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.

2016 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	3549	1930	54.4	33	1.7	2227	7	2	1
ALEXANDER	694	420	60.5	8	1.9	491			1
ALLEGHANY	203	114	56.2	2	1.8	128	1		
ANSON	467	207	44.3	1	0.5	308			
ASHE	437	282	64.5	6	2.1	390	2		1
AVERY	261	168	64.4			190			
BEAUFORT	933	609	65.3	12	2.0	655	5	2	
BERTIE	333	226	67.9	8	3.5	268	3		
BLADEN	714	453	63.4	5	1.1	487	1	1	
BRUNSWICK	2146	1140	53.1	15	1.3	1397	3	1	
BUNCOMBE	5201	2905	55.9	47	1.6	3353	11	2	
BURKE	1786	1159	64.9	23	2.0	1259	6	1	2
CABARRUS	4793	2097	43.8	25	1.2	2412	8	1	1
CALDWELL	1628	1179	72.4	14	1.2	1306	2	1	
CAMDEN	188	91	48.4	1	1.1	97			
CARTERET	1193	786	65.9	9	1.1	815	1		
CASWELL	401	227	56.6	13	5.7	248	4		
CATAWBA	3560	2248	63.1	24	1.1	2501	3	1	
CHATHAM	1275	715	56.1	13	1.8	788	4	3	
CHEROKEE	432	307	71.1	2	0.7	357			
CHOWAN	290	172	59.3	9	5.2	189	4		
CLAY	161	83	51.6	2	2.4	107			
CLEVELAND	2139	1140	53.3	24	2.1	1575	7	2	1
COLUMBUS	1208	685	56.7	18	2.6	895	6	1	
CRAVEN	2954	1826	61.8	30	1.6	2065	10	1	1
CUMBERLAND	11113	4246	38.2	56	1.3	4755	11	1	
CURRITUCK	520	164	31.5	4	2.4	185	1		
DARE	699	291	41.6	7	2.4	308	2	1	
DAVIDSON	3505	2377	67.8	34	1.4	2540	5	4	1
DAVIE	749	519	69.3	13	2.5	545		1	
DUPLIN	1520	889	58.5	15	1.7	1067	6		1
DURHAM	8734	4324	49.5	48	1.1	4905	15	3	
EDGECOMBE	1239	869	70.1	25	2.9	985	4	1	
FORSYTH	8888	5982	67.3	89	1.5	6416	31	6	
FRANKLIN	1389	774	55.7	13	1.7	848	4		1
GASTON	5058	2214	43.8	30	1.4	2419	7	2	1
GATES	213	96	45.1	1	1.0	116			
GRAHAM	167	122	73.1	5	4.1	145		2	
GRANVILLE	1131	521	46.1	9	1.7	586	2	1	
GREENE	419	249	59.4	5	2.0	307	1	1	
GUILFORD	12180	9444	77.5	149	1.6	10224	31	12	1
HALIFAX	1167	873	74.8	46	5.3	950	12		1
HARNETT	3785	1831	48.4	45	2.5	2206	11		1
HAYWOOD	1159	793	68.4	18	2.3	875	1	1	
HENDERSON	2179	1241	57.0	22	1.8	1446	3		
HERTFORD	462	347	75.1	7	2.0	388			
HOKE	1904	757	39.8	14	1.8	854	5	1	1
HYDE	86	54	62.8			63		1	
IREDELL	3706	1951	52.6	27	1.4	2138	6	1	
JACKSON	799	459	57.4	12	2.6	495	4		
JOHNSTON	4554	2216	48.7	39	1.8	2483	6	2	

*Target Population is based on the number of live births in 2014 and 2015

**187 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

2016 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
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County	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	5-9	10-19	≥ 20
JONES	195	128	65.6	1	0.8	144	1		
LEE	1513	973	64.3	19	2.0	1173	1	1	
LENOIR	1314	972	74.0	29	3.0	1225	9	7	2
LINCOLN	1608	753	46.8	8	1.1	916	2	1	
MACON	699	440	62.9	4	0.9	478	1		
MADISON	430	235	54.7	8	3.4	287	1	1	
MARTIN	498	312	62.7	6	1.9	395	2		1
MCDOWELL	936	506	54.1	7	1.4	583	1		
MECKLENBURG	29260	9240	31.6	87	0.9	11157	17	11	2
MITCHELL	293	155	52.9	4	2.6	195			
MONTGOMERY	634	527	83.1	15	2.8	636	8		
MOORE	2081	1331	64.0	21	1.6	1454	8		1
NASH	2087	1675	80.3	37	2.2	1846	6	4	1
NEW HANOVER	4594	2836	61.7	36	1.3	3174	14	6	
NORTHAMPTON	342	245	71.6	6	2.4	286	1		
ONSLOW	8540	2751	32.2	28	1.0	3378	2	1	2
ORANGE	2422	1338	55.2	22	1.6	1452	3	2	
PAMLICO	175	124	70.9	1	0.8	143			
PASQUOTANK	1029	679	66.0	12	1.8	748	2	1	2
PENDER	1249	621	49.7	7	1.1	776	3		
PERQUIMANS	236	142	60.2	3	2.1	153		1	
PERSON	838	369	44.0	7	1.9	422	1		2
PITT	4288	2141	49.9	12	0.6	2368	4		1
POLK	296	104	35.1	2	1.9	146			
RANDOLPH	3161	2079	65.8	43	2.1	2322	15	2	
RICHMOND	1061	757	71.3	21	2.8	895	3		
ROBESON	3590	2249	62.6	46	2.0	2542	6	5	2
ROCKINGHAM	1868	1020	54.6	31	3.0	1152	6	1	1
ROWAN	3154	1537	