

## North Carolina Childhood Blood Lead Surveillance Data

The "**Target Population**" for children ages 1 and 2 is the sum of the number of live births from the previous two calendar years (Source: NC Vital Statistics data, State Center for Health Statistics).

"**Number Tested**" is an unduplicated count of children with blood lead samples collected during the calendar year (Source: NCLEAD, NC Childhood Blood Lead Surveillance System, Children's Environmental Health). "**Percent (%) Tested**" is the number of children tested divided by the target population and multiplied by 100.

Starting July 5, 2012, the CDC lowered its reference value to 5 micrograms per deciliter ( $\mu\text{g}/\text{dL}$ ). Therefore, surveillance tables for 2013 and later include a column for children tested with at least one result  $\geq 5 \mu\text{g}/\text{dL}$ , in addition to the column for children confirmed at 5-9  $\mu\text{g}/\text{dL}$ .

"**% Tested  $\geq 5 \mu\text{g}/\text{dL}$** " is the number of children tested with at least one result  $\geq 5 \mu\text{g}/\text{dL}$  divided by the total number tested and multiplied by 100.

Starting in 2013, children are counted as being "tested" for lead poisoning until they are confirmed to have a lead level  $\geq 5$  micrograms per deciliter ( $\mu\text{g}/\text{dL}$ ). After a child has a "**confirmed**" lead level, the child is no longer counted as "**tested**" during subsequent years. Blood lead tests after lead level confirmation are considered "**follow-up**" test results and are not counted in the surveillance tables.

Classification is based on the lower of the two test results. Children are counted only in the column of the highest level in which they were confirmed during the calendar year; therefore, the categories "**Confirmed 5-9  $\mu\text{g}/\text{dL}$** ," "**Confirmed 10-19  $\mu\text{g}/\text{dL}$** ," and "**Confirmed  $\geq 20 \mu\text{g}/\text{dL}$** " are mutually exclusive. Children are counted as having "**confirmed**" lead levels when they have two consecutive blood lead test results  $\geq 5 \mu\text{g}/\text{dL}$  within a six-month period, up until December 31, 2017. The second test result must be a diagnostic test, preferably a venous sample, sent to an outside reference laboratory for analysis.

The numbers reported for North Carolina Childhood Blood Lead Surveillance Data may vary somewhat from previous reports due to ongoing improvements in data quality and receipt of previously unreported test results from laboratories.

## 2013 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent (%) Tested	Number $\geq 5 \mu\text{g/dL}$	% Tested $\geq 5 \mu\text{g/dL}$	Number Tested**	Confirmed		
							5-9	10-19	$\geq 20$
ALAMANCE	3,431	1,863	54.3	58	3.1	2,347	9		
ALEXANDER	704	462	65.6	4	0.9	570			1
ALLEGHANY	172	138	80.2	3	2.2	211			
ANSON	527	280	53.1	7	2.5	426		1	
ASHE	486	352	72.4	3	0.9	413			
AVERY	285	263	92.3	1	0.4	294			
BEAUFORT	999	714	71.5	11	1.5	766	4	1	
BERTIE	381	249	65.4	11	4.4	312	6		
BLADEN	712	494	69.4	13	2.6	536	3	1	
BRUNSWICK	2,080	967	46.5	13	1.3	1,189	1		
BUNCOMBE	5,152	2,961	57.5	57	1.9	3,315	5	2	
BURKE	1,743	1,384	79.4	18	1.3	1,496	6		
CABARRUS	4,568	2,427	53.1	57	2.3	2,700	13	1	
CALDWELL	1,586	1,211	76.4	18	1.5	1,330	3		
CAMDEN	168	94	56.0	2	2.1	131		1	
CARTERET	1,235	851	68.9	22	2.6	909		1	1
CASWELL	434	193	44.5	5	2.6	213			
CATAWBA	3,600	2,459	68.3	33	1.3	2,854	10	2	1
CHATHAM	1,248	612	49.0	14	2.3	689	3	1	1
CHEROKEE	447	305	68.2	4	1.3	384	1	1	
CHOWAN	317	203	64.0	17	8.4	225	3	1	
CLAY	163	117	71.8	2	1.7	144	1		
CLEVELAND	2,183	1,539	70.5	31	2.0	2,025	12	3	
COLUMBUS	1,275	755	59.2	16	2.1	1,051	6		
CRAVEN	3,267	1,951	59.7	29	1.5	2,225	10	2	
CUMBERLAND	11,605	4,235	36.5	107	2.5	4,880	19	4	
CURRITUCK	441	175	39.7	4	2.3	260			
DARE	758	350	46.2	9	2.6	387	3		
DAVIDSON	3,413	2,163	63.4	51	2.4	2,447	7	1	
DAVIE	788	458	58.1	14	3.1	487	2		
DUPLIN	1,549	936	60.4	11	1.2	1,072	4		
DURHAM	8,552	4,167	48.7	61	1.5	5,044	10	4	
EDGECOMBE	1,331	941	70.7	38	4.0	1,156	9	3	
FORSYTH	9,205	5,804	63.1	84	1.4	6,186	25	2	4
FRANKLIN	1,327	787	59.3	29	3.7	880	1	2	
GASTON	5,078	2,004	39.5	35	1.7	2,279	8	1	
GATES	229	101	44.1	3	3.0	135			
GRAHAM	189	121	64.0			170			
GRANVILLE	1,116	556	49.8	4	0.7	600	2		
GREENE	453	266	58.7	5	1.9	354	4		
GUILFORD	12,213	9,141	74.8	146	1.6	10,181	27	5	1
HALIFAX	1,162	1,058	91.0	47	4.4	1,177	10		
HARNETT	3,533	1,874	53.0	45	2.4	2,273	10	1	
HAYWOOD	1,121	708	63.2	17	2.4	762	4		
HENDERSON	2,121	1,136	53.6	19	1.7	1,396	2	1	
HERTFORD	477	328	68.8	8	2.4	376			
HOKE	1,940	862	44.4	12	1.4	1,024	3		
HYDE	101	58	57.4	2	3.4	68			
IREDELL	3,474	1,819	52.4	27	1.5	2,089	8	1	1
JACKSON	761	491	64.5	2	0.4	551			
JOHNSTON	4,494	2,205	49.1	53	2.4	2,571	6	2	

