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 (µg/dL). Therefore, surveillance tables for 2013 and later include a column for children tested with at least one result ≥ 5 µg/dL, in addition to the column for children confirmed at 5-9 µg/dL.

"**% Tested ≥ 5 µg/dL**" is the number of children tested with at least one result ≥ 5 µg/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 (µg/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 µg/dL**," "**Confirmed 10-19 µg/dL**," and "**Confirmed ≥ 20 µg/dL**" are mutually exclusive. Children are counted as having "**confirmed**" lead levels when they have two consecutive blood lead test results ≥ 5 µg/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

	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
							Confirmed		
County	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	5-9	10-19	≥ 20
ALAMANCE	3550	1916	54.0	38	2.0	2216	9	4	
ALEXANDER	709	350	49.4	7	2.0	429	1	1	
ALLEGHANY	193	127	65.8	8	6.3	147	1	1	
ANSON	499	216	43.3			288	1		
ASHE	468	282	60.3	6	2.1	337			
AVERY	266	181	68.0	4	2.2	195	2		
BEAUFORT	935	648	69.3	9	1.4	687	4	1	1
BERTIE	350	257	73.4	12	4.7	301	3	1	
BLADEN	726	462	63.6	4	0.9	495	1		
BRUNSWICK	2107	1029	48.8	10	1.0	1243	2		1
BUNCOMBE	5241	2469	47.1	38	1.5	2789	7	2	
BURKE	1704	1234	72.4	24	1.9	1339	10	3	
CABARRUS	4647	1889	40.6	35	1.9	2111	7	3	
CALDWELL	1623	1105	68.1	12	1.1	1247	4		1
CAMDEN	193	84	43.5			94			
CARTERET	1240	724	58.4	12	1.7	744	2	1	
CASWELL	426	204	47.9	8	3.9	231	2		
CATAWBA	3478	1651	47.5	25	1.5	1879	11	2	
CHATHAM	1219	633	51.9	12	1.9	693	5		
CHEROKEE	423	310	73.3	1	0.3	367			
CHOWAN	291	190	65.3	12	6.3	203			
CLAY	166	102	61.4			133			
CLEVELAND	2107	1004	47.7	15	1.5	1217	3	1	
COLUMBUS	1260	762	60.5	16	2.1	979	7	2	
CRAVEN	3004	1683	56.0	26	1.5	1927	6	2	1
CUMBERLAND	11391	4049	35.5	84	2.1	4544	16	5	
CURRITUCK	516	155	30.0	3	1.9	190			
DARE	690	313	45.4	6	1.9	325		1	
DAVIDSON	3481	2224	63.9	24	1.1	2376	6	2	
DAVIE	728	445	61.1	15	3.4	470	3	1	
DUPLIN	1519	942	62.0	16	1.7	1104	3		
DURHAM	8695	4312	49.6	66	1.5	4801	21	6	
EDGECOMBE	1233	889	72.1	25	2.8	1003	7	1	
FORSYTH	9070	5995	66.1	83	1.4	6353	20	7	1
FRANKLIN	1338	640	47.8	5	0.8	708	3	1	
GASTON	4983	1909	38.3	22	1.2	2081	4	1	
GATES	194	100	51.5	2	2.0	126			
GRAHAM	180	86	47.8	2	2.3	106			
GRANVILLE	1076	562	52.2	7	1.2	604	1	1	
GREENE	421	266	63.2	10	3.8	329	2	8	
GUILFORD	12254	8495	69.3	122	1.4	9134	26	8	
HALIFAX	1151	718	62.4	25	3.5	791	5	1	
HARNETT	3841	1621	42.2	43	2.7	1944	6	2	
HAYWOOD	1107	528	47.7	7	1.3	582	1		
HENDERSON	2154	751	34.9	7	0.9	1001	4		
HERTFORD	464	333	71.8	6	1.8	390	3		
HOKE	1847	721	39.0	18	2.5	816	4	1	
HYDE	95	47	49.5	2	4.3	56			
IREDELL	3523	1783	50.6	29	1.6	1981	3		
JACKSON	762	425	55.8	2	0.5	466	1		1
JOHNSTON	4452	1843	41.4	26	1.4	2064	4	4	

