



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2011

Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Supplementary Data Tables: Supplement #5

July, 2012



MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007			2009			2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Allegany County									
Under One	836	24	2.9	859	23	2.7	868	26	3.0
One Year	841	553	65.8	773	550	71.1	782	599	76.6
Two Years	867	430	49.6	910	515	56.6	918	527	57.4
Three Years	826	77	9.3	881	75	8.5	888	79	8.9
Four Years	789	89	11.3	783	79	10.1	788	85	10.8
Five Years	798	58	7.3	760	81	10.7	764	55	7.2
Total	4,957	1,231	24.8	4,966	1,323	26.6	5,007	1,371	27.4
Anne Arundel County									
Under One	7,488	570	7.6	7,529	551	7.3	7,609	642	8.4
One Year	7,559	2,711	35.9	7,875	2,845	36.1	7,959	3,007	37.8
Two Years	7,268	1,667	22.9	7,166	1,732	24.2	7,231	1,852	25.6
Three Years	7,189	613	8.5	7,285	706	9.7	7,347	707	9.6
Four Years	7,114	589	8.3	7,106	546	7.7	7,157	624	8.7
Five Years	7,160	465	6.5	7,130	437	6.1	7,168	501	7.0
Total	43,779	6,615	15.1	44,090	6,817	15.5	44,471	7,333	16.5
Baltimore County									
Under One	10,174	1,807	17.8	9,729	1,564	16.1	9,829	1,743	17.7
One Year	10,132	5,679	56.1	10,304	5,632	54.7	10,405	5,510	53.0
Two Years	9,929	4,489	45.2	9,893	4,811	48.6	9,980	5,108	51.2
Three Years	9,824	1,628	16.6	10,384	1,494	14.4	10,470	1,639	15.7
Four Years	10,011	1,510	15.1	10,273	1,313	12.8	10,352	1,252	12.1
Five Years	9,725	1,142	11.7	9,963	1,023	10.3	10,018	887	8.9
Total	59,794	16,255	27.2	60,547	15,837	26.2	61,053	16,139	26.4
Baltimore City									
Under One	9,959	1,613	16.2	10,508	1,559	14.8	10,618	1,718	16.2
One Year	9,488	5,982	63.0	9,685	6,578	67.9	9,779	6,621	67.7
Two Years	9,054	4,736	52.3	8,892	5,106	57.4	8,978	5,525	61.5
Three Years	8,971	2,194	24.5	9,059	2,214	24.4	9,131	2,222	24.3
Four Years	8,706	1,825	21.0	9,165	1,862	20.3	9,229	1,775	19.2
Five Years	8,964	1,320	14.7	8,650	1,303	15.1	8,696	1,182	13.6
Total	55,142	17,670	32.0	55,959	18,622	33.3	56,431	19,043	33.7

