



**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

Lead Poisoning Prevention Program

Childhood Blood Lead Surveillance in Maryland

Annual Report 2011

Number and percentage of children tested for lead (2002-2011), with number of percentage of those with Elevated Blood Lead (EBL), or Lead Poisoning (2002-2004), and with Prevalence and Incidence Cases (2005-2011) by county of residence

Supplementary Data Tables: Supplement # 4



*July, 2012*

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of children 0-72 months tested for lead with the status of those with blood lead level  $\geq 10$   $\mu\text{g/dL}$  by jurisdiction: 2001-2010 (Refer to page 10 for terms and definitions)

**Allegany County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	4,618	1,183	25.6	29	2.5	2	0.2
2003	4,234	1,315	31.1	30	2.3	5	0.4
2004	4,747	1,329	28.0	24	1.8	3	0.2
				Prevalence Cases		Incidence Cases	
2005	4,821	1,037	21.5	32	3.1	25	2.4
2006	4,904	1,172	23.9	22	1.9	17	1.5
2007	4,957	1,231	24.8	12	1.0	11	0.9
2008	4,966	1,323	26.6	11	0.8	8	0.6
2009	5,007	1,371	27.4	15	1.1	13	0.9
2010	5,141	1,332	25.9	10	0.8	7	0.5
2011	4,766	1,359	28.5	9	0.7	5	0.4

**Anne Arundel County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	40,257	5,944	14.8	30	0.5	4	0.1
2003	40,844	5,029	12.3	20	0.4	1	0.0
2004	41,895	6,806	16.2	27	0.4	6	0.1
				Prevalence Cases		Incidence Cases	
2005	42,575	6,631	15.6	20	0.3	18	0.3
2006	43,306	6,422	14.8	20	0.3	16	0.2
2007	43,779	6,615	15.1	19	0.3	16	0.2
2008	44,090	6,817	15.5	7	0.1	6	0.1
2009	44,471	7,333	16.5	7	0.1	5	0.1
2010	45,643	7,982	17.5	14	0.2	12	0.2
2011	47,391	8,162	17.2	8	0.1	7	0.1

**Baltimore County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	55,444	10,499	18.9	148	1.4	12	0.1
2003	54,933	10,427	19.0	120	1.2	18	0.2
2004	57,205	14,947	26.1	108	0.7	10	0.1
				Prevalence Cases		Incidence Cases	
2005	58,150	14,505	24.9	110	0.8	84	0.6
2006	59,148	15,344	25.9	85	0.6	69	0.4
2007	59,794	16,255	27.2	62	0.4	52	0.3
2008	60,547	15,837	26.2	36	0.2	31	0.2
2009	61,053	16,139	26.4	28	0.2	21	0.1
2010	62,670	16,732	26.7	34	0.2	25	0.2
2011	66,014	16,375	24.8	26	0.2	19	0.1

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**Baltimore City**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	52,744	16,595	31.5	1,558	9.4	183	1.1
2003	51,892	18,242	35.2	1,166	6.4	160	0.9
2004	52,796	18,970	35.9	1,183	6.2	147	0.8
				Prevalence Cases		Incidence Cases	
2005	53,626	17,943	33.5	854	4.8	534	3.0
2006	54,547	18,363	33.7	843	4.6	573	3.1
2007	55,142	17,670	32.0	624	3.5	435	2.5
2008	55,959	18,623	33.3	468	2.5	302	1.6
2009	56,431	19,043	33.7	347	1.8	214	1.1
2010	57,937	19,702	34.0	314	1.6	229	1.2
2011	55,681	19,049	34.2	258	1.4	182	1.0

**Calvert County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	6,252	899	14.4	8	0.9	2	0.2
2003	6,209	682	11.0	2	0.3	0	0.0
2004	6,504	838	12.9	0	0.0	0	0.0
				Prevalence Cases		Incidence Cases	
2005	6,623	753	11.4	7	0.9	6	0.8
2006	6,737	749	11.1	9	1.2	9	1.2
2007	6,810	785	11.5	1	0.1	1	0.1
2008	6,864	768	11.2	0	0.0	0	0.0
2009	6,920	698	10.1	1	0.1	1	0.1
2010	7,103	717	10.1	1	0.1	1	0.1
2011	7,030	778	11.1	0	0.0	0	0.0

