



Pennsylvania Childhood Lead Surveillance Program

2009 Annual Report

www.health.state.pa.us/lead



The Pennsylvania Childhood Lead Surveillance Program (CLSP)

**Pennsylvania Department of Health
Health & Welfare Building
625 Forster Street
Harrisburg, PA 17120**

Phone: (717) 772-2762

Fax: (717) 772-0323

**Joseph Foner, Public Health Program Administrator
Susan Guy, Program Analyst**

Table of Contents

Topic	Page
Table of Contents	2
Annual Report Executive Summary	3 – 4
Updates and Highlights	4 – 6
Statewide Summaries	7 – 18
Statewide – Children Tested for Lead	8
Statewide – Children Confirmed Elevated	8 - 9
Statewide – Percentages	9
Statewide – Geometric Mean	10-11
Statewide – Population	12-13
Statewide – Age of Housing	14-18
Statewide – Age of Housing Maps	17-18
County Level	19 – 40
County Level – Children Tested for Lead by Max BLL and County of Residence	19-22
County Level – Children Tested for Lead by Age, Race and County of Residence	23-26
County Level – Percentages (Children < 7 Years Tested by County)	27
County Level – County Ranking (Top Fifteen) by Percentage Tested	27
County Level – Children Tested and Confirmed Elevated by Age, First Confirmed Elevated Blood Lead Level and County of Residence	28-31
County Level – Children Tested and Confirmed Elevated by Age, Race and County of Residence	32-35
County Level – Percentages (Children < 7 Years tested and Confirmed Elevated by County of Residence)	36
County Level – U.S. Census Bureau’s 2000 Census Population by Age and County of Residence	37-40
County Level – Map-Pennsylvania Population Children (< 7 Years) by County	40
City Level (Twenty Selected Cities)	41 – 52
City Level – Children Tested for Lead by Age, Maximum Blood Lead Level and City of Residence	41-42
City Level – Children Tested for Lead by Age, Race and City of Residence	43-44
City Level – Percentages (Children < 7 Years Tested by City)	45
City Level – Percent of Tested Children Living in Twenty Selected Cities	46
City Level – Children Tested and Confirmed Elevated by Age, First Confirmed Elevated Blood Lead Level and City of Residence	47- 48
City Level – Children Tested and Confirmed Elevated by Age, Race and City of Residence	49-50
City Level – U.S. Census Bureau’s 2000 Census Population by Age and City of Residence	51-52
Reports to PA-NEDSS in 2009	53 – 54
Reports to PA-NEDSS – Childhood Lead, Adult Lead and All Others	54
CLPPP Sub-Grantees Testing Activity 2009	55 – 58
CLPPPs – Number of Children Reported Tested By CLPPP	56
CLPPPs – Testing Activity By CLPPP Bar Chart	57
CLPPPs – Testing Comparison CLPPPs and Other Testing Entities	58
Endnotes	59 – 60

Annual Report Executive Summary

In 2009, reporting to the Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS)¹ continued to improve, and more children were reported to have been tested for lead than in any previous year. There were 145,996 Pennsylvania children less than seven years of age² reported to have been tested for lead in 2009. And, of those children reported to have been tested, 2,750 (1.88%) were reported to have confirmed elevated blood lead levels³. As in previous years, the data indicates that children less than three years of age⁴ are tested more frequently than older children. Over twenty-five percent (25%) of Pennsylvania's population under three years of age was tested for lead in 2009, whereas an analysis of the less than seven age cohort (< 7 years of age) indicates that just under fourteen percent (14%) of that population was tested. It is clear there has been, and continues to be, a focus on testing younger children. While overall reporting to PA-NEDSS has clearly improved, some specific fields of information continue to be problematic for the reporting community. For example, patient race was reported as "Unknown" or left blank for over sixty-nine percent (69%) of the children reported to have been tested for lead in 2009. Given the high percentage of unknown patient Race data, it is difficult to derive meaningful and statistically reliable analytic measures from the remaining known patient Race data. It is susceptible to high variance and lacks strong utility in representing the sample population. However, it is important to recognize that in comparing the known childhood lead Race data for children less than seven (7) years of age, significant variances exist. In 2009, it was reported that 145,996 children less than seven years of age were tested for lead. Of those tested, 25,964 (17.78%) were White or Caucasian, and 13,584 (9.30%) were Black or African American. In addition, less than 1% of the total was reported Asian, and 2.88% were reported as "Other." Overall, 2,750 (1.88%) children less than seven years of age were reported as confirmed elevated, but when viewed by race, again the percentages vary. Of the children who were tested, 1.81% of the reported Asian population was reported confirmed elevated. This number increased to 2.26% for the reported White or Caucasian population, and 4.36% of the reported Black or African American population. It is also important to keep in mind that only slightly less than fourteen percent (14%) of Pennsylvania's population less than seven years of age was even tested for lead.

As in most states, childhood lead testing in Pennsylvania is targeted on children living in identified high risk areas. In Pennsylvania, these areas represent parts of the state with a relatively high percentage of older homes, and a relatively high number of children. Generally, these are higher population urban areas such as Philadelphia, Pittsburgh, Erie, Allentown, etc. Given this targeted, non-universal, approach, the reported overall childhood blood lead levels will be higher than in states where testing is done universally. It is therefore important to recognize this and not compare the geometric mean blood lead levels obtained from data representative of target testing states with geometric mean blood lead levels obtained from data representative of universal testing states. Having said that, Pennsylvania's overall blood lead levels have clearly been dropping. In 2004, for children less than seven years of age, the geometric mean blood lead level on reported maximum blood lead levels was approximately 3.5 micrograms per deciliter of blood. In 2009, that number dropped to 2.8 micrograms per deciliter. That represents a 20% decrease from 2004 to 2009.

The Childhood Lead Poisoning Prevention Program (CLPPP) sub-grantees are located in what are generally recognized as high risk areas of Pennsylvania. They conduct outreach and provide testing, case management and inspection services to children throughout the state, focusing on those less than seven (7) years of age. Of the total number of children less than seven (7) years of age reported to have been tested for lead in 2009 (145,996), CLPPPs reported they tested 55,529 (approximately 38%). The remaining tested children (approximately 62%) were tested by private health care practitioners and other health care entities.

This is the third Lead Surveillance Annual Report produced by the Surveillance Section. Two prior years (2007 & 2008) are currently accessible on the Department of Health (DOH) web site, www.health.state.pa.us/lead. This 2009 Annual Report reflects childhood lead data extracted from PA-NEDSS on April 7, 2010. However, data related to age of housing and population was extracted from the U.S. Census Bureau's 2000 Census summary file tables, located at: <http://www.census.gov>. It is generally recognized and accepted that the primary source for Childhood Lead poisoning remains exposure to aging, deteriorating lead-based paint (chips and dust). While lead was banned from paint in 1978, many older dwellings still contain layers of pre-1978 paint. According to the 2000 Census data, Pennsylvania ranks second in the nation for having the most housing units identified as having been built before 1950.

The Childhood Lead Surveillance Program progressed significantly in 2009 toward strengthening and improving surveillance capabilities and offering a broader scope of analysis and reporting services and initiatives. PA-NEDSS enhancements during the year have served to improve case management delivery efficiency and effectiveness for the Childhood Lead user community – now numbering over three hundred and fifteen (315) users. Among the initiatives slated for the Childhood Lead Surveillance Program in 2010 are the incorporation of the use of geo-coded address data and mapping software (ArcGIS 9.3) into ongoing analysis and reporting projects, and the development of a database to better track information derived from CLPPP quarterly reports.

Updates and Highlights

Environmental Public Health Tracking Network (EPHTN)

The Environmental Public Health Tracking Program was established by the Centers for Disease Control and Prevention (CDC) in 2002, two years after the Pew Environmental Health Commission identified an “environmental health gap.” The Commission stated that basic information needed to document suspected links between environmental hazards such as air pollution, contaminated water, and toxic substances such as pesticides and their impact on the health of citizens was not readily available. In addition, Environmental Health is identified as a focus area in Healthy People 2010. During 2006, the Centers for Disease Control and Prevention (CDC) began leading an initiative to build a National Environmental Public Health Tracking Network (EPHTN). The Tracking Network was envisioned to enable data related to environmental public health to be collected, organized, managed, analyzed, and displayed, and provide users with access to interpreted environmental public health information. The initial phase consisted of identifying nationally consistent data and measures (e.g., asthma, birth defects, lead poisoning, air pollution, etc.). In 2007, CDC began implementing the Tracking Network national portal and gateway security infrastructure.

The Pennsylvania Department of Health (DOH) Bureau of Epidemiology, Division of Environmental Health Epidemiology, Health Tracking Section, received a grant from CDC to begin building Pennsylvania's Statewide EPHTN. The initial CDC award was made August 1, 2006. As of the time of this report, the program is in the fourth year of a five year grant (August 1, 2009 through July 31, 2010). Throughout 2009, the Pennsylvania Childhood Lead Surveillance Program continued to participate in discussions and efforts to plan, develop and deliver a childhood lead dataset in accordance with the project's requirements. The childhood lead dataset was delivered and made available to the public, via the Department's Health Statistics website (EpiQMS), in 2009. More information on the EPHTN project can be obtained at: <http://www.dsf.health.state.pa.us/health/cwp/view.asp?a=171&Q=251317>

Data Match & Share Project with DPW

The data match and share project with the Department of Public Welfare's Office (DPW) of Medical Assistance Program (OMAP) was implemented, as the Letter of Agreement (LOA) was signed by DPW on July 24, 2009. PA-NEDSS functionality began importing, matching and reporting on Medical Assistance children tested for lead in 2009 on a quarterly basis. This information will be analyzed and utilized by the DOH in an attempt to determine a baseline testing rate for children receiving Medical Assistance, and potentially examine testing rates by geographic area.

Data Driven Management

The objective of the Data Driven Management Program is to implement and maintain an institutionalized data driven management system for consistent use of data for management decision-making that also provides direct assistance and guidance to effectively measure and improve the performance of the Department's programs, contractors, and business or core functions. Collaboration with the Department's Data Driven Management initiative continued throughout 2009.

PA Code: Title 28 - Chapter 27 Reporting Regulations

The original Chapter 27 regulations were put into effect in 1954. As the years progressed, changes were made to include different reportable diseases, specific elements to be reported, the address or location reports were to be sent, and the format in which to report specific diseases. The process of amending the regulations began prior to May 1993. The current amendment, which became effective January 26, 2002, made changes relating to reporting lead for children. For example, prior to 2002, only confirmed elevated blood lead levels were to be reported, and this was defined as greater than, or equal to, fifteen (15) micrograms per deciliter of blood. The 2002 amendment changed that to make all blood lead levels reportable by certified laboratories.

The final draft of the Chapter 27 regulations was submitted to programs in January, 2009, and they continue to go through the finalization process. The, updates and revisions to the current Chapter 27 regulation language were completed during 2008, and many changes were proposed. For example, new language was added to require health care practitioners using portable, point-of-service lead analyzing devices (such as Lead Care II) to report results. As these devices produce immediate results at the service location, laboratories will be, to some yet unknown extent, removed from the reporting process. Other changes were proposed as well. For example, with PA-NEDSS now serving as the State's disease surveillance system, new language was needed to require reporting laboratories to submit results electronically. Additionally, with these latest proposals, a new language section layout was proposed – one that clearly separates and delineates the differences associated with Adult Lead and Childhood Lead reporting requirements. It was determined this was needed given the feedback from numerous laboratory representatives in recent years. In the past, there was some confusion on the differences between Adult and Childhood Lead reporting requirements. With this proposed new layout, the reporting requirements for each program are clearer.

Data Quality

In an effort to clean up the database in preparation for this Annual Report, staff employed various strategies to identify and fix patient, report and location records within PA-NEDSS. Records missing critical fields of information were identified, researched and fixed whenever possible. Records indicating implausible data (such as extremely high quantitative test results, for example) were identified, researched and fixed. Error Queues were monitored daily and every effort to maintain clean, accurate, and consistent information on incoming reports was taken. Records with missing dates of birth were identified and fixed after contacting health care providers to obtain the correct dates of birth. For some records this resulted in a transfer from the Childhood Lead program jurisdiction to the Adult Lead program jurisdiction.

Data Mapping

The purchase of mapping software (ArcGIS Version 9.3) was approved in 2008, and installation occurred in early 2009. Childhood Lead Surveillance Staff will be undergoing extensive training in the application of this software and will begin to use it with ongoing reports and projects.

PA-NEDSS

During 2009, system enhancements were planned and unveiled which significantly improved workflow processes. These enhancements were scoped, planned, and implemented to expand PA-NEDSS user capacity.

- Live Web Chat Sessions – In addition to continuing to offer training opportunities through traditional instructor-lead classroom and one-on-one teaching modalities, live web-based “chat sessions” were conducted. Through these sessions, childhood lead investigators were able to attend and participate in training opportunities simply by logging into these on-line Webinars. Through this on-line network, opportunities for interactive instruction, discussion and feedback are offered periodically to all statewide childhood lead investigators and inspectors. No travel is necessary and users can participate directly from their desk whether they work in Erie or Chester.
- PALL Records Now Received Thru PA-ELR – In June, 2009, the DOH vendor (Entry Time) and multiple reporting laboratories were moved to the PA Electronic Laboratory Reporting System (PA-ELR). These reporters previously transmitted lead records into PA NEDSS via the PA Lead Lab Data Management System (PALL), also known as Legacy ELR. The move from PALL to PA-ELR eliminated manual movement of the records en route to PA NEDSS and considerably shortened the reporting process. PALL was discontinued in July, 2009.
- Environmental Inspections on Unverified Addresses in PA-NEDSS – As of March 25, 2009, the incorporation of Blue Fusion software enabled Investigators to enter Environmental Inspections in PA-NEDSS for unverified addresses. Prior to that date, PA-NEDSS users could not enter Environmental Inspections for addresses that were not in the United States Postal Service (USPS) database and were considered unverified. Unverified addresses can include valid addresses, such as new developments not yet recognized by the USPS.

Statewide Summaries

Statewide Summaries

Children Tested for Lead

Reported to be residing in ↓	Pennsylvania children tested for lead in 2009 by age and race ⁵																													
	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total
PA	462	5,638	11,856	2,159	50,750	70,865	635	6,853	17,326	2,715	79,769	107,298	980	12,960	25,428	4,045	98,974	142,387	997	13,584	25,964	4,198	101,253	145,996	1,049	14,392	27,306	4,392	106,957	154,096

Race Abbreviations:
A = Asian
B = Black or African American
W = White
O = Reported *Other* + American Indian + Alaskan Native + Native Hawaiian + Pacific Islander
U = Unknown
Total = Total Children
NOTE: "Less Than" Sign: <

Reported to be residing in ↓	Pennsylvania children tested for lead in 2009 by age and maximum blood lead level ⁶																																							
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)																							
	Lows 0-9 µg/dL		Highs ≥ 10 µg/dL		Nulls		Total Children		Lows 0-9 µg/dL		Highs ≥ 10 µg/dL		Nulls		Total Children		Lows 0-9 µg/dL		Highs ≥ 10 µg/dL		Nulls		Total Children																	
PA	67,821		2,615		429		70,865		103,509		3,098		691		107,298		137,120		4,405		862		142,387		140,596		4,509		891		145,996		148,520		4,642		934		154,096	

Maximum blood lead level = The child's highest blood lead level (quantitative test result) for the year
µg/dL = micrograms per deciliter of blood
NOTE: "Less Than" Sign: <

Children Confirmed Elevated

Reported to be residing in ↓	Pennsylvania children tested and confirmed elevated in 2009 by age and race ⁷																													
	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total	A	B	W	O	U	Total
PA	12	251	327	113	860	1,563	12	263	354	120	926	1,675	16	558	570	196	1,317	2,657	18	592	586	205	1,349	2,750	19	625	604	212	1,396	2,856

Race Abbreviations:
A = Asian
B = Black or African American
W = White
O = Reported *Other* + American Indian + Alaskan Native + Native Hawaiian + Pacific Islander
U = Unknown
Total = Total Children
NOTE: "Less Than" Sign: <

Statewide Summaries - continued

Children Confirmed Elevated

Pennsylvania children tested and confirmed elevated in 2009 by age and categorized by first confirmed elevated blood lead level ⁸																			
1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
10 to <15 µg/dL	15 to <20 µg/dL	≥ 20 µg/dL	Total Children	10 to <15 µg/dL	15 to <20 µg/dL	≥ 20 µg/dL	Total Children	10 to <15 µg/dL	15 to <20 µg/dL	≥ 20 µg/dL	Total Children	10 to <15 µg/dL	15 to <20 µg/dL	≥ 20 µg/dL	Total Children	10 to <15 µg/dL	15 to <20 µg/dL	≥ 20 µg/dL	Total Children
894	352	317	1,563	983	362	330	1,675	1,488	574	595	2,657	1,526	588	636	2,750	1,565	608	683	2,856

First Confirmed Blood Lead Level - Those children tested for lead and reported confirmed elevated by first confirmed elevated blood lead level
 µg/dL = micrograms per deciliter of blood
 Note: "Less Than" Sign: <
 Note: "Greater than or equal to" sign: ≥

Percentages

Percent of Pennsylvania's 2000 Census population tested for lead in 2009, by age cohort ⁹														
1&2 Years (12-35 months)			< 3 Years (0-35 months)			< 6 Years (0-71 months)			< 7 Years (0-83 months)			< 16 Years (0-191 months)		
Total Tested	2000 Census Population	Percent of Population Tested	Total Tested	2000 Census Population	Percent of Population Tested	Total Tested	2000 Census Population	Percent of Population Tested	Total Tested	2000 Census Population	Percent of Population Tested	Total Tested	2000 Census Population	Percent of Population Tested
70,865	283,969	24.96%	107,298	426,204	25.18%	142,387	883,286	16.12%	145,996	1,043,455	13.99%	154,096	2,588,014	5.95%