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007						2009						2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Calvert County															
Under One	1,097	102	9.3	1,032	162	15.7	1,043	133	12.7	1,074	114	10.6	1,116	100	9.0
One Year	1,055	357	33.8	1,179	310	26.3	1,191	279	23.4	1,227	325	26.5	1,116	341	30.6
Two Years	1,169	162	13.9	1,090	159	14.6	1,100	134	12.2	1,132	135	11.9	1,130	172	15.2
Three Years	1,116	55	4.9	1,132	60	5.3	1,141	72	6.3	1,171	66	5.6	1,176	73	6.2
Four Years	1,176	67	5.7	1,184	38	3.2	1,192	52	4.4	1,220	48	3.9	1,202	45	3.7
Five Years	1,197	42	3.5	1,246	39	3.1	1,253	28	2.2	1,277	29	2.3	1,290	47	3.6
Total	6,810	785	11.5	6,864	768	11.2	6,920	698	10.1	7,103	717	10.1	7,030	778	11.1
Caroline County															
Under One	393	27	6.9	365	19	5.2	369	20	5.4	380	20	5.3	523	13	2.5
One Year	373	374	100.2	389	353	90.7	393	367	93.4	405	367	90.6	525	330	62.9
Two Years	400	297	74.3	471	322	68.4	474	310	65.4	489	329	67.3	524	283	54.0
Three Years	462	58	12.6	460	70	15.2	464	52	11.2	476	64	13.4	561	50	8.9
Four Years	409	60	14.7	393	49	12.5	396	65	16.4	405	66	16.3	532	49	9.2
Five Years	453	40	8.8	418	39	9.3	420	25	5.9	429	24	5.6	512	26	5.1
Total	2,490	856	34.4	2,497	852	34.1	2,516	839	33.3	2,584	870	33.7	3,176	751	23.6
Carroll County															
Under One	2,135	146	6.8	1,999	138	6.9	2,018	140	6.9	2,081	139	6.7	1,906	150	7.9
One Year	2,184	569	26.1	2,323	626	27.0	2,347	543	23.1	2,417	559	23.1	2,017	530	26.3
Two Years	2,271	280	12.3	2,414	269	11.1	2,435	284	11.7	2,506	313	12.5	2,071	299	14.4
Three Years	2,260	169	7.5	2,302	107	4.6	2,321	132	5.7	2,382	149	6.3	2,136	116	5.4
Four Years	2,326	133	5.7	2,390	94	3.9	2,409	132	5.5	2,463	111	4.5	2,256	109	4.8
Five Years	2,370	107	4.5	2,445	109	4.5	2,458	111	4.5	2,506	97	3.9	2,426	83	3.4
Total	13,546	1,404	10.4	13,872	1,343	9.7	13,988	1,342	9.6	14,356	1,368	9.5	12,811	1,287	10.0
Cecil County															
Under One	1,328	87	6.6	1,232	119	9.7	1,243	114	9.2	1,282	112	8.7	1,481	85	5.7
One Year	1,303	535	41.1	1,457	549	37.7	1,470	475	32.3	1,517	561	37.0	1,537	481	31.3
Two Years	1,318	169	12.8	1,447	189	13.1	1,460	196	13.4	1,502	232	15.4	1,479	226	15.3
Three Years	1,281	149	11.6	1,018	151	14.8	1,027	168	16.4	1,053	159	15.1	1,467	117	8.0
Four Years	1,359	139	10.2	1,527	127	8.3	1,538	139	9.0	1,574	142	9.0	1,436	130	9.0
Five Years	1,305	107	8.2	1,284	130	10.1	1,292	120	9.3	1,316	96	7.3	1,483	93	6.3
Total	7,894	1,186	15.0	7,965	1,265	15.9	8,030	1,212	15.1	8,245	1,302	15.8	8,884	1,132	12.7

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007						2009						2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Charles County															
Under One	1,835	261	14.2	2,037	272	13.4	2,057	214	10.4	2,120	233	11.0	2,176	202	9.3
One Year	1,924	639	33.2	1,672	610	36.5	1,690	563	33.3	1,740	703	40.4	2,121	629	29.7
Two Years	1,962	493	25.1	1,961	571	29.1	1,980	547	27.6	2,036	558	27.4	2,268	512	22.6
Three Years	1,885	240	12.7	2,131	248	11.6	2,148	237	11.0	2,204	237	10.8	2,134	243	11.4
Four Years	1,911	219	11.5	1,957	188	9.6	1,971	166	8.4	2,017	199	9.9	2,170	204	9.4
Five Years	2,012	147	7.3	2,244	143	6.4	2,255	109	4.8	2,300	112	4.9	2,146	114	5.3
Total	11,529	1,999	17.3	12,001	2,032	16.9	12,101	1,836	15.2	12,418	2,042	16.4	13,015	1,904	14.6
Dorchester County															
Under One	377	12	3.2	397	16	4.0	402	21	5.2	413	7	1.7	494	10	2.0
One Year	343	293	85.4	400	291	72.8	404	317	78.4	416	307	73.8	472	266	56.4
Two Years	380	207	54.5	341	226	66.2	344	239	69.4	354	264	74.5	473	235	49.7
Three Years	368	81	22.0	399	62	15.6	402	84	20.9	412	99	24.0	456	82	18.0
Four Years	358	56	15.6	351	51	14.5	353	38	10.8	361	56	15.5	454	60	13.2
Five Years	375	27	7.2	379	34	9.0	381	31	8.1	389	41	10.5	399	28	7.0
Total	2,201	676	30.7	2,266	680	30.0	2,287	730	31.9	2,346	774	33.0	2,747	681	24.8
Frederick County															
Under One	3,023	217	7.2	3,517	156	4.4	3,557	149	4.2	3,661	187	5.1	3,312	143	4.3
One Year	3,147	1,488	47.3	3,026	1,428	47.2	3,057	1,411	46.2	3,150	1,398	44.4	3,311	1,446	43.7
Two Years	3,118	638	20.5	3,112	695	22.3	3,142	693	22.1	3,231	628	19.4	3,471	611	17.6
Three Years	3,115	369	11.8	3,426	341	10.0	3,454	357	10.3	3,544	301	8.5	3,465	354	10.2
Four Years	3,143	380	12.1	2,834	406	14.3	2,853	346	12.1	2,921	355	12.2	3,544	399	11.3
Five Years	3,140	373	11.9	3,270	350	10.7	3,286	225	6.8	3,352	278	8.3	3,495	288	8.2
Total	18,686	3,465	18.5	19,184	3,376	17.6	19,349	3,181	16.4	19,859	3,147	15.8	20,597	3,241	15.7
Garrett County															
Under One	412	19	4.6	514	14	2.7	519	16	3.1	535	15	2.8	356	8	2.2
One Year	400	197	49.2	364	199	54.7	368	144	39.1	378	195	51.5	330	166	50.3
Two Years	402	166	41.3	442	152	34.4	447	166	37.1	459	150	32.7	368	151	41.0
Three Years	379	67	17.7	356	43	12.1	359	52	14.5	369	75	20.3	359	44	12.3
Four Years	410	47	11.5	381	33	8.7	384	53	13.8	393	39	9.9	373	39	10.4
Five Years	429	45	10.5	410	38	9.3	412	42	10.2	421	43	10.2	399	30	7.5
Total	2,432	541	22.2	2,468	479	19.4	2,490	473	19.0	2,555	517	20.2	2,185	438	20.0

