Department of Public Health Damon T. Arnold, M.D., M.P.H., Director



# Illinois Lead Program Surveillance Report - 2007

September 2008



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#### Getting the Word Out on Lead September 2008

The Illinois Lead Program is pleased to present the 2007 annual surveillance report. The report provides information on the number of children screened and identified with lead poisoning by county, age, race and blood lead levels. The program is committed to the Healthy People 2010 goal of eliminating elevated blood lead levels in children.

The significant decline in the number of known lead poisoned children in Illinois from 45,809 (18.7 percent) in 1997 to 5,270 (1.8 percent) in 2007 is a public health success story. However, Illinois still ranks at the top nationally in the number of lead poisoned children. Standard indicators that put children at highest risk for lead poisoning include age of child, age of housing, socioeconomic status, and racial and ethnic disparities where use of certain products predisposes them to lead. Children younger than 3 years of age are at highest risk for blood lead poisoning due to their hand-to-mouth activities. The Illinois Lead Poisoning Prevention Act has been amended to initiate inspection of dwelling and common place areas of children younger than 3 years of age with lead levels of 10 microgram per deciliter or higher.

The primary source of lead poisoning in children is lead-based paint most abundantly found in pre-1978 housing units. In accordance with the Lead Disclosure Rule, landlords and realtors are required to notify tenants and potential home owners of any known lead-based paint hazards before the lease or sale of their housing units built before 1978. In 2008, the United States Environmental Protection Agency published the pamphlet "Lead Safety During Renovation" as part of the Renovation, Remodeling and Painting Rule (RRP Rule). The RRP rule becomes fully effective in 2010. Federal regulations require contractors to provide the "Renovate Right" pamphlet to owners and occupants prior to starting work in pre-1978 housing. Contractors also are required to provide the pamphlet to owners and operators of child-care facilities and schools built before 1978 and also to parents and guardians of children attending such schools.

The U.S. Centers for Disease Control and Prevention (CDC) has set an ambitious goal for its partners to screen 85 percent of high risk children by 2010. To accomplish this goal, the Illinois Department of Public Health is in the process of establishing a Memorandum of Understanding with the departments of Healthcare and Family Services and Human Services to share lead screening related data. The CDC recommends that children with blood lead levels of 15 micrograms per deciliter and higher be provided follow-up services. The follow-up services include medical and case management. The Illinois Lead Program, its delegate agencies and local health departments provide these services to children younger than 3 years of age residing in Illinois with blood lead levels of 10 micrograms per deciliter and above.

For more information on the elimination of childhood lead poisoning, call the Illinois Lead Program at 866-909-3572 or 217-782-3517 or visit <u>http://www.idph.state.il.us/envhealth/ehpublications.htm#lead</u>. The hearing impaired may dial 800-547-0466. We look forward to a new and continued collaboration as the Illinois Lead Program transitions into the federally directed "Healthy Home Initiative" that addresses other hazards in the home that may affect the health of a child.

Sincerely,

Damon T. Arnold, M.D., M.P.H. Director, Illinois Department of Public Health

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Illinois Lead Program Annual Surveillance Report 2007

### **Summary Statistics**

Here are some highlights of blood lead testing performed in 2007:

- 340,985 blood lead tests were reported on 296,998 Illinois children. Some children were tested for lead poisoning multiple times.
- 5,270 children (1.8 percent) had at least one blood lead test result  $\geq 10 \text{ mcg/dL}$
- 1,990 children (0.7 percent) had at least one blood lead test  $\geq$  15 mcg/dL
- 79 children were identified with severe lead poisoning ( $\geq 45 \text{ mcg/dL}$ )
- 97 laboratories in Illinois and other states reported lead results to the Illinois Department of Public Health

Figure 1 indicates that children between the ages of 1 and 3 are at highest risk for lead poisoning. Figure 2 shows that 66 percent of known lead poisoned children have lead levels below 15 micrograms per deciliter. In 2006, Illinois amended the Lead Poisoning Prevention Act to initiate home inspections for children 3 years of age and younger with lead levels of 10 micrograms per deciliter and above.





Source: Illinois Lead Program Annual Surveillance Report Figure 2

# At What Age Should Children be Tested?

Illinois law requires that children between 6 months and 7 years of age who live in high risk areas be tested before attending a licensed day care, school or kindergarten. Early detection is important since damage from lead poisoning can be minimized or prevented when it is discovered early in an affected child's development.

As Figure 1 suggests, children are most likely to become lead poisoned once they are able to crawl and walk. Therefore, the Illinois Department of Public Health recommends that children be tested at 1 and 2 years of age. This is consistent with federal policies that require Medicaid-enrolled children to be tested at 1 and 2 years of age.

The American Academy of Pediatrics and the U.S. Centers for Disease Control and Prevention also highly recommend that 1-and 2-year-olds be routinely tested for lead poisoning.

Source: Illinois Lead Program Annual Surveillance Report Figure 1

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Illinois Lead Program Annual Surveillance Report 2007

# Lead Poisoning and Race

Collection of race and ethnicity data is a challenge. Figure 3 demonstrates the difference in lead poisoning by race. The chart reflects the elevated blood lead levels of children whose racial status were revealed.

African-American children are twice as likely to be affected by lead poisoning compared to Caucasian or Hispanic children. Lead poisoning in Asian children is on the rise. Most of the racial difference is attributed to the fact that minorities are more likely to live in older housing, common to high-risk ZIP codes. While lead paint is the source of most lead-poisoning cases, folk remedies and products containing lead and made outside the United States may also contribute to the higher lead poisoning rates of minority children.

Efforts to continue the elimination of the preventable causes of lead poisoning among children of all races is highly recommended.



Source: Illinois Lead Program Annual Surveillance Report Figure 3

Detailed breakdowns of the numbers of children screened and those with elevated results are provided in Tables 1 and 2 in the following pages.

	ILLINOIS DEPARTMENT OF PUBLIC HEALTH Illinois Lead Program Annual Surveillance Report 2007										
Table 1	. Lead Scree	ning Activities: 2006 - 2007									
2006 2007											
Total children tested	278,078	Total children tested	296,998								
Number with results $\geq 10 \text{ mcg/dL}$	6,460	Number with results $\geq 10 \text{ mcg/dL}$	5,270								
Number with results $\geq 15 \text{ mcg/dL}$	2,154	Number with results $\geq 15 \text{ mcg/dL}$	1,990								

Children	Children Screened With Elevated Blood Lead Levels By Geographic Region										
Lead Levels $\geq 10$	Lead Levels $\geq 15$	Lead Levels $\geq 10$	Lead Levels $\geq 15$								
mcg/dL mcg/dL mcg/dL mcg/dL											
Chicago 3,371 (52%)	Chicago 1,110 (51%)	Chicago 2,627 (49.8%)	Chicago 957 (48%)								
Downstate 3,109 (48%)	Downstate 1,064 (49%)	Downstate 2,643 (50.2%)	Downstate 1,033 (52%)								

	2000			200	6					20	07		
County	CENSUS Population of Children	Total	10-14	15-19	20-24	25-44	45 +	Total	10-14	15-19	20-24	25-44	45 +
	6 Years and Younger	Tested			mcg/dL			Tested			mcg/dL	-	
Adams	5,652	959	22	9	2	1	0	890	24	10	2	6	1
Alexander	889	190	4	0	0	1	0	131	6	0	0	0	0
Bond	1,425	292	4	0	1	1	0	267	4	3	0	0	0
Boone	4,735	735	17	3	0	4	0	882	7	2	1	3	0
Brown	410	75	1	0	0	0	0	98	3	0	0	0	0
Bureau	3,015	352	8	1	0	1	0	399	3	2	2	0	1
Calhoun	373	80	0	0	0	0	0	66	2	0	0	0	0
Carroll	1,159	306	6	5	1	0	0	265	6	3	0	0	0
Cass	1,376	346	10	7	2	1	0	322	6	3	0	0	0
Champaign	15,229	1,880	35	4	0	2	1	1997	12	2	3	0	0
Christian	2,763	545	6	2	2	1	0	534	1	0	0	1	0
Clark	1,308	306	5	0	0	0	0	301	5	1	0	1	0
Clay	1,231	295	10	5	0	1	0	282	5	0	0	0	0
Clinton	2,765	289	2	1	0	0	0	331	4	0	1	0	0
Coles	3,762	598	9	3	4	1	1	750	7	2	1	1	1
Cook w/o Chicago	241,425	34,358	275	96	42	33	7	39,332	267	74	54	40	11
Chicago	308,416	102,847	2,234	620	234	214	42	105,788	1,670	470	214	227	46

