

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 ≥ 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.

2014 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	≥ 20
ALAMANCE	3,541	2,002	56.5	48	2.4	2,408	18	1	1
ALEXANDER	744	494	66.4	5	1.0	606	1		
ALLEGHANY	182	137	75.3	5	3.6	180	1		1
ANSON	506	219	43.3	5	2.3	311	1		
ASHE	501	322	64.3	2	0.6	371			
AVERY	295	247	83.7			263			
BEAUFORT	996	688	69.1	15	2.2	730	3	3	1
BERTIE	365	259	71.0	9	3.5	314	4		
BLADEN	733	459	62.6	12	2.6	499	1		
BRUNSWICK	2,038	899	44.1	8	0.9	1,087	1		
BUNCOMBE	5,272	2,942	55.8	52	1.8	3,305	10	1	
BURKE	1,701	1,354	79.6	22	1.6	1,457	8		
CABARRUS	4,585	2,126	46.4	27	1.3	2,368	7	2	
CALDWELL	1,578	1,254	79.5	19	1.5	1,375	5	2	
CAMDEN	178	95	53.4	5	5.3	108	1		
CARTERET	1,262	861	68.2	16	1.9	905	1		
CASWELL	420	205	48.8	7	3.4	229	1	1	
CATAWBA	3,500	2,354	67.3	31	1.3	2,654	8	2	
CHATHAM	1,212	588	48.5	8	1.4	668	3		
CHEROKEE	421	268	63.7	6	2.2	378		1	
CHOWAN	311	189	60.8	12	6.3	215	3		
CLAY	172	136	79.1	1	0.7	156			
CLEVELAND	2,147	1,400	65.2	24	1.7	1,882	7	3	
COLUMBUS	1,275	695	54.5	13	1.9	999	2		
CRAVEN	3,127	1,953	62.5	30	1.5	2,254	9	5	2
CUMBERLAND	11,225	4,154	37.0	80	1.9	4,733	10	1	1
CURRITUCK	465	184	39.6	4	2.2	251		1	
DARE	731	321	43.9	8	2.5	352			
DAVIDSON	3,391	2,256	66.5	48	2.1	2,475	10		
DAVIE	777	434	55.9	14	3.2	482	1		
DUPLIN	1,493	966	64.7	16	1.7	1,119	3		
DURHAM	8,513	4,006	47.1	38	0.9	4,692	9	2	
EDGECOMBE	1,308	970	74.2	52	5.4	1,093	14	3	
FORSYTH	9,146	5,953	65.1	100	1.7	6,379	27	4	1
FRANKLIN	1,346	785	58.3	18	2.3	870	5	1	
GASTON	4,961	1,920	38.7	24	1.3	2,170	3	1	1
GATES	222	103	46.4	2	1.9	132			
GRAHAM	186	127	68.3	1	0.8	152			
GRANVILLE	1,087	564	51.9	8	1.4	620	3		
GREENE	423	242	57.2	10	4.1	318			1
GUILFORD	12,333	8,797	71.3	148	1.7	9,693	31	6	2
HALIFAX	1,144	996	87.1	45	4.5	1,082	9	1	1
HARNETT	3,627	1,858	51.2	33	1.8	2,248	12	2	
HAYWOOD	1,096	710	64.8	10	1.4	783	2	1	
HENDERSON	2,097	1,038	49.5	16	1.5	1,307	2	2	
HERTFORD	473	354	74.8	9	2.5	407	2	1	
HOKE	1,831	816	44.6	12	1.5	915	4		
HYDE	107	62	57.9	2	3.2	72			
IREDELL	3,479	1,789	51.4	40	2.2	2,033	2	2	
JACKSON	730	459	62.9	12	2.6	521	2	1	
JOHNSTON	4,382	1,830	41.8	19	1.0	2,073	5	2	

*Target Population is based on the sum of live births in 2012 and 2013.

Prepared by Children's Environmental Health
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2014 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	185	124	67.0	4	3.2	149	1		
LEE	1,601	974	60.8	22	2.3	1,206	3	1	
LENOIR	1,311	916	69.9	24	2.6	1,264	8	4	
LINCOLN	1,496	660	44.1	7	1.1	810	1		
MACON	685	498	72.7	14	2.8	537	2	1	
MADISON	389	210	54.0	5	2.4	255	2	1	
MARTIN	482	285	59.1	3	1.1	411	3		
MCDOWELL	911	559	61.4	29	5.2	661	2		
MECKLENBURG	27,668	8,201	29.6	134	1.6	10,407	23	8	
MITCHELL	288	167	58.0	6	3.6	188			
MONTGOMERY	625	475	76.0	14	2.9	590	6	2	
MOORE	1,951	1,051	53.9	19	1.8	1,194	6		
NASH	2,220	1,726	77.7	64	3.7	1,984	13	3	
NEW HANOVER	4,473	2,948	65.9	31	1.1	3,244	6	5	1
NORTHAMPTON	386	309	80.1	15	4.9	344	4		
ONslow	8,736	3,320	38.0	20	0.6	3,997	1		
ORANGE	2,478	1,113	44.9	15	1.3	1,263	4	1	1
PAMLICO	177	143	80.8			174			
PASQUOTANK	962	557	57.9	20	3.6	620	4	1	2
PENDER	1,167	745	63.8	10	1.3	869			
PERQUIMANS	268	197	73.5	4	2.0	217		1	
PERSON	801	210	26.2	6	2.9	273	3		
PITT	4,278	2,037	47.6	19	0.9	2,408	7	1	
POLK	282	92	32.6	1	1.1	151			
RANDOLPH	3,224	2,089	64.8	43	2.1	2,348	8	1	
RICHMOND	1,056	642	60.8	15	2.3	780	2		
ROBESON	3,768	2,718	72.1	58	2.1	3,181	11		
ROCKINGHAM	1,905	983	51.6	28	2.8	1,159	5		
ROWAN	3,101	1,624	52.4	50	3.1	1,911	9	5	1
RUTHERFORD	1,334	423	31.7	10	2.4	727		1	
SAMPSON	1,712	1,324	77.3	27	2.0	1,504	8	1	1
SCOTLAND	902	631	70.0	21	3.3	682	4	1	
STANLY	1,267	1,082	85.4	46	4.3	1,162	13	5	3
STOKES	782	536	68.5	12	2.2	567	3	1	
SURRY	1,512	955	63.2	35	3.7	1,071	5	2	
SWAIN	400	310	77.5	6	1.9	345			
TRANSYLVANIA	529	162	30.6			211			
TYRRELL	81	50	61.7	1	2.0	60			
UNION	4,671	1,573	33.7	23	1.5	2,011	5	4	3
VANCE	1,157	611	52.8	4	0.7	728			
WAKE	24,748	10,608	42.9	113	1.1	11,881	23	5	
WARREN	354	206	58.2	7	3.4	237	3		
WASHINGTON	267	173	64.8	6	3.5	214	2		
WATAUGA	687	556	80.9	8	1.4	626	3		
WAYNE	3,496	2,150	61.5	12	0.6	2,523	6		
WILKES	1,342	791	58.9	16	2.0	839	7	1	
WILSON	1,856	1,425	76.8	25	1.8	1,520	7	2	
YADKIN	812	440	54.2	11	2.5	482	4	1	
YANCEY	332	203	61.1	6	3.0	227	2		1
STATE	238,750	123,622	51.8	2,220	1.8	142,906	480	111	25

*Target Population is based on the sum of live births in 2012 and 2013.

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

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