



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2011

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

Supplementary Data Tables: Supplement #3



July, 2012

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of incidence and prevalence of blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ by age and county of residence
(Annual Report 2011)

Age Group	Population of Children	Allegany County							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	832	20	2.4	0	0.0	0	0.0	0	0.0
One Year	775	571	73.6	0	0.0	3	0.5	3	0.5
Two Years	802	540	67.3	3	0.6	1	0.2	4	0.7
Three Years	786	80	10.2	1	1.3	1	1.3	2	2.5
Four Years	831	89	10.7	0	0.0	0	0.0	0	0.0
Five Years	739	59	8.0	0	0.0	0	0.0	0	0.0
Total	4,766	1,359	28.5	4	0.3	5	0.4	9	0.7
6-17 Years	8,959	73	0.8					0	0.0

Age Group	Population of Children	Anne Arundel County							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	8,207	491	6.0	0	0.0	1	0.2	1	0.2
One Year	8,129	3,416	42.0	0	0.0	3	0.1	3	0.1
Two Years	7,959	1,972	24.8	1	0.1	2	0.1	3	0.2
Three Years	7,816	849	10.9	0	0.0	0	0.0	0	0.0
Four Years	7,746	783	10.1	0	0.0	1	0.1	1	0.1
Five Years	7,534	651	8.6	0	0.0	0	0.0	0	0.0
Total	47,391	8,162	17.2	1	0.0	7	0.1	8	0.1
6-17 Years	80,637	655	0.8					0	0.0

Age Group	Population of Children	Baltimore County							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	11,401	1,694	14.9	0	0.0	1	0.1	1	0.1
One Year	11,404	5,648	49.5	1	0.0	9	0.2	10	0.2
Two Years	10,982	5,241	47.7	1	0.0	7	0.1	8	0.2
Three Years	10,956	1,503	13.7	2	0.1	1	0.1	3	0.2
Four Years	10,664	1,323	12.4	2	0.2	1	0.1	3	0.2
Five Years	10,607	966	9.1	1	0.1	0	0.0	1	0.1
Total	66,014	16,375	24.8	7	0.0	19	0.1	26	0.2
6-17 Years	114,179	1,530	1.3					0	0.0

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Age Group	Population of Children	Baltimore City							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	10,418	1,504	14.4	0	0.0	6	0.4	6	0.4
One Year	10,003	6,620	66.2	13	0.2	82	1.2	95	1.4
Two Years	9,511	5,462	57.4	28	0.5	62	1.1	90	1.6
Three Years	8,973	2,407	26.8	20	0.8	17	0.7	37	1.5
Four Years	8,583	1,887	22.0	11	0.6	13	0.7	24	1.3
Five Years	8,193	1,169	14.3	4	0.3	2	0.2	6	0.5
Total	55,681	19,049	34.2	76	0.4	182	1.0	258	1.4
6-17 Years	81,542	3,097	3.8					0	0.0

Age Group	Population of Children	Calvert County							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	1,116	100	9.0	0	0.0	0	0.0	0	0.0
One Year	1,116	341	30.6	0	0.0	0	0.0	0	0.0
Two Years	1,130	172	15.2	0	0.0	0	0.0	0	0.0
Three Years	1,176	73	6.2	0	0.0	0	0.0	0	0.0
Four Years	1,202	45	3.7	0	0.0	0	0.0	0	0.0
Five Years	1,290	47	3.6	0	0.0	0	0.0	0	0.0
Total	7,030	778	11.1	0	0.0	0	0.0	0	0.0
6-17 Years	16,309	54	0.3					0	0.0

Age Group	Population of Children	Caroline County							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$				Total (Prevalent) Cases	
		Number	Percent	Old Cases Number	Old Cases Percent	New (Incident) Cases Number	New (Incident) Cases Percent	Number	Percent
Under One	523	13	2.5	0	0.0	0	0.0	0	0.0
One Year	525	330	62.9	1	0.3	1	0.3	2	0.6
Two Years	524	283	54.0	0	0.0	1	0.4	1	0.4
Three Years	561	50	8.9	0	0.0	1	2.0	1	2.0
Four Years	532	49	9.2	0	0.0	0	0.0	0	0.0
Five Years	512	26	5.1	0	0.0	0	0.0	0	0.0
Total	3,176	751	23.6	1	0.1	3	0.4	4	0.5
6-17 Years	5,361	23	0.4					0	0.0