County	2000 CENSUS Population of			200	6					2007	,		
	Children 6 Years and Younger	Total Tested	10-14	15-19	20-24	25-44	45+	Total Tested	10-14	15-19	20-24	25-44	45+
Crawford	1,408	263	3	0	1	0	0	269	2	0	1	0	0
Cumberland	871	160	1	0	0	0	0	159	0	0	0	0	0
DeKalb	7,983	693	13	2	0	0	0	647	5	1	0	0	0
DeWitt	1,430	298	5	0	0	0	0	290	5	1	2	2	0
Douglas	2,055	274	3	2	1	1	0	324	1	1	1	1	0
DuPage	89,349	5,096	30	4	2	1	0	5,971	17	7	2	2	0
Edgar	1,395	247	4	4	0	1	0	285	6	1	1	0	0
Edwards	552	134	1	0	0	0	0	158	1	0	0	0	0
Effingham	3,210	688	12	1	3	1	0	673	10	0	0	1	0
Fayette	1,711	391	8	0	0	1	0	413	4	0	0	1	0
Ford	1,228	71	3	1	0	0	0	68	0	1	0	0	0
Franklin	3,235	401	4	2	1	1	0	532	6	3	1	0	0
Fulton	2,836	439	9	3	0	0	2	431	12	5	4	2	0
Gallatin	472	134	3	0	0	0	0	155	0	0	0	0	0
Greene	1,224	305	3	0	0	0	0	311	1	1	1	0	0
Grundy	3,928	353	1	1	0	1	0	378	1	1	1	1	0
Hamilton	627	110	4	0	0	0	0	165	1	0	0	0	0
Hancock	1,380	432	11	4	1	1	1	401	3	1	0	2	0
Hardin	348	51	2	2	0	0	1	57	0	1	0	0	0
Henderson	498	125	2	0	0	0	0	112	1	1	0	0	0
Henry	3,959	890	7	4	4	3	1	925	16	8	0	1	0
Iroquois	2,432	329	16	1	0	1	1	297	5	2	1	0	0
Jackson	4,238	955	8	2	1	0	0	1,000	9	3	1	1	0
Jasper	823	125	0	1	1	0	0	150	1	0	0	0	0
Jefferson	3,236	557	1	1	0	1	0	574	1	2	0	1	0
Jersey	1,670	354	4	0	0	0	0	327	2	0	0	0	1
JoDaviess	1,643	146	2	0	0	0	0	161	2	0	0	0	0
Johnson	918	87	0	0	0	0	0	84	0	0	0	0	0
Kane	56,926	10,211	213	56	30	30	1	11,278	167	49	20	22	6
Kankakee	10,534	2,574	38	7	0	2	1	2,521	28	10	6	2	0
Kendall	8,217	411	1	2	0	0	0	590	4	1	0	2	0
Knox	4,157	899	36	13	5	6	0	1,265	30	12	4	5	0
Lake	73,888	8,669	46	16	5	5	1	10,815	41	12	4	5	0
LaSalle	9,755	1,177	16	3	3	0	0	1,321	13	6	2	2	0

Guarda	2000 CENSUS Population of		_	2006						2007	2007				
County	Children 6 and Younger	Total Tested	10-14	15-19	20-24	25-44	45 +	Total Tested	10-14	15-19	20-24	25- 44	45 +		
Lawrence	1,134	415	9	2	2	1	0	384	2	3	0	0	0		
Lee	2,546	269	8	2	3	1	1	184	6	0	2	1	0		
Livingston	3,500	832	29	4	0	2	1	765	24	1	0	2	0		
Logan	2,246	339	8	4	0	1	0	352	3	1	1	0	0		
McDonough	1,848	340	4	4	0	1	1	321	7	0	1	0	0		
McHenry	29,768	2,294	16	5	0	1	1	2,709	11	5	2	5	0		
McLean	13,918	2,014	18	4	3	1	0	2,060	13	5	2	0	1		
Macon	9,868	2,982	126	25	7	7	1	3,193	104	27	7	8	0		
Macoupin	3,897	548	12	1	0	1	1	599	5	0	1	1	0		
Madison	22,293	2,665	39	18	4	1	2	2,836	19	8	2	3	0		
Marion	3,439	700	9	1	0	0	0	707	5	1	1	1	0		
Marshall	981	114	1	1	1	1	1	158	4	3	1	3	0		
Mason	1,314	274	7	3	1	0	0	291	8	2	0	2	0		
Massac	1,349	155	0	0	0	0	0	201	1	0	0	0	0		
Menard	951	97	0	0	0	0	0	132	1	0	0	0	0		
Mercer	1,323	333	14	1	2	0	0	331	8	2	0	2	0		
Monroe	2,525	198	1	0	0	0	0	239	1	0	0	0	0		
Montgomery	2,298	515	6	0	0	0	0	581	6	7	0	3	0		
Morgan	2,769	601	18	9	4	1	0	596	10	5	0	2	0		
Moultrie	1,261	130	2	0	0	0	0	123	1	0	0	0	0		
Ogle	4,309	309	6	2	1	0	0	369	5	2	1	2	0		
Peoria	18,178	2,856	142	52	21	16	0	3,382	100	53	15	7	0		
Perry	1,721	316	5	1	1	0	0	367	2	1	0	0	0		
Piatt	1,291	188	4	1	0	1	0	237	2	1	0	0	0		
Pike	1,315	325	9	2	2	0	0	330	4	3	0	0	0		
Pope	234	22	0	0	0	0	0	37	0	0	0	0	0		
Pulaski	644	91	0	2	0	1	0	108	0	0	0	1	0		
Putnam	433	45	0	1	0	0	0	64	1	0	0	0	0		
Randolph	2,559	378	11	0	0	0	0	390	2	1	1	0	0		
Richland	1,290	289	2	1	0	0	0	216	0	0	0	0	0		
Rock Island	13,472	4,061	115	34	6	12	3	4,589	81	28	13	14	4		
St. Clair	25,318	5,543	139	35	8	7	0	6,849	87	25	7	10	1		
Saline	2,163	539	9	3	1	0	0	746	3	2	3	4	0		

County	2000 CENSUS Population of			2006	5					200	)7		
	Children 6 Years and Younger	Total Tested	10-14	15-19	20-24	25-44	45 +	Total Tested	10-14	15-19	20-24	25-44	45+
Sangamon	17,656	3,093	61	17	12	13	1	2,918	39	15	5	4	2
Schuyler	543	87	0	0	0	0	0	51	3	0	0	0	1
Scott	397	102	6	1	0	0	0	96	1	0	1	0	0
Shelby	1,695	308	5	2	0	0	0	312	6	0	0	0	0
Stark	499	132	3	1	1	1	0	110	3	0	0	0	0
Stephenson	4,079	1,116	36	17	8	4	0	1,238	39	7	6	7	0
Tazewell	10,969	1,885	13	3	0	0	0	1,734	14	1	2	1	0
Union	1,459	382	2	3	2	3	0	328	1	1	1	0	0
Vermilion	7,650	1,145	37	11	1	3	1	1,677	41	16	6	4	0
Wabash	988	280	7	3	0	0	0	336	9	1	1	0	0
Warren	1,380	236	6	0	0	1	0	252	7	3	2	1	0
Washington	1,165	101	2	0	1	0	0	149	1	0	0	2	0
Wayne	1,352	416	12	3	0	0	0	428	2	0	0	0	0
White	1,102	246	8	1	1	0	0	342	4	1	1	1	0
Whiteside	5,166	1,289	16	1	2	2	0	1,300	9	2	2	2	2
Will	67,427	5,186	44	9	0	6	1	6,465	27	7	8	9	1
Williamson	5,205	438	0	0	0	0	0	642	5	4	0	0	0
Winnebago	27,879	4,279	75	32	12	9	1	5,124	79	20	18	16	2
Woodford	3,036	244	6	0	0	0	0	274	4	1	0	0	0
Unidentified		43,834	40	14	3	3	0	43,033	33	24	18	9	0
Illinois Total	1,243,832	278,078	4,306	1,210	453	415	76	296,997	3,280	991	461	459	79

The information contained in this report is compiled by the Illinois Department of Public Health's Illinois Lead Program. Elevated blood lead levels ( $\geq 10 \text{ mcg/dL}$ ) are reported by laboratories, physicians, hospitals and other health care providers. Non-elevated results (< 10 mcg/dL) are reported by laboratories. Results on all children 15 years of age or younger are included in this report. The vast majority of tests (95 percent) are performed on children 6 years of age or younger. The total number of children screened in the activity summary boxes and total tested column for 2006 and 2007 are the actual numbers reported to the Department. These numbers include children tested for the first time, as well as those being retested. Where a child has multiple tests, the highest venous result is selected. If there is no venous test, the highest capillary result is selected.

Illinois law requires that results of all blood lead tests be reported to the Illinois Department of Public Health's Illinois Lead Program by the directors of laboratories performing the analyses. Physicians, hospital administrators, local health department administrators and directors of laboratories are also required to report blood lead results to the Department's Childhood Lead Poisoning Reporting System at 217-782-3517 or 866-909-3572. Reporting forms are available at the Department's Web site

<u>http://www.idph.state.il.us/envhealth/ehpublications.htm#lead</u>. Environmental investigations are initiated at blood lead levels greater than or equal to 10 mcg/dL.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Table 2. Number of Children Screened With Elevated Blood Lead Levels: 2000 - 2007

	2000 Population of Children 6 Years and	The top r The bott	Number of Illinois Children Screened With Elevated Blood Lead Levels: 2000-2007* The top row of each county represents the total number of children tested for lead poisoning. The bottom row of each county represents the number of children tested for lead poisoning having an elevated blood lead level of 10 microgram per deciliter and higher.									
County	Younger	2000	2001	2002	2003	2004	2005	2006	2007			
		566	611	502	545	534	985	959	890			
Adams	5,652	72	85	49	55	42	46	34	43			
		130	161	141	110	166	190	190	131			
Alexander	889	20	18	21	14	11	9	5	6			
		307	286	267	262	256	319	292	267			
Bond	1,425	27	7	7	7	4	9	6	7			
		286	330	411	497	452	638	735	882			
Boone	4,735	17	20	20	17	8	15	24	13			
		22	38	18	40	64	71	75	98			
Brown	410	4	4	0	2	3	1	1	3			
		359	345	419	412	377	469	352	399			
Bureau	3,015	15	4	18	13	3	9	10	8			
		34	59	64	87	64	56	80	66			
Calhoun	373	6	2	3	6	1	0	0	2			
		239	299	280	270	272	251	306	265			
Carroll	1,159	16	24	17	14	7	15	12	9			
		123	282	268	267	299	310	346	322			
Cass	1,376	10	22	25	19	13	16	20	9			
		1,567	1,646	1,631	1,626	1,748	1,754	1,880	1,997			
Champaign	15,229	56	50	51	56	32	47	42	17			
		427	313	287	356	498	365	545	534			
Christian	2,763	24	20	10	8	14	8	11	2			
		39	65	75	34	273	302	306	301			
Clark	1,308	0	3	2	0	10	6	5	7			
		195	213	360	313	313	289	295	282			
Clay	1,231	9	12	19	6	6	13	16	5			
		48	126	112	185	169	262	289	331			
Clinton	2,765	3	5	0	0	1	7	3	5			
		192	294	366	389	484	598	598	750			
Coles	3,762	16	10	13	3	11	20	18	12			
Cook w/o		21,416	27,850	29,713	32,837	31,189	32,770	34,358	39,332			
Chicago	241,425	1,139	1,109	956	843	629	593	453	446			