Percent of Pennsylvania's 2009 tested children confirmed elevated, by age cohort ¹⁰														
1&2 Years (12-35 months)			< 3 Years (0-35 months)			< 6 Years (0-71 months)			< 7 Years (0-83 months)			< 16 Years (0-191 months)		
Total Confirmed Elevated	Total Tested	Percent of Tested Children Confirmed Elevated	Total Confirmed Elevated	Total Tested	Percent of Tested Children Confirmed elevated	Total Confirmed Elevated	Total Tested	Percent of Tested Children Confirmed Elevated	Total Confirmed Elevated	Total Tested	Percent of Tested Children Confirmed Elevated	Total Confirmed Elevated	Total Tested	Percent of Tested Children Confirmed Elevated
1,563	70,865	2.21%	1,675	107,298	1.56%	2,657	142,387	1.87%	2,750	145,996	1.88%	2,856	154,096	1.85%

Statewide Summaries - continued

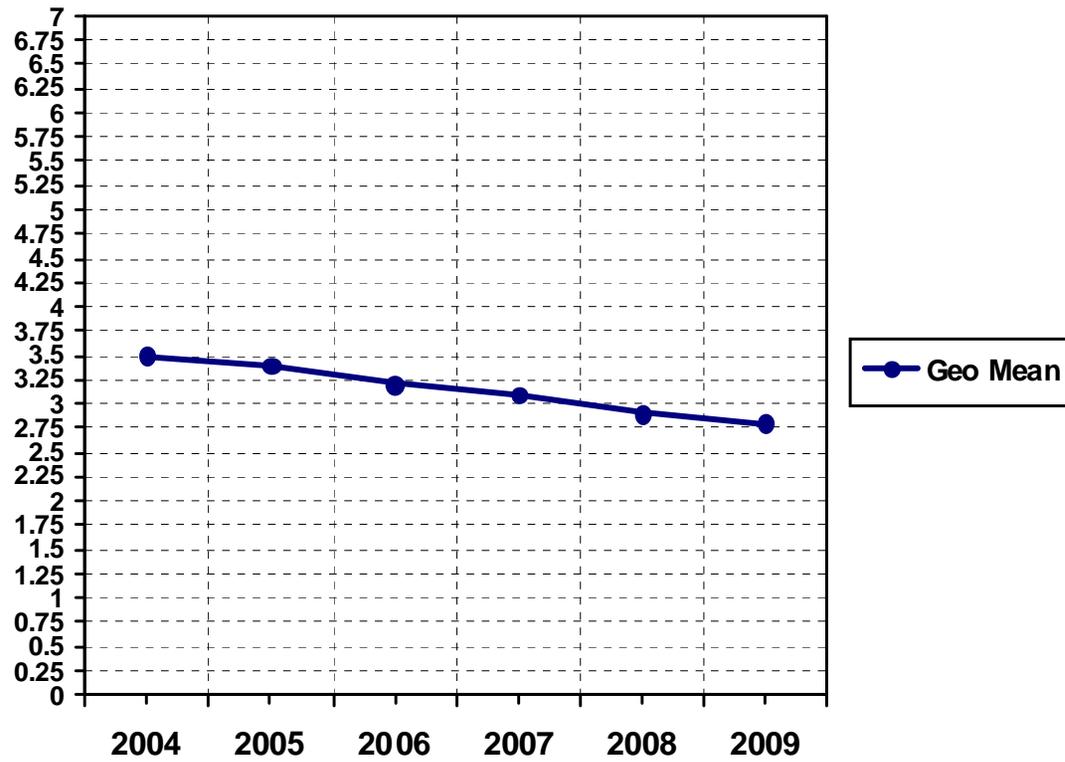
Geometric Mean¹¹

Source: Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS), Lead Annual Report Cube	
Dataset: The maximum blood lead levels for children, less than seven (7) years of age, tested for lead. Note: Maximum blood lead levels of zero (0) were converted to 0.1, and null quantitative test results (blank) were eliminated prior to calculation.	
Calendar Year	Geometric Mean of Maximum Blood Lead Level
2004	3.5
2005	3.4
2006	3.2
2007	3.1
2008	2.9
2009	2.8

The geometric mean decreased by what percentage?	From 2004 to 2005?	From 2005 to 2006?	From 2006 to 2007?	From 2007 to 2008?	From 2008 to 2009?	From 2004 to 2009?
	2.86%	5.88%	3.13%	6.45%	3.45%	20.00%

Statewide Summaries - continued

**Geometric Mean Trend Line
2004 (3.5) to 2009 (2.9)**



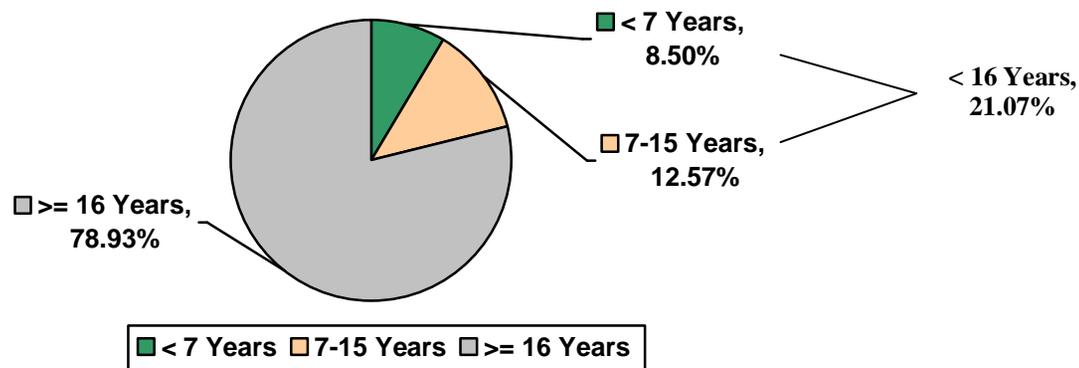
Statewide Summaries - continued

Population¹²

Geo Level	Population Data Source	Population as of	1 & 2 Years	< 3 Years	< 6 Years	< 7 Years	< 16 Years	Total Population (All Ages)
Pennsylvania	U.S. Census Bureau	2000 Census →	283,969	426,204	883,286	1,043,455	2,588,014	12,281,054
	PA Department of Health Bureau of Health Statistics (Population Estimates)	July 1, 2008 →	292,916	443,260	886,097	1,035,787	2,465,846	12,448,279
United States (including PA and excluding Puerto Rico)	U.S. Census Bureau	2000 Census →	7,518,721	11,345,730	23,026,164	27,050,590	64,253,829	281,421,906

Geo Level	Population Data Source: U.S. Census Bureau, 2000 Census		
	Percent of Total Population Represented by Age Cohort Population		
	1 & 2 Years (12-35 months)	< 7 Years (0-83 months)	< 16 Years (0-191 months)
Pennsylvania	2.31%	8.50%	21.07%
United States	2.67%	9.61%	22.83%

Pennsylvania 2000 Census Population



Population

Statewide Summaries - continued

Source: The U.S. Census Bureau's 2000 Census, Summary File 3 Table P8 Sex by Age Note: Excluding Puerto Rico but including the District of Columbia (DC)			
States Ranking by Total Population			
	Rank	State	Total Population (All Ages)
First (Most)	1	California	33,871,648
Sixth	6	Pennsylvania	12,281,054
Last (Fewest)	51	Wyoming	493,782
States Ranking by Population < 16 Years			
	Rank	State	Population < 16 Years
First (Most)	1	California	8,275,504
Sixth	6	Pennsylvania	2,588,014
Last (Fewest)	51	District of Columbia	103,018
States Ranking by Population < 7 Years			
	Rank	State	Population < 7 Years
First (Most)	1	California	3,529,786
Seventh	7	Pennsylvania	1,043,455
Last (Fewest)	51	Wyoming	43,675
States Ranking by Population < 6 Years			
	Rank	State	Population < 6 Years
First (Most)	1	California	2,989,340
Seventh	7	Pennsylvania	883,286
Last (Fewest)	51	Wyoming	37,086
States Ranking by Population < 3 Years			
	Rank	State	Population < 3 Years
First (Most)	1	California	1,449,052
Seventh	7	Pennsylvania	426,204
Last (Fewest)	51	Wyoming	18,179
States Ranking by Population 1 & 2 Years			
	Rank	State	Population 1 & 2 Years
First (Most)	1	California	955,430
Seventh	7	Pennsylvania	283,969
Last (Fewest)	51	Wyoming	12,134

Statewide Summaries - continued

Age of Housing ¹³

Source: The US Census Bureau's 2000 Census, Summary File 3, Tables H5, H6, H7, H34, and H36
 Statistics below reflect information on 50 U.S. states and the District of Columbia (DC). Puerto Rico is not included.

Geo Level	Occupied Housing Units			Vacant Housing Units	Total Housing Units ¹⁴
	Owner Occupied	Renter Occupied	Total Occupied	Total Vacant	
United States	69,816,513	35,663,588	105,480,101	10,424,540	115,904,641
Pennsylvania	3,406,167	1,370,836	4,777,003	472,747	5,249,750

Ranking by Total Housing Units			
Rank		State	Housing Units
First (Most)	1	California	12,214,549
Fifth	5	Pennsylvania	5,249,750
Last (Fewest)	51	Wyoming	223,854

Ranking by Total Occupied Housing Units			
Rank		State	Housing Units
First (Most)	1	California	11,502,870
Fifth	5	Pennsylvania	4,777,003
Last (Fewest)	51	Wyoming	193,608

Ranking by Total Renter Occupied Housing Units			
Rank		State	Housing Units
First (Most)	1	California	4,956,633
Seventh ¹⁵	7	Pennsylvania	1,370,836
Last (Fewest)	51	Wyoming	58,120

Ranking by Total Owner Occupied Housing Units			
Rank		State	Housing Units
First (Most)	1	California	6,546,237
Fifth	5	Pennsylvania	3,406,167
Last (Fewest)	51	District of Columbia (DC)	101,216

Ranking by Total Vacant Housing Units			
Rank		State	Housing Units
First (Most)	1	Florida	965,018
Fifth	5	Pennsylvania	472,747
Last (Fewest)	51	District of Columbia (DC)	26,507

Statewide Summaries - continued

Age of Housing

Geo Level	Total Housing Units, as of the 2000 Census	Estimated total Units built before 1978 ¹⁶	All Percentages are rounded two decimal places	Total Units built before 1950	All Percentages are rounded two decimal places
			Estimated Percentage of Total Housing Units Built Pre 78 ¹⁷		Percentage of Total Housing Units Built Pre 50 ¹⁸
United States	115,904,641	73,588,963	63.49%	25,815,821	22.27%
Pennsylvania	5,249,750	4,029,533	76.76%	2,113,422	40.26%

Ranking by Estimated Total Housing units built before 1978			
Rank		State	Housing Units
First (Most)	1	California	8,037,964
Fourth	4	Pennsylvania	4,029,533
Last (Fewest)	51	Alaska	120,830

Ranking by Estimated Percent of Total Housing Units built before 1978			
Rank		State	All Percentages are rounded two decimal places
			Estimated Percentage of Housing Units built Pre 1978
First (Highest %)	1	District of Columbia (DC)	90.64%
Fifth	5	Pennsylvania	76.76%
Last (Lowest %)	51	Nevada	32.96%

Ranking by Total Housing units built before 1950			
Rank		State	Housing Units
First (Most)	1	New York	3,309,770
Second	2	Pennsylvania	2,113,422
Last (Fewest)	51	Alaska	12,472

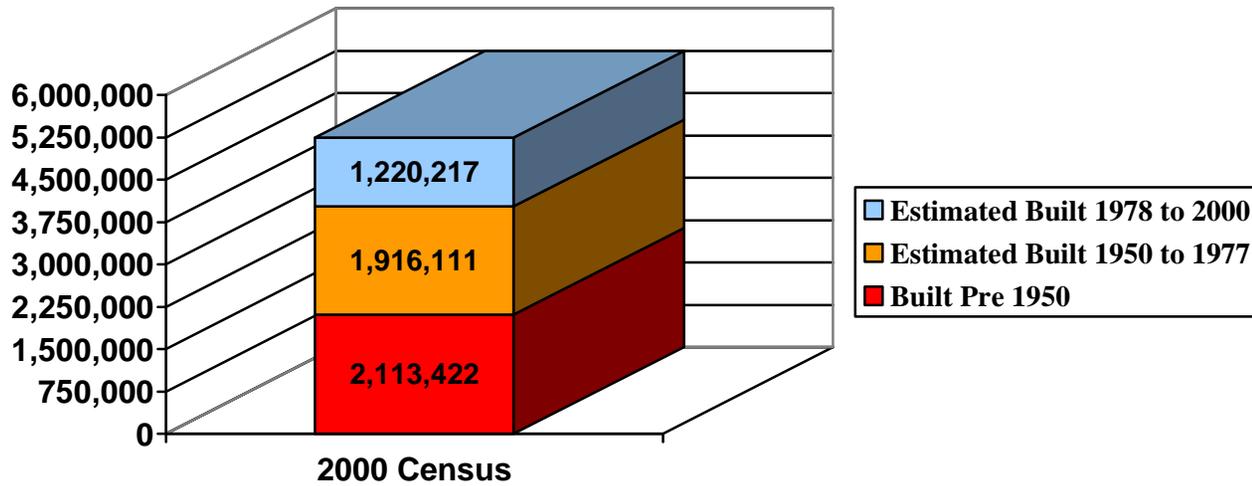
Ranking by Percent of Total Housing Units built before 1950			
Rank		State	All Percentages are rounded two decimal places
			Percentage of Housing Units built Pre 1950
First (Highest %)	1	District of Columbia (DC)	51.35%
Fourth	4	Pennsylvania	40.26%
Last (Lowest %)	51	Nevada	3.45%

Statewide Summaries - continued

Age of Housing

Pennsylvania's Housing Stock

In Units Built

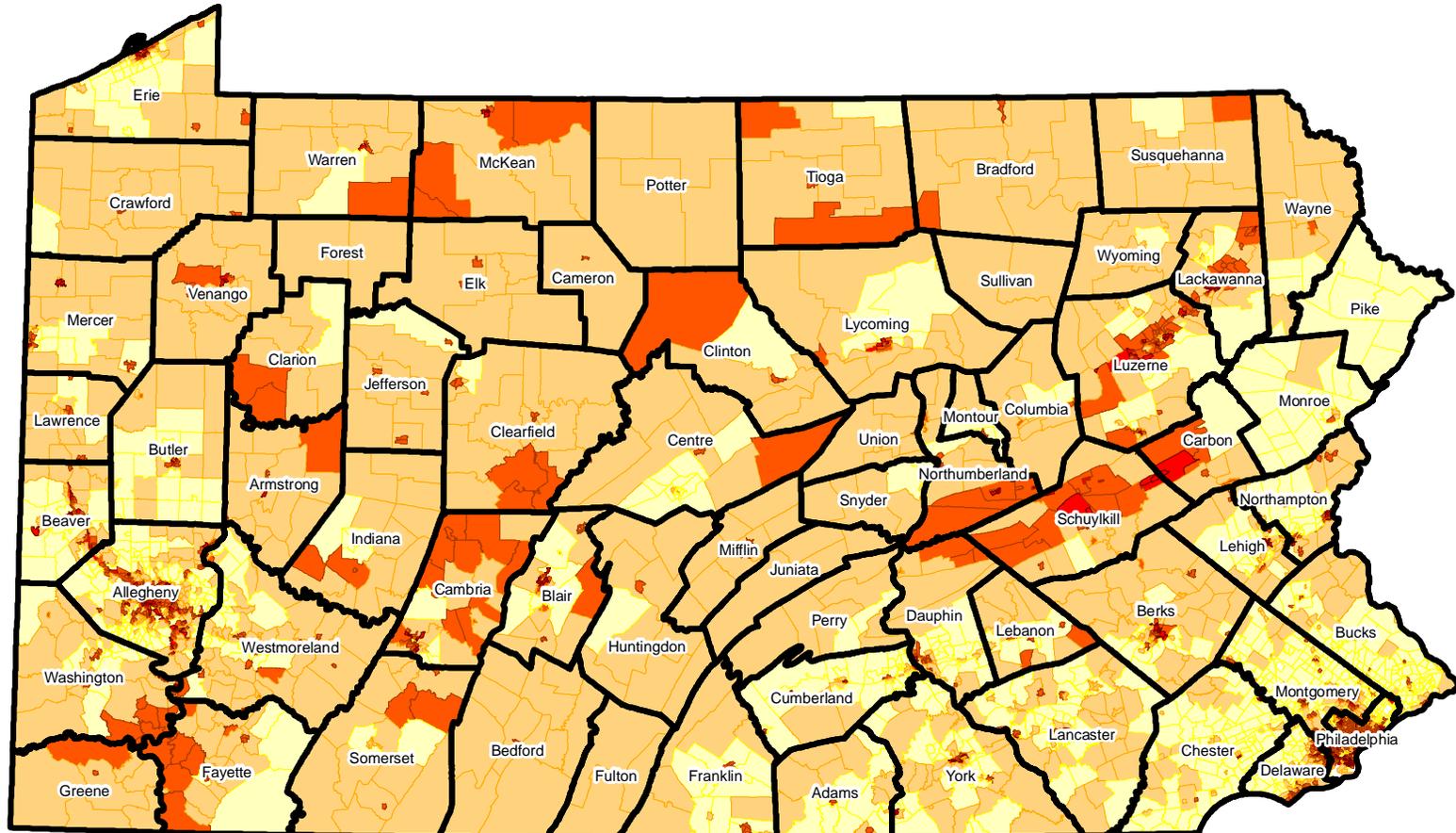


Source: U.S. Census Bureau 2000 Census, Summary File 3	Housing Units:				
	Built Before 1950	Estimated Built 1950 through 1977	Total Estimated Built Before 1978	Estimated Built 1978 through 2000	Total Housing Units
Pennsylvania	2,113,422	1,916,111	4,029,533	1,220,217	5,249,750

