

## 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.

## 2015 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	3,550	1,917	54.0	38	2.0	2,218	9	4	
ALEXANDER	709	350	49.4	7	2.0	432	1	1	
ALLEGHANY	193	126	65.3	8	6.3	146	1	1	
ANSON	499	216	43.3			289	1		
ASHE	468	280	59.8	6	2.1	335			
AVERY	266	181	68.0	4	2.2	197	2		
BEAUFORT	935	649	69.4	9	1.4	688	4	1	1
BERTIE	350	255	72.9	12	4.7	299	3	1	
BLADEN	726	460	63.4	4	0.9	493	1		
BRUNSWICK	2,107	1,023	48.6	10	1.0	1,238	2		1
BUNCOMBE	5,241	2,468	47.1	39	1.6	2,793	7	2	
BURKE	1,704	1,231	72.2	24	1.9	1,336	9	3	
CABARRUS	4,647	1,882	40.5	35	1.9	2,106	7	3	
CALDWELL	1,623	1,098	67.7	12	1.1	1,244	4		1
CAMDEN	193	85	44.0			95			
CARTERET	1,240	723	58.3	12	1.7	743	2	1	
CASWELL	426	204	47.9	8	3.9	231	2		
CATAWBA	3,478	1,644	47.3	25	1.5	1,873	11	2	
CHATHAM	1,219	632	51.8	12	1.9	692	5		
CHEROKEE	423	309	73.0	1	0.3	368			
CHOWAN	291	190	65.3	12	6.3	203			
CLAY	166	102	61.4			132			
CLEVELAND	2,107	997	47.3	15	1.5	1,210	3	1	
COLUMBUS	1,260	760	60.3	16	2.1	978	7		
CRAVEN	3,004	1,677	55.8	26	1.6	1,925	6	2	1
CUMBERLAND	11,391	4,042	35.5	84	2.1	4,543	16	5	
CURRITUCK	516	155	30.0	3	1.9	190			
DARE	690	313	45.4	6	1.9	325		1	
DAVIDSON	3,481	2,208	63.4	24	1.1	2,369	6	2	
DAVIE	728	443	60.9	15	3.4	472	3	1	
DUPLIN	1,519	936	61.6	16	1.7	1,102	3		
DURHAM	8,695	4,298	49.4	66	1.5	4,790	21	6	
EDGECOMBE	1,233	884	71.7	25	2.8	997	7	1	
FORSYTH	9,070	5,967	65.8	83	1.4	6,343	20	7	1
FRANKLIN	1,338	640	47.8	5	0.8	710	3	1	
GASTON	4,983	1,896	38.0	22	1.2	2,072	4	1	
GATES	194	99	51.0	2	2.0	125			
GRAHAM	180	85	47.2	2	2.4	107			
GRANVILLE	1,076	558	51.9	7	1.3	598	1	1	
GREENE	421	266	63.2	10	3.8	329	2		
GUILFORD	12,254	8,480	69.2	123	1.5	9,163	25	8	
HALIFAX	1,151	724	62.9	25	3.5	799	4	1	
HARNETT	3,841	1,620	42.2	42	2.6	1,947	6	2	
HAYWOOD	1,107	526	47.5	7	1.3	580	1		
HENDERSON	2,154	750	34.8	7	0.9	1,000	4		
HERTFORD	464	331	71.3	6	1.8	395	3		
HOKE	1,847	719	38.9	18	2.5	815	4	1	
HYDE	95	47	49.5	2	4.3	56			
IREDELL	3,523	1,772	50.3	29	1.6	1,979	3		
JACKSON	762	420	55.1	2	0.5	465	1		1
JOHNSTON	4,452	1,840	41.3	25	1.4	2,065	4	4	

\*Target Population is based on the sum of live births in 2013 and 2014.