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Carroll County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	1,906	150	7.9	0	0.0	0	0.0	0	0.0
One Year	2,017	530	26.3	2	0.4	6	1.1	8	1.5
Two Years	2,071	299	14.4	0	0.0	2	0.7	2	0.7
Three Years	2,136	116	5.4	0	0.0	0	0.0	0	0.0
Four Years	2,256	109	4.8	1	0.9	3	2.8	4	3.7
Five Years	2,426	83	3.4	0	0.0	0	0.0	0	0.0
Total	12,811	1,287	10.0	3	0.2	11	0.9	14	1.1
6-17 Years	28,737	105	0.4					0	0.0

Cecil County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	1,481	85	5.7	0	0.0	0	0.0	0	0.0
One Year	1,537	481	31.3	0	0.0	1	0.2	1	0.2
Two Years	1,479	226	15.3	0	0.0	0	0.0	0	0.0
Three Years	1,467	117	8.0	0	0.0	0	0.0	0	0.0
Four Years	1,436	130	9.0	0	0.0	0	0.0	0	0.0
Five Years	1,483	93	6.3	0	0.0	0	0.0	0	0.0
Total	8,884	1,132	12.7	0	0.0	1	0.1	1	0.1
6-17 Years	16,883	122	0.7					0	0.0

Charles County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	2,176	202	9.3	0	0.0	0	0.0	0	0.0
One Year	2,121	629	29.7	0	0.0	0	0.0	0	0.0
Two Years	2,268	512	22.6	0	0.0	0	0.0	0	0.0
Three Years	2,134	243	11.4	0	0.0	0	0.0	0	0.0
Four Years	2,170	204	9.4	0	0.0	0	0.0	0	0.0
Five Years	2,146	114	5.3	0	0.0	1	0.9	1	0.9
Total	13,015	1,904	14.6	0	0.0	1	0.1	1	0.1
6-17 Years	26,328	118	0.4					0	0.0

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Dorchester County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	494	10	2.0	0	0.0	0	0.0	0	0.0
One Year	472	266	56.4	1	0.4	0	0.0	1	0.4
Two Years	473	235	49.7	0	0.0	0	0.0	0	0.0
Three Years	456	82	18.0	0	0.0	0	0.0	0	0.0
Four Years	454	60	13.2	0	0.0	0	0.0	0	0.0
Five Years	399	28	7.0	0	0.0	0	0.0	0	0.0
Total	2,747	681	24.8	1	0.1	0	0.0	1	0.1
6-17 Years	4,495	28	0.6					0	0.0

Frederick County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	3,312	143	4.3	0	0.0	0	0.0	0	0.0
One Year	3,311	1,446	43.7	0	0.0	3	0.2	3	0.2
Two Years	3,471	611	17.6	2	0.3	2	0.3	4	0.7
Three Years	3,465	354	10.2	3	0.8	2	0.6	5	1.4
Four Years	3,544	399	11.3	0	0.0	0	0.0	0	0.0
Five Years	3,495	288	8.2	0	0.0	0	0.0	0	0.0
Total	20,597	3,241	15.7	5	0.2	7	0.2	12	0.4
6-17 Years	39,441	151	0.4					0	0.0

Garrett County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	356	8	2.2	0	0.0	0	0.0	0	0.0
One Year	330	166	50.3	0	0.0	1	0.6	1	0.6
Two Years	368	151	41.0	0	0.0	1	0.7	1	0.7
Three Years	359	44	12.3	0	0.0	1	2.3	1	2.3
Four Years	373	39	10.4	0	0.0	0	0.0	0	0.0
Five Years	399	30	7.5	0	0.0	0	0.0	0	0.0
Total	2,185	438	20.0	0	0.0	3	0.7	3	0.7
6-17 Years	4,540	13	0.3					0	0.0

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Harford County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	3,369	454	13.5	0	0.0	0	0.0	0	0.0
One Year	3,438	869	25.3	0	0.0	3	0.3	3	0.3
Two Years	3,421	773	22.6	0	0.0	0	0.0	0	0.0
Three Years	3,510	333	9.5	0	0.0	1	0.3	1	0.3
Four Years	3,509	290	8.3	0	0.0	1	0.3	1	0.3
Five Years	3,472	251	7.2	0	0.0	0	0.0	0	0.0
Total	20,720	2,970	14.3	0	0.0	5	0.2	5	0.2
6-17 Years	40,610	390	1.0					0	0.0