**Caroline County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	2,168	699	32.2	48	6.9	3	0.4
2003	2,270	796	35.1	14	1.8	3	0.4
2004	2,379	794	33.4	17	2.1	1	0.1
				Prevalence Cases		Incidence Cases	
2005	2,422	849	35.1	11	1.3	10	1.2
2006	2,463	893	36.3	7	0.8	3	0.3
2007	2,490	856	34.4	8	0.9	5	0.6
2008	2,497	852	34.1	7	0.8	3	0.4
2009	2,516	839	33.3	7	0.8	5	0.6
2010	2,584	870	33.7	9	1.0	6	0.7
2011	3,176	751	23.6	4	0.5	3	0.4

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**Carroll County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	11,888	978	8.2	10	1.0	1	0.1
2003	11,801	1,040	8.8	14	1.3	2	0.2
2004	12,938	1,323	10.2	13	1.0	1	0.1
				Prevalence Cases		Incidence Cases	
2005	13,173	1,460	11.1	5	0.3	3	0.2
2006	13,400	1,378	10.3	7	0.5	5	0.4
2007	13,546	1,404	10.4	3	0.2	2	0.1
2008	13,872	1,343	9.7	8	0.6	7	0.5
2009	13,988	1,342	9.6	7	0.5	6	0.4
2010	14,356	1,368	9.5	7	0.5	6	0.4
2011	12,811	1,287	10.0	14	1.1	11	0.9

**Cecil County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	7,104	1,018	14.3	9	0.9	2	0.2
2003	7,127	959	13.5	9	0.9	2	0.2
2004	7,548	1,073	14.2	6	0.6	0	0.0
				Prevalence Cases		Incidence Cases	
2005	7,677	1,046	13.6	7	0.7	6	0.6
2006	7,808	1,058	13.5	6	0.6	6	0.6
2007	7,894	1,186	15.0	6	0.5	4	0.3
2008	7,965	1,265	15.9	6	0.5	4	0.3
2009	8,030	1,212	15.1	4	0.3	2	0.2
2010	8,245	1,302	15.8	1	0.1	0	0.0
2011	8,884	1,132	12.7	1	0.1	1	0.1

**Charles County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	10,812	1,790	16.6	8	0.4	0	0.0
2003	11,023	1,391	12.6	2	0.1	0	0.0
2004	11,019	2,040	18.5	9	0.4	1	0.0
				Prevalence Cases		Incidence Cases	
2005	11,212	1,811	16.2	7	0.4	6	0.3
2006	11,404	1,919	16.8	1	0.1	1	0.1
2007	11,529	1,999	17.3	1	0.1	1	0.1
2008	12,001	2,032	16.9	1	0.0	1	0.0
2009	12,101	1,836	15.2	4	0.2	4	0.2
2010	12,418	2,042	16.4	2	0.1	2	0.1
2011	13,015	1,904	14.6	1	0.1	1	0.1

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**Dorchester County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	1,902	513	27.0	36	7.0	5	1.0
2003	1,952	540	27.7	26	4.8	5	0.9
2004	2,106	629	29.9	17	2.7	1	0.2
				Prevalence Cases		Incidence Cases	
2005	2,141	609	28.5	11	1.8	8	1.3
2006	2,177	684	31.4	11	1.6	8	1.2
2007	2,201	676	30.7	9	1.3	7	1.0
2008	2,266	680	30.0	9	1.3	5	0.7
2009	2,287	730	31.9	3	0.4	2	0.3
2010	2,346	774	33.0	5	0.6	4	0.5
2011	2,747	681	24.8	1	0.1	0	0.0

**Frederick County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	17,434	1,584	9.1	22	1.4	2	0.1
2003	17,641	1,630	9.2	16	1.0	2	0.1
2004	17,865	2,796	15.7	22	0.8	2	0.1
				Prevalence Cases		Incidence Cases	
2005	18,172	3,019	16.6	14	0.5	11	0.4
2006	18,484	3,108	16.8	10	0.3	7	0.2
2007	18,686	3,465	18.5	10	0.3	10	0.3
2008	19,184	3,376	17.6	16	0.5	13	0.4
2009	19,349	3,181	16.4	11	0.3	7	0.2
2010	19,859	3,147	15.8	9	0.3	8	0.3
2011	20,597	3,241	15.7	12	0.4	7	0.2