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007						2009						2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Harford County															
Under One	3,406	525	15.4	3,464	561	16.2	3,499	524	15.0	3,607	465	12.9	3,369	454	13.5
One Year	3,545	1,015	28.6	3,723	1,019	27.4	3,760	1,010	26.9	3,875	988	25.5	3,438	869	25.3
Two Years	3,443	768	22.3	3,568	781	21.9	3,600	800	22.2	3,704	835	22.5	3,421	773	22.6
Three Years	3,591	368	10.2	3,470	303	8.7	3,499	287	8.2	3,590	340	9.5	3,510	333	9.5
Four Years	3,465	364	10.5	3,440	335	9.7	3,464	303	8.7	3,546	291	8.2	3,509	290	8.3
Five Years	3,498	306	8.7	3,339	259	7.8	3,357	260	7.7	3,422	257	7.5	3,472	251	7.2
Total	20,947	3,346	16.0	21,005	3,258	15.5	21,180	3,184	15.0	21,745	3,176	14.6	20,720	2,970	14.3
Howard County															
Under One	3,963	245	6.2	4,125	269	6.5	4,171	289	6.9	4,295	260	6.1	3,893	195	5.0
One Year	3,934	804	20.4	4,020	930	23.1	4,064	867	21.3	4,184	904	21.6	3,892	909	23.4
Two Years	4,039	538	13.3	4,206	570	13.6	4,244	609	14.4	4,367	630	14.4	4,074	602	14.8
Three Years	4,128	311	7.5	4,301	285	6.6	4,337	296	6.8	4,449	338	7.6	4,036	317	7.9
Four Years	4,115	241	5.9	3,760	261	6.9	3,786	244	6.4	3,876	303	7.8	4,090	308	7.5
Five Years	4,177	195	4.7	4,365	178	4.1	4,388	198	4.5	4,474	196	4.4	4,276	227	5.3
Total	24,355	2,334	9.6	24,777	2,493	10.1	24,990	2,503	10.0	25,645	2,631	10.3	24,261	2,558	10.5
Kent County															
Under One	222	37	16.7	207	29	14.0	209	32	15.3	216	9	4.2	238	17	7.1
One Year	204	129	63.2	242	110	45.4	245	142	57.9	252	119	47.2	238	106	44.6
Two Years	196	85	43.4	200	99	49.4	202	93	46.0	208	95	45.7	218	81	37.1
Three Years	179	41	23.0	158	22	14.0	159	25	15.8	163	21	12.9	230	32	13.9
Four Years	184	28	15.2	188	27	14.4	190	21	11.1	194	28	14.4	223	18	8.1
Five Years	213	14	6.6	247	16	6.5	248	10	4.0	253	5	2.0	233	12	5.1
Total	1,197	334	27.9	1,242	303	24.4	1,253	323	25.8	1,286	277	21.5	1,380	266	19.3
Montgomery County															
Under One	13,842	3,718	26.9	13,897	3,787	27.2	14,047	3,436	24.5	14,467	3,823	26.4	14,892	3,696	24.8
One Year	13,388	4,831	36.1	13,450	4,706	35.0	13,585	4,847	35.7	13,999	5,363	38.3	14,857	5,061	34.1
Two Years	13,221	4,057	30.7	13,925	4,604	33.1	14,052	4,635	33.0	14,457	5,400	37.4	14,755	4,984	33.8
Three Years	12,993	2,053	15.8	12,699	1,955	15.4	12,807	1,914	14.9	13,137	2,178	16.6	14,337	2,035	14.2
Four Years	13,153	2,229	16.9	13,722	2,221	16.2	13,823	2,049	14.8	14,145	2,627	18.6	14,581	2,473	17.0
Five Years	12,667	1,386	10.9	12,569	1,314	10.5	12,637	1,319	10.4	12,884	1,570	12.2	14,173	1,594	11.2
Total	79,264	18,274	23.1	80,262	18,587	23.2	80,950	18,200	22.5	83,089	20,961	25.2	87,595	19,843	22.7

