12	0.5
Four Years	9,229	1,775	19.2	44	2.5	12	0.7
Five Years	8,696	1,182	13.6	24	2.0	8	0.7
Total	56,431	19,043	33.7	347	1.8	214	1.1
6-17 Years	109,778	3,546	3.2	30	0.8		

Calvert County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,043	133	12.7	0	0.0	0	0.0
One Year	1,191	279	23.4	1	0.4	1	0.4
Two Years	1,100	134	12.2	0	0.0	0	0.0
Three Years	1,141	72	6.3	0	0.0	0	0.0
Four Years	1,192	52	4.4	0	0.0	0	0.0
Five Years	1,253	28	2.2	0	0.0	0	0.0
Total	6,920	698	10.1	1	0.1	1	0.1
6-17 Years	15,721	78	0.5		0.0		

Caroline County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	369	20	5.4	0	0.0	0	0.0
One Year	393	367	93.4	3	0.8	3	0.8
Two Years	474	310	65.4	3	1.0	2	0.6
Three Years	464	52	11.2	1	1.9	0	0.0
Four Years	396	65	16.4	0	0.0	0	0.0
Five Years	420	25	5.9	0	0.0	0	0.0
Total	2,516	839	33.3	7	0.8	5	0.6
6-17 Years	5,691	21	0.4	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	2,018	140	6.9	0	0.0	0	0.0
One Year	2,347	543	23.1	3	0.6	3	0.6
Two Years	2,435	284	11.7	2	0.7	2	0.7
Three Years	2,321	132	5.7	0	0.0	0	0.0
Four Years	2,409	132	5.5	1	0.8	1	0.8
Five Years	2,458	111	4.5	1	0.9	0	0.0
Total	13,988	1,342	9.6	7	0.5	6	0.4
6-17 Years	28,970	111	0.4		0.0		

Cecil County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	1,243	114	9.2	0	0.0	0	0.0
One Year	1,470	475	32.3	1	0.2	1	0.2
Two Years	1,460	196	13.4	1	0.5	1	0.5
Three Years	1,027	168	16.4	1	0.6	0	0.0
Four Years	1,538	139	9.0	0	0.0	0	0.0
Five Years	1,292	120	9.3	1	0.8	0	0.0
Total	8,030	1,212	15.1	4	0.3	2	0.2
6-17 Years	16,459	1,325	8.1	4	0.3		

Charles County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	2,057	214	10.4	2	0.9	2	0.9
One Year	1,690	563	33.3	2	0.4	2	0.4
Two Years	1,980	547	27.6	0	0.0	0	0.0
Three Years	2,148	237	11.0	0	0.0	0	0.0
Four Years	1,971	166	8.4	0	0.0	0	0.0
Five Years	2,255	109	4.8	0	0.0	0	0.0
Total	12,101	1,836	15.2	4	0.2	4	0.2
6-17 Years	23,604	120	0.5	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	402	21	5.2	0	0.0	0	0.0
One Year	404	317	78.4	1	0.3	1	0.3
Two Years	344	239	69.4	1	0.4	0	0.0
Three Years	402	84	20.9	1	1.2	1	1.2
Four Years	353	38	10.8	0	0.0	0	0.0
Five Years	381	31	8.1	0	0.0	0	0.0
Total	2,287	730	31.9	3	0.4	2	0.3
6-17 Years	5,071	26	0.5	0	0.0		

Frederick County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	3,557	149	4.2	1	0.7	1	0.7
One Year	3,057	1,411	46.2	5	0.4	4	0.3
Two Years	3,142	693	22.1	3	0.4	2	0.3
Three Years	3,454	357	10.3	1	0.3	0	0.0
Four Years	2,853	346	12.1	1	0.3	0	0.0
Five Years	3,286	225	6.8	0	0.0	0	0.0
Total	19,349	3,181	16.4	11	0.3	7	0.2
6-17 Years	36,176	163	0.5	2	1.2		