2000 of Children (County)         The both row of each county represents the toru number of children tested for lead poisoning having an elevated blood lead level of 10 microgram per deciliter and higher.           County         Younger         200         2001         2002         2003         2004         2005         2006         2007           Chicago         308,416         113,647         118,787         112,359         113,023         05,047         101,033         102,847         105,788           Chicago         308,416         17,003         13,803         113,023         61,06         4.466         3,344         2,267           Crawford         1.408         5         1         66         5         100         7         4         33           Cumberland         871         1         3         4         33         3         5         1         0           Dekalb         7,983         26         34         211         22         216         10         15         66           Douglas         2,055         6         13         5         7         8         7         4           Douglas         2,055         6         13         5         7         8         7			Number of Illinois Children Screened With Elevated Blood Lead Levels: 2000-2007*									
Baring an elevated biod licel level of 1 0 micromu el decilit and higher.           County         Younger         200         2001         2003         2004         2005         2005         2005           Chicago         308.416         113.547         118.787         112.359         113.033         105.047         101.033         02.647         10.538           Chicago         308.416         109         112.2         228         32.6         285         262         263         269           Crawford         1.408         5         1         6         5         10         7         4         33           Cumberland         871         1         3         4         3         3         5         10         7         4         65         10         7         4         65         10         7         4         65         10         7         66         13         3         3         3         3         5         10         7         40         25         10           Delkith         7.83         2.65         6.13         5         7         8         7         7         4           Douglas         2.055         6<		Population										
Chicago         308.416         113.547         118.787         112.359         113.023         105.047         101.033         102.847         105.786           Crawford         1.408         5         1         6         5         100         7         4         3.344         2,627           Crawford         1.408         5         1         6         5         100         7         4         3           Cumberland         871         1         3         4         3         3         5         1         00           DeKalb         7,983         26         344         267         774         662         683         647           DeWitt         1,430         40         26         18         12         10         4         5         10           Douglas         2,055         6         13         5         7         8         7         7         4           DuPage         89,349         152         106         93         79         99         46         37         28           13.09         9         192         179         344         247         285           Edgar												
Chicago         308,416         17,003         13,803         11,303         8,325         6,106         4,466         3,344         2,627           Crawford         1,408         55         1         6         5         10         7         4         3           Cumberland         871         1         3         4         3         3         5         1         0           Cumberland         871         1         3         4         3         3         5         1         0           DeKaib         7,983         26         34         21         22         16         10         15         6           DeWitt         1,303         40         269         292         343         204         203         292         203         30         298         201         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324         324	County	Younger	2000	2001	2002	2003	2004	2005	2006	2007		
Carawford         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903         1.903			113,547	118,787	112,359	113,023	105,047	101,033	102,847	105,788		
$\begin{array}{c crawford} 1,408 & 5 & 1 & 6 & 5 & 10 & 7 & 4 & 3 \\ \hline timestimate baseline baseli$	Chicago	308,416	17,003	13,803	11,303	8,325	6,106	4,466	3,344	2,627		
Cumberland         50         60         74         144         179         160         159           Cumberland         871         1         3         4         3         3         5         1         0           DeKalb         7,983         26         34         21         22         16         10         15         6           DeWitt         1,430         40         265         34         21         22         16         10         15         6           DeWitt         1,430         40         266         18         12         10         4         5         10           Douglas         2,055         6         13         5         7         8         7         7         4           DuPage         89,349         152         106         93         79         99         46         37         28           Edgar         1,395         22         25         13         19         9         9         9         8           Edgar         1,395         22         25         13         13         113         172         134         158           Edgar			109	122	228	326	285	262	263	269		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Crawford	1,408	5	1	6	5	10	7	4	3		
Image: book of the sector of the se			58	84	66	74	144	179	160	159		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Cumberland	871	1	3	4	3	3	5	1	0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			374	436	434	567	774	662	693	647		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	DeKalb	7,983	26	34	21	22	16	10	15	6		
No.         No. <td></td> <td></td> <td>257</td> <td>259</td> <td>292</td> <td>343</td> <td>294</td> <td>303</td> <td>298</td> <td>290</td>			257	259	292	343	294	303	298	290		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	DeWitt	1,430	40	26	18	12	10	4	5	10		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			94	115	140	219	244	281	274	324		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Douglas	2,055	6	13	5	7	8	7	7	4		
Edgar         1.395         197         215         199         192         179         344         247         285           Edgar         1.395         22         25         13         19         9         9         9         8           Edwards         552         9         3         6         4         3         5         1         1           T         73         226         215         216         343         609         688         673           Effingham         3.210         2         7         6         5         11         9         17         11           326         359         346         378         387         401         391         413           Fayette         1.711         11         16         23         22         9         12         9         5           Ford         1.228         13         9         6         4         1         1         4         1           Franklin         3.235         15         17         8         14         12         1         8         10           Franklin         2.836         52         4			3,345	4,565	4,573	5,101	7,900	4,636	5,096	5,971		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DuPage	89,349	152	106	93	79	99	46	37	28		
Edwards         51         74         93         130         113         172         134         158           Edwards         552         9         3         6         4         3         5         1         1           Tring         73         226         215         216         343         609         688         673           Effingham         3,210         2         7         6         5         11         9         17         111           Bayes         326         359         346         378         387         401         391         413           Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         13         9         6         4         1         1         4         1           Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3							179	344	247	285		
Edwards         552         9         3         6         4         3         5         1         1           Effingham         3,210         2         7         6         5         11         9         17         11           3,210         2         7         6         5         11         9         17         11           Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         13         9         6         4         1         1         4         1           Franklin         3,235         15         137         143         134         106         62         71         68           Ford         1,228         13         9         6         4         1         1         4         1           Fanklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472 <t< td=""><td>Edgar</td><td>1,395</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<>	Edgar	1,395							-			
Effingham         3,210         73         226         215         216         343         609         688         673           Effingham         3,210         2         7         6         5         11         9         17         11           Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         137         143         134         106         62         71         68           Ford         1,228         13         9         6         4         1         1         4         1           Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         27         26         24         12         10         3         3         3         3         3         3 </td <td></td> <td></td> <td></td> <td>· ·</td> <td></td> <td>130</td> <td></td> <td></td> <td>134</td> <td></td>				· ·		130			134			
Effingham         3,210         2         7         6         5         11         9         17         11           Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224	Edwards	552							-	-		
Fayette         1,711         326         359         346         378         387         401         391         413           Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Branklin         3,235         15         17         8         14         12         1         8         10           Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0         3         3		0.040										
Fayette         1,711         11         16         23         22         9         12         9         5           Ford         1,228         137         143         134         106         62         71         68           Ford         1,228         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Jacobia         230         279         294         305         250         295         401         532           Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         27         26         24         12         10         3         3           Grundy         3,928         10         11 <td>Effingham</td> <td>3,210</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Effingham	3,210										
Ford         1.28         125         137         143         134         106         62         71         68           Ford         1,228         13         9         6         4         1         1         4         1           Analysis         13         9         6         4         1         1         4         1           Ford         1,228         13         9         6         4         1         1         4         1           Analysis         230         279         294         305         250         295         401         532           Franklin         3,235         15         17         8         14         12         1         8         10           Analysis         351         399         328         412         368         437         439         431           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         2	Fairetta	4 744										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Fayette	1,711										
Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         52         42         33         29         28         34         14         23           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         27         26         24         12         10         3         3         3         0         3         0           Greene         1,224         24         27         26         24         12         10         3         3         3         3         3         3         3         3         0         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3	Ford	1 220										
Franklin         3,235         15         17         8         14         12         1         8         10           Fulton         2,836         351         399         328         412         368         437         439         431           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         27         26         24         12         10         3         3           Greene         1,224         24         27         26         24         12         10         3         3           Grundy         3,928         10         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165	Fold	1,220										
Fulton         2,836         351         399         328         412         368         437         439         431           Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         232         287         286         303         305         311           Greene         1,224         24         27         26         24         12         10         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <	Franklin	3 235										
Fulton         2,836         52         42         33         29         28         34         14         23           Gallatin         472         3         119         153         100         98         130         134         155           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         27         26         247         12         10         3         3           Greene         1,224         24         27         26         24         12         10         3         3           Grundy         3,928         10         11         7         2         1         0         3         378           How         100         113         102         90         103         94         110         165		0,200										
Gallatin         472         87         119         153         100         98         130         134         155           Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         24         27         26         24         12         10         3         3         3           Grundy         3,928         10         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165	Fulton	2 836										
Gallatin         472         3         1         3         1         2         0         3         0           Greene         1,224         175         223         232         287         286         303         305         311           Greene         1,224         24         27         26         24         12         10         3         3           Grundy         3,928         10         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165	T ditori	2,000										
Greene         1,224         24         27         26         24         12         10         3         311           Grundy         3,928         10         11         7         26         24         12         10         3         3           Mark         100         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165	Gallatin	472										
Greene         1,224         24         27         26         24         12         10         3         3           Grundy         3,928         281         284         259         258         287         313         353         378           Grundy         3,928         10         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165												
Grundy         3,928         281         284         259         258         287         313         353         378           100         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165	Greene	1,224										
Grundy         3,928         10         11         7         2         1         0         3         4           100         113         102         90         103         94         110         165		,										
<u>100 113 102 90 103 94 110 165</u>	Grundy	3,928										
	Hamilton	627	13	14	5	3	5	7	4	105		

#### Number of Illinois Children Screened With Elevated Blood Lead Levels: 2000-2007\* The top row of each county represents the total number of children tested for lead poisonin