**Garrett County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	2,046	297	14.5	3	1.0	0	0.0
2003	2,020	429	21.2	3	0.7	0	0.0
2004	2,323	563	24.2	7	1.2	3	0.5
				Prevalence Cases		Incidence Cases	
2005	2,365	532	22.5	4	0.8	3	0.6
2006	2,406	495	20.6	5	1.0	3	0.6
2007	2,432	541	22.2	2	0.4	2	0.4
2008	2,468	479	19.4	2	0.4	1	0.2
2009	2,490	473	19.0	2	0.4	2	0.4
2010	2,555	517	20.2	1	0.2	1	0.2
2011	2,185	438	20.0	3	0.7	3	0.7

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**Harford County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	18,530	2,216	12.0	26	1.2	2	0.1
2003	18,482	2,674	14.5	19	0.7	2	0.1
2004	20,032	3,170	15.8	24	0.8	3	0.1
				Prevalence Cases		Incidence Cases	
2005	20,371	2,939	14.4	17	0.6	14	0.5
2006	20,721	3,041	14.7	15	0.5	14	0.5
2007	20,947	3,346	16.0	6	0.2	5	0.1
2008	21,005	3,258	15.5	5	0.2	5	0.2
2009	21,180	3,184	15.0	2	0.1	2	0.1
2010	21,745	3,176	14.6	8	0.3	8	0.3
2011	20,720	2,970	14.3	5	0.2	5	0.2

**Howard County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	22,090	1,796	8.1	16	0.9	2	0.1
2003	22,193	1,688	7.6	8	0.5	2	0.1
2004	23,278	2,338	10.0	13	0.6	1	0.0
				Prevalence Cases		Incidence Cases	
2005	23,686	2,273	9.6	7	0.3	4	0.2
2006	24,092	2,188	9.1	8	0.4	6	0.3
2007	24,355	2,334	9.6	3	0.1	2	0.1
2008	24,777	2,493	10.1	5	0.2	4	0.2
2009	24,990	2,503	10.0	1	0.0	1	0.0
2010	25,645	2,631	10.3	3	0.1	2	0.1
2011	24,261	2,558	10.5	7	0.3	6	0.2

**Kent County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	1,095	149	13.6	1	0.7	0	0.0
2003	1,041	157	15.1	3	1.9	0	0.0
2004	1,144	208	18.2	6	2.9	4	1.9
				Prevalence Cases		Incidence Cases	
2005	1,164	172	14.8	2	1.2	2	1.2
2006	1,184	257	21.7	4	1.6	4	1.6
2007	1,197	334	27.9	2	0.6	1	0.3
2008	1,242	303	24.4	5	1.7	3	1.0
2009	1,253	323	25.8	2	0.6	0	0.0
2010	1,286	277	21.5	2	0.7	2	0.7
2011	1,380	266	19.3	1	0.4	1	0.4

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**Montgomery County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	75,588	12,082	16.0	61	0.5	8	0.1
2003	76,648	10,163	13.3	53	0.5	9	0.1
2004	75,867	15,934	21.0	81	0.5	12	0.1
				Prevalence Cases		Incidence Cases	
2005	77,085	16,353	21.2	65	0.4	55	0.3
2006	78,408	17,411	22.2	53	0.3	48	0.3
2007	79,264	18,274	23.1	35	0.2	31	0.2
2008	80,262	18,587	23.2	36	0.2	25	0.1
2009	80,950	18,200	22.5	25	0.1	20	0.1
2010	83,089	20,961	25.2	30	0.1	26	0.1
2011	87,595	19,843	22.7	36	0.2	32	0.2