Howard County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	3,893	195	5.0	0	0.0	0	0.0	0	0.0
One Year	3,892	909	23.4	0	0.0	1	0.1	1	0.1
Two Years	4,074	602	14.8	1	0.2	4	0.7	5	0.8
Three Years	4,036	317	7.9	0	0.0	1	0.3	1	0.3
Four Years	4,090	308	7.5	0	0.0	0	0.0	0	0.0
Five Years	4,276	227	5.3	0	0.0	0	0.0	0	0.0
Total	24,261	2,558	10.5	1	0.0	6	0.2	7	0.3
6-17 Years	51,292	459	0.9					0	0.0

Kent County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	238	17	7.1	0	0.0	0	0.0	0	0.0
One Year	238	106	44.6	0	0.0	1	0.9	1	0.9
Two Years	218	81	37.1	0	0.0	0	0.0	0	0.0
Three Years	230	32	13.9	0	0.0	0	0.0	0	0.0
Four Years	223	18	8.1	0	0.0	0	0.0	0	0.0
Five Years	233	12	5.1	0	0.0	0	0.0	0	0.0
Total	1,380	266	19.3	0	0.0	1	0.4	1	0.4
6-17 Years	2,255	10	0.4					0	0.0

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Montgomery County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	14,892	3,696	24.8	0	0.0	5	0.1	5	0.1
One Year	14,857	5,061	34.1	0	0.0	12	0.2	12	0.2
Two Years	14,755	4,984	33.8	0	0.0	4	0.1	4	0.1
Three Years	14,337	2,035	14.2	1	0.0	5	0.2	6	0.3
Four Years	14,581	2,473	17.0	3	0.1	5	0.2	8	0.3
Five Years	14,173	1,594	11.2	0	0.0	1	0.1	1	0.1
Total	87,595	19,843	22.7	4	0.0	32	0.2	36	0.2
6-17 Years	151,071	1,874	1.2					0	0.0

Prince George's County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	14,353	1,888	13.2	0	0.0	4	0.2	4	0.2
One Year	13,814	5,951	43.1	0	0.0	10	0.2	10	0.2
Two Years	13,406	4,749	35.4	1	0.0	11	0.2	12	0.3
Three Years	13,285	2,418	18.2	1	0.0	2	0.1	3	0.1
Four Years	12,664	2,771	21.9	0	0.0	5	0.2	5	0.2
Five Years	12,289	1,895	15.4	0	0.0	5	0.3	5	0.3
Total	79,810	19,672	24.6	2	0.0	37	0.2	39	0.2
6-17 Years	130,648	2,846	2.2					0	0.0

Queen Anne's County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	630	14	2.2	0	0.0	0	0.0	0	0.0
One Year	612	211	34.5	0	0.0	0	0.0	0	0.0
Two Years	609	141	23.2	0	0.0	2	1.4	2	1.4
Three Years	627	41	6.5	0	0.0	0	0.0	0	0.0
Four Years	644	50	7.8	0	0.0	0	0.0	0	0.0
Five Years	676	18	2.7	0	0.0	0	0.0	0	0.0
Total	3,798	475	12.5	0	0.0	2	0.4	2	0.4
6-17 Years	7,754	22	0.3					0	0.0

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Saint Mary's County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	1,755	235	13.4	0	0.0	0	0.0	0	0.0
One Year	1,729	631	36.5	0	0.0	0	0.0	0	0.0
Two Years	1,711	468	27.4	0	0.0	0	0.0	0	0.0
Three Years	1,795	119	6.6	0	0.0	0	0.0	0	0.0
Four Years	1,739	101	5.8	0	0.0	0	0.0	0	0.0
Five Years	1,698	48	2.8	0	0.0	0	0.0	0	0.0
Total	10,427	1,602	15.4	0	0.0	0	0.0	0	0.0
6-17 Years	17,793	100	0.6					0	0.0

Somerset County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	305	29	9.5	0	0.0	0	0.0	0	0.0
One Year	300	200	66.6	1	0.5	1	0.5	2	1.0
Two Years	314	187	59.6	0	0.0	0	0.0	0	0.0
Three Years	269	62	23.0	0	0.0	0	0.0	0	0.0
Four Years	285	42	14.7	0	0.0	0	0.0	0	0.0
Five Years	270	29	10.7	0	0.0	0	0.0	0	0.0
Total	1,742	549	31.5	1	0.2	1	0.2	2	0.4
6-17 Years	2,828	91	3.2					0	0.0