Garrett County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	519	16	3.1	0	0.0	0	0.0
One Year	368	144	39.1	0	0.0	0	0.0
Two Years	447	166	37.1	1	0.6	1	0.6
Three Years	359	52	14.5	1	1.9	1	1.9
Four Years	384	53	13.8	0	0.0	0	0.0
Five Years	412	42	10.2	0	0.0	0	0.0
Total	2,490	473	19.0	2	0.4	2	0.4
6-17 Years	5,263	30	0.6	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	3,499	524	15.0	0	0.0	0	0.0
One Year	3,760	1,010	26.9	1	0.1	1	0.1
Two Years	3,600	800	22.2	0	0.0	0	0.0
Three Years	3,499	287	8.2	1	0.3	1	0.3
Four Years	3,464	303	8.7	0	0.0	0	0.0
Five Years	3,357	260	7.7	0	0.0	0	0.0
Total	21,180	3,184	15.0	2	0.1	2	0.1
6-17 Years	41,444	281	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	4,171	289	6.9	0	0.0	0	0.0
One Year	4,064	867	21.3	0	0.0	0	0.0
Two Years	4,244	609	14.4	1	0.2	1	0.2
Three Years	4,337	296	6.8	0	0.0	0	0.0
Four Years	3,786	244	6.4	0	0.0	0	0.0
Five Years	4,388	198	4.5	0	0.0	0	0.0
Total	24,990	2,503	10.0	1	0.0	1	0.0
6-17 Years	46,519	528	1.1	0	0.0		

Kent County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	209	32	15.3	0	0.0	0	0.0
One Year	245	142	57.9	0	0.0	0	0.0
Two Years	202	93	46.0	1	1.1	0	0.0
Three Years	159	25	15.8	0	0.0	0	0.0
Four Years	190	21	11.1	1	4.8	0	0.0
Five Years	248	10	4.0	0	0.0	0	0.0
Total	1,253	323	25.8	2	0.6	0	0.0
6-17 Years	2,861	6	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	14,047	3,436	24.5	3	0.1	3	0.1
One Year	13,585	4,847	35.7	5	0.1	5	0.1
Two Years	14,052	4,635	33.0	8	0.2	7	0.2
Three Years	12,807	1,914	14.9	2	0.1	1	0.1
Four Years	13,823	2,049	14.8	5	0.2	3	0.1
Five Years	12,637	1,319	10.4	2	0.2	1	0.1
Total	80,950	18,200	22.5	25	0.1	20	0.1
6-17 Years	146,886	1,787	1.2	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	13,637	1,925	14.1	1	0.1	1	0.1
One Year	13,448	5,891	43.8	18	0.3	16	0.3
Two Years	12,909	4,702	36.4	10	0.2	10	0.2
Three Years	12,850	2,547	19.8	10	0.4	8	0.3
Four Years	12,948	2,751	21.2	8	0.3	7	0.3
Five Years	12,486	1,778	14.2	3	0.2	3	0.2
Total	78,279	19,594	25.0	50	0.3	45	0.2
6-17 Years	143,194	2,680	1.9	9	0.3		

Queen Anne's County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	618	39	6.3	1	2.6	1	2.6
One Year	605	237	39.2	2	0.8	2	0.8
Two Years	619	194	31.3	1	0.5	1	0.5
Three Years	704	56	8.0	0	0.0	0	0.0
Four Years	411	60	14.6	0	0.0	0	0.0
Five Years	658	21	3.2	0	0.0	0	0.0
Total	3,614	607	16.8	4	0.7	4	0.7
6-17 Years	6,955	45	0.6	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	1,444	227	15.7	0	0.0	0	0.0
One Year	1,428	571	40.0	3	0.5	2	0.4
Two Years	1,383	496	35.9	1	0.2	1	0.2
Three Years	1,527	101	6.6	0	0.0	0	0.0
Four Years	1,315	79	6.0	0	0.0	0	0.0
Five Years	1,520	53	3.5	0	0.0	0	0.0
Total	8,618	1,527	17.7	4	0.3	3	0.2
6-17 Years	16,224	75	0.5	1	1.3		