Prepared by Children's Environmental Health  
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## 2015 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 ≥ 5 µg/dL	% Tested ≥ 5 µg/dL	Number Tested**	Confirmed 5-9	Confirmed 10-19	Confirmed ≥ 20
JONES	201	118	58.7	1	0.8	127			
LEE	1,564	817	52.2	17	2.1	996	6		
LENOIR	1,340	954	71.2	29	3.0	1,225	9		
LINCOLN	1,570	656	41.8	10	1.5	823	1		
MACON	673	422	62.7	3	0.7	474	1	1	
MADISON	383	145	37.9	7	4.8	186			
MARTIN	481	258	53.6	2	0.8	360			
MCDOWELL	908	364	40.1	4	1.1	425	2		
MECKLENBURG	28,229	8,249	29.2	115	1.4	10,673	17	8	3
MITCHELL	284	136	47.9	2	1.5	203			
MONTGOMERY	617	498	80.7	6	1.2	620			
MOORE	2,005	950	47.4	21	2.2	1,059	9	1	
NASH	2,149	1,701	79.2	59	3.5	1,905	8	2	
NEW HANOVER	4,524	2,526	55.8	28	1.1	2,927	11	2	
NORTHAMPTON	340	231	67.9	15	6.5	265	1	1	
ONslow	8,695	2,486	28.6	22	0.9	3,106	2		
ORANGE	2,407	1,181	49.1	18	1.5	1,291	3	2	
PAMLICO	170	99	58.2	1	1.0	124			
PASQUOTANK	1,019	621	60.9	12	1.9	696	4		
PENDER	1,211	495	40.9	6	1.2	620	1	1	
PERQUIMANS	266	156	58.6	6	3.8	173			
PERSON	865	212	24.5	3	1.4	257			
PITT	4,236	1,829	43.2	20	1.1	2,087	7	6	
POLK	307	79	25.7	3	3.8	134			
RANDOLPH	3,192	2,023	63.4	44	2.2	2,264	5	3	
RICHMOND	1,040	659	63.4	13	2.0	772	4		
ROBESON	3,753	2,100	56.0	52	2.5	2,473	12	5	1
ROCKINGHAM	1,916	923	48.2	26	2.8	1,047	3	2	
ROWAN	3,070	1,227	40.0	24	2.0	1,425	9	3	
RUTHERFORD	1,335	416	31.2	6	1.4	694	3	1	
SAMPSON	1,694	1,223	72.2	28	2.3	1,353	5	3	1
SCOTLAND	888	363	40.9	8	2.2	434	3	1	
STANLY	1,356	1,033	76.2	25	2.4	1,096	2	3	
STOKES	777	502	64.6	8	1.6	533	3		
SURRY	1,481	761	51.4	27	3.5	862	7		
SWAIN	406	244	60.1	3	1.2	270			
TRANSYLVANIA	574	46	8.0	4	8.7	57		2	
TYRRELL	86	64	74.4	3	4.7	71	1		
UNION	4,667	1,757	37.6	33	1.9	2,229	5		1
VANCE	1,140	439	38.5	7	1.6	543	3	1	
WAKE	25,074	10,035	40.0	113	1.1	11,259	27	7	
WARREN	384	199	51.8	4	2.0	226	1		1
WASHINGTON	258	197	76.4	13	6.6	230	2	1	
WATAUGA	709	524	73.9	4	0.8	580	1		
WAYNE	3,421	1,683	49.2	13	0.8	1,932	4	1	2
WILKES	1,331	671	50.4	35	5.2	715	3	1	1
WILSON	1,874	1,372	73.2	28	2.0	1,456	5	3	
YADKIN	740	403	54.5	12	3.0	451	2		
YANCEY	331	141	42.6	2	1.4	191			
<b>STATE</b>	<b>239,931</b>	<b>113,666</b>	<b>47.4</b>	<b>1,936</b>	<b>1.7</b>	<b>130,519</b>	<b>420</b>	<b>125</b>	<b>16</b>

\*Target Population is based on the sum of live births in 2013 and 2014.

\*\*360 children tested were unable to be assigned to a county due to missing address.

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