Talbot County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	399	13	3.3	0	0.0	0	0.0	0	0.0
One Year	465	279	60.1	0	0.0	1	0.4	1	0.4
Two Years	457	263	57.6	1	0.4	2	0.8	3	1.1
Three Years	404	50	12.4	0	0.0	0	0.0	0	0.0
Four Years	419	35	8.3	0	0.0	0	0.0	0	0.0
Five Years	457	15	3.3	0	0.0	0	0.0	0	0.0
Total	2,600	655	25.2	1	0.2	3	0.5	4	0.6
6-17 Years	4,881	21	0.4					0	0.0

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Washington County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	2,066	69	3.3	0	0.0	0	0.0	0	0.0
One Year	2,046	998	48.8	0	0.0	5	0.5	5	0.5
Two Years	2,114	731	34.6	2	0.3	3	0.4	5	0.7
Three Years	2,147	274	12.8	0	0.0	1	0.4	1	0.4
Four Years	1,993	361	18.1	0	0.0	1	0.3	1	0.3
Five Years	2,096	258	12.3	0	0.0	0	0.0	0	0.0
Total	12,462	2,691	21.6	2	0.1	10	0.4	12	0.4
6-17 Years	22,051	112	0.5					0	0.0

Wicomico County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	1,465	74	5.0	0	0.0	0	0.0	0	0.0
One Year	1,470	877	59.6	0	0.0	2	0.2	2	0.2
Two Years	1,411	754	53.4	0	0.0	1	0.1	1	0.1
Three Years	1,462	239	16.3	0	0.0	0	0.0	0	0.0
Four Years	1,271	185	14.6	0	0.0	0	0.0	0	0.0
Five Years	1,348	86	6.4	1	1.2	1	1.2	2	2.3
Total	8,427	2,215	26.3	1	0.0	4	0.2	5	0.2
6-17 Years	14,165	189	1.3					0	0.0

Worcester County

Age Group	Population of Children	Children Tested		Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	542	24	4.4	0	0.0	0	0.0	0	0.0
One Year	546	316	57.9	0	0.0	1	0.3	1	0.3
Two Years	532	337	63.4	0	0.0	0	0.0	0	0.0
Three Years	525	96	18.3	0	0.0	1	1.0	1	1.0
Four Years	533	69	13.0	0	0.0	0	0.0	0	0.0
Five Years	504	35	6.9	0	0.0	0	0.0	0	0.0
Total	3,182	877	27.6	0	0.0	2	0.2	2	0.2
6-17 Years	6,361	70	1.1					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 incidence and prevalence of blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ by age and county of residence

(Annual Report 2011)

Age Group	Population of Children	County Unknown							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$					
		Number	Percent	Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One		0		0	0.0	0	0.0	0	0.0
One Year		2		0	0.0	0	0.0	0	0.0
Two Years		0		0	0.0	0	0.0	0	0.0
Three Years		0		0	0.0	0	0.0	0	0.0
Four Years		2		0	0.0	0	0.0	0	0.0
Five Years		0		0	0.0	0	0.0	0	0.0
Total		4		0	0.0	0	0.0	0	0.0
6-17 Years		0						0	0.0

Age Group	Population of Children	Statewide							
		Children Tested		Number of Children with Blood Lead Level =10 $\mu\text{g}/\text{dL}$					
		Number	Percent	Old Cases		New (Incident) Cases		Total (Prevalent) Cases	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under One	86,129	11,128	12.9	0	0.0	17	0.2	17	0.2
One Year	85,146	36,854	43.3	19	0.1	146	0.4	165	0.4
Two Years	84,058	29,774	35.4	40	0.1	105	0.4	145	0.5
Three Years	82,913	11,934	14.4	28	0.2	34	0.3	62	0.5
Four Years	81,741	11,822	14.5	17	0.1	30	0.3	47	0.4
Five Years	80,715	8,022	9.9	6	0.1	10	0.1	16	0.2
Total	500,702	109,534	21.9	110	0.1	342	0.3	452	0.4
6-17 Years	879,120	12,153	1.4					0	0.0

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 was projected from Maryland census population 2010, provided by the Maryland Data Center, Maryland Department of Planning, www.planning.maryland.gov/msdc. 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 astrich ‘*’.
3. Old cases of EBL are based on the number of children who have had a blood lead test with blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ in 2011 and had at least one blood lead test with blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ in the past. Old cases are not determined for children 6-17 years old.
4. Incidence is based on the number of children with the very first blood lead test with blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ in 2011. These children may have not been tested for lead in the past or all their previous blood lead tests were below 10 $\mu\text{g}/\text{dL}$. Incidence data is not calculated for children 6-17 years old.
5. Prevalence is the number of children with at least one blood lead test with blood lead level ≥ 10 $\mu\text{g}/\text{dL}$ in 2011.