**Prince George's County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	73,365	14,930	20.4	98	0.7	10	0.1
2003	73,788	12,426	16.8	77	0.6	7	0.1
2004	73,498	19,785	26.9	87	0.4	16	0.1
				Prevalence Cases		Incidence Cases	
2005	74,714	17,906	24.0	68	0.4	61	0.3
2006	75,996	18,561	24.4	71	0.4	66	0.4
2007	76,826	18,071	23.5	38	0.2	35	0.2
2008	77,625	18,732	24.1	41	0.2	33	0.2
2990	78,279	19,594	25.0	50	0.3	45	0.2
2010	80,358	21,595	26.9	53	0.2	42	0.2
2011	79,810	19,672	24.6	39	0.2	37	0.2

**Queen Anne's County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	3,079	444	14.4	7	1.6	1	0.2
2003	3,123	495	15.8	5	1.0	2	0.4
2004	3,312	453	13.7	4	0.9	0	0.0
				Prevalence Cases		Incidence Cases	
2005	3,367	484	14.4	0	0.0	0	0.0
2006	3,425	659	19.2	4	0.6	4	0.6
2007	3,462	703	20.3	4	0.6	2	0.3
2008	3,583	594	16.6	1	0.2	1	0.2
2009	3,614	607	16.8	4	0.7	4	0.7
2010	3,709	573	15.4	4	0.7	2	0.3
2011	3,798	475	12.5	2	0.4	2	0.4

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**Saint Mary's County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	7,533	1,059	14.1	10	0.9	0	0.0
2003	7,827	903	11.5	9	1.0	0	0.0
2004	8,006	1,390	17.4	2	0.1	0	0.0
				Prevalence Cases		Incidence Cases	
2005	8,145	1,381	17.0	10	0.7	9	0.7
2006	8,285	1,517	18.3	11	0.7	11	0.7
2007	8,375	1,468	17.5	2	0.1	1	0.1
2008	8,548	1,517	17.7	4	0.3	3	0.2
2009	8,618	1,527	17.7	4	0.3	3	0.2
2010	8,847	1,659	18.8	0	0.0	0	0.0
2011	10,427	1,602	15.4	0	0.0	0	0.0

**Somerset County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	1,461	512	35.0	21	4.1	0	0.0
2003	1,457	544	37.3	18	3.3	5	0.9
2004	1,508	477	31.6	10	2.1	3	0.6
				Prevalence Cases		Incidence Cases	
2005	1,534	488	31.8	8	1.6	3	0.6
2006	1,560	506	32.4	9	1.8	5	1.0
2007	1,577	529	33.5	2	0.4	2	0.4
2008	1,521	522	34.3	2	0.4	2	0.4
2009	1,533	497	32.4	4	0.8	3	0.6
2010	1,575	517	32.8	1	0.2	1	0.2
2011	1,742	549	31.5	2	0.4	1	0.2

**Talbot County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	2,173	441	20.3	19	4.3	4	0.9
2003	2,111	449	21.3	15	3.3	1	0.2
2004	2,244	488	21.7	6	1.2	0	0.0
				Prevalence Cases		Incidence Cases	
2005	2,286	573	25.1	2	0.3	2	0.3
2007	2,326	636	27.3	5	0.8	5	0.8
2007	2,351	702	29.9	4	0.6	3	0.4
2008	2,399	612	25.5	5	0.8	5	0.8
2009	2,417	675	27.9	4	0.6	3	0.4
2010	2,482	692	27.9	3	0.4	2	0.3
2011	2,600	655	25.2	4	0.6	3	0.5



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**Washington County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	9,552	1,500	15.7	19	1.3	4	0.3
2003	9,737	1,971	20.2	15	0.8	3	0.2
2004	10,252	3,029	29.5	39	1.3	10	0.3
				Prevalence Cases		Incidence Cases	
2005	10,414	3,235	31.1	21	0.6	18	0.6
2006	10,593	3,012	28.4	18	0.6	15	0.5
2007	10,709	3,064	28.6	8	0.3	6	0.2
2008	11,113	3,041	27.4	13	0.4	11	0.4
2009	11,207	3,006	26.8	9	0.3	9	0.3
2010	11,503	2,544	22.1	9	0.4	6	0.2
2011	12,462	2,691	21.6	12	0.4	10	0.4