Statewide Summaries - continued

Age of Housing - Map

Percent of Pennsylvania's total housing stock built before 1950, by 2000 Census Tract



Percent of total housing units built before 1950



County Level

Children tested for Lead in 2009 by:

- i) Age**
- ii) Maximum Blood Lead Level (BLL)**
- iii) County of Residence**

County Level: Children Tested for Lead in 2009 – By age, maximum blood lead level and county of residence

County	The number of Pennsylvania children tested for lead in 2009 by age, maximum blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	Lows ¹⁹	Highs ²⁰		Total Children ²²	Lows	Highs		Total Children	Lows	Highs		Total Children	Lows	Highs		Total Children	Lows	Highs		Total Children
	0-9 µg/dL	≥ 10 µg/dL	Nulls ²¹		0-9 µg/dL	≥ 10 µg/dL	Nulls		0-9 µg/dL	≥ 10 µg/dL	Nulls		0-9 µg/dL	≥ 10 µg/dL	Nulls		0-9 µg/dL	≥ 10 µg/dL	Nulls	
Adams	539	20	6	565	685	23	6	714	902	25	8	935	905	25	8	938	1,007	25	8	1,040
Allegheny	5,712	205	80	5,997	7,926	227	119	8,272	10,358	309	136	10,803	10,483	319	138	10,940	10,724	330	143	11,197
Armstrong	592	8	12	612	664	10	12	686	737	12	13	762	741	13	13	767	752	13	13	778
Beaver	617	25	6	648	1,271	38	18	1,327	1,409	46	23	1,478	1,427	46	23	1,496	1,447	46	23	1,516
Bedford	234	10	3	247	431	11	6	448	452	13	6	471	457	13	7	477	472	13	8	493
Berks	2,715	202	10	2,927	3,369	217	14	3,600	5,017	324	20	5,361	5,272	333	20	5,625	6,359	347	21	6,727
Blair	572	39	39	650	1,100	48	98	1,246	1,272	58	108	1,438	1,285	58	108	1,451	1,307	58	109	1,474
Bradford	251	7	1	259	438	8	4	450	580	11	6	597	588	11	6	605	613	12	6	631
Bucks	1,714	5	0	1,719	2,758	8	0	2,766	3,361	11	0	3,372	3,421	11	0	3,432	3,605	12	0	3,617
Butler	550	17	10	577	1,060	23	18	1,101	1,247	27	18	1,292	1,267	30	18	1,315	1,373	31	20	1,424
Cambria	419	21	4	444	836	27	5	868	1,128	36	8	1,172	1,136	37	8	1,181	1,154	38	8	1,200
Cameron	40	0	0	40	57	0	0	57	66	0	0	66	68	0	0	68	70	0	0	70
Carbon	177	6	0	183	432	10	1	443	656	17	1	674	682	17	1	700	727	17	1	745
Centre	254	4	2	260	755	8	9	772	824	10	12	846	832	10	12	854	860	11	17	888
Chester	1,038	25	3	1,066	2,344	33	3	2,380	3,018	58	3	3,079	3,046	58	3	3,107	3,140	59	3	3,202
Clarion	147	3	11	161	301	3	24	328	347	3	28	378	350	3	29	382	358	3	31	392
Clearfield	526	10	8	544	903	22	16	941	1,028	27	17	1,072	1,036	29	17	1,082	1,055	29	17	1,101
Clinton	127	7	1	135	357	10	5	372	450	13	5	468	454	13	5	472	470	13	5	488
Columbia	190	16	1	207	390	19	2	411	445	23	3	471	457	23	3	483	475	23	3	501
Crawford	416	20	24	460	583	21	25	629	748	25	28	801	760	26	28	814	804	27	28	859
Cumberland	642	21	18	681	919	24	19	962	1,127	27	21	1,175	1,138	27	21	1,186	1,188	28	21	1,237
Dauphin	1,609	87	32	1,728	2,340	99	42	2,481	3,586	153	54	3,793	3,679	156	55	3,890	3,768	157	56	3,981
Delaware	2,743	63	10	2,816	4,109	76	13	4,198	5,789	135	42	5,966	6,036	142	57	6,235	6,480	149	62	6,691
Elk	67	2	0	69	234	5	1	240	269	5	2	276	269	5	2	276	272	6	2	280
Erie	2,309	97	1	2,407	3,232	109	1	3,342	4,454	174	1	4,629	4,627	183	2	4,812	4,875	189	2	5,066
Fayette	870	6	7	883	1,178	7	8	1,193	1,610	10	10	1,630	1,708	10	10	1,728	1,763	13	11	1,787
Forest	17	0	0	17	34	0	0	34	44	0	0	44	44	0	0	44	44	0	0	44
Franklin	811	31	10	852	1,397	43	13	1,453	1,888	49	14	1,951	1,905	49	14	1,968	1,932	50	16	1,998
Fulton	107	3	3	113	154	5	3	162	207	5	9	221	210	5	9	224	223	5	9	237
Greene	186	8	3	197	247	9	6	262	353	11	6	370	354	11	6	371	365	12	7	384
Huntingdon	207	4	1	212	396	6	3	405	506	11	4	521	511	11	4	526	539	11	4	554

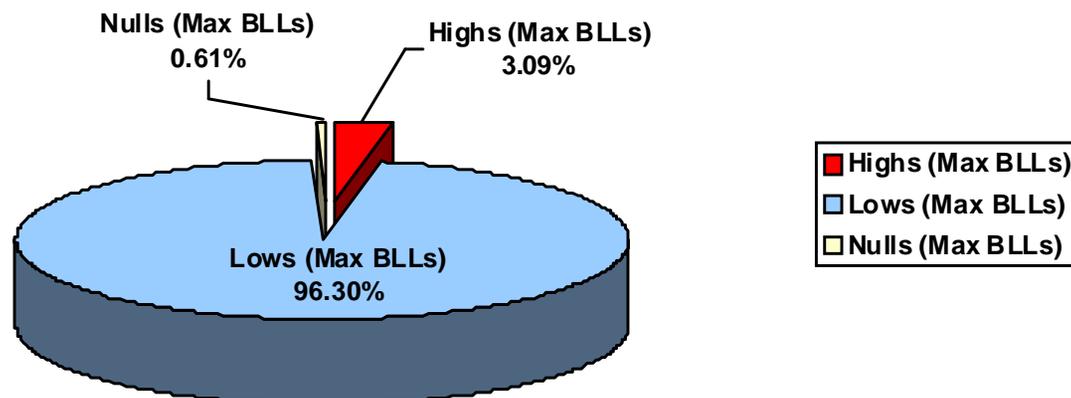
County Level: Children Tested for Lead in 2009 – By age, maximum blood lead level and county of residence

County	The number of Pennsylvania children tested for lead in 2009 by age, maximum blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children
Indiana	414	19	6	439	697	28	11	736	808	31	12	851	815	31	13	859	822	32	13	867
Jefferson	218	9	3	230	423	13	4	440	559	16	5	580	584	16	5	605	593	16	5	614
Juniata	72	0	1	73	154	3	1	158	212	6	1	219	216	6	1	223	228	6	1	235
Lackawanna	855	51	5	911	1,505	59	11	1,575	2,204	67	11	2,282	2,254	67	11	2,332	2,435	69	11	2,515
Lancaster	1,832	75	4	1,911	2,706	88	8	2,802	3,508	127	10	3,645	3,569	128	10	3,707	3,763	130	11	3,904
Lawrence	251	9	1	261	392	9	1	402	488	13	4	505	491	13	4	508	510	13	4	527
Lebanon	562	20	6	588	831	28	7	866	1,202	45	7	1,254	1,226	45	7	1,278	1,388	49	7	1,444
Lehigh	2,175	81	3	2,259	2,948	88	3	3,039	3,860	114	7	3,981	3,930	115	7	4,052	4,099	116	8	4,223
Luzerne	1,322	55	8	1,385	2,339	64	12	2,415	3,386	88	15	3,489	3,473	90	15	3,578	3,658	91	15	3,764
Lycoming	461	29	1	491	840	38	2	880	1,093	54	3	1,150	1,108	54	3	1,165	1,147	55	3	1,205
McKean	412	21	2	435	676	27	2	705	781	30	3	814	788	30	3	821	810	30	3	843
Mercer	476	15	0	491	740	18	0	758	895	23	0	918	906	23	0	929	961	23	0	984
Mifflin	144	3	0	147	391	4	1	396	538	5	2	545	545	5	2	552	557	5	3	565
Monroe	983	13	1	997	1,259	16	3	1,278	1,614	18	5	1,637	1,649	18	5	1,672	1,783	19	5	1,807
Montgomery	3,366	72	0	3,438	5,357	83	1	5,441	6,616	116	3	6,735	6,743	118	3	6,864	7,000	119	3	7,122
Montour	72	1	0	73	119	2	0	121	156	3	0	159	157	3	1	161	160	3	1	164
Northampton	1,497	45	8	1,550	1,772	49	8	1,829	2,246	61	12	2,319	2,284	61	12	2,357	2,371	63	12	2,446
Northumberland	354	15	9	378	725	22	15	762	972	32	16	1,020	990	33	16	1,039	1,021	35	16	1,072
Perry	173	4	6	183	341	7	10	358	408	8	11	427	409	8	11	428	419	8	11	438
Philadelphia	19,267	822	4	20,093	27,375	921	12	28,308	37,743	1,391	17	39,151	39,073	1,429	17	40,519	41,782	1,476	17	43,275
Pike	331	2	3	336	453	4	4	461	593	4	5	602	612	4	5	621	668	4	5	677
Potter	271	5	4	280	285	5	4	294	315	6	7	328	316	6	7	329	319	6	8	333
Schuylkill	603	39	1	643	1,401	70	1	1,472	1,573	80	1	1,654	1,588	81	1	1,670	1,630	82	1	1,713
Snyder	113	0	4	117	201	1	10	212	286	3	13	302	290	3	14	307	304	3	14	321
Somerset	250	2	2	254	460	4	2	466	573	7	2	582	580	8	2	590	609	10	2	621
Sullivan	12	0	0	12	26	0	0	26	34	1	0	35	34	1	0	35	35	1	0	36
Susquehanna	158	1	2	161	201	1	2	204	278	5	2	285	281	5	2	288	311	5	3	319
Tioga	158	9	6	173	251	10	8	269	301	10	15	326	310	10	17	337	329	11	27	367
Union	229	7	10	246	362	11	14	387	498	13	19	530	510	13	20	543	526	13	20	559

County Level: Children Tested for Lead in 2009 – By age, maximum blood lead level and county of residence

County	The number of Pennsylvania children tested for lead in 2009 by age, maximum blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children	Lows 0-9 µg/dL	Highs ≥ 10 µg/dL	Nulls	Total Children
Venango	268	13	0	281	527	18	0	545	590	22	0	612	594	22	0	616	615	23	0	638
Warren	132	6	0	138	280	20	0	300	364	22	0	386	369	22	0	391	383	22	0	405
Washington	533	22	3	558	903	31	7	941	1,270	37	11	1,318	1,294	38	12	1,344	1,340	38	12	1,390
Wayne	173	8	1	182	311	10	1	322	451	11	2	464	464	11	2	477	489	11	2	502
Wstmrlnd.	1,299	30	6	1,335	2,168	38	12	2,218	2,453	48	15	2,516	2,479	48	15	2,542	2,534	50	16	2,600
Wyoming	78	4	0	82	116	4	0	120	176	5	0	181	179	5	0	184	195	5	0	200
York	1,909	136	13	2,058	3,074	155	20	3,249	4,198	255	20	4,473	4,338	265	21	4,624	4,505	273	21	4,799
All 67 counties	67,821	2,615	429	70,865	103,509	3,098	691	107,298	137,120	4,405	862	142,387	140,596	4,509	891	145,996	148,520	4,642	934	154,096

Pennsylvania Children Less Than Seven (7) Years of Age Tested for Lead in 2009



County Level

Children tested for lead in 2009 by:

- i) Age**
- ii) Race**
- iii) County of Residence**

County Level: Children Tested for Lead - By age, race and county of residence

The number of Pennsylvania children tested for lead in 2009 by age, race and county of residence

Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total Children.

County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
Adams	0	3	76	1	485	565	0	4	89	1	620	714	0	14	239	4	678	935	0	14	242	4	678	938	0	16	255	4	765	1,040
Allegheny	146	1,906	2,400	39	1,506	5,997	193	2,223	3,533	44	2,279	8,272	275	3,332	4,490	70	2,636	10,803	278	3,387	4,539	71	2,665	10,940	287	3,472	4,647	74	2,717	11,197
Armstrong	2	1	210	0	399	612	2	2	249	0	433	686	2	3	292	1	464	762	2	4	293	1	467	767	2	4	299	1	472	778
Beaver	1	26	155	2	464	648	3	43	277	3	1,001	1,327	3	59	327	3	1,086	1,478	3	60	334	3	1,096	1,496	3	62	347	4	1,100	1,516
Bedford	0	2	86	0	159	247	0	2	108	0	338	448	0	2	119	0	350	471	0	2	124	1	350	477	0	2	136	1	354	493
Berks	8	125	784	119	1,891	2,927	10	162	912	148	2,368	3,600	13	295	1,304	257	3,492	5,361	13	310	1,368	277	3,657	5,625	15	391	1,608	325	4,388	6,727
Blair	5	16	170	3	456	650	8	27	312	3	896	1,246	8	38	402	6	984	1,438	8	38	410	7	988	1,451	9	41	421	7	996	1,474
Bradford	1	3	79	0	176	259	2	4	125	0	319	450	2	6	174	0	415	597	2	6	179	0	418	605	2	7	186	0	436	631
Bucks	22	20	187	7	1,483	1,719	29	27	388	10	2,312	2,766	40	41	439	17	2,835	3,372	41	41	443	18	2,889	3,432	44	45	458	18	3,052	3,617
Butler	3	2	330	0	242	577	6	5	631	0	459	1,101	6	11	740	0	535	1,292	6	11	751	1	546	1,315	7	25	823	1	568	1,424
Cambria	1	20	90	1	332	444	1	34	139	2	692	868	1	61	320	2	788	1,172	1	61	325	3	791	1,181	1	62	339	3	795	1,200
Cameron	0	0	7	0	33	40	0	0	17	0	40	57	0	0	20	0	46	66	0	0	21	0	47	68	0	0	22	0	48	70
Carbon	0	1	31	0	151	183	0	2	70	0	371	443	1	10	186	0	477	674	1	11	190	1	497	700	1	11	196	1	536	745
Centre	2	2	44	0	212	260	6	3	105	0	658	772	7	3	131	0	705	846	7	3	136	0	708	854	7	3	150	0	728	888
Chester	3	42	158	15	848	1,066	7	70	272	39	1,992	2,380	15	191	444	48	2,381	3,079	15	192	450	49	2,401	3,107	15	194	463	49	2,481	3,202
Clarion	0	2	47	0	112	161	0	2	76	0	250	328	0	2	97	0	279	378	0	2	99	1	280	382	0	2	105	1	284	392
Clearfield	0	0	175	0	369	544	0	1	203	0	737	941	0	2	257	0	813	1,072	0	2	260	0	820	1,082	0	4	273	0	824	1,101
Clinton	0	0	34	0	101	135	0	1	70	0	301	372	0	2	105	1	360	468	0	2	105	1	364	472	0	2	108	1	377	488
Columbia	0	0	6	0	201	207	0	0	8	0	403	411	0	1	14	0	456	471	0	1	15	0	467	483	0	1	17	0	483	501
Crawford	1	4	183	0	272	460	1	5	271	0	352	629	1	12	359	1	428	801	1	12	367	1	433	814	1	15	388	1	454	859
Cumberland	2	3	34	1	641	681	3	3	49	1	906	962	3	14	148	3	1,007	1,175	3	14	150	3	1,016	1,186	3	15	157	3	1,059	1,237
Dauphin	11	76	83	6	1,552	1,728	13	90	102	6	2,270	2,481	42	447	315	25	2,964	3,793	43	467	323	25	3,032	3,890	43	482	338	25	3,093	3,981
Delaware	19	443	110	39	2,205	2,816	35	539	153	50	3,421	4,198	44	1,268	263	93	4,298	5,966	44	1,431	274	96	4,390	6,235	45	1,497	290	99	4,760	6,691
Elk	1	0	31	0	37	69	1	0	101	0	138	240	1	0	123	0	152	276	1	0	123	0	152	276	1	0	127	0	152	280
Erie	13	330	1,146	4	914	2,407	18	428	1,539	4	1,353	3,342	31	705	2,086	13	1,794	4,629	32	746	2,153	14	1,867	4,812	35	809	2,256	14	1,952	5,066
Fayette	1	12	223	0	647	883	2	14	282	0	895	1,193	3	28	526	0	1,073	1,630	4	30	568	0	1,126	1,728	4	35	587	0	1,161	1,787
Forest	0	0	4	0	13	17	0	0	9	0	25	34	0	0	17	0	27	44	0	0	17	0	27	44	0	0	17	0	27	44
Franklin	3	5	207	2	635	852	3	7	242	3	1,198	1,453	4	55	476	4	1,412	1,951	4	56	477	4	1,427	1,968	4	57	481	4	1,452	1,998

County Level: Children Tested for Lead - By age, race and county of residence

The number of Pennsylvania children tested for lead in 2009 by age, race and county of residence

Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total Children.