	2000	<b>2000-2007</b> * The top row of each county represents the total number of children tested for lead poisoning.								
	Population				sents the total represents the					
	of Children 6 Years and				lead level of 1					
County	Younger	2000	2001	2002	2003	2004	2005	2006	2007	
		344	425	359	342	363	366	432	401	
Hancock	1,380	47	45	28	23	20	18	18	6	
		31	43	36	55	81	57	51	57	
Hardin	348	7	7	6	4	2	1	5	1	
		130	104	81	111	123	177	125	112	
Henderson	498	14	7	4	1	2	3	2	2	
		178	280	254	303	729	1,002	890	925	
Henry	3,959	23	35	32	24	29	39	19	25	
		344	322	285	343	328	278	329	297	
Iroquois	2,432	13	16	10	11	13	7	19	8	
		709	775	705	820	814	823	955	1,000	
Jackson	4,238	29	19	31	26	19	11	11	14	
		55	78	51	72	121	154	125	150	
Jasper	823	5	0	1	1	3	6	2	1	
		398	404	310	233	542	675	557	574	
Jefferson	3,236	15	14	10	11	9	11	3	4	
		108	148	151	237	242	297	354	327	
Jersey	1,670	4	7	4	1	4	6	4	3	
		158	176	189	183	184	136	146	161	
JoDaviess	1,643	11	5	7	6	7	4	2	2	
		59	43	55	52	59	74	87	84	
Johnson	918	3	2	2	0	0	0	0	0	
		6,243	7,610	7,575	9,020	6,332	9,910	10,211	11,278	
Kane	56,926	583	493	439	504	229	380	330	264	
		1,947	2,441	2,721	2,774	2,451	2,435	2,574	2,521	
Kankakee	10,534	841	235	157	134	71	50	48	46	
		248	315	290	363	372	319	411	590	
Kendall	8,217	8	11	8	4	9	6	3	7	
		791	795	785	811	903	915	899	1,265	
Knox	4,157	63	71	73	68	63	67	60	51	
	70.000	6,219	7,131	7,697	7,790	8,026	8,542	8,669	10,815	
Lake	73,888	202	185	190	139	100	117	73	62	
	0.755	1,164	1,231	1,498	1,331	1,518	1,313	1,177	1,321	
LaSalle	9,755	60	50	65	54	44	38	22	23	
Lowronce	1 1 2 4	308	279	279	286	299	424	415	384	
Lawrence	1,134	17	15	5	7	7	8	14	5	

#### Number of Illinois Children Screened With Elevated Blood Lead Levels: 2000-2007\* The top row of each county represents the total number of children tested for lead poisoning. Population The bottom row of each county represents the number of children tested for lead poisoning of Children having an elevated blood lead level of 10 microgram per deciliter and higher. 6 Years and County Younger 2,546 Lee Livingston 3,500 Logan 2,246 McDonough 1,848 1.353 1,668 1,734 2,294 1,059 1,600 1,756 2,709 McHenry 29,768 2,014 2,060 1,893 1,929 1,726 1,758 1,714 1,863 13,918 McLean 2,556 2,855 2,765 2,906 2,982 3,193 3,001 3,008 Macon 9,868 Macoupin 3,897 1,319 1,808 2,065 2,205 2,386 2,389 2,665 2,836 Madison 22,293 Marion 3,439 Marshall 1,314 Mason Massac 1,349 Menard Mercer 1,323 2,525 Monroe Montgomery 2,298 Morgan 2,769

		Num	ber of Illin	ois Childro	en Screene 2000-2		ated Bloo	d Lead Lev	vels:
	2000 Population of Children				sents the total	number of o			
	6 Years and				lead level of				
County	Younger	2000	2001	2002	2003	2004	2005	2006	2007
		89	98	116	103	95	133	130	123
Moultrie	1,261	1	5	4	1	1	1	2	1
		398	405	411	440	384	347	309	369
Ogle	4,309	26	24	10	18	13	8	9	10
		1,770	2,254	2,062	2,041	2,080	2,668	2,856	3,382
Peoria	18,178	354	321	324	297	211	267	231	175
		81	151	200	211	197	247	316	367
Perry	1,721	10	23	19	17	12	4	7	3
		155	183	164	198	195	187	188	237
Piatt	1,291	10	22	8	13	8	7	6	3
		320	302	258	295	309	358	325	330
Pike	1,315	21	23	12	15	11	15	13	7
		20	11	19	24	27	23	22	37
Pope	234	2	1	1	0	0	0	0	0
		51	63	83	94	78	54	91	108
Pulaski	644	10	8	8	7	3	3	3	1
		49	40	49	71	45	53	45	64
Putnam	433	0	0	1	0	1	1	1	1
		331	410	376	412	370	361	378	390
Randolph	2,559	27	26	26	25	25	24	11	4
		114	99	88	177	213	251	289	216
Richland	1,290	13	5	2	6	6	9	3	0
		2,920	2,940	3,190	3,703	3,781	3,839	4,061	4,589
Rock Island	13,472	363	323	329	572	225	196	170	140
		3,926	4,149	4,020	4,080	5,000	5,274	5,543	6,849
St. Clair	25,318	481	425	305	259	216	226	189	130
		530	486	476	516	475	558	539	746
Saline	2,163	25	9	20	13	13	9	13	12
		2,216	2,805	2,821	2,904	2,408	3,022	3,093	2,918
Sangamon	17,656	225	179	140	118	84	116	104	65
		29	27	35	44	61	99	87	51
Schuyler	543	5	7	5	4	3	4	0	4
		33	63	68	85	81	134	102	96
Scott	397	2	5	3	3	0	6	7	2
		129	161	220	247	252	274	308	312
Shelby	1,695	7	5	12	9	6	8	7	6