*Target Population is based on the number of live births in 2013 and 2014

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

Prepared by Children's Environmental Health

Last updated 04/09/2020

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	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
							Confirmed		
County	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	5-9	10-19	≥ 20
JONES	201	118	58.7	1	0.8	127			
LEE	1564	816	52.2	16	2.0	996	6		
LENOIR	1340	962	71.8	29	3.0	1232	9		
LINCOLN	1570	653	41.6	9	1.4	820	2		
MACON	673	424	63.0	3	0.7	474	1	1	
MADISON	383	147	38.4	8	5.4	188			
MARTIN	481	259	53.8	2	0.8	358			
MCDOWELL	908	366	40.3	4	1.1	425	2		
MECKLENBURG	28229	8289	29.4	115	1.4	10686	17	8	3
MITCHELL	284	136	47.9	2	1.5	201			
MONTGOMERY	617	501	81.2	6	1.2	623			
MOORE	2005	953	47.5	21	2.2	1062	9	1	
NASH	2149	1710	79.6	59	3.5	1909	8	2	
NEW HANOVER	4524	2534	56.0	28	1.1	2934	11	2	
NORTHAMPTON	340	227	66.8	15	6.6	260	1	1	
ONSLOW	8695	2489	28.6	22	0.9	3107	2		
ORANGE	2407	1180	49.0	18	1.5	1291	3	2	
PAMLICO	170	99	58.2	1	1.0	124			
PASQUOTANK	1019	623	61.1	12	1.9	697	4		
PENDER	1211	497	41.0	6	1.2	621	1	1	
PERQUIMANS	266	157	59.0	6	3.8	174			
PERSON	865	211	24.4	3	1.4	255			
PITT	4236	1838	43.4	20	1.1	2092	7	6	
POLK	307	78	25.4	3	3.8	134			
RANDOLPH	3192	2039	63.9	45	2.2	2277	5	3	
RICHMOND	1040	661	63.6	13	2.0	772	4		
ROBESON	3753	2107	56.1	52	2.5	2480	13	5	1
ROCKINGHAM	1916	931	48.6	26	2.8	1052	3	2	
ROWAN	3070	1226	39.9	24	2.0	1422	9	3	
RUTHERFORD	1335	420	31.5	6	1.4	698	3	1	
SAMPSON	1694	1227	72.4	27	2.2	1356	5	2	1
SCOTLAND	888	363	40.9	8	2.2	434	3	1	
STANLY	1356	1043	76.9	25	2.4	1104	2	3	
STOKES	777	506	65.1	8	1.6	534	3		
SURRY	1481	764	51.6	27	3.5	865	7		
SWAIN	406	247	60.8	3	1.2	272			
TRANSYLVANIA	574	46	8.0	4	8.7	58		2	
TYRRELL	86	64	74.4	3	4.7	71	1		
UNION	4667	1777	38.1	33	1.9	2243	4		1
VANCE	1140	440	38.6	7	1.6	544	3	1	
WAKE	25074	10080	40.2	112	1.1	11283	27	7	
WARREN	384	199	51.8	4	2.0	226	1		1
WASHINGTON	258	198	76.7	13	6.6	232	2	1	
WATAUGA	709	526	74.2	4	0.8	581	1		
WAYNE	3421	1680	49.1	13	0.8	1931	4	1	2
WILKES	1331	674	50.6	36	5.3	717	3	1	1
WILSON	1874	1383	73.8	28	2.0	1465	5	3	
YADKIN	740	403	54.5	12	3.0	451	2		
YANCEY	331	141	42.6	2	1.4	191			
STATE	239,931	114,076	47.5	1,935	1.7	130,685	424	134	16

*Target Population is based on the number of live births in 2013 and 2014

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State totals do not include those results missing county assignments.

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Last updated 04/09/2020