County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
Fulton	1	1	32	0	79	113	1	1	44	0	116	162	1	1	54	0	165	221	1	1	54	0	168	224	1	1	58	0	177	237
Greene	0	0	107	0	90	197	0	0	141	0	121	262	1	2	212	0	155	370	1	2	213	0	155	371	1	2	220	0	161	384
Huntingdon	0	1	111	0	100	212	0	2	170	0	233	405	0	7	246	0	268	521	0	7	249	0	270	526	0	7	267	0	280	554
Indiana	0	6	144	0	289	439	3	7	272	0	454	736	4	16	340	0	491	851	4	17	343	0	495	859	4	17	347	0	499	867
Jefferson	0	1	48	0	181	230	1	1	65	0	373	440	1	1	116	1	461	580	1	1	121	1	481	605	1	1	128	1	483	614
Juniata	0	1	19	0	53	73	0	1	29	0	128	158	0	2	57	0	160	219	0	2	58	0	163	223	0	3	60	0	172	235
Lackawanna	3	34	163	11	700	911	3	40	237	11	1,284	1,575	8	117	501	36	1,620	2,282	8	119	514	36	1,655	2,332	8	127	579	37	1,764	2,515
Lancaster	4	44	277	9	1,577	1,911	6	49	313	9	2,425	2,802	9	103	551	27	2,955	3,645	10	105	559	28	3,005	3,707	14	110	578	28	3,174	3,904
Lawrence	1	28	175	1	56	261	2	41	244	1	114	402	2	55	308	1	139	505	2	55	309	1	141	508	2	56	322	2	145	527
Lebanon	2	2	61	0	523	588	2	2	72	1	789	866	6	10	239	6	993	1,254	6	10	243	6	1,013	1,278	6	13	279	6	1,140	1,444
Lehigh	0	39	142	22	2,056	2,259	2	43	170	23	2,801	3,039	2	91	415	58	3,415	3,981	2	94	428	60	3,468	4,052	3	104	446	61	3,609	4,223
Luzerne	5	40	300	8	1,032	1,385	5	48	388	9	1,965	2,415	15	172	835	23	2,444	3,489	16	177	860	23	2,502	3,578	16	181	919	23	2,625	3,764
Lycoming	1	54	230	8	198	491	1	70	373	11	425	880	1	112	512	14	511	1,150	1	114	518	14	518	1,165	1	118	545	14	527	1,205
McKean	0	1	91	0	343	435	0	1	194	0	510	705	0	1	230	0	583	814	0	1	233	0	587	821	0	1	249	0	593	843
Mercer	1	38	276	0	176	491	2	53	414	0	289	758	4	75	514	0	325	918	4	75	525	0	325	929	4	85	555	0	340	984
Mifflin	0	1	32	0	114	147	0	1	72	0	323	396	0	7	148	0	390	545	0	7	149	0	396	552	0	8	151	0	406	565
Monroe	2	43	79	1	872	997	3	46	95	1	1,133	1,278	4	104	190	5	1,334	1,637	4	107	193	6	1,362	1,672	4	109	204	6	1,484	1,807
Montgomery	15	72	166	33	3,152	3,438	28	80	237	39	5,057	5,441	57	251	368	64	5,995	6,735	59	254	373	71	6,107	6,864	60	265	381	75	6,341	7,122
Montour	0	0	3	0	70	73	0	0	3	0	118	121	0	0	9	0	150	159	0	0	9	0	152	161	0	0	9	0	155	164
Northampton	3	30	127	5	1,385	1,550	5	33	160	5	1,626	1,829	7	61	236	15	2,000	2,319	8	63	241	15	2,030	2,357	8	63	249	16	2,110	2,446
Northumberland	1	1	23	0	353	378	1	1	30	0	730	762	1	5	88	0	926	1,020	1	5	89	0	944	1,039	1	5	91	0	975	1,072
Perry	0	0	54	0	129	183	0	0	105	0	253	358	0	3	150	0	274	427	0	3	151	0	274	428	0	3	152	0	283	438
Philadelphia	166	1,871	437	1,791	15,828	20,093	208	2,281	650	2,255	22,914	28,308	326	4,394	803	3,154	30,474	39,151	330	4,644	816	3,252	31,477	40,519	351	5,004	842	3,381	33,697	43,275
Pike	0	4	39	7	286	336	0	5	53	8	395	461	0	12	81	9	500	602	0	12	83	9	517	621	0	13	89	10	565	677
Potter	0	0	32	0	248	280	0	0	34	0	260	294	0	0	41	0	287	328	0	0	41	0	288	329	0	0	41	0	292	333
Schuylkill	0	4	79	1	559	643	0	4	118	1	1,349	1,472	0	6	168	2	1,478	1,654	0	6	170	2	1,492	1,670	0	7	173	2	1,531	1,713
Snyder	0	1	5	0	111	117	0	1	10	0	201	212	0	4	48	0	250	302	0	4	49	0	254	307	0	4	50	0	267	321
Somerset	0	0	77	0	177	254	0	0	114	0	352	466	0	2	165	0	415	582	0	2	168	0	420	590	0	2	185	0	434	621
Sullivan	0	0	5	0	7	12	0	0	7	0	19	26	0	0	10	0	25	35	0	0	10	0	25	35	0	0	11	0	25	36

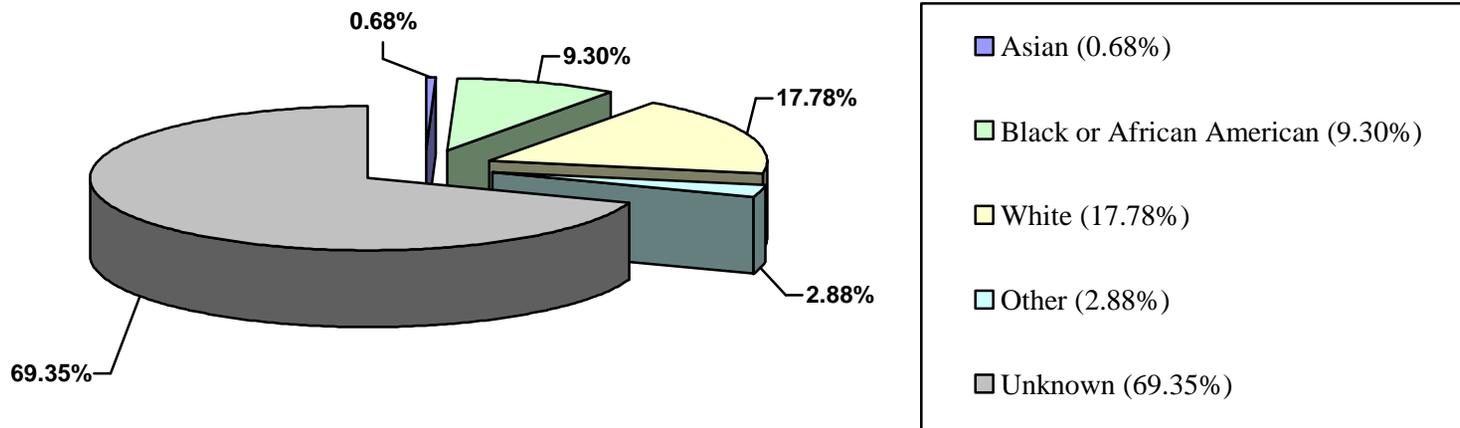
County Level: Children Tested for Lead - By age, race and county of residence

The number of Pennsylvania children tested for lead in 2009 by age, race and county of residence

Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total Children.

County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
Susquehan	0	0	87	1	73	161	0	0	97	2	105	204	0	0	142	2	141	285	0	0	143	2	143	288	0	1	156	2	160	319
Tioga	0	0	16	0	157	173	0	0	29	0	240	269	0	0	37	0	289	326	0	0	38	0	299	337	0	0	40	0	327	367
Union	0	1	9	0	236	246	0	1	11	0	375	387	0	1	42	0	487	530	0	1	42	0	500	543	0	1	44	0	514	559
Venango	0	1	107	0	173	281	0	1	159	0	385	545	0	2	200	0	410	612	0	2	202	0	412	616	1	2	221	0	414	638
Warren	0	0	40	0	98	138	0	0	62	0	238	300	0	0	124	0	262	386	0	0	127	0	264	391	0	0	138	0	267	405
Wash.	4	33	326	2	193	558	6	51	500	2	382	941	6	104	754	3	451	1,318	7	107	768	4	458	1,344	8	111	803	4	464	1,390
Wayne	0	0	24	1	157	182	0	0	35	1	286	322	1	6	109	1	347	464	1	6	112	1	357	477	2	6	120	1	373	502
Wstmrlnd.	1	60	408	1	865	1,335	6	77	738	1	1,396	2,218	7	103	882	2	1,522	2,516	7	104	895	2	1,534	2,542	8	106	926	2	1,558	2,600
Wyoming	0	1	32	0	49	82	0	1	48	0	71	120	0	2	92	0	87	181	0	2	94	0	88	184	0	3	103	0	94	200
York	7	181	383	18	1,469	2,058	7	213	501	21	2,507	3,249	15	526	998	74	2,860	4,473	15	572	1,038	84	2,915	4,624	16	599	1,081	85	3,018	4,799
All 67 Counties	462	5,638	11,856	2,159	50,750	70,865	635	6,853	17,326	2,715	79,769	107,298	980	12,960	25,428	4,045	98,974	142,387	997	13,584	25,964	4,198	101,253	145,996	1,049	14,392	27,306	4,392	106,957	154,096

Pennsylvania Children < 7 Years, reported to have been tested for lead in 2009, by Race



County Level: Percentages - Children (< 7 Years of age) Tested for Lead - By County of Residence

The percentage of Pennsylvania children, less than seven (7) years of age, tested for lead in 2009 by county of residence															
PA County	Total Children Tested ²³	2000 Census Population	Percent Tested ²⁴	PA County	Total Children Tested	2000 Census Population	Percent Tested	PA County	Total Children Tested	2000 Census Population	Percent Tested	PA County	Total Children Tested	2000 Census Population	Percent Tested
1 Adams	938	7,677	12.22%	30 Greene	371	3,078	12.05%	59 Tioga	337	3,175	10.61%				
2 Allegheny	10,940	101,305	10.80%	31 Huntingdon	526	3,391	15.51%	60 Union	543	2,747	19.77%				
3 Armstrong	767	5,771	13.29%	32 Indiana	859	6,468	13.28%	61 Venango	616	4,676	13.17%				
4 Beaver	1,496	14,366	10.41%	33 Jefferson	605	3,704	16.33%	62 Warren	391	3,517	11.12%				
5 Bedford	477	4,203	11.35%	34 Juniata	223	2,177	10.24%	63 Washington	1,344	16,370	8.21%				
6 Berks	5,625	32,929	17.08%	35 Lackawanna	2,332	16,151	14.44%	64 Wayne	477	3,878	12.30%				
7 Blair	1,451	10,535	13.77%	36 Lancaster	3,707	46,794	7.92%	65 Westmoreland	2,542	27,722	9.17%				
8 Bradford	605	5,475	11.05%	37 Lawrence	508	7,761	6.55%	66 Wyoming	184	2,413	7.63%				
9 Bucks	3,432	54,819	6.26%	38 Lebanon	1,278	10,456	12.22%	67 York	4,624	33,622	13.75%				
10 Butler	1,315	15,804	8.32%	39 Lehigh	4,052	27,064	14.97%	All 67 Counties			145,996	1,043,455	13.99%		
11 Cambria	1,181	11,280	10.47%	40 Luzerne	3,578	22,842	15.66%	RANKING: Top fifteen (15) counties for having highest percentage of children, less than seven (7) years of age, tested for lead. 1. Philadelphia (28.91%) 2. McKean (22.86%) 3. Potter (20.20%) 4. Union (19.77%) 5. Erie (19.09%) 6. Dauphin (17.88%) 7. Berks (17.08%) 8. Fulton (16.96%) 9. Franklin (16.95) 10. Clearfield (16.60%) 11. Jefferson (16.33%) 12. Forest (16.24%) 13. Carbon (16.23%) 14. Schuylkill (15.98%) 15. Clinton (15.94)							
12 Cameron	68	466	14.59%	41 Lycoming	1,165	9,520	12.24%								
13 Carbon	700	4,312	16.23%	42 McKean	821	3,591	22.86%								
14 Centre	854	8,825	9.68%	43 Mercer	929	9,604	9.67%								
15 Chester	3,107	41,502	7.49%	44 Mifflin	552	4,132	13.36%								
16 Clarion	382	3,216	11.88%	45 Monroe	1,672	12,664	13.20%								
17 Clearfield	1,082	6,518	16.60%	46 Montgomery	6,864	66,999	10.24%								
18 Clinton	472	2,962	15.94%	47 Montour	161	1,530	10.52%								
19 Columbia	483	4,496	10.74%	48 Northampton	2,357	21,746	10.84%								
20 Crawford	814	7,713	10.55%	49 Northumberland	1,039	6,957	14.93%								
21 Cumberland	1,186	16,632	7.13%	50 Perry	428	3,834	11.16%								
22 Dauphin	3,890	21,751	17.88%	51 Philadelphia	40,519	140,177	28.91%								
23 Delaware	6,235	49,777	12.53%	52 Pike	621	4,047	15.34%								
24 Elk	276	2,845	9.70%	53 Potter	329	1,629	20.20%								
25 Erie	4,812	25,206	19.09%	54 Schuylkill	1,670	10,452	15.98%								
26 Fayette	1,728	11,910	14.51%	55 Snyder	307	2,998	10.24%								
27 Forest	44	271	16.24%	56 Somerset	590	6,212	9.50%								
28 Franklin	1,968	11,610	16.95%	57 Sullivan	35	395	8.86%								
29 Fulton	224	1,321	16.96%	58 Susquehanna	288	3,465	8.31%								

County Level

Children tested and confirmed elevated ²⁵ in 2009 by:

- i) Age,**
- ii) First Confirmed Elevated Blood Lead Level²⁶, and**
- iii) County of Residence**

County Level: Children Tested and Confirmed Elevated – By age, first confirmed elevated blood lead level and county of residence

County	The number of Pennsylvania children tested and confirmed elevated in 2009 by age, confirmed elevated blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total
Adams	1	3	2	6	1	3	2	6	2	3	2	7	2	3	2	7	2	3	2	7
Allegheny	73	19	15	107	75	20	15	110	99	27	24	150	100	30	28	158	102	31	34	167
Armstrong	1	0	0	1	1	0	0	1	1	0	1	2	2	0	1	3	2	0	1	3
Beaver	3	3	1	7	7	3	2	12	9	5	3	17	9	5	3	17	9	5	3	17
Bedford	2	0	1	3	2	0	1	3	4	1	2	7	4	1	2	7	4	1	2	7
Berks	100	28	27	155	105	28	27	160	160	48	60	268	167	49	66	282	170	53	74	297
Blair	15	7	2	24	17	7	2	26	18	11	5	34	18	11	6	35	18	11	6	35
Bradford	3	0	0	3	3	0	0	3	5	1	0	6	5	1	0	6	5	1	0	6
Bucks	4	0	2	6	5	0	2	7	6	1	2	9	6	1	2	9	6	1	2	9
Butler	5	1	2	8	7	1	2	10	9	1	3	13	10	1	3	14	10	1	3	14
Cambria	3	6	3	12	4	6	3	13	8	8	3	19	9	8	3	20	9	8	4	21
Cameron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbon	1	0	0	1	1	0	0	1	3	0	3	6	3	0	3	6	3	0	3	6
Centre	0	1	2	3	1	1	2	4	1	1	2	4	1	1	2	4	1	1	3	5
Chester	5	3	3	11	5	3	3	11	6	6	4	16	6	6	5	17	6	6	6	18
Clarion	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1
Clearfield	1	0	0	1	1	0	0	1	2	0	1	3	2	0	1	3	2	0	1	3
Clinton	1	2	0	3	1	2	0	3	2	2	0	4	2	2	0	4	2	2	0	4
Columbia	4	2	2	8	5	2	2	9	6	2	5	13	6	2	5	13	6	2	5	13
Crawford	2	1	1	4	2	1	1	4	2	3	3	8	2	3	3	8	2	3	3	8
Cumberland	3	1	1	5	3	1	1	5	3	1	3	7	3	1	3	7	3	1	4	8
Dauphin	22	9	12	43	22	9	12	43	43	17	22	82	44	17	24	85	44	17	25	86
Delaware	16	8	11	35	20	8	11	39	34	8	25	67	34	9	28	71	34	10	28	72
Elk	1	0	1	2	2	1	1	4	2	1	1	4	2	1	1	4	2	1	2	5
Erie	27	13	7	47	30	15	7	52	48	23	15	86	50	23	16	89	51	23	17	91
Fayette	3	0	0	3	3	0	0	3	5	0	0	5	5	1	0	6	6	1	1	8
Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Franklin	3	1	2	6	3	1	2	6	6	1	5	12	6	1	5	12	7	1	5	13
Fulton	2	0	1	3	2	0	1	3	2	0	1	3	2	0	1	3	2	0	1	3