# Number of Illinois Children Screened With Elevated Blood Lead Levels: 2000-2007\*

Orbitality of Children is bottom row of each county represents the number of children tested for lead poisoning having an elevated bool lead level of Dimicrograms prededitier and higher.           County         Younger         2000         2001         2002         2003         2004         2005         2007           Stark         499         4         3         3         200         108         113         111         111         111         111         111         112         110           Stark         499         1         188         31         400         1.48         80         1.33         1.132         1110           Stark         499         1         168         1.80         1.18         844         63         66         59           Tazewell         10,969         35         27         26         24         25         26         16         18           Union         1.459         17         16         11         12         8         6         10         32           Wermilon         7.650         84         83         86         67         441         67         53         67           Washington         1.453         177         221		2000-2007* The top row of each county represents the total number of children tested for lead poisoning.									
6 Years and County         200         200         2003         2004         2005         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2006         2007         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008         2008			The bot	tom row of e	ach county r	represents the	number of c	hildren teste	ed for lead po	oisoning	
Image: stark         Image: stark <tark< td="">         Image: stark</tark<>	_	6 Years and	h	aving an ele	vated blood	lead level of 1	0 microgram	n per decilit	er and higher		
Stark         499         4         3         3         2         6         4         6         3           Stephenson         4.079         168         10.60         1.166         1.060         1.131         1.116         1.238           Stephenson         4.079         16.08         10.051         10.050         999         1.058         1.734           Tazewell         10.969         35         27         26         24         25         26         16         18           Union         1.459         17         16         111         12         8         6         10         3         328           Vermilion         7.650         84         88         667         41         67         53         67           Vermilion         7.650         84         88         667         41         67         53         67           Vermilion         7.650         84         88         86         67         41         67         53         67           Vermilion         7.650         84         83         86         67         41         67         53         67         41         67 <td< th=""><th>County</th><th>Younger</th><th>2000</th><th>2001</th><th>2002</th><th>2003</th><th>2004</th><th>2005</th><th>2006</th><th>2007</th></td<>	County	Younger	2000	2001	2002	2003	2004	2005	2006	2007	
Stephenson         4.079         935         1.156         1.000         1.186         1.000         1.131         1.111         1.116         1.238           Stephenson         4.079         168         180         118         84         63         68         65         59           Tazewell         10.969         35         27         26         24         25         26         16         18           Union         1.459         151         155         153         182         160         186         382         382           Vermilion         7.650         84         83         86         67         41         67         53         67           Vermilion         7.650         84         83         86         67         41         67         53         67           Wabash         988         19         15         22         16         16         12         10         11           Mashington         1.165         2         2         3         3         2         2         3         3           Wayne         1.362         14         12         16         11         13         11<			18	31	40	34	80	139	132	110	
Stephenson         4,079         168         180         118         84         6.3         6.8         6.5         5.9           Tazewell         10,969         35         27         26         24         25         26         1.68         3.82         328           Union         1,459         151         156         153         162         160         186         3.82         328           Union         1,459         17         16         11         12         8         6         10         3           Vermilion         7,650         84         83         86         67         44         67         53         67           Wabash         988         19         15         22         16         16         12         10         11           Mass         29         214         191         304         271         290         236         252           Waren         1,365         2         2         3         3         2         2         3         3           Washington         1,165         2         2         3         3         2         2         3         3 <td>Stark</td> <td>499</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>6</td> <td>4</td> <td>6</td> <td>3</td>	Stark	499	4	3	3	2	6	4	6	3	
Index         Index <th< td=""><td></td><td></td><td>935</td><td>1,156</td><td>1,060</td><td>1,186</td><td>1,060</td><td>1,131</td><td>1,116</td><td>1,238</td></th<>			935	1,156	1,060	1,186	1,060	1,131	1,116	1,238	
Tazewell         10,969         35         27         26         24         25         26         16         18           Union         1,459         151         156         153         182         160         186         382         328           Union         1,459         17         16         11         12         8         6         10         3           Vermilion         7,650         84         83         86         67         41         67         53         677           Wermilion         7,650         84         83         86         67         41         67         53         677           Wash         988         19         15         22         16         16         12         10         11           Marcen         1,380         23         23         22         29         11         11         7         13           Mashington         1,165         2         2         3         3         2         2         3         3           Wayne         1,352         14         12         16         11         13         11         15         2 <tr< td=""><td>Stephenson</td><td>4,079</td><td>168</td><td>180</td><td>118</td><td>84</td><td>63</td><td>68</td><td>65</td><td>59</td></tr<>	Stephenson	4,079	168	180	118	84	63	68	65	59	
Initial         Initial <t< td=""><td></td><td></td><td>1,095</td><td>1,001</td><td>1,050</td><td>999</td><td>1,058</td><td>1,103</td><td>1,885</td><td>1,734</td></t<>			1,095	1,001	1,050	999	1,058	1,103	1,885	1,734	
Union         1,459         17         16         11         12         8         6         10         3           Vermilion         7,650         84         900         882         950         696         825         1,145         1,677           Vermilion         7,650         84         83         86         67         411         67         53         67           Wabash         988         19         153         177         221         236         228         295         280         336           Wabash         988         19         15         22         16         16         12         10         111           229         214         191         304         271         290         236         2252           Warren         1,380         23         323         22         29         11         11         7         13           Warren         1,165         2         2         3         32         2         2         3         33           Washington         1,165         2         2         3         336         407         389         425         416         428 <td>Tazewell</td> <td>10,969</td> <td>35</td> <td>27</td> <td>26</td> <td>24</td> <td>25</td> <td>26</td> <td>16</td> <td>18</td>	Tazewell	10,969	35	27	26	24	25	26	16	18	
Vermilion         7.6         10         17         17         12         0         60         825         1,145         1,677           Vermilion         7,650         84         83         86         67         41         67         53         677           Wabash         988         19         15         221         236         228         295         280         336           Wabash         988         19         15         22         16         16         12         10         11           Warren         1,380         23         23         22         29         11         11         7         13           Washington         1,165         2         2         3         3         2         2         3         3           4115         353         356         407         389         425         416         428           Wayne         1,352         14         12         16         11         13         11         15         2           White         1,102         17         13         14         12         8         14         10         7           10 </td <td></td> <td></td> <td>151</td> <td>156</td> <td>153</td> <td>182</td> <td>160</td> <td>186</td> <td>382</td> <td>328</td>			151	156	153	182	160	186	382	328	
Vermilion         7,650         84         88         86         67         41         67         53         677           Wabash         988         19         153         177         221         236         228         295         280         336           Wabash         988         19         15         22         16         16         12         10         11           Waren         1,380         23         23         22         29         11         11         17         13           Waren         1,165         2         2         3         33         662         60         100         101         149           Washington         1,165         2         2         3         356         407         389         425         416         428           Wayne         1,352         14         12         16         11         13         11         15         2           White         1,102         17         13         14         12         8         14         10         7           Mineside         5,166         71         76         55         30         21	Union	1,459	17	16	11	12	8	6	10	3	
Math         Math <th< td=""><td></td><td></td><td>814</td><td>900</td><td>882</td><td>950</td><td>696</td><td>825</td><td>1,145</td><td>1,677</td></th<>			814	900	882	950	696	825	1,145	1,677	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Vermilion	7,650	84	83	86	67	41	67	53	67	
Warren         1,380         229         214         191         304         271         290         236         252           Warren         1,380         23         23         22         29         111         111         7         133           Washington         1,165         2         2         3         3         2         2         3         3           Washington         1,165         2         2         3         3         2         2         3         3           Wayne         1,352         14         12         166         111         131         111         15         2           White         1,102         14         12         166         111         131         111         15         2           White         1,102         17         13         144         12         8         144         10         7           White         1,102         17         13         144         12         8         144         10         7           White         1,026         2,678         3,108         2,973         3,356         3,934         4,415         5,186         6,46			153	177	221	236	228	295	280	336	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Wabash	988	19	15	22	16	16	12	10	11	
20         20         20         20         20         20         20         20         20         20         20         20         10         10         11         149           Washington         1,165         2         2         3         3         2         2         3         3           Wayne         1,352         14         12         16         11         13         11         15         2           White         1,102         17         13         14         12         8         14         10         7           White         1,102         17         13         14         12         8         14         10         7           B667         1,006         942         1,280         1,229         1,377         1,289         1,300           Whiteside         5,166         71         76         55         30         21         32         21         17           Will         67,427         231         170         143         133         71         57         60         52           Williamson         5,205         6         10         4         3         9 <td></td> <td></td> <td>229</td> <td>214</td> <td>191</td> <td>304</td> <td>271</td> <td>290</td> <td>236</td> <td>252</td>			229	214	191	304	271	290	236	252	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Warren	1,380	23	23	22	29	11	11	7	13	
Mayne         1,352         14         12         16         11         13         11         15         2           White         1,352         14         12         16         11         13         11         15         2           White         1,102         17         13         14         12         8         14         10         7           White         1,102         17         13         14         12         8         14         10         7           White         1,102         17         13         14         12         8         14         10         7           Whiteside         5,166         71         76         55         30         21         32         21         17           2,678         3,108         2,973         3,356         3,934         4,415         5,186         6,465           Will         67,427         231         170         143         133         71         57         60         52           Williamson         5,205         6         10         4         3         9         3         0         9         3         0         3 </td <td></td> <td></td> <td>28</td> <td>38</td> <td>38</td> <td>62</td> <td>60</td> <td>100</td> <td>101</td> <td>149</td>			28	38	38	62	60	100	101	149	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Washington	1,165	2	2	3	3	2	2	3	3	
White         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,102         1,103         1,112         1,102         1,103         1,103         1,103         1,123         1,110         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100 <th< td=""><td></td><td></td><td>415</td><td>353</td><td>356</td><td>407</td><td>389</td><td>425</td><td>416</td><td>428</td></th<>			415	353	356	407	389	425	416	428	
White         1,102         17         13         14         12         8         14         10         7           Whiteside         5,166         71         76         55         30         21         322         21         17           Whiteside         5,166         71         76         55         30         21         322         21         17           Will         67,427         231         170         143         133         71         57         60         52           Will         67,427         231         170         143         133         71         57         60         52           Will         67,427         306         350         277         279         293         298         438         642           Williamson         5,205         6         10         4         3         9         3         0         9           Winnebago         27,879         239         252         218         207         209         160         129         135           Woodford         3,036         5         10         3         0         3         3         6         5 <td>Wayne</td> <td>1,352</td> <td>14</td> <td>12</td> <td>16</td> <td>11</td> <td>13</td> <td>11</td> <td>15</td> <td>2</td>	Wayne	1,352	14	12	16	11	13	11	15	2	
Whiteside         5,166         1,006         942         1,280         1,229         1,377         1,289         1,300           Whiteside         5,166         71         76         55         30         21         32         21         17           Will         67,427         231         170         143         133         71         57         60         52           Will         67,427         231         170         143         133         71         57         60         52           Williamson         5,205         6         10         4         3         9         3         0         9           Munebago         27,879         239         252         218         207         209         160         129         135           Moodford         3,036         5         10         3         0         3         3         6         5           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         60         84     <			208	240	244	259	296	310	246	342	
Whiteside         5,166         71         76         55         30         21         32         21         17           Will         67,427         231         3,108         2,973         3,356         3,934         4,415         5,186         6,465           Will         67,427         231         170         143         133         71         57         60         52           Willamson         5,205         6         10         4         3         9         3         0         9           Winnebago         27,879         239         252         218         207         209         160         129         135           Woodford         3,036         5         10         3         0         3         3         6         5           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         47,508         54,934         43,894         39,212         50,940         49,95	White	1,102	17	13	14	12	8	14	10	7	
Will         Arrow Control         Arrow Contro         Arrow Control <td></td> <td></td> <td>867</td> <td>1,006</td> <td>942</td> <td>1,280</td> <td>1,229</td> <td>1,377</td> <td>1,289</td> <td>1,300</td>			867	1,006	942	1,280	1,229	1,377	1,289	1,300	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Whiteside	5,166	71	76	55	30	21	32	21	17	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			2,678	3,108	2,973	3,356	3,934	4,415	5,186	6,465	
Williamson         5,205         6         10         4         3         9         3         0         9           Winnebago         27,879         4,162         4,361         4,191         4,450         4,267         4,086         4,279         5,124           Winnebago         27,879         239         252         218         207         209         160         129         135           Woodford         3,036         5         100         3         0         3         3         6         5           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         60         84           1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available	Will	67,427	231	170	143	133	71	57	60	52	
Winnebago         27,879         4,162         4,361         4,191         4,450         4,267         4,086         4,279         5,124           Winnebago         27,879         239         252         218         207         209         160         129         135           Woodford         3,036         5         102         33         102         81         123         244         274           Woodford         3,036         5         100         3         0         3         3         6         5           Unidentified         449         338         111         33         66         88         60         84           1100         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available			306	350	277	279	293	298	438	642	
Winnebago         27,879         239         252         218         207         209         160         129         135           Woodford         3,036         55         102         133         102         81         123         244         274           Woodford         3,036         55         100         3         00         3         3         66         55           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         600         84           Illinois         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,Í 38,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Not Available	Williamson	5,205	6	10	4	3	9	3	0	9	
Woodford         3,036         5         122         133         102         81         123         244         274           Woodford         3,036         5         10         3         0         3         3         6         5           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         60         84           1100         272,897         297,666         279,610         281,303         282,337         275,108         278,078         296,998           111001         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available			4,162	4,361	4,191	4,450	4,267	4,086	4,279	5,124	
Woodford         3,036         5         10         3         0         3         3         6         5           Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         60         84           1         1,243,832         272,897         297,666         279,610         281,303         282,337         275,108         278,078         296,998           1         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available	Winnebago	27,879	239	252	218	207	209	160	129	135	
Unidentified         47,508         54,934         43,894         39,212         50,940         49,956         43,834         47,097           Unidentified         449         338         111         33         66         88         60         84           Illinois         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Not Available			85	122	133	102	81	123	244	274	
Unidentified         449         338         111         33         66         88         60         84           Illinois         1,243,832         272,897         297,666         279,610         281,303         282,337         275,108         278,078         296,998           Illinois         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S. Totals         23,304,631         2,216,700         2,138,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available	Woodford	3,036	5	10	3	0	3	3	6	5	
U.S.Totals         23,304,631         2,216,700         2,1 38,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Not Available			47,508	54,934	43,894	39,212	50,940	49,956	43,834	47,097	
Illinois         1,243,832         23,063         20,251         16,653         13,182         9,843         8,123         6,460         5,270           U.S.Totals         23,304,631         2,216,700         2,1 38,008         2,652,964         2,989,517         2,994,677         2,975,794         3,262,866         Available	Unidentified		449	338	111	33	66	88	60	84	
U.S.Totals 23,304,631 2,216,700 2,1 38,008 2,652,964 2,989,517 2,994,677 2,975,794 3,262,866 Available			272,897	297,666	279,610	281,303	282,337	275,108	278,078	296,998	
U.S.Totals 23,304,631 2,216,700 2,Í 38,008 2,652,964 2,989,517 2,994,677 2,975,794 3,262,866 Available	Illinois	1,243,832	23,063	20,251	16,653	13,182	9,843	8,123	6,460		
U.S. 10lais 23,304,031	LIS Totolo	22 204 624	2,216,700	2,Í 38,008	2,652,964	2,989,517	2,994,677	2,975,794	3,262,866		
Bit Mark         Bit Mark         Not           87,782         76,992         67,914         59,759         52,682         47,147         39,526         Available	0.5.10tais	23,304,031	87,782			59,759	52,682	47,147	39,526	Not	