Somerset County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	288	32	11.1	0	0.0	0	0.0
One Year	195	210	*	2	1.0	2	1.0
Two Years	283	161	56.9	0	0.0	0	0.0
Three Years	266	49	18.4	1	2.0	0	0.0
Four Years	287	31	10.8	1	3.2	1	3.2
Five Years	213	14	6.6	0	0.0	0	0.0
Total	1,533	497	32.4	4	0.8	3	0.6
6-17 Years	3,185	33	1.0	1	3.0		

Talbot County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	331	16	4.8	0	0.0	0	0.0
One Year	381	305	80.0	1	0.3	1	0.3
Two Years	462	245	53.1	3	1.2	2	0.8
Three Years	440	43	9.8	0	0.0	0	0.0
Four Years	377	35	9.3	0	0.0	0	0.0
Five Years	427	31	7.3	0	0.0	0	0.0
Total	2,417	675	27.9	4	0.6	3	0.4
6-17 Years	5,086	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	1,916	84	4.4	0	0.0	0	0.0
One Year	1,729	1,059	61.2	2	0.2	2	0.2
Two Years	2,050	879	42.9	3	0.3	3	0.3
Three Years	1,740	324	18.6	1	0.3	1	0.3
Four Years	1,864	377	20.2	2	0.5	2	0.5
Five Years	1,908	283	14.8	1	0.4	1	0.4
Total	11,207	3,006	26.8	9	0.3	9	0.3
6-17 Years	20,763	156	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	1,278	109	8.5	0	0.0	0	0.0
One Year	1,233	821	66.6	2	0.2	2	0.2
Two Years	1,193	741	62.1	3	0.4	3	0.4
Three Years	1,309	264	20.2	2	0.8	0	0.0
Four Years	939	187	19.9	2	1.1	1	0.5
Five Years	1,105	126	11.4	1	0.8	0	0.0
Total	7,058	2,248	31.9	10	0.4	6	0.3
6-17 Years	14,553	278	1.9	1	0.4		

Worcester County

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	554	29	5.2	0	0.0	0	0.0
One Year	518	324	62.5	1	0.3	0	0.0
Two Years	612	297	48.5	1	0.3	1	0.3
Three Years	469	94	20.0	0	0.0	0	0.0
Four Years	459	62	13.5	0	0.0	0	0.0
Five Years	564	44	7.8	0	0.0	0	0.0
Total	3,177	850	26.8	2	0.2	1	0.1
6-17 Years	6,676	133	2.0	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		0		0			
One Year		2		0			
Two Years		0		0			
Three Years		3		0			
Four Years		0		0			
Five Years		0		0			
Total		5		0			
6-17 Years		1		0			

Statewide

Age Group	Population of Children	Children Tested		Prevalence Cases		Incidence Cases	
		Number	Percent	Number	Percent	Number	Percent
Under One	82,123	11,678	14.2	17	0.1	17	0.1
One Year	81,038	36,122	44.6	164	0.5	147	0.4
Two Years	80,099	29,433	36.7	193	0.7	141	0.5
Three Years	79,260	11,804	14.9	70	0.6	27	0.2
Four Years	78,484	10,926	13.9	70	0.6	30	0.3
Five Years	77,915	7,453	9.6	39	0.5	17	0.2
Total	478,919	107,416	22.4	553	0.5	379	0.4
6-17 Years	917,318	12,298	1.3	59	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 2009. Because of inherent problems with projection, the projected population may not correspond to the number of children tested. In such cases, the percentages are removed and replaced with an \*.
3. Prevalence is based on the 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 the number of children with the first blood lead level  $\geq 10$   $\mu\text{g/dL}$  in 2009. Incidence data is not calculated for children 6-17 years old.