**Wicomico County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	6,714	1,747	26.0	74	4.2	9	0.5
2003	6,594	2,031	30.8	50	2.5	7	0.3
2004	6,736	1,917	28.5	40	2.1	4	0.2
				Prevalence Cases		Incidence Cases	
2005	6,838	2,096	30.7	29	1.4	18	0.9
2006	6,955	2,440	35.1	22	0.9	16	0.7
2007	7,031	2,975	42.3	23	0.8	14	0.5
2008	6,998	2,420	34.6	20	0.8	13	0.5
2009	7,058	2,248	31.9	10	0.4	6	0.3
2010	7,246	2,342	32.3	9	0.4	5	0.2
2011	8,427	2,215	26.3	5	0.2	4	0.2

**Worcester County**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	2,968	542	18.3	34	6.3	4	0.7
2003	3,022	731	24.2	24	3.3	1	0.1
2004	2,904	675	23.2	11	1.6	2	0.3
				Prevalence Cases		Incidence Cases	
2005	2,952	696	23.6	6	0.9	3	0.4
2006	3,002	962	32.0	7	0.7	5	0.5
2007	3,035	947	31.2	7	0.7	5	0.5
2008	3,148	910	28.9	5	0.5	3	0.3
2009	3,177	850	26.8	2	0.2	1	0.1
2010	3,259	900	27.6	2	0.2	2	0.2
2011	3,182	877	27.6	2	0.2	2	0.2

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

Lead Poisoning Prevention Program: Childhood Lead Registry

Number and percentage of children 0-72 months tested for lead with the status of those with blood lead level  $\geq 10$   $\mu\text{g/dL}$  by jurisdiction: 2001-2010

**County Unknown**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002		90		2		0	
2003		9		1		0	
2004		3,577		55		0	
				Prevalence Cases		Incidence Cases	
2005		357		14		13	
2006		199		21		20	
2007		278		1		1	
2008		69		0		0	
2009		5		0		0	
2010		477		0		0	
2011		4		0		0	

**Statewide**

Calendar Year	Population	Blood Lead Tests		Elevated Blood Lead		Lead Poisoning	
		Number	Percent	Number	Percent	Number	Percent
2002	436,817	79,507	18.2	2,297	2.9	260	0.3
2003	437,968	76,721	17.5	1,719	2.2	237	0.3
2004	448,106	105,549	23.6	1,811	1.7	230	0.2
				Prevalence Cases		Incidence Cases	
2005	455,514	99,148	21.8	1,331	1.3	916	0.9
2006	463,331	102,974	22.2	1,274	1.2	936	0.9
2007	468,390	105,708	22.6	892	0.8	654	0.6
2008	474,900	106,453	22.4	713	0.7	489	0.5
2009	478,919	107,416	22.4	553	0.5	379	0.4
2010	491,598	114,829	23.4	531	0.5	399	0.3
2011	500,702	109,534	21.9	452	0.4	342	0.3

Terms and definitions

1. Population of children for 2002 and 2003 are adapted from the US Census Bureau five-year age-sex-county specific population estimate for 2002 and 2003. The 2004-2010 populations are adapted from US Census Bureau: "State Interim Population Projection by Age and Sex: 2000-2030". Population for 2011 was adapted from Maryland census population 2010, provided by the Maryland Data Center, Maryland Department of Planning, [www.planning.maryland.gov/msdc](http://www.planning.maryland.gov/msdc).
2. Elevated Blood Lead level (EBL) is defined as a venous or a capillary blood lead level  $\geq 10$   $\mu\text{g/dL}$
3. Lead Poisoning is defined as a venous blood lead level  $\geq 20$   $\mu\text{g/dL}$ .
4. From 2005 forward the term "Prevalence" is introduced based on number of children with blood lead level  $\geq 10$   $\mu\text{g/dL}$  who may have one or more EBL in the past, and term "Incidence" is introduced based on number of children with the very first EBL in that calendar year.
5. County assignment for 2002 and 2003, the child's census tract was the first order of priority followed by child's zip code address, and the provider's zip code address as the last. From 2004 forward county assignment is based on child's address census tract or the zip code. Reports with no or incomplete address were assumed to be from Maryland children with county unknown.