Source: Illinois Lead Program Annual Surveillance Report 2007, CENSUS 2000, U.S. Centers for Disease Control and Prevention.

#### ILLINOIS DEPARTMENT OF PUBLIC HEALTH Elevated Blood Lead Levels as Percentage of Illinois Children Tested: 2000-2007

Since 1997, Illinois has successfully addressed childhood lead poisoning, with rates of testing increasing and fewer children with elevated blood lead levels being found. Figure 4 illustrates the screening and lead poisoning rates in Illinois children 6 years of age and younger. The lead poisoning rate is based on the number of children tested. The number of children with elevated blood lead levels decreased from 18.7 percent in 1997 to 1.8 percent in 2007. Although the testing rate for lead poisoning has remained fairly constant, the overall testing rate increased from 19.7 percent in 2000 to 23.9 percent in 2007.



Source: Illinois Lead Program Annual Surveillance Report 2007 Figure 4



Source: Illinois Lead Program Annual Surveillance Report 2007. The United States average is based on the National Health and Nutritional Survey (NHANES). The NHANES 2002-2004 indicates 1.2 percent of children in the United States are lead poisoned. Figure 5

Despite the decline in lead poisoning rates, the percentage of children with elevated lead levels far exceeds the national estimate across the years (Figure 5). Illinois still leads the nation in the number of lead poisoned children. In 2007, approximately 5,270 children were identified in Illinois with elevated lead levels.

The distribution of lead poisoned children 6 years of age and younger is shown in Figure 6. In 2007, 1.8 percent of Illinois children had elevated blood lead levels compared to 1.2 percent nationally.

The number of children with severe levels of blood lead also has decreased through time. Table 3 shows the percentage of lead poisoned children by age and level of lead in the blood. In 2007, 77 children (0.03 percent) had lead levels of 45 micrograms per liter and higher compared to 207 children in 2000 (0.08 percent).

	Total Number of	Table 3. Elevated Blood Lead Levels as Percentage of Illinois Children Tested by Year           and Levels: 2000 – 2007							
Year	Children Tested	10-14 mcg/dL	15-19 mcg/dL	20-24 mcg/dL	25-44 mcg/dL	45+ mcg/dL			
2000	244,442	6.05	1.89	0.77	0.64	0.08			
2001	277,788	4.65	1.50	0.56	0.51	0.07			
2002	263,069	4.06	1.26	0.51	0.43	0.06			
2003	267,997	3.21	0.95	0.36	0.34	0.05			
2004	272,757	2.40	0.69	0.24	0.24	0.03			
2005	275,108	1.95	0.55	0.22	0.20	0.03			
2006	278,078	1.55	0.44	0.16	0.15	0.03			
2007	296,998	1.10	0.33	0.16	0.15	0.03			

# Illinois Department of Public Health

Percentage of Children 6 Years of Age and Younger With Elevated Blood Lead Levels in 2007 by County Based on Number of Children Tested



Source: Illinois Lead Program Annual Surveillance Report 2007 Note - The national average number of lead poisoned children

- is 1.2 percent.
- The Illinois average number of lead poisoned children was 1.8 percent in 2007.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Table 4. Screening Rates for Lead Poisoning in Illinois Children: 2000-2007

	2000 CENSUS Population of Children 6 Years	Screening Rates for Lead Poisoning in Illinois Children (%): 2000 - 2007						nois	
County	and Younger	2000	2001	2002	2003	2004	2005	2006	2007
Adams	5,652	10	11	9	10	9	17	17	16
Alexander	889	15	18	16	12	19	21	21	15
Bond	1,425	22	20	19	18	18	22	20	19
Boone	4,735	6	7	9	10	10	13	16	19
Brown	410	5	9	4	10	16	17	18	24
Bureau	3,015	12	11	14	14	13	16	12	13
Calhoun	373	9	16	17	23	17	15	21	18
Carroll	1,159	21	26	24	23	23	22	26	23
Cass	1,376	9	20	19	19	22	23	25	23
Champaign	15,229	10	11	11	11	11	12	12	13
Christian	2,763	15	11	10	13	18	13	20	19
Clark	1,308	3	5	6	3	21	23	23	23
Clay	1,231	16	17	29	25	25	23	24	23
Clinton	2,765	2	5	4	7	6	9	10	12
Coles	3,762	5	8	10	10	13	16	16	20
Cook w/o Chicago	241,425	9	12	12	14	13	14	14	16
Chicago	308,416	37	39	36	37	34	33	33	34
Crawford	1,408	8	9	16	23	20	19	19	19
Cumberland	871	7	10	8	8	17	21	18	18
DeKalb	7,983	5	5	5	7	10	8	9	8
DeWitt	1,430	18	18	20	24	21	21	21	20
Douglas	2,055	5	6	7	11	12	14	13	16
DuPage	89,349	4	5	5	6	9	5	6	7
Edgar	1,395	14	15	14	14	13	25	18	20
Edwards	552	9	13	17	24	20	31	24	29
Effingham	3,210	2	7	7	7	11	19	21	21
Fayette	1,711	19	21	20	22	23	23	23	24
Ford	1,228	10	11	12	11	9	5	6	6
Franklin	3,235	7	9	9	9	8	9	12	16
Fulton	2,836	12	14	12	15	13	15	15	15
Gallatin	472	18	25	32	21	21	28	28	33
Greene	1,224	14	18	19	23	23	25	25	25
Grundy	3,928	7	7	7	7	7	8	9	10
Hamilton	627	16	18	16	14	16	15	18	26
Hancock	1,380	25	31	26	25	26	27	31	29
Hardin	348	9	12	10	16	23	16	15	16
Henderson	498	26	21	16	22	25	36	25	22
Henry	3,959	4	7	6	8	18	25	22	23
Iroquois	2,432	14	13	12	14	13	11	14	12
Jackson	4,238	17	18	17	19	19	19	23	24

	2000 CENSUS Population of Children 6 Years	Screening Rates for Lead Poisoning in Illino Children (%): 2000 - 2007						nois	
County	and Younger	2000	2001	2002	2003	2004	2005	2006	2007
Jasper	823	7	9	6	9	15	19	15	18
Jefferson	3,236	12	12	10	7	17	21	17	18
Jersey	1,670	6	9	9	14	14	18	21	20
JoDaviess	1,643	10	11	12	11	11	8	9	10
Johnson	918	6	5	6	6	6	8	9	9
Kane	56,926	11	13	13	16	11	17	18	20
Kankakee	10,534	18	23	26	26	23	23	24	24
Kendall	8,217	3	4	4	4	5	4	5	7
Knox	4,157	19	19	19	20	22	22	22	30
Lake	73,888	8	10	10	11	11	12	12	15
LaSalle	9,755	12	13	15	14	16	13	12	14
Lawrence	1,134	27	25	25	25	26	37	37	34
Lee	2,546	8	7	6	7	11	13	11	7
Livingston	3,500	25	25	24	23	22	21	24	22
Logan	2,246	15	16	15	15	16	16	15	16
McDonough	1,848	11	17	14	14	16	19	18	17
McHenry	29,768	4	5	6	5	6	6	8	9
McLean	13,918	12	13	12	13	14	14	14	15
Macon	9,868	26	29	28	30	29	30	30	32
Macoupin	3,897	13	14	15	15	12	14	14	15
Madison	22,293	6	8	9	10	11	11	12	13
Marion	3,439	10	22	23	21	21	18	20	21
Marshall	981	9	10	10	10	11	11	12	16
Mason	1,314	14	16	18	14	14	12	21	22
Massac	1,349	4	6	5	6	9	11	11	15
Menard	951	7	7	12	15	11	7	10	14
Mercer	1,323	15	17	21	19	21	27	25	25
Monroe	2,525	3	4	5	7	6	7	8	9
Montgomery	2,298	20	19	19	18	19	21	22	25
Morgan	2,769	17	23	19	23	23	23	22	22
Moultrie	1,261	7	8	9	8	8	11	10	10
Ogle	4,309	9	9	10	10	9	8	7	9
Peoria	18,178	10	12	11	11	11	15	16	19
Perry	1,721	5	9	12	12	11	14	18	21
Piatt	1,291	12	14	13	15	15	14	15	18
Pike	1,315	24	23	20	22	23	27	25	25
Pope	234	9	5	8	10	12	10	9	16
Pulaski	644	8	10	13	15	12	8	14	17
Putnam	433	11	9	11	16	10	12	10	15
Randolph	2,559	13	16	15	16	14	14	15	15
Richland	1,290	9	8	7	14	17	19	22	17
Rock Island	13,472	22	22	24	27	28	28	30	34
St. Clair	25,318	16	16	16	16	20	21	22	27
Saline	2,163	25	22	22	24	22	26	25	34
Sangamon	17,656	13	16	16	16	14	17	18	17
Schuyler	543	5	5	6	8	11	18	16	9