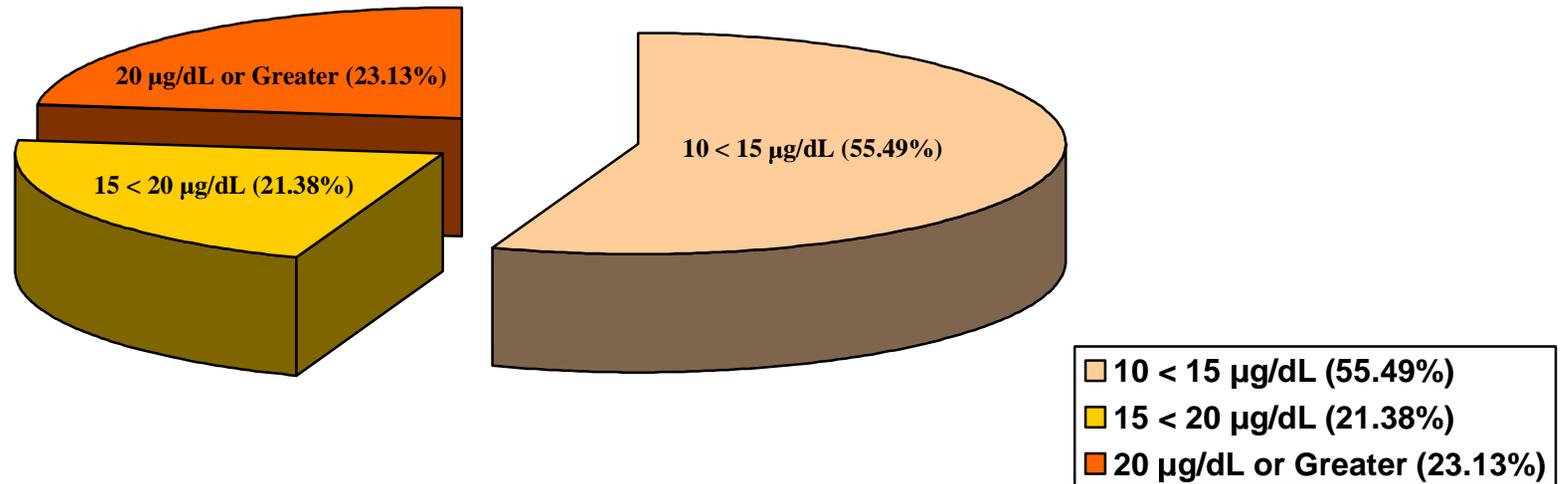
County Level: Children Tested and Confirmed Elevated – By age, first confirmed elevated blood lead level and county of residence

County	The number of Pennsylvania children tested and confirmed elevated in 2009 by age, confirmed elevated blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total
Greene	2	1	1	4	2	1	1	4	2	1	2	5	2	1	2	5	2	1	3	6
Huntingdon	2	1	2	5	2	1	2	5	5	1	3	9	5	1	3	9	5	1	3	9
Indiana	5	1	2	8	6	1	2	9	6	1	2	9	6	1	2	9	7	1	2	10
Jefferson	0	1	0	1	0	1	0	1	1	1	0	2	1	1	0	2	1	1	0	2
Juniata	0	1	0	1	0	1	0	1	0	2	1	3	0	2	1	3	0	2	1	3
Lackawanna	12	4	8	24	12	4	8	24	16	5	11	32	16	5	11	32	17	5	12	34
Lancaster	39	14	11	64	44	14	12	70	64	21	21	106	64	21	24	109	65	21	25	111
Lawrence	3	0	3	6	3	0	3	6	4	1	4	9	4	1	5	10	4	1	5	10
Lebanon	4	3	4	11	4	3	4	11	12	6	9	27	12	6	10	28	14	6	10	30
Lehigh	19	13	6	38	20	13	6	39	27	20	12	59	27	20	13	60	27	20	13	60
Luzerne	15	3	9	27	16	3	9	28	22	11	15	48	23	11	15	49	23	11	16	50
Lycoming	10	3	4	17	10	4	4	18	15	5	8	28	15	5	9	29	15	5	10	30
McKean	4	1	1	6	4	1	1	6	5	1	1	7	5	1	1	7	5	1	1	7
Mercer	6	4	3	13	7	4	3	14	7	6	5	18	7	6	5	18	7	6	5	18
Mifflin	2	0	0	2	2	0	0	2	3	0	0	3	3	0	0	3	3	0	0	3
Monroe	1	1	1	3	1	2	1	4	2	2	1	5	2	2	1	5	3	2	1	6
Montgomery	29	16	11	56	34	16	13	63	52	19	22	93	53	19	24	96	53	20	24	97
Montour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
Northampton	2	4	4	10	2	4	4	10	4	7	5	16	4	8	5	17	4	8	6	18
Northumberland	4	1	1	6	4	1	1	6	8	2	2	12	8	2	2	12	8	3	3	14
Perry	1	0	0	1	1	0	0	1	1	1	0	2	1	1	0	2	1	1	0	2
Philadelphia	363	150	114	627	400	154	120	674	636	255	221	1,112	656	261	231	1,148	676	271	247	1,194
Pike	0	0	0	0	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2
Potter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schuylkill	9	1	4	14	13	1	4	18	18	4	4	26	18	4	5	27	18	4	6	28
Snyder	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	1
Somerset	1	0	1	2	2	0	1	3	4	0	1	5	4	1	1	6	6	1	1	8
Sullivan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Susquehanna	0	1	0	1	0	1	0	1	3	2	0	5	3	2	0	5	3	2	0	5
Tioga	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	1	0	3

County Level: Children Tested and Confirmed Elevated – By age, first confirmed elevated blood lead level and county of residence

County	The number of Pennsylvania children tested and confirmed elevated in 2009 by age, confirmed elevated blood lead level and county of residence																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total
Union	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0	2	2
Venango	7	0	1	8	7	0	1	8	8	1	1	10	8	1	1	10	9	1	1	11
Warren	4	0	0	4	4	0	0	4	4	1	0	5	4	1	0	5	4	1	0	5
Washington	3	0	2	5	3	0	2	5	3	0	4	7	3	0	5	8	3	0	5	8
Wayne	2	1	1	4	2	1	2	5	3	1	2	6	3	1	2	6	3	1	2	6
Westmoreland	9	4	5	18	12	4	6	22	14	5	9	28	14	5	9	28	14	5	10	29
Wyoming	0	1	1	2	0	1	1	2	0	1	2	3	0	1	2	3	0	1	2	3
York	32	14	17	63	33	14	18	65	47	20	30	97	49	20	31	100	51	21	31	103
All 67 Counties	894	352	317	1,563	983	362	330	1,675	1,488	574	595	2,657	1,526	588	636	2,750	1,565	608	683	2,856

Pennsylvania children < 7 years of age, confirmed elevated in 2009, by first confirmed elevated lead level



County Level

Children tested and confirmed elevated in 2009 by:

- i) Age,**
- ii) Race, and**
- iii) County of Residence**

County Level: Children Tested and Confirmed Elevated – By age, race and county of residence

The number of Pennsylvania children tested and confirmed elevated in 2009 by age, race and county of residence

Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total.

County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
1 Adams	0	0	3	0	3	6	0	0	3	0	3	6	0	0	3	0	4	7	0	0	3	0	4	7	0	0	3	0	4	7
2 Allegheny	2	49	34	3	19	107	2	50	36	3	19	110	2	76	45	3	24	150	4	80	46	3	25	158	5	86	46	3	27	167
3 Armstrong	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	1	2	0	1	1	0	1	3	0	1	1	0	1	3
4 Beaver	0	0	2	0	5	7	0	1	3	0	8	12	0	2	7	0	8	17	0	2	7	0	8	17	0	2	7	0	8	17
5 Bedford	0	1	0	0	2	3	0	1	0	0	2	3	0	1	4	0	2	7	0	1	4	0	2	7	0	1	4	0	2	7
6 Berks	1	10	58	23	63	155	1	10	60	23	66	160	1	26	98	34	109	268	1	26	100	35	120	282	1	31	102	37	126	297
7 Blair	0	0	13	1	10	24	0	0	14	1	11	26	0	0	17	1	16	34	0	0	18	1	16	35	0	0	18	1	16	35
8 Bradford	0	0	1	0	2	3	0	0	1	0	2	3	0	0	3	0	3	6	0	0	3	0	3	6	0	0	3	0	3	6
9 Bucks	0	0	1	0	5	6	0	0	1	0	6	7	0	0	1	0	8	9	0	0	1	0	8	9	0	0	1	0	8	9
10 Butler	0	0	6	0	2	8	0	0	8	0	2	10	0	0	11	0	2	13	0	0	12	0	2	14	0	0	12	0	2	14
11 Cambria	0	0	9	1	2	12	0	0	10	1	2	13	0	1	14	1	3	19	0	1	15	1	3	20	0	1	16	1	3	21
12 Cameron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 Carbon	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	5	6	0	0	1	0	5	6	0	0	1	0	5	6
14 Centre	0	0	3	0	0	3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	5	0	0	5
15 Chester	0	0	4	1	6	11	0	0	4	1	6	11	0	0	8	1	7	16	0	0	9	1	7	17	0	0	9	1	8	18
16 Clarion	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
17 Clearfield	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	1	3	0	0	2	0	1	3	0	0	2	0	1	3
18 Clinton	0	0	2	0	1	3	0	0	2	0	1	3	0	0	3	0	1	4	0	0	3	0	1	4	0	0	3	0	1	4
19 Columbia	0	0	0	0	8	8	0	0	0	0	9	9	0	0	1	0	12	13	0	0	1	0	12	13	0	0	1	0	12	13
20 Crawford	0	0	2	0	2	4	0	0	2	0	2	4	0	0	6	0	2	8	0	0	6	0	2	8	0	0	6	0	2	8
21 Cumberland	0	0	0	0	5	5	0	0	0	0	5	5	0	1	1	0	5	7	0	1	1	0	5	7	0	1	1	0	6	8
22 Dauphin	2	8	10	0	23	43	2	8	10	0	23	43	2	30	18	0	32	82	2	33	18	0	32	85	2	33	18	0	33	86
23 Delaware	0	11	0	0	24	35	0	11	0	0	28	39	0	23	1	2	41	67	0	26	1	2	42	71	0	26	1	2	43	72
24 Elk	0	0	2	0	0	2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	5	0	0	5
25 Erie	1	16	17	0	13	47	1	16	20	0	15	52	1	34	33	0	18	86	1	36	33	0	19	89	1	38	33	0	19	91
26 Fayette	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3	0	2	5	0	0	4	0	2	6	0	0	6	0	2	8
27 Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 Franklin	0	0	2	0	4	6	0	0	2	0	4	6	0	0	6	0	6	12	0	0	6	0	6	12	0	0	6	0	7	13

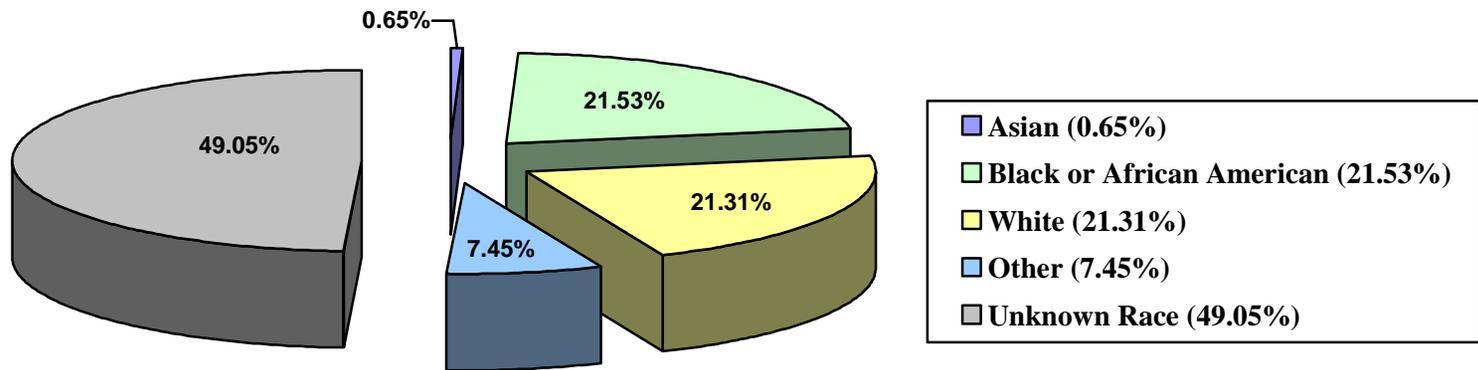
County Level: Children Tested and Confirmed Elevated – By age, race and county of residence

The number of Pennsylvania children tested and confirmed elevated in 2009 by age, race and county of residence																															
Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total.																															
County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)						
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	
29	Fulton	0	0	2	0	1	3	0	0	2	0	1	3	0	0	2	0	1	3	0	0	2	0	1	3	0	0	2	0	1	3
30	Greene	0	0	4	0	0	4	0	0	4	0	0	4	0	0	5	0	0	5	0	0	5	0	0	5	0	0	6	0	0	6
31	Huntingdon	0	0	4	0	1	5	0	0	4	0	1	5	0	0	8	0	1	9	0	0	8	0	1	9	0	0	8	0	1	9
32	Indiana	0	0	5	0	3	8	0	0	6	0	3	9	0	0	6	0	3	9	0	0	6	0	3	9	0	0	6	0	4	10
33	Jefferson	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	1	2	0	0	1	0	1	2	0	0	1	0	1	2
34	Juniata	0	0	0	0	1	1	0	0	0	0	1	1	0	0	2	0	1	3	0	0	2	0	1	3	0	0	2	0	1	3
35	Lackawanna	0	3	3	1	17	24	0	3	3	1	17	24	0	5	3	1	23	32	0	5	3	1	23	32	0	5	3	1	25	34
36	Lancaster	0	3	25	0	36	64	0	3	26	0	41	70	1	7	47	0	51	106	1	8	48	0	52	109	1	8	48	0	54	111
37	Lawrence	0	3	1	1	1	6	0	3	1	1	1	6	0	3	3	1	2	9	0	3	4	1	2	10	0	3	4	1	2	10
38	Lebanon	0	0	7	0	4	11	0	0	7	0	4	11	0	0	16	0	11	27	0	0	16	0	12	28	0	0	16	0	14	30
39	Lehigh	0	0	5	0	33	38	0	0	5	0	34	39	0	4	10	0	45	59	0	4	10	0	46	60	0	4	10	0	46	60
40	Luzerne	2	2	10	2	11	27	2	2	10	2	12	28	3	4	19	2	20	48	3	4	19	2	21	49	3	4	19	2	22	50
41	Lycoming	0	5	7	0	5	17	0	5	8	0	5	18	0	8	13	1	6	28	0	8	14	1	6	29	0	9	14	1	6	30
42	McKean	0	0	1	0	5	6	0	0	1	0	5	6	0	0	1	0	6	7	0	0	1	0	6	7	0	0	1	0	6	7
43	Mercer	0	2	10	0	1	13	0	2	11	0	1	14	0	2	15	0	1	18	0	2	15	0	1	18	0	2	15	0	1	18
44	Mifflin	0	0	1	0	1	2	0	0	1	0	1	2	0	0	1	0	2	3	0	0	1	0	2	3	0	0	1	0	2	3
45	Monroe	0	0	1	0	2	3	0	0	1	0	3	4	0	1	1	0	3	5	0	1	1	0	3	5	0	1	1	0	4	6
46	Montgomery	0	6	4	0	46	56	0	8	5	0	50	63	0	14	11	1	67	93	0	15	12	1	68	96	0	15	12	1	69	97
47	Montour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1
48	Northampton	0	1	2	0	7	10	0	1	2	0	7	10	0	1	3	0	12	16	0	1	3	0	13	17	0	1	3	0	14	18
49	Northumberland	0	0	1	0	5	6	0	0	1	0	5	6	0	0	1	0	11	12	0	0	1	0	11	12	0	0	2	0	12	14
50	Perry	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
51	Philadelphia	4	118	4	79	422	627	4	126	5	86	453	674	6	290	10	146	660	1,112	6	308	10	154	670	1,148	6	327	13	159	689	1,194
52	Pike	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	
53	Potter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Schuylkill	0	0	5	0	9	14	0	0	6	0	12	18	0	1	8	0	17	26	0	1	8	0	18	27	0	1	9	0	18	28
55	Snyder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	

County Level: Children Tested and Confirmed Elevated – By age, race and county of residence

The number of Pennsylvania children tested and confirmed elevated in 2009 by age, race and county of residence																															
Race Key: A = Asian, B = Black or African American, W = White, O = Other, U = Unknown, Tot = Total.																															
County	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)						
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	
56	Somerset	0	0	0	0	2	2	0	0	1	0	2	3	0	0	2	0	3	5	0	0	2	0	4	6	0	0	4	0	4	8
57	Sullivan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
58	Susquehanna	0	0	1	0	0	1	0	0	1	0	0	1	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5	0	5	
59	Tioga	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	3	3
60	Union	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	2	2
61	Venango	0	0	4	0	4	8	0	0	4	0	4	8	0	0	6	0	4	10	0	0	6	0	4	10	0	0	7	0	4	11
62	Warren	0	0	3	0	1	4	0	0	3	0	1	4	0	0	4	0	1	5	0	0	4	0	1	5	0	0	4	0	1	5
63	Wash.	0	0	4	0	1	5	0	0	4	0	1	5	0	0	5	0	2	7	0	0	6	0	2	8	0	0	6	0	2	8
64	Wayne	0	0	1	0	3	4	0	0	2	0	3	5	0	0	3	0	3	6	0	0	3	0	3	6	0	0	3	0	3	6
65	Westmoreland	0	1	5	0	12	18	0	1	7	0	14	22	0	1	12	0	15	28	0	1	12	0	15	28	0	1	13	0	15	29
66	Wyoming	0	0	2	0	0	2	0	0	2	0	0	2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
67	York	0	12	31	1	19	63	0	12	32	1	20	65	0	23	47	2	25	97	0	24	49	2	25	100	0	24	50	2	27	103
All 67 Counties		12	251	327	113	860	1,563	12	263	354	120	926	1,675	16	558	570	196	1,317	2,657	18	592	586	205	1,349	2,750	19	625	604	212	1,396	2,856

PA Children < 7 Years Reported Confirmed Elevated in 2009 by Race
 [Universe: All Confirmed Elevated Children reported to PA-NEDSS]



County Level: Percentages – Tested Children (< 7 Years) Confirmed Elevated- By County of Residence

The percentage of Pennsylvania’s tested children, less than seven (7) years of age, confirmed elevated in 2009 by county of residence															
PA County	Total Children Tested	Total Confirmed Elevated	Percent Confirmed Elevated ²⁷	PA County	Total Children Tested	Total Confirmed Elevated	Percent Confirmed Elevated	PA County	Total Children Tested	Total Confirmed Elevated	Percent Confirmed Elevated	PA County	Total Children Tested	Total Confirmed Elevated	Percent Confirmed Elevated
1 Adams	938	7	.75%	30 Greene	371	5	1.35%	59 Tioga	337	2	.59%				
2 Allegheny	10,940	158	1.44%	31 Huntingdon	526	9	1.71%	60 Union	543	2	.37%				
3 Armstrong	767	3	.39%	32 Indiana	859	9	1.05%	61 Venango	616	10	1.62%				
4 Beaver	1,496	17	1.14%	33 Jefferson	605	2	.33%	62 Warren	391	5	1.28%				
5 Bedford	477	7	1.47%	34 Juniata	223	3	1.35%	63 Washington	1,344	8	.60%				
6 Berks	5,625	282	5.01%	35 Lackawanna	2,332	32	1.37%	64 Wayne	477	6	1.26%				
7 Blair	1,451	35	2.41%	36 Lancaster	3,707	109	2.94%	65 Westmoreland	2,542	28	1.10%				
8 Bradford	605	6	.99%	37 Lawrence	508	10	1.97%	66 Wyoming	184	3	1.63%				
9 Bucks	3,432	9	.26%	38 Lebanon	1,278	28	2.19%	67 York	4,624	100	2.16%				
10 Butler	1,315	14	1.06%	39 Lehigh	4,052	60	1.48%	All 67 Counties			145,996	2,750	1.88%		
11 Cambria	1,181	20	1.69%	40 Luzerne	3,578	49	1.37%	<p>Note: Percents based on a low numbers of children confirmed elevated hold potential for a high Standard of Error (SE), and are less reliable as representing the general population.</p>							
12 Cameron	68	0	0%	41 Lycoming	1,165	29	2.49%								
13 Carbon	700	6	.86%	42 McKean	821	7	.85%								
14 Centre	854	4	.47%	43 Mercer	929	18	1.94%								
15 Chester	3,107	17	.55%	44 Mifflin	552	3	.54%								
16 Clarion	382	1	.26%	45 Monroe	1,672	5	.30%								
17 Clearfield	1,082	3	.28%	46 Montgomery	6,864	96	1.40%								
18 Clinton	472	4	.85%	47 Montour	161	1	.62%								
19 Columbia	483	13	2.69%	48 Northampton	2,357	17	.72%								
20 Crawford	814	8	.98%	49 Northumberland	1,039	12	1.15%								
21 Cumberland	1,186	7	.59%	50 Perry	428	2	.47%								
22 Dauphin	3,890	85	2.19%	51 Philadelphia	40,519	1,148	2.83%								
23 Delaware	6,235	71	1.14%	52 Pike	621	2	.32%								
24 Elk	276	4	1.45%	53 Potter	329	0	0%								
25 Erie	4,812	89	1.85%	54 Schuylkill	1,670	27	1.62%								
26 Fayette	1,728	6	.35%	55 Snyder	307	1	.33%								
27 Forest	44	0	0%	56 Somerset	590	6	1.02%								
28 Franklin	1,968	12	.61%	57 Sullivan	35	0	0%								
29 Fulton	224	3	1.34%	58 Susquehanna	288	5	1.74%								

County Level

U.S. Census Bureau, 2000 Census Population by County:

- i) Pennsylvania County**
- ii) Age [total population and children less than seven (7) years]**

County Level: Population

	Pennsylvania County	2000 Census Population Total Population	Statewide Ranking based on Highest Total Population	2000 Census Population Children Less Than Seven (7) Years	Statewide Ranking based on Highest Population < 7	Children Less Than Seven (7) Years as a Percentage of Total Population:	Statewide Ranking based on Highest Percentage < 7
1	Adams	91,292	33	7,677	33	8.41%	23-tie
2	Allegheny	1,281,666	2	101,305	2	7.90%	39
3	Armstrong	72,392	38	5,771	38	7.97%	36
4	Beaver	181,412	19	14,366	20	7.92%	38
5	Bedford	49,984	43	4,203	43	8.41%	23-tie
6	Berks	373,638	9	32,929	9	8.81%	14-tie
7	Blair	129,144	27	10,535	25	8.16%	26
8	Bradford	62,761	40	5,475	39	8.72%	17
9	Bucks	597,635	4	54,819	4	9.17%	6
10	Butler	174,083	20	15,804	19	9.08%	8
11	Cambria	152,598	21	11,280	24	7.39%	50
12	Cameron	5,974	66	466	65	7.80%	42
13	Carbon	58,802	41	4,312	42	7.33%	52
14	Centre	135,758	25	8,825	30	6.50%	58
15	Chester	433,501	7	41,502	7	9.57%	2
16	Clarion	41,765	53	3,216	53	7.70%	45
17	Clearfield	83,382	36	6,518	35	7.82%	40-tie
18	Clinton	37,914	57	2,962	57	7.81%	41
19	Columbia	64,151	39	4,496	41	7.01%	55
20	Crawford	90,366	34	7,713	32	8.54%	22
21	Cumberland	213,674	16	16,632	16	7.78%	43
22	Dauphin	251,798	15	21,751	14	8.64%	20
23	Delaware	550,864	5	49,777	5	9.04%	9
24	Elk	35,112	59	2,845	58	8.10%	30
25	Erie	280,843	13	25,206	12	8.98%	11-tie
26	Fayette	148,644	23	11,910	22	8.01%	34
27	Forest	4,946	67	271	67	5.48%	60
28	Franklin	129,313	26	11,610	23	8.98%	11-tie
29	Fulton	14,261	64	1,321	64	9.26%	4
30	Greene	40,672	56	3,078	55	7.57%	47

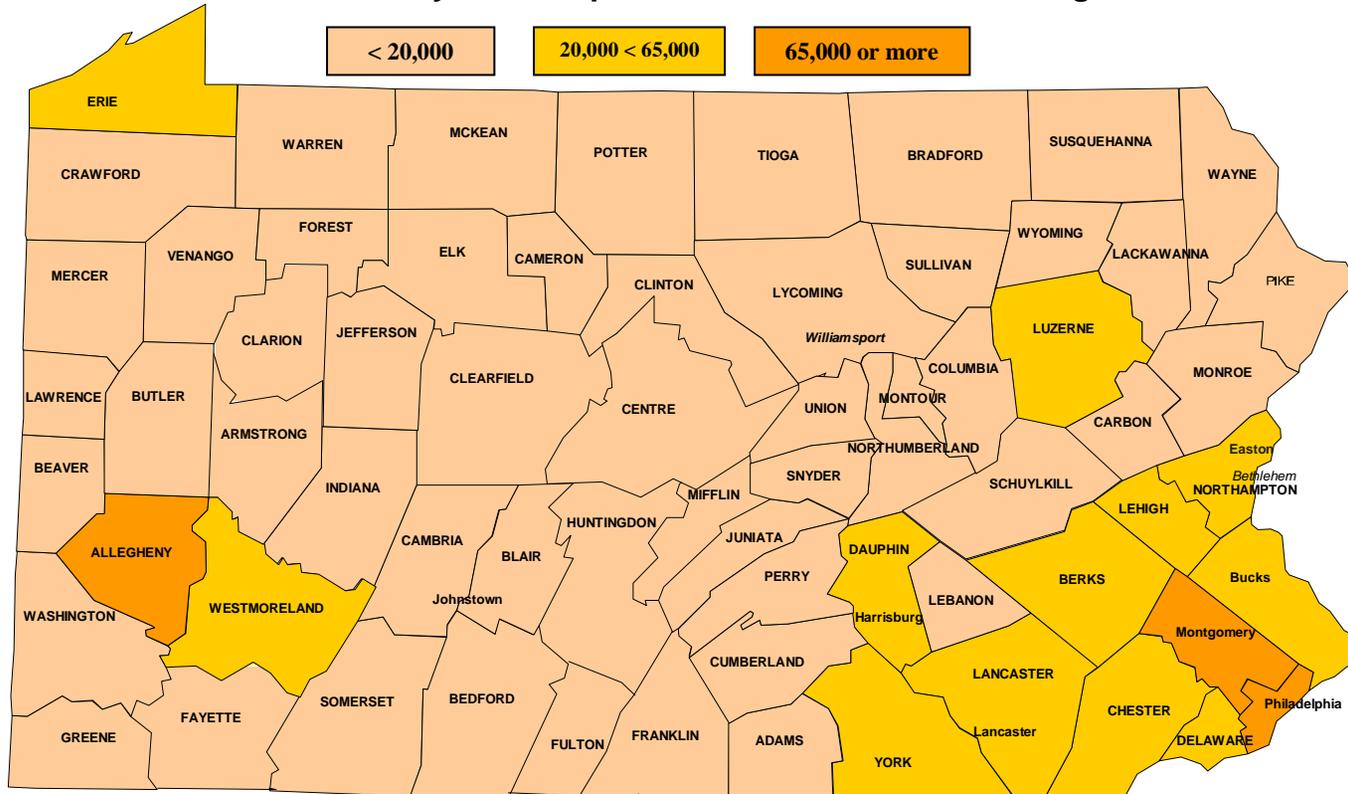
County Level: Population

	Pennsylvania County	2000 Census Population Total Population	Statewide Ranking based on Highest Total Population	2000 Census Population Children Less Than Seven (7) Years	Statewide Ranking based on Highest Population < 7	Children Less Than Seven (7) Years as a Percentage of Total Population:	Statewide Ranking based on Highest Percentage < 7
31	Huntingdon	45,586	49	3,391	52	7.44%	49
32	Indiana	89,605	35	6,468	36	7.22%	53
33	Jefferson	45,932	48	3,704	48	8.06%	32
34	Juniata	22,821	61	2,177	61	9.54%	3
35	Lackawanna	213,295	17	16,151	18	7.57%	47-tie
36	Lancaster	470,658	6	46,794	6	9.94%	1
37	Lawrence	94,643	31	7,761	31	8.20%	25-tie
38	Lebanon	120,327	28	10,456	26	8.69%	18
39	Lehigh	312,090	12	27,064	11	8.67%	19
40	Luzerne	319,250	11	22,842	13	7.15%	54
41	Lycoming	120,044	30	9,520	29	7.93%	37
42	McKean	45,936	47	3,591	49	7.82%	40-tie
43	Mercer	120,293	29	9,604	28	7.98%	35-tie
44	Mifflin	46,486	45	4,132	44	8.89%	13
45	Monroe	138,687	24	12,664	21	9.13%	7
46	Montgomery	750,097	3	66,999	3	8.93%	12
47	Montour	18,236	62	1,530	63	8.39%	24
48	Northampton	267,066	14	21,746	15	8.14%	27
49	Northumberland	94,556	32	6,957	34	7.36%	51
50	Perry	43,602	51	3,834	47	8.79%	15
51	Philadelphia	1,517,550	1	140,177	1	9.24%	5
52	Pike	46,302	46	4,047	45	8.74%	16
53	Potter	18,080	63	1,629	62	9.01%	10
54	Schuylkill	150,336	22	10,452	27	6.95%	56
55	Snyder	37,546	58	2,998	56	7.98%	35-tie
56	Somerset	80,023	37	6,212	37	7.76%	44
57	Sullivan	6,556	65	395	66	6.03%	59
58	Susquehanna	42,238	52	3,465	51	8.20%	25-tie
59	Tioga	41,373	55	3,175	54	7.67%	46
60	Union	41,624	54	2,747	59	6.60%	57
61	Venango	57,565	42	4,676	40	8.12%	29

County Level: Population

Pennsylvania County	2000 Census Population Total	Statewide Ranking based on Highest Total Population	2000 Census Population Children Less Than Seven (7) Years	Statewide Ranking based on Highest Population < 7	Children Less Than Seven (7) Years as a Percentage of Total Population:	Statewide Ranking based on Highest Percentage < 7
62 Warren	43,863	50	3,517	50	8.02%	33
63 Washington	202,897	18	16,370	17	8.07%	31
64 Wayne	47,722	44	3,878	46	8.13%	28
65 Westmoreland	369,993	10	27,722	10	7.49%	48
66 Wyoming	28,080	60	2,413	60	8.59%	21
67 York	381,751	8	33,622	8	8.81%	14-tie
All 67 Counties	12,281,054		1,043,455		8.50%	

Pennsylvania Population Children < 7 Years of Age



Note: Ten (10) of Pennsylvania's sixty-seven (67) counties account for almost half (49.40%) of the Commonwealth's total population of children less than seven (7) years of age. Those southeastern counties are: York, Lancaster, Chester, Delaware, Montgomery, Philadelphia, Bucks, Berks, Lehigh and Northampton

City Level

Children tested for Lead in 2009 by:

- i) Age**
- ii) Maximum Blood Lead Level**
- iii) City of Residence - Twenty (20) Selected Cities**

City Level: Children reported to have been tested for lead in 2009 by age, maximum blood lead level and city of residence

Selected Cities	The number of Pennsylvania children tested for lead in 2009 by age, maximum blood lead level and city of residence:																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	Lows 0-9	Highs ≥ 10	Nulls	Total Children	Lows 0-9	Highs ≥ 10	Nulls	Total Children	Lows 0-9	Highs ≥ 10	Nulls	Total Children	Lows 0-9	Highs ≥ 10	Nulls	Total Children	Lows 0-9	Highs ≥ 10	Nulls	Total Children
Allentown	1,283	67	1	1,351	1,813	71	1	1,885	2,452	93	3	2,548	2,498	94	3	2,595	2,563	94	3	2,660
Altoona	335	29	14	378	629	37	23	689	740	44	24	808	749	44	24	817	763	44	24	831
Bethlehem	690	25	6	721	770	25	6	801	990	33	9	1,032	1,004	33	9	1,046	1,031	35	9	1,075
Chester	495	20	9	524	598	22	11	631	1,306	58	40	1,404	1,471	64	55	1,590	1,568	71	60	1,699
Easton	557	18	4	579	691	22	4	717	905	26	5	936	922	26	5	953	961	26	5	992
Erie	1,703	84	1	1,788	2,362	94	1	2,457	3,310	147	1	3,458	3,451	154	2	3,607	3,644	160	2	3,806
Harrisburg	1,121	71	24	1,216	1,622	78	30	1,730	2,609	128	38	2,775	2,682	130	39	2,851	2,744	130	40	2,914
Johnstown	221	15	0	236	463	19	1	483	594	26	2	622	597	27	2	626	608	28	2	638
Lancaster	878	49	2	929	1,287	55	4	1,346	1,748	81	5	1,834	1,779	82	5	1,866	1,876	83	5	1,964
Lebanon	408	14	3	425	586	22	4	612	858	34	4	896	872	34	4	910	935	36	4	975
Levittown	204	1	0	205	350	1	0	351	430	1	0	431	437	1	0	438	451	1	0	452
Norristown	644	37	0	681	918	39	0	957	1,413	52	1	1,466	1,473	53	1	1,527	1,535	53	1	1,589
Phila. ²⁸	19,267	822	4	20,093	27,375	921	12	28,308	37,743	1,391	17	39,151	39,073	1,429	17	40,519	41,782	1,476	17	43,275
Pittsburgh	3,175	120	34	3,329	4,221	130	46	4,397	5,607	176	54	5,837	5,671	179	55	5,905	5,808	185	58	6,051
Reading	1,959	169	8	2,136	2,398	181	11	2,590	3,741	283	16	4,040	3,943	292	16	4,251	4,818	306	17	5,141
Scranton	403	38	3	444	699	45	3	747	1,095	51	3	1,149	1,110	51	3	1,164	1,180	53	3	1,236
State Coll.	73	1	1	75	239	2	3	244	255	2	4	261	258	2	4	264	266	2	6	274
Wilkes-Barre	240	8	1	249	460	9	1	470	753	12	1	766	771	12	1	784	788	12	1	801
Williamsport	247	18	1	266	416	24	1	441	557	35	2	594	564	35	2	601	589	36	2	627
York	1,047	110	8	1,165	1,609	123	11	1,743	2,380	211	11	2,602	2,497	221	12	2,730	2,585	227	12	2,824
Total All 20 Cities	34,950	1,716	124	36,790	49,506	1,920	173	51,599	69,486	2,884	240	72,610	71,822	2,963	259	75,044	76,495	3,058	271	79,824

City Level

Children tested for Lead in 2009 by:

- i) Age**
- ii) Race, and**
- iii) City of Residence - Twenty (20) Selected Cities**

City Level: Children reported to have been tested for lead in 2009 by age, race and city of residence

Selected Cities	The number of Pennsylvania children tested for lead in 2009 by age, race and city of residence:																													
	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
Allentown	0	32	105	21	1,193	1,351	2	37	125	22	1,699	1,885	2	76	329	52	2,089	2,548	2	78	342	54	2,119	2,595	3	82	358	55	2,162	2,660
Altoona	0	10	76	2	290	378	0	12	120	2	555	689	0	22	161	5	620	808	0	22	167	6	622	817	0	23	173	6	629	831
Bethlehem	1	18	51	3	648	721	1	18	59	3	720	801	1	34	103	13	881	1,032	1	36	107	13	889	1,046	1	37	108	14	915	1,075
Chester	1	251	11	6	255	524	1	322	13	6	289	631	3	799	40	23	539	1,404	3	947	46	26	568	1,590	3	997	47	29	623	1,699
Easton	2	12	36	2	527	579	4	15	48	2	648	717	6	29	69	5	827	936	7	29	70	5	842	953	7	29	77	5	874	992
Erie	13	325	806	4	640	1,788	17	422	1,084	4	930	2,457	29	693	1,453	13	1,270	3,458	30	734	1,506	14	1,323	3,607	33	796	1,573	14	1,390	3,806
Harrisburg	10	64	60	6	1,076	1,216	11	77	68	6	1,568	1,730	38	404	198	22	2,113	2,775	39	421	205	22	2,164	2,851	39	436	213	22	2,204	2,914
Johnstown	0	17	38	1	180	236	0	29	66	2	386	483	0	54	140	2	426	622	0	54	143	3	426	626	0	55	154	3	426	638
Lancaster	1	39	159	3	727	929	2	43	175	3	1,123	1,346	3	91	311	19	1,410	1,834	3	93	314	19	1,437	1,866	6	98	320	19	1,521	1,964
Lebanon	2	1	36	0	386	425	2	1	46	0	563	612	4	8	156	5	723	896	4	8	159	5	734	910	4	11	182	5	773	975
Levittown	1	2	28	0	174	205	1	4	44	0	302	351	2	6	51	0	372	431	2	6	52	0	378	438	3	6	54	0	389	452
Norristown	1	28	17	7	628	681	4	29	21	8	895	957	6	99	42	22	1,297	1,466	6	100	43	29	1,349	1,527	6	108	43	30	1,402	1,589
Phila. ²⁸	166	1,871	437	1,791	15,828	20,093	208	2,281	650	2,255	22,914	28,308	326	4,394	803	3,154	30,474	39,151	330	4,644	816	3,252	31,477	40,519	351	5,004	842	3,381	33,697	43,275
Pittsburgh	95	1,097	1,174	30	933	3,329	122	1,291	1,677	32	1,275	4,397	186	1,946	2,161	49	1,495	5,837	186	1,975	2,187	50	1,507	5,905	193	2,032	2,241	52	1,533	6,051
Reading	7	106	486	102	1,435	2,136	9	138	561	127	1,755	2,590	11	260	832	230	2,707	4,040	11	273	873	249	2,845	4,251	13	339	1,037	292	3,460	5,141
Scranton	2	23	47	11	361	444	2	26	62	11	646	747	5	89	171	32	852	1,149	5	89	175	32	863	1,164	5	95	195	33	908	1,236
State Coll.	2	1	7	0	65	75	4	2	29	0	209	244	5	2	33	0	221	261	5	2	35	0	222	264	5	2	39	0	228	274
Wilkes-Barre	1	25	60	4	159	249	1	29	69	4	367	470	6	96	160	12	492	766	6	99	168	12	499	784	6	100	178	12	505	801
Williamsport	1	49	122	5	89	266	1	62	189	7	182	441	1	103	268	10	212	594	1	105	269	10	216	601	1	108	287	10	221	627
York	4	169	235	18	739	1,165	4	198	282	20	1,239	1,743	12	496	574	71	1,449	2,602	12	541	608	81	1,488	2,730	13	564	630	82	1,535	2,824
Total All 20 Cities	310	4,140	3,991	2,016	26,333	36,790	396	5,036	5,388	2,514	38,265	51,599	646	9,701	8,055	3,739	50,469	72,610	653	10,256	8,285	3,882	51,968	75,044	692	10,922	8,751	4,064	55,395	79,824

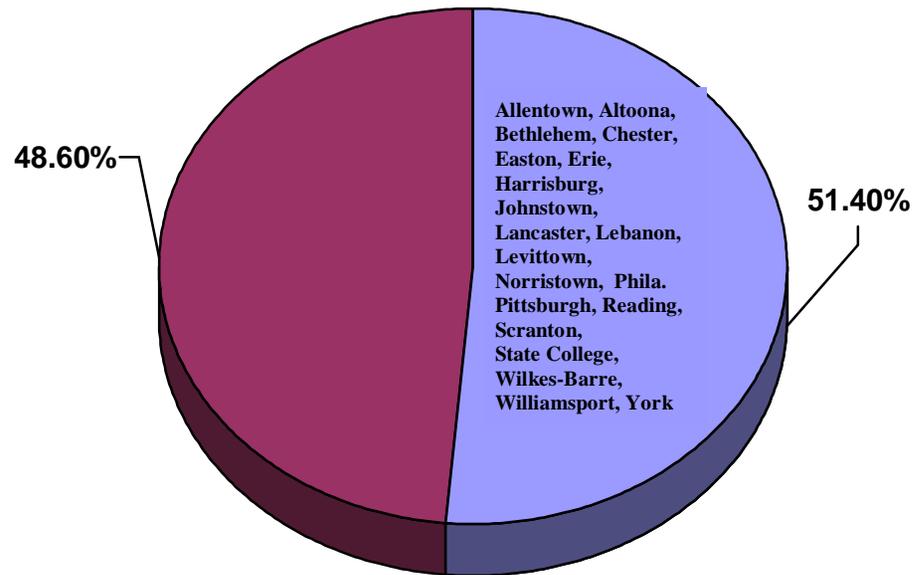
City Level: Percentages - Children (< 7 Years) Tested for Lead - By City of Residence (for 20 selected cities only)

The percentage of Pennsylvania children, less than seven (7) years of age, tested for lead in 2009 by city of residence (for 20 selected cities)			
Selected Cities	Total Children Tested	2000 Census Population	Percent Tested
Allentown	2,595	10,489	24.74%
Altoona	817	4,392	18.60%
Bethlehem	1,046	5,440	19.23%
Chester	1,590	4,345	36.59%
Easton	953	2,268	42.02%
Erie	3,607	10,479	34.42%
Harrisburg	2,851	5,518	51.67%
Johnstown	626	2,127	29.43%
Lancaster	1,866	6,049	30.85%
Lebanon	910	2,474	36.78%
Levittown	438	Levittown CDP 4,878	8.98%
Norristown	1,527	Norristown Borough 3,003	50.85%
Philadelphia ²⁸	40,519	140,177	28.91%
Pittsburgh	5,905	25,028	23.59%
Reading	4,251	9,829	43.25%
Scranton	1,164	5,536	21.03%
State College	264	State College Borough 946	27.91%
Wilkes-Barre	784	2,918	26.87%
Williamsport	601	2,693	22.32%
York	2,730	4,628	58.99%
Total All 20 Cities	75,044	253,217	29.64%

City Level: Percent of children tested living in twenty (20) selected cities

	Children Living:			Percent of Total Children Tested Statewide Living in these 20 Cities
	In Pennsylvania, but outside twenty (20) Selected Cities	In Twenty (20) Selected PA Cities (Allentown, Altoona, Bethlehem, Chester, Easton, Erie, Harrisburg, Johnstown, Lancaster, Lebanon, Levittown, Norristown, Philadelphia, Pittsburgh, Reading, Scranton, State College, Wilkes-Barre, Williamsport, York)	In Pennsylvania Statewide	
No. of Children (< 7 years of age) Tested for Lead in 2009 →	70,952	75,044	145,996	51.40%

Pennsylvania's 2009 Lead Tested Children (< 7 years of age)



City Level

Children tested and confirmed elevated in 2009 by:

- i) Age**
- ii) First Confirmed Elevated Blood Lead Level, and**
- iii) City of Residence – Twenty (20) selected cities**

City Level: Children Tested and Confirmed Elevated – By age, first confirmed elevated blood lead level and city of residence (for twenty selected cities)

City	The number of Pennsylvania children tested and confirmed elevated in 2009 by age, first confirmed elevated blood lead level and city of residence (20 selected cities)																			
	1&2 Years (12-35 months)				< 3 Years (0-35 months)				< 6 Years (0-71 months)				< 7 Years (0-83 months)				< 16 Years (0-191 months)			
	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total	10 < 15 µg/dL	15 < 20 µg/dL	≥ 20 µg/dL	Total
Allentown	14	12	5	31	15	12	5	32	20	18	11	49	20	18	12	50	20	18	12	50
Altoona	12	5	2	19	14	5	2	21	15	8	4	27	15	8	5	28	15	8	5	28
Bethlehem	1	1	0	2	1	1	0	2	3	3	1	7	3	4	1	8	3	4	2	9
Chester	2	3	3	8	2	3	3	8	5	3	9	17	5	4	11	20	5	4	11	20
Easton	1	3	4	8	1	3	4	8	1	4	4	9	1	4	4	9	1	4	4	9
Erie	24	11	6	41	27	12	6	45	42	19	12	73	44	19	13	76	45	19	14	78
Harrisburg	16	6	9	31	16	6	9	31	34	14	17	65	35	14	18	67	35	14	18	67
Johnstown	3	4	2	9	4	4	2	10	6	6	2	14	7	6	2	15	7	6	3	16
Lancaster	26	10	8	44	28	10	8	46	41	16	13	70	41	16	16	73	42	16	16	74
Lebanon	3	2	3	8	3	2	3	8	7	5	7	19	7	5	8	20	9	5	8	22
Levittown	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
Norristown	20	11	5	36	21	11	5	37	29	13	8	50	30	13	9	52	30	13	9	52
Philadelphia ²⁸	363	150	114	627	400	154	120	674	636	255	221	1,112	656	261	231	1,148	676	271	247	1,194
Pittsburgh	42	8	10	60	42	9	10	61	57	13	14	84	57	13	16	86	59	14	19	92
Reading	83	26	26	135	88	26	26	140	140	46	56	242	147	47	62	256	150	51	70	271
Scranton	9	4	7	20	9	4	7	20	11	5	8	24	11	5	8	24	12	5	9	26
State College	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
Wilkes-Barre	3	0	2	5	3	0	2	5	3	1	4	8	3	1	4	8	3	1	4	8
Williamsport	10	3	3	16	10	4	3	17	15	4	7	26	15	4	7	26	15	4	8	27
York	26	12	14	52	27	12	15	54	39	18	21	78	41	18	22	81	42	19	22	83
Total All 20 Cities	658	271	225	1,154	711	278	232	1,221	1,104	451	421	1,976	1,138	460	451	2,049	1,169	476	483	2,128

City Level

Children tested and confirmed elevated in 2009 by:

- i) Age**
- ii) Race, and**
- iii) City of Residence – Twenty (20) Selected Cities**

City Level: Children Tested and Confirmed Elevated – By age, race and city of residence (for twenty selected cities)

Selected Cities	The number of Pennsylvania children tested and confirmed elevated in 2009 by age, race and city of residence:																													
	1&2 Years (12-35 months)						< 3 Years (0-35 months)						< 6 Years (0-71 months)						< 7 Years (0-83 months)						< 16 Years (0-191 months)					
	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot	A	B	W	O	U	Tot
Allentown	0	0	3	0	28	31	0	0	3	0	29	32	0	4	8	0	37	49	0	4	8	0	38	50	0	4	8	0	38	50
Altoona	0	0	9	1	9	19	0	0	10	1	10	21	0	0	12	1	14	27	0	0	13	1	14	28	0	0	13	1	14	28
Bethlehem	0	0	0	0	2	2	0	0	0	0	2	2	0	0	1	0	6	7	0	0	1	0	7	8	0	0	1	0	8	9
Chester	0	5	0	0	3	8	0	5	0	0	3	8	0	13	0	0	4	17	0	16	0	0	4	20	0	16	0	0	4	20
Easton	0	1	1	0	6	8	0	1	1	0	6	8	0	1	1	0	7	9	0	1	1	0	7	9	0	1	1	0	7	9
Erie	1	16	11	0	13	41	1	16	13	0	15	45	1	34	20	0	18	73	1	36	20	0	19	76	1	38	20	0	19	78
Harrisburg	2	7	9	0	13	31	2	7	9	0	13	31	2	29	15	0	19	65	2	31	15	0	19	67	2	31	15	0	19	67
Johnstown	0	0	7	1	1	9	0	0	8	1	1	10	0	1	11	1	1	14	0	1	12	1	1	15	0	1	13	1	1	16
Lancaster	0	3	16	0	25	44	0	3	16	0	27	46	0	7	30	0	33	70	0	8	31	0	34	73	0	8	31	0	35	74
Lebanon	0	0	4	0	4	8	0	0	4	0	4	8	0	0	11	0	8	19	0	0	11	0	9	20	0	0	11	0	11	22
Levittown	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1
Norristown	0	4	1	0	31	36	0	5	1	0	31	37	0	7	2	0	41	50	0	8	2	0	42	52	0	8	2	0	42	52
Philadelphia ²⁸	4	118	4	79	422	627	4	126	5	86	453	674	6	290	10	146	660	1,112	6	308	10	154	670	1,148	6	327	13	159	689	1,194
Pittsburgh	2	27	16	1	14	60	2	28	16	1	14	61	2	43	20	1	18	84	3	44	20	1	18	86	4	48	20	1	19	92
Reading	1	8	50	21	55	135	1	8	52	21	58	140	1	24	85	32	100	242	1	24	87	33	111	256	1	29	89	35	117	271
Scranton	0	3	2	1	14	20	0	3	2	1	14	20	0	4	2	1	17	24	0	4	2	1	17	24	0	4	2	1	19	26
State College	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
Wilkes-Barre	0	2	2	0	1	5	0	2	2	0	1	5	0	2	3	0	3	8	0	2	3	0	3	8	0	2	3	0	3	8
Williamsport	0	5	7	0	4	16	0	5	8	0	4	17	0	8	12	1	5	26	0	8	12	1	5	26	0	9	12	1	5	27
York	0	11	29	1	11	52	0	11	30	1	12	54	0	21	40	1	16	78	0	22	42	1	16	81	0	22	43	1	17	83
Total All 20 Cities	10	210	172	105	657	1,154	10	220	181	112	698	1,221	12	488	284	184	1,008	1,976	13	517	291	193	1,035	2,049	14	548	298	200	1,068	2,128

City Level

U.S. Census Bureau, 2000 Census Population:

- i) Age - Total population & Children less than seven (7) years**
- ii) City of Residence - Twenty (20) Selected Cities**

	Twenty (20) Selected Cities	2000 Census Total Population	Twenty City Ranking based on Highest Total Population	2000 Census Population Children Less Than Seven (7) Years	Twenty City Ranking based On Highest Population Less Than Seven (7) Years	Children Less Than Seven (7) Years as a Percentage of Total Population:	Twenty City Ranking based on Highest Percentage of Population Less Than Seven (7) Years
1	Allentown	106,632	3	10,489	3	9.84%	8
2	Altoona	49,525	10	4,392	12	8.87%	13
3	Bethlehem	71,329	7	5,440	9	7.63%	16
4	Chester	36,854	15	4,345	13	11.79%	2
5	Easton	26,263	18	2,268	18	8.64%	15
6	Erie	103,725	4	10,479	4	10.10%	7
7	Harrisburg	49,100	11	5,518	8	11.24%	4
8	Johnstown	23,906	20	2,127	19	8.90%	12
9	Lancaster	56,347	8	6,049	6	10.74%	5
10	Lebanon	24,461	19	2,474	17	10.11%	6
11	Levittown (CDP)	53,692	9	4,878	10	9.09%	11
12	Norristown Borough	31,284	16	3,003	14	9.60%	9
13	Philadelphia ²⁸	1,517,550	1	140,177	1	9.24%	10
14	Pittsburgh	334,563	2	25,028	2	7.48%	17
15	Reading	81,201	5	9,829	5	12.10%	1
16	Scranton	76,415	6	5,536	7	7.24%	18
17	State College Borough	38,420	14	946	20	2.46%	20
18	Wilkes-Barre	43,123	12	2,918	15	6.77%	19
19	Williamsport	30,706	17	2,693	16	8.77%	14
20	York	40,889	13	4,628	11	11.32%	3
Total All 20 Cities		2,795,985		253,217		9.06%	

Disease Reports to PA-NEDSS in 2009

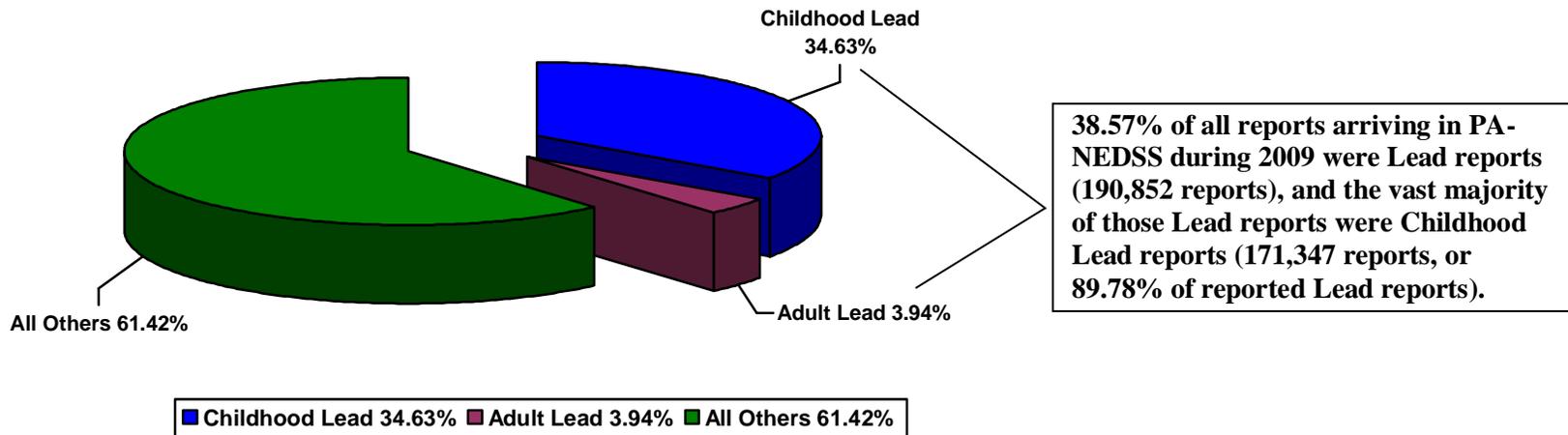
Disease Reports to PA-NEDSS During 2009

	Condition:			Total Reports for 2009
	Childhood Lead	Adult Lead	All Others (89 different initial conditions*)	
Number of reports that came into PA-NEDSS during calendar year 2009 (Reported Date = 1/1/2009 through 12/31/2009, inclusive) →	171,347	19,505	303,900	494,752
Percent of Total →	34.63%	3.94%	61.42%	100%
Condition of Lead (Childhood & Adult combined) →	38.57%			

* **All Others (89 different initial conditions) – Examples: Hepatitis C, Chlamydia Trachomatis Infection, Lyme Disease, Hepatitis B, Influenza A, Low CD4 Count (<200 or <14%), Syphilis, Gonorrhea, etc.**

****For confidentiality reasons, this figure excludes HIV/AIDS reports.**

Reports to PA-NEDSS in 2009



Childhood Lead Poisoning Prevention Program (CLPPP) Sub-grantees

Testing Activity in 2009

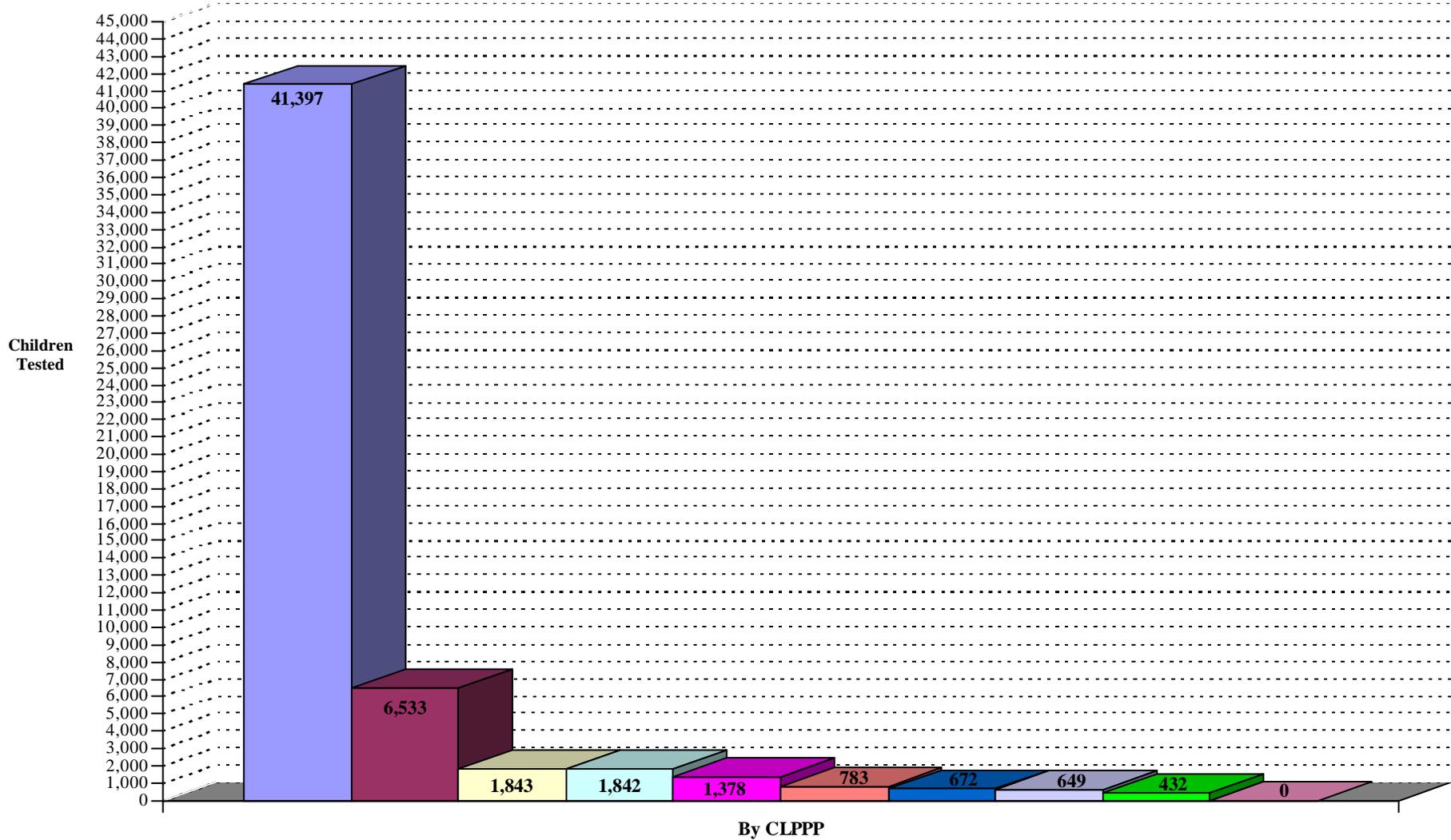
The number of children reported to have been tested by each CLPPP in 2009 by age ²⁹																
CLPPP		Fiscal Qtr 3 2008/2009 Jan 1 – Mar 31, 2009			Fiscal Qtr 4 2008/2009 Apr 1 – Jun 30, 2009			Fiscal Qtr 1 2009/2010 Jul 1 – Sep 30, 2009			Fiscal Qtr 2 2009/2010 Oct 1 – Dec 31, 2009			Calendar Year 2009 Jan 1 – Dec 31, 2009 TOTAL		
		Children <7	Children 7-15	Children <16	Children <7	Children 7-15	Children <16									
1	Allegheny County	452	0	452	504	1	505	412	2	414	474	2	476	1,842	5	1,847
2	Allentown	182	1	183	253	8	261	164	23	187	184	3	187	783	35	818
3	Bethlehem	167	0	167	117	0	117	86	0	86	62	0	62	432	0	432
4	Chester City	458	1	459	288	0	288	307	1	308	325	0	325	1,378	2	1,380
5	Chester County	251	0	251	56	2	58	251	0	251	91	0	91	649	2	651
6	Erie County	0	0	0	0	0	0									
7	Montgomery County	209	0	209	131	0	131	198	0	198	134	0	134	672	0	672
8	Philadelphia	11,047	588	11,635	11,479	622	12,101	8,094	55	8,149	10,777	587	11,364	41,397	1,852	43,249
9	Pinnacle	1,444	11	1,455*	1,117	31	1,148**	1,617	31	1,648***	2,355	32	2,387	6,533	105	6,638
10	York City	444	15	459	304	11	315	378	10	388	717	10	727	1,843	46	1,889
TOTAL		14,654	616	15,270	14,249	675	14,924	11,507	122	11,629	15,119	634	15,753	55,529	2,047	57,576

*This CLPPP had 12 Quantity Not Sufficient (QNS) test results during Fiscal Qtr. 3 of 2008/09, which would make the total children <16 years of age tested equal 1,467.

**This CLPPP had 6 QNS test results during Fiscal Qtr. 4 of 2008/09, which would make the total children <16 years of age tested equal 1,154.

***This CLPPP had 14 QNS test results during Fiscal Qtr. 1 of 2009/10, which would make the total children < 16 years of age tested equal 1,662.

CLPPP Self Reporting - Number of children, < 7 years of age, tested in 2009



- Philadelphia
- Pinnacle
- York City
- Allegheny
- Chester City
- Allentown
- Montgomery Co
- Chester Co
- Bethlehem
- Erie Co

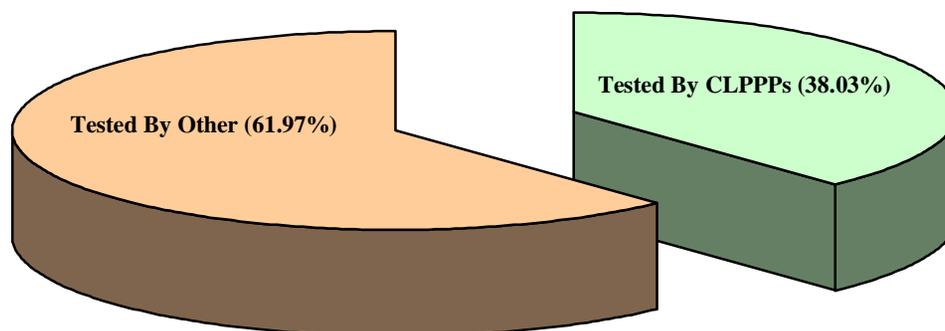
Testing Comparison – CLPPPs and Other Entities

Children tested for lead in 2009											
Total children reported to have been tested for lead in 2009 (to PA-NEDSS)			Total children reported to have been tested by CLPPPs in 2009*			Total children reported to have been tested by entities other than CLPPPs in 2009			Percent of total tested children tested by CLPPPs in 2009		
Children < 7 yrs	Children 7-15 yrs	Children < 16 yrs	Children < 7 yrs	Children 7-15 yrs	Children < 16 yrs	Children < 7 yrs	Children 7-15 yrs	Children < 16 yrs	Children < 7 yrs	Children 7-15 yrs	Children < 16 yrs
145,996	8,100	154,096	55,529	2,047	57,576	90,467	6,053	96,520	38.03%	25.27%	37.36%

* As reported by the CLPPPs (self-reporting)

Testing Comparison - Children (< 7 years) tested for lead in 2009

- Tested By CLPPPs (38.03%)
- Tested By Other (61.97%)



Endnotes

- ¹ **The Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS)** – The Pennsylvania Department of Health’s on-line disease surveillance system. It serves as the Department’s reporting and case management system for all reportable conditions. It has been utilized by the Childhood Lead Poisoning Prevention Program since the Spring of 2003.
- ² **Children less than seven (7) years of age (< 7 years)** – Children between 0 and 83 months of age at time of specimen collection.
- ³ **Confirmed Elevated Blood Lead Levels** - Those children identified to be confirmed elevated as defined by the Council for State and Territorial Epidemiologists (CSTE). CSTE defines Confirmed Elevated as follows: *A child with one venous blood specimen $\geq 10 \mu\text{g/dL}$, or any combination of two capillary and/or unknown blood specimens $\geq 10 \mu\text{g/dL}$ drawn within 12 weeks of each other.*
- ⁴ **Children less than three (3) years of age (< 3 years)** – Children between 0 and 35 months of age, inclusive, at time of specimen collection.
- ⁵ **Pennsylvania children tested for lead in 2009 by age and race** – Those children reported to be residing in Pennsylvania and having had a lead test done with a specimen collection date between 01/01/2009 and 12/31/2009, inclusive, by age and race. Source: The Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS), as of April 7, 2010.
- ⁶ **Pennsylvania children tested for lead in 2009 by age and maximum blood lead level** – Those children reported to be residing in Pennsylvania and having had a lead test done with a specimen collection date between 01/01/2009 and 12/31/2009, inclusive, by age and maximum blood lead level (bll). As children are often tested more than one time during a given time period, this table reflects those children tested by his/her single maximum (highest) blood lead level result during the calendar year. Source: The Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS), as of April 7, 2010.
- ⁷ **Pennsylvania children tested and confirmed elevated in 2009 by age and race** – Those children reported to be residing in Pennsylvania and having been tested and confirmed elevated during 2009, by age and race. Here, Confirmed Elevated reflects those children identified to have a reported confirmed elevated blood lead level during 2009. The Council for State and Territorial Epidemiologists (CSTE) defines Confirmed Elevated as follows: *A child with one venous blood specimen $\geq 10 \mu\text{g/dL}$, or any combination of two capillary and/or unknown blood specimens $\geq 10 \mu\text{g/dL}$ drawn within 12 weeks of each other.* Source: The Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS), as of April 7, 2010.
- ⁸ **Pennsylvania children tested and confirmed elevated in 2009 by age and categorized by first confirmed elevated blood lead level** – Those children reported to be residing in Pennsylvania and having been tested and confirmed elevated during 2009, by age and first reported confirmed blood lead level. Here, Confirmed Elevated reflects those children identified to have a reported confirmed elevated blood lead level during 2009. The Council for State and Territorial Epidemiologists (CSTE) defines Confirmed Elevated as follows: *A child with one venous blood specimen $\geq 10 \mu\text{g/dL}$, or any combination of two capillary and/or unknown blood specimens $\geq 10 \mu\text{g/dL}$ drawn within 12 weeks of each other.* Source: The Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS), as of April 7, 2010.
- ⁹ **Percent of Pennsylvania’s 2000 Census population tested for lead in 2009, by age cohort** = [(Total Children Tested for Lead) \div (Total 2000 Census Age Cohort Population) \times 100], rounded two (2) decimal places.
- ¹⁰ **Percent of Pennsylvania’s 2009 tested children confirmed elevated, by age cohort** = [(Total children confirmed elevated in 2009) \div (Total children tested in 2009) \times 100], rounded two (2) decimal places.
- ¹¹ **Geometric Mean** - The geometric mean, in mathematics, is a type of mean or average, which indicates the central tendency or typical value of a set of numbers. It is similar to the arithmetic mean, which is what most people think of with the word "average," except that instead of adding the set of numbers and then dividing the sum by the count of numbers in the set, n , the numbers are multiplied and then the n th root of the resulting product is taken. This measure is preferred when identifying a representative value for blood lead levels. The childhood lead datasets do contain outlying results that would skew the arithmetic mean, or “average” and, possibly lead to inaccurate conclusions. The geometric mean, therefore, serves as a better representative value of the dataset. For example, assume you have a dataset with two values in it, 2 and 8. The “average” (arithmetic mean) of those would be $(2+8)/2 = 5$. The geometric mean, however, is the square root of $[(2)\times(8)]$, which is 4. As you see, the “average” is 5, but the geometric mean is 4. Both are a type of “mean.” Both are a measure of central tendency. Calculating and utilizing the geometric mean is typically how blood lead levels are handled. Most articles indicating that childhood blood lead levels have dropped over time are referencing the geometric mean of those blood lead levels. And, as is typically done, we provided the geometric mean of maximum blood lead levels (highest values) within this report.
- ¹² **Population** – There are two sources of the data here. The first is the U.S. Census Bureau’s 2000 Census, Summary File 3 datasets, and the second is the Pennsylvania Department of Health’s Bureau of Health Statistics Final Population Estimates for July 1, 2008.

Endnotes

¹³ **Age of Housing** – Source: U.S. Census Bureau’s 2000 Census, Summary File 3 datasets.

¹⁴ **Total Housing Units** = Total Occupied Units + Total Vacant Units.

¹⁵ **Ranked by Total Renter Occupied Housing Units (Seventh)** - This ranking is based on the 2000 Census data. Note: According to the U.S. Census Bureau’s 2005 American Community Survey, Pennsylvania is ranked 6th in the nation for having the most renter-occupied housing units (behind: California, New York, Texas, Florida and Illinois). According to the U.S. Census Bureau’s 2005 American Community Survey, Pennsylvania has 1,386,092 renter-occupied housing units.

¹⁶ **Estimated Total Units Built Before 1978** - The estimated number of housing units built before 1978 was calculated as follows: (80%) x (Total Housing Units built 1970 through 1979).

¹⁷ **Estimated Percentage of Total Housing Units Built Pre-1978** = [(Estimated Total Units Built Pre-1978) ÷ (Total Housing Units)] X 100, rounded two (2) decimal places.

¹⁸ **Percentage of Total Housing Units Built Pre-1950** = [(Total Units Built Before 1950) ÷ (Total Housing Units)] X 100, rounded two (2) decimal places.

¹⁹ **Lows** – Those children reported to have been tested for lead during 2009 (specimen collection dates between 01/01/2009 and 12/31/2009, inclusive) with maximum blood lead levels (highest) below ten (10) micrograms per deciliter of blood.

²⁰ **Highs** – Those children reported to have been tested for lead during 2009 (specimen collection dates between 01/01/2009 and 12/31/2009, inclusive) with maximum blood lead levels (highest) at or above ten (10) micrograms per deciliter of blood.

²¹ **Nulls** – Those children reported to have been tested for lead during 2009 (specimen collection dates between 01/01/2009 and 12/31/2009, inclusive) with maximum blood lead levels (highest) reported null, or blank. Blank quantitative test results are reported for various reasons. In some situations, the null represents an analyzed blood sample (by the laboratory) that contained a very, very low amount of lead and a value, or number, could not be assigned given the low amount. These get reported with blank quantitative fields and “none detected” in the corresponding qualitative field. In other situations, these nulls represent those children whose blood samples were never analyzed at the laboratory for various reasons. For example, the tube holding the blood sample may have broken before an analysis could be performed. Or, for example, maybe the quantity of blood within the tube was “insufficient” for analysis. These children do need to be re-tested since nothing is known about their true blood lead levels.

²² **Total Children Tested** = (Total Children with Max BLLs that were Low) + (Total Children with Max BLLs that were High) + (Total Children with Max BLLs that were Null).

²³ **Total Children Tested** – Total children tested for lead in 2009 and residing in the reported County (at time of specimen collection).

²⁴ **Percent Tested** = [(Total Children Tested) ÷ (2000 Census Population)] X 100, rounded to two (2) decimal places.

²⁵ **Confirmed Elevated** - Those children identified to be confirmed elevated as defined by the Council for State and Territorial Epidemiologists (CSTE). CSTE defines Confirmed Elevated as follows: *A child with one venous blood specimen $\geq 10 \mu\text{g/dL}$, or any combination of two capillary and/or unknown blood specimens $\geq 10 \mu\text{g/dL}$ drawn within 12 weeks of each other.*

²⁶ **First Confirmed Elevated Blood Lead Level** – Children in this table were categorized by their first reported confirmed elevated blood lead level in 2009.

²⁷ **Percent Confirmed Elevated** = [(Total Children Confirmed Elevated) ÷ (Total Children Tested)] X 100, rounded two (2) decimal places.

²⁸ **Philadelphia City Totals** – Philadelphia County totals were used in place of Philadelphia City totals, because county totals are more accurate when reported to PA-NEDSS, and Philadelphia County and City are the same geographic area.

²⁹ **The number of children reported to have been tested by each CLPPP in 2009 by age** – As recorded and reported on the CLPPP quarterly reports (CLPPP self-reporting).