\*Target Population is based on the sum of live births in 2011 and 2012.

Prepared by Children's Environmental Health  
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County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent (%) Tested	Number ≥ 5 µg/dL	% Tested ≥ 5 µg/dL	Number Tested**	Confirmed 5-9	Confirmed 10-19	Confirmed ≥ 20
JONES	207	148	71.5	5	3.4	164			
LEE	1,652	1,159	70.2	28	2.4	1,429	5		
LENOIR	1,313	859	65.4	29	3.4	1,195	11	2	
LINCOLN	1,539	581	37.8	5	0.9	775	2		
MACON	657	433	65.9	10	2.3	522	2	2	
MADISON	384	206	53.6	3	1.5	252	1		
MARTIN	471	256	54.4	5	2.0	362			
MCDOWELL	904	526	58.2	23	4.4	638	2	1	
MECKLENBURG	27,582	8,197	29.7	105	1.3	10,079	19	4	2
MITCHELL	282	194	68.8	2	1.0	240	1		
MONTGOMERY	678	609	89.8	18	3.0	700	7		1
MOORE	1,936	1,305	67.4	29	2.2	1,462	7	1	
NASH	2,199	1,651	75.1	84	5.1	1,962	21	2	1
NEW HANOVER	4,483	2,954	65.9	46	1.6	3,339	14	2	1
NORTHAMPTON	387	318	82.2	13	4.1	368	3		
ONslow	8,779	3,587	40.9	38	1.1	4,254	5		
ORANGE	2,598	1,106	42.6	18	1.6	1,250	2		
PAMLICO	187	142	75.9			165			
PASQUOTANK	963	432	44.9	12	2.8	498	4	1	
PENDER	1,204	783	65.0	12	1.5	970	2		
PERQUIMANS	259	157	60.6	6	3.8	173			
PERSON	778	247	31.7	6	2.4	307		1	
PITT	4,311	1,952	45.3	25	1.3	2,339	6		
POLK	255	103	40.4	2	1.9	186			
RANDOLPH	3,209	1,988	62.0	38	1.9	2,276	3	3	
RICHMOND	1,122	787	70.1	18	2.3	946	10	1	
ROBESON	3,720	2,744	73.8	65	2.4	3,221	20	2	
ROCKINGHAM	1,838	874	47.6	41	4.7	1,039	7	1	
ROWAN	3,114	1,562	50.2	34	2.2	1,888	6	1	
RUTHERFORD	1,377	507	36.8	16	3.2	829	5	1	
SAMPSON	1,698	1,322	77.9	34	2.6	1,455	13		
SCOTLAND	911	648	71.1	14	2.2	708	1	2	
STANLY	1,268	1,066	84.1	30	2.8	1,112	10		
STOKES	806	541	67.1	14	2.6	574	4		
SURRY	1,562	1,006	64.4	53	5.3	1,111	3	2	
SWAIN	390	229	58.7	7	3.1	265	2		
TRANSYLVANIA	506	377	74.5	11	2.9	490	2		1
TYRRELL	81	54	66.7	1	1.9	58	1		
UNION	4,763	1,706	35.8	15	0.9	2,157	6		
VANCE	1,150	577	50.2	16	2.8	680	3		
WAKE	24,767	10,515	42.5	138	1.3	12,009	25	1	1
WARREN	341	219	64.2	5	2.3	252		1	
WASHINGTON	264	182	68.9	11	6.0	219	2		
WATAUGA	709	582	82.1	4	0.7	677	1		
WAYNE	3,520	2,015	57.2	15	0.7	2,389	8	2	
WILKES	1,370	810	59.1	22	2.7	863	3		
WILSON	1,923	1,337	69.5	31	2.3	1,562	7		
YADKIN	814	493	60.6	13	2.6	552	3		
YANCEY	345	236	68.4	6	2.5	288	3		
<b>STATE</b>	<b>240,170</b>	<b>125,870</b>	<b>52.4</b>	<b>2,458</b>	<b>2.0</b>	<b>146,809</b>	<b>522</b>	<b>78</b>	<b>17</b>

\*Target Population is based on the sum of live births in 2011 and 2012.

\*\*One child tested was unable to be assigned to a county due to missing address.

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