	2000 CENSUS Population of Children 6 Years	Screening Rates for Lead Poisoning in Illinois Children (%): 2000 - 2007						nois	
County	and Younger	2000	2001	2002	2003	2004	2005	2006	2007
Scott	397	8	16	17	21	20	34	26	24
Shelby	1,695	8	9	13	15	15	16	18	18
Stark	499	4	6	8	7	16	28	26	22
Stephenson	4,079	23	28	26	29	26	28	27	30
Tazewell	10,969	10	9	10	9	10	10	17	16
Union	1,459	10	11	10	12	11	13	26	22
Vermilion	7,650	11	12	12	12	9	11	15	22
Wabash	988	15	18	22	24	23	30	28	34
Warren	1,380	17	16	14	22	20	21	17	18
Washington	1,165	2	3	3	5	5	9	9	13
Wayne	1,352	31	26	26	30	29	31	31	32
White	1,102	19	22	22	24	27	28	22	31
Whiteside	5,166	17	19	18	25	24	27	25	25
Will	67,427	4	5	4	5	6	7	8	10
Williamson	5,205	6	7	5	5	6	6	8	12
Winnebago	27,879	15	16	15	16	15	15	15	18
Woodford	3,036	3	4	4	3	3	4	8	9
United States		10	11	11	13	13	13	14	
Illinois	1,243,832	20	22	21	22	22	22	22	24
County Mean		12	14	14	15	16	17	18	19
Minimum		2	3	3	3	3	4	5	6
Maximum		37	39	36	37	34	37	37	34

Source: Illinois Department of Public Health, Illinois Lead Program Annual Surveillance Report 2007 Screening rate is the percentage of children tested for blood lead poisoning compared to the total population of each county.



Source: Illinois Lead Program Annual Surveillance Report 2007, U.S. Centers for Disease Control and Prevention, 2000 CENSUS Figure 7

Screening rate is the percentage of children tested for blood lead poisoning compared to the total population (Figure 8).

# Illinois Department of Public Health

Percentage of Children 6 Years of Age and Younger Tested by County in 2007



Surveillance Report 2007 2000 Census Population Data

# **ILLINOIS DEPARTMENT OF PUBLIC HEALTH** Table 5. Lead Poisoning Rate of Children Younger Than 3 Years of Age: 2007

	Lead Poisoning Rates for Children Younger Than 3 Years of Age								
County	2000 CENSUS Population of Children younger 3 Years of Age	Number of Children Tested (n)	Children with Elevated Lead Levels of 10 mcg/dL and over (n)	Lead Poisoning Rate Based on Number of Children Tested (%)	Population of Children Tested (%)				
Adams	2,527	568	29	5.1	22				
Alexander	373	46	0	0.0	12				
Bond	570	216	5	2.3	38				
Boone	1,858	550	7	1.3	30				
Brown	153	57	3	5.3	37				
Bureau	1,243	172	6	3.5	14				
Calhoun	150	51	2	3.9	34				
Carroll	548	122	4	3.3	22				
Cass	548	138	3	2.2	25				
Champaign	6,297	1,561	10	0.6	25				
Christian	1,254	368	0	0.0	29				
Clark	578	220	3	1.4	38				
Clay	525	203	4	2.0	39				
Clinton	1,274	267	5	1.9	21				
Coles	1,722	525	8	1.5	30				
Cook (w/o Chicago)	99,957	19,488	240	1.2	19				
Crawford	661	218	3	1.4	33				
Cumberland	418	122	0	0.0	29				
DeWitt	611	164	5	3.0	27				
DeKalb	3,348	282	3	1.1	8				
Douglas	819	220	2	0.9	27				
DuPage	38,787	3,057	12	0.4	8				
Edgar	683	162	5	3.1	24				
Edwards	248	86	1	1.2	35				
Effingham	1,462	312	7	2.2	21				
Fayette	802	343	5	1.5	43				
Ford	545	31	1	3.2	6				
Franklin	1,311	261	4	1.5	20				
Fulton	1,231	188	15	8.0	15				
Gallatin	198	104	0	0.0	53				
Greene	534	186	3	1.6	35				
Grundy	1,460	168	2	1.2	12				
Hamilton	288	105	0	0.0	36				
Hancock	664	272	4	1.5	41				
Hardin	166	25	0	0.0	15				
Henderson	269	64	2	3.1	24				
Henry	1,790	568	13	2.3	32				

	Lead Poisoning Rates for Children Younger Than 3 Years of Age								
County	2000 CENSUS Population of Children younger 3 Years of Age	Number of Children Tested (n)	Children with Elevated Lead Levels of 10 mcg/dL and over (n)	Lead Poisoning Rate Based on Number of Children Tested (%)	Population of Children Tested (%)				
Iroquois	1,120	117	3	2.6	10				
Jackson	1,802	743	12	1.6	41				
Jasper	322	122	1	0.8	38				
Jefferson	1,343	420	2	0.5	31				
Jersey	756	249	3	1.2	33				
JoDaviess	727	84	0	0.0	12				
Johnson	391	32	0	0.0	8				
Kane	20,958	6,125	147	2.4	29				
Kankakee	4,373	1,260	27	2.1	29				
Kendall	2,585	316	5	1.6	12				
Knox	1,919	771	32	4.2	40				
LaSalle	4,209	626	8	1.3	15				
Lake	31,118	5,069	27	0.5	16				
Lawrence	510	274	3	1.1	54				
Lee	1,149	117	3	2.6	10				
Livingston	1,423	504	18	3.6	35				
Logan	993	232	4	1.7	23				
Macon	4,355	1,926	79	4.1	44				
Macoupin	1,670	438	6	1.4	26				
Madison	960	1,623	16	1.0	169				
Marion Marshall	1,567 419	564 70	5	0.9	36 17				
Mason	555	167	7	4.2	30				
Massac	564	69	0	0.0	12				
McDonough	873	230	6	2.6	26				
McHenry	1,230	1417	10	0.7	115				
McLean	5,740	1,491	15	1.0	26				
Menard	396	105	0	0.0	27				
Mercer	593	201	8	4.0	34				
Monroe	1,065	161	1	0.6	15				
Montgomery	1,005	427	13	3.0	42				
Morgan	1,173	370	9	2.4	32				
Moultrie	545	66	1	1.5	12				
Ogle	1,883	187	7	3.7	10				
Peoria	7,528	2,194	101	4.6	29				
Perry	730	216	1	0.5	30				
Piatt	570	133	2	1.5	23				
Pike	609	242	5	2.1	40				
Pope	121	14	0	0.0	12				
Pulaski	269	44	0	0.0	16				
Putnam	202	25	1	4.0	12				
Randolph	1,100	278	3	1.1	25				

	Lead Poisoning Rates for Children Younger Than 3 Years of Age							
County	2000 CENSUS Population of Children younger 3 Years of Age	Number of Children Tested (n)	Children with Elevated Lead Levels of 10 mcg/dL and over (n)	Lead Poisoning Rate Based on Number of Children Tested (%)	Population of Children Tested (%)			
Richland	595	141	0	0.0	24			
Rock Island	5,750	2,428	90	3.7	42			
Saline	924	430	7	1.6	47			
Sangamon	7,299	1,796	40	2.2	25			
Schuyler	243	31	3	9.7	13			
Scott	202	61	1	1.6	30			
Shelby	786	238	4	1.7	30			
St. Clair	10,450	3,891	68	1.7	37			
Stark	245	59	2	3.4	24			
Stephenson	1,782	693	31	4.5	39			
Tazewell	4,698	1112	12	1.1	24			
Union	559	154	1	0.6	28			
Vermilion	3371	845	39	4.6	25			
Wabash	431	192	9	4.7	45			
Warren	623	153	7	4.6	25			
Washington	501	53	0	0.0	11			
Wayne	627	264	1	0.4	42			
White	446	209	5	2.4	47			
Whiteside	2,321	826	14	1.7	36			
Will	24,640	3,066	31	1.0	12			
Williamson	2,193	284	0	0.0	13			
Winnebago	11,728	3,114	86	2.8	27			
Woodford	1,366	185	4	2.2	14			
Unidentified		22,746	58	0.3				
Chicago*	131,760	54,430	1,431	2.6	41			
Illinois	500,832	158,610	2,956	1.9	32			

Source: Illinois Lead Program Annual Surveillance Report 2007 and U.S. Census Bureau: 2000 \*city of Chicago only

Thirty two percent of the population of Illinois children less than 3 years of age was tested for blood lead poisoning in 2007. Of the 158,610 children tested, 1.9 percent was lead poisoned. The median testing rate by county was 26 percent. The counties of Bond, Boone, Brown, Calhoun, Christian, Clark, Clay, Coles, Crawford, Cumberland, De Witt, Douglas, Edwards, Fayette, Gallatin, Greene, Hamilton, Hancock, Henry, Jackson, Jasper, Jefferson, Jersey, Kane, Kankakee, Knox, Lawrence, Livingston, Macon, Marion, Mason, Menard, Mercer, Montgomery, Morgan, Peoria, Perry, Pike, Rock Island, Saline, Scott, and the city of Chicago tested above the county median.

Figure 9 shows the percentage of Illinois children younger than 3 years of age with elevated blood lead levels by county based on number of children tested. The lead poisoning rate of Illinois children was 1.9 percent for 2007 with a range of 0 to 10. Fifty-four counties exhibited lead poisoning rates of 1.9 percent and above.