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007			2009			2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Prince George's County									
Under One	12,865	1,865	14.5	13,496	1,822	13.5	13,637	1,925	14.1
One Year	12,981	5,632	43.4	13,315	5,899	44.3	13,448	5,891	43.8
Two Years	12,865	4,024	31.3	12,790	4,323	33.8	12,909	4,702	36.4
Three Years	12,778	2,305	18.0	12,746	2,455	19.3	12,850	2,547	19.8
Four Years	12,623	2,528	20.0	12,855	2,506	19.5	12,948	2,751	21.2
Five Years	12,714	1,717	13.5	12,423	1,727	13.9	12,486	1,778	14.2
Total	76,826	18,071	23.5	77,625	18,732	24.1	78,279	19,594	25.0
Queen Anne's County									
Under One	603	43	7.1	611	45	7.4	618	39	6.3
One Year	579	281	48.6	599	233	38.9	605	237	39.2
Two Years	547	188	34.3	614	157	25.6	619	194	31.3
Three Years	598	76	12.7	697	77	11.0	704	56	8.0
Four Years	542	66	12.2	408	56	13.7	411	60	14.6
Five Years	594	49	8.2	654	26	4.0	658	21	3.2
Total	3,462	703	20.3	3,583	594	16.6	3,614	607	16.8
Saint Mary's County									
Under One	1,337	253	18.9	1,430	202	14.1	1,444	227	15.7
One Year	1,394	549	39.4	1,415	607	42.9	1,428	571	40.0
Two Years	1,443	418	29.0	1,368	467	34.1	1,383	496	35.9
Three Years	1,366	111	8.1	1,515	120	7.9	1,527	101	6.6
Four Years	1,361	75	5.5	1,307	70	5.4	1,315	79	6.0
Five Years	1,474	62	4.2	1,512	51	3.4	1,520	53	3.5
Total	8,375	1,468	17.5	8,548	1,517	17.7	8,618	1,527	17.7
Somerset County									
Under One	288	39	13.5	286	22	7.7	288	32	11.1
One Year	239	208	87.1	194	183	94.6	195	210	107.4
Two Years	262	170	64.8	281	206	73.4	283	161	56.9
Three Years	254	51	20.1	263	60	22.8	266	49	18.4
Four Years	282	44	15.6	286	35	12.2	287	31	10.8
Five Years	252	17	6.7	212	16	7.5	213	14	6.6
Total	1,577	529	33.5	1,521	522	34.3	1,533	497	32.4

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007			2009			2011		
	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent	Population of Children	Children Tested Number	Percent
Talbot County									
Under One	385	21	5.4	327	15	4.6	331	16	4.8
One Year	342	304	88.9	377	261	69.2	381	305	80.0
Two Years	399	238	59.7	458	239	52.2	462	245	53.1
Three Years	407	75	18.4	437	39	8.9	440	43	9.8
Four Years	403	35	8.7	375	29	7.7	377	35	9.3
Five Years	414	29	7.0	425	29	6.8	427	31	7.3
Total	2,351	702	29.9	2,399	612	25.5	2,417	675	27.9
Washington County									
Under One	1,881	124	6.6	1,897	96	5.1	1,916	84	4.4
One Year	1,765	1,108	62.8	1,710	1,098	64.2	1,729	1,059	61.2
Two Years	1,811	760	42.0	2,033	868	42.7	2,050	879	42.9
Three Years	1,794	330	18.4	1,726	312	18.1	1,740	324	18.6
Four Years	1,724	392	22.7	1,848	366	19.8	1,864	377	20.2
Five Years	1,733	350	20.2	1,899	301	15.8	1,908	283	14.8
Total	10,709	3,064	28.6	11,113	3,041	27.4	11,207	3,006	26.8
Wicomico County									
Under One	1,268	218	17.2	1,266	97	7.7	1,278	109	8.5
One Year	1,151	1,053	91.5	1,219	890	73.0	1,233	821	66.6
Two Years	1,172	855	73.0	1,184	807	68.2	1,193	741	62.1
Three Years	1,236	399	32.3	1,297	273	21.0	1,309	264	20.2
Four Years	1,062	306	28.8	933	215	23.0	939	187	19.9
Five Years	1,142	144	12.6	1,099	138	12.6	1,105	126	11.4
Total	7,031	2,975	42.3	6,998	2,420	34.6	7,058	2,248	31.9
Worcester County									
Under One	541	66	12.2	547	26	4.8	554	29	5.2
One Year	508	293	57.7	513	337	65.7	518	324	62.5
Two Years	537	316	58.8	607	277	45.6	612	297	48.5
Three Years	470	138	29.3	466	123	26.4	469	94	20.0
Four Years	462	74	16.0	455	92	20.2	459	62	13.5
Five Years	516	60	11.6	561	55	9.8	564	44	7.8
Total	3,035	947	31.2	3,148	910	28.9	3,177	850	26.8
2011									
Under One	399	13	3.3	465	279	60.1	457	263	57.6
One Year	465	279	60.1	457	263	57.6	404	50	12.4
Two Years	457	263	57.6	404	50	12.4	419	35	8.3
Three Years	404	50	12.4	419	35	8.3	457	15	3.3
Four Years	419	35	8.3	457	15	3.3	2,600	655	25.2
Five Years	457	15	3.3	2,600	655	25.2			
Total	2,600	655	25.2						

Refer to Page 8 for terms and definitions.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Lead Poisoning Prevention Program: Childhood Lead Registry
Age-specific blood lead testing by jurisdiction: Five year data: 2007-2011

Age Group	2007						2009						2011			
	Population of		Children Tested Number	Percent	Population of		Children Tested Number	Percent	Population of		Children Tested Number	Percent	Population of		Children Tested Number	Percent
	Children				Children				Children				Children			
	Statewide															
Under One	79,659	12,063	15.1	81,272	11,572	14.2	82,123	11,678	14.2	84,607	11,842	14.0	86,129	11,128	12.9	
One Year	78,779	35,686	45.3	80,225	36,272	45.2	81,038	36,122	44.6	83,496	38,815	46.5	85,146	36,854	43.3	
Two Years	78,074	26,217	33.6	79,371	28,162	35.5	80,099	29,433	36.7	82,403	31,150	37.8	84,058	29,774	35.4	
Three Years	77,470	11,990	15.5	78,608	11,602	14.8	79,260	11,804	14.9	81,322	12,965	15.9	82,913	11,934	14.4	
Four Years	77,084	11,524	14.9	77,920	11,004	14.1	78,484	10,926	13.9	80,324	12,159	15.1	81,741	11,822	14.5	
Five Years	77,324	8,228	10.6	77,504	7,840	10.1	77,915	7,453	9.6	79,446	7,898	9.9	80,715	8,022	9.9	
Total	468,390	105,708	22.6	474,900	106,452	22.4	478,919	107,416	22.4	491,598	114,829	23.4	500,702	109,534	21.9	

Terms and definitions:

1. Population for calendar years 2007-2010 was adapted from the US Census Bureau age-sex population projection at the state level for 2000-2030. Population for calendar year 2011 was adapted from Maryland census population 2010, provided by the Maryland Data Center, Maryland Department of Planning, www.planning.maryland.gov/msdc.
2. Number of children tested is based on the highest venous or the highest capillary blood lead test that the Childhood Lead Registry (CLR) received from laboratories for a given child for each calendar year. Blood lead reports with sample type unknown were counted as capillary.
3. County assignment is based on child's address census tract (1st choice) or child's address zip code (2nd choice). Reports with incomplete or no address were assumed to be from Maryland children with address (and county) unknown. These records are not included in this supplement. As such, counties total may not equal the total for the state.
4. For detail information on blood lead distribution by age refer to the supplementary data tables 1-4 of the CLR Annual Reports for each calendar year.