# Illinois Department of Public Health

Percentage of Children Younger Than 3 Years of Age With Elevated Blood Lead Levels in 2007 by County Based on Number of Children Tested



Note - The national average number of lead poisoned children is 1.2 percent.

 The Illinois average number of lead poisoned children was 1.8 percent in 2007.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Sources of Lead Poisoning

A child can be exposed to lead hazards through deteriorating lead-based paint, lead contaminated dust, soil, food and water. Before knowing its harmful effects, lead was used in paint, gasoline, water pipes, and many other products.

**Lead-based paint,** present on many surfaces in older or remodeled homes built before 1978, is the most significant source of lead poisoning cases in Illinois<sup>1</sup>. Harmful exposures to lead can be created when lead-based paint is deteriorated or improperly removed from surfaces by dry scraping, sanding, or open-flame burning. Figure 10 shows the percentage of Illinois children living in pre-1980 housing units. It is estimated that 2,211,499 housing units in Illinois contain lead. About 94 percent of the lead hazard units are occupied. Occupants of 20 percent of the lead hazard housing units in Illinois contributes significantly to childhood lead poisoning. Figure 11 shows the percentage of Illinois children living below poverty and high-risk ZIP codes for lead poisoning. More than 66 percent of children enrolled in medical programs in 2006 were screened for lead poisoning. About 4.2 percent of the enrolled children were lead poisoned, a level that exceeds the national level of 2.5 percent.

Lead contaminated dust enters the body when individuals breathe or swallow airborne lead particles.

**Lead contaminated soil** is another source of lead poisoning. Scraping of exterior lead-based paint surfaces and use of lead gasoline in the past may have caused lead contamination of the soil. Lead in soil does not deteriorate or wash away, but is a permanent hazard.

**Food** may be contaminated through packaging or the use of enameled or ceramic pots and dishware, porcelain, lead crystal, holiday paper and party decorations.

**Drinking water** may be contaminated through lead solder on pipes and water heaters commonly found in older homes.

**Other** sources of lead poisoning may include: folk remedies such as "greta," "sindoor" and "azarcon" and cosmetics manufactured outside of the United States, hobbies such as refinishing furniture, casting ammunition, soldering, and making lead-glazed pottery or stained glass.

For more information on recalls of lead-contaminated products, visit the Web sites below:

Illinois Department of Public Health <a href="http://www.idph.state.il.us/webapp/SRSApp/pages/index.jsp">http://www.idph.state.il.us/webapp/SRSApp/pages/index.jsp</a>

Illinois Office of Attorney General <u>http://www.illinoisattorneygeneral.gov/consumers/MostWanted\_RecallGuide\_0708.pdf</u>

Centers for Disease Control and Prevention http://www.cdc.gov/nceh/lead/Recalls/default.htm

United States Consumer Product Safety Commission <u>http://www.cpsc.gov/recentrecalls.html</u>

United States Government Recalls www.recalls.gov

<sup>1</sup>National Survey of Lead and Allergens in Housing, Volume I: Analysis of Lead Hazards, FINAL REPORT, Revision 7.1, October 31, 2002, Eliminating Childhood Lead Poisoning: A Federal Strategy Targeting Lead Paint Hazards

# Illinois Department of Public Health

Percentage of Children Living in Housing Units Built Before 1980 by County





# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Adverse Effects of Lead Poisoning

Lead poisoning (also known as saturnism, plumbism, or painter's colic) is a medical condition caused by increased levels of lead in the blood. Everyone is exposed to small amounts of lead through air, soil, household dust, food, drinking water and various consumer products. Children are at highest risk for lead poisoning through ingestion because of their hand-to-mouth activities. In 2007, 296,998 Illinois children were tested for lead poisoning and 5,270 (1.8 percent) had elevated blood lead levels of 10 micrograms per deciliter and above.

Most children with elevated blood lead levels have no obvious acute symptoms of lead poisoning. Blood lead testing is the only effective way to detect lead poisoning. The non-specific symptoms of lead poisoning may include:

Irritability Headaches Sleeplessness Vomiting Diarrhea Seizures Loss of appetite and /or weight loss Stomach aches and Cramping / constipation

Severe cases of lead poisoning are rare. Anemia and fatigue are common. Damage to the nervous system may cause impaired mental function. Continued excessive exposure, as in an industrial setting, can affect the kidneys.

A 2008 study in Cincinnati of pregnant women who resided in areas of the city with a high concentration of older lead-contaminated housing showed that prenatal and early childhood lead exposure resulted in a decreased brain volume especially in male children<sup>1</sup>. Affected regions included portions of the brain responsible for mood regulation, emotional responses, impulse control, problem solving, and decision making. In a follow-up study, prenatal and postnatal blood lead concentrations were associated with higher rates of criminal activities in young adults involving violence<sup>2</sup>.

Other resources regarding the adverse effects of lead in children include:

<sup>1</sup>Cecil, K.M.; Brubaker, C.J.; Adler, C.M.; Dietrich, K.N.; Altaye, M., et al. (2008) Decreased Brain Volume in Adults with Childhood Lead Exposure. PLoS Med 5(5): e112 <u>doi:10.1371/journal.pmed.0050112</u>.

<sup>2</sup>Wright, J.P.; Dietrich, K.N.; Ris, M.D.; Hornung, R.W.; Wessel, S.D., et al. (2008) Association of Prenatal and Childhood Blood Lead Concentrations with Criminal Arrests in Early Adulthood. PLoS Med 5(5): e101 <u>doi:10.1371/journal.pmed.0050101</u>.

Preventing and Screening for Childhood Lead Poisoning: A Reference Guide for Physicians and Health Care Providers. Illinois Department of Public Health: 2008.

U.S. Centers for Disease Control and Prevention: <u>http://www.cdc.gov/lead/</u>

#### ILLINOIS DEPARTMENT OF PUBLIC HEALTH Medical and Environmental Case Management of Lead Poisoning

The Illinois Department of Public Health has grant agreements with 83 delegate agencies to provide case management care for lead poisoned children in 91 of 102 counties. Case management activities include education, home nursing visits and referrals for related services such as medical, nutritional supplementation and developmental testing. In collaboration with the Department, these delegate agencies provide community education and technical information to health care providers, families of lead poisoned children and the general public. Each of the delegate agencies use the STELLAR (Systematic Tracking of Elevated Lead Levels and Remediation) data processing system to maintain records for case management of children in the delegate agency's jurisdiction (Figure 12).

Local health departments without a delegate agency agreement are designated as non-delegate agencies. There are currently 13 non-delegate agencies where case management is provided by the Illinois Lead Program regional nurse consultants.

Seventeen delegate agencies also provide environmental inspection services. Services include home inspections, risk assessment and abatement monitoring in addition to the case management services. Remediation is required by law when a lead hazard has been identified in a home where a lead poisoned child lives or regularly visits. Local health departments not covered by a delegate agency agreement are served by the Illinois Lead Program regional environmental health specialist. The environmental health specialists are housed in the Regional Offices of the Illinois Department of Public Health (Figure 13).



Illinois Department of Public Health

Source: Illinois Lead Program Annual Surveillance Report 2007

# Illinois Department of Public Health

Regional Offices of the Illinois Department of Public Health



#### **ILLINOIS DEPARTMENT OF PUBLIC HEALTH** Childhood Lead Poisoning Elimination Advisory Council

The Illinois Department of Public Health and its Childhood Lead Poisoning Elimination Advisory Council are dedicated to the reduction of exposures to lead for all Illinois children and to the achievement of the Healthy People 2010 goal of eliminating blood lead levels at or above 10 microgram per deciliter. The mission of the advisory council is to implement a comprehensive statewide strategic plan and foster creative partnerships.

The advisory council meets quarterly. The meeting is held in a central location in Bloomington, Illinois. The advisory council is divided into five subcommittees. Each subcommittee identifies or addresses goals and objectives related to the elimination of childhood lead poisoning: education awareness; evaluation, primary prevention, resources, and screening plan. Each committee has a facilitator who reports the progress made toward the completion of the goals and activities during meetings.

The advisory council is composed of a diverse network of dedicated stakeholders including physicians, nurses, health educators, nutritionists, demographers, environmental scientists, epidemiologists, clinical providers, and allied health professionals. Affiliations of stakeholders include city and county health departments, state agencies (Departments of Human Services, Financial and Professional Regulations, Healthcare and Family Services; Center for Health Statistics, Office of Planning and Economic Development), federal agencies (Housing and Urban Development, Environmental Protection Agency), universities (University of Illinois at Chicago, Southern Illinois University School of Medicine), hospitals (Children's Memorial Hospital, Chicago), community health centers (PCC Lake Street Family Center, Chicago), Illinois Poison Center, nonprofit organizations (nonprofit, professional), and other organizations serving disparate populations. Stakeholders bring a wide range of expertise in the areas of maternal and child health, lead elimination projects, Head Start collaborations, Medicaid, and WIC (Women, Infant and Children).

For more information on the Childhood Lead Poisoning Elimination Advisory Council and the Illinois Strategic Plan for the Elimination of Childhood Lead Poisoning, visit:

http://www.idph.state.il.us/HealthWellness/StrategicLeadPlan.pdf or call the Illinois Lead Program at 866-909-3572 or 217-782-3517.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH Contact Information

Illinois Department of Public Health Illinois Lead Program 525 West Jefferson Street Springfield, Illinois 62761 Telephone: 866-909-3572 or 217-782-3517 The hearing impaired can dial 800-547-0466 Web site: <u>http://www.idph.state.il.us/envhealth/ehpublications.htm#lead</u>

U.S. Centers for Disease Control and Prevention (CDC) <u>http://www.cdc.gov/lead/</u>

National Lead Information Center Telephone: 800-424-LEAD (5323) Web site: <u>www.epa.gov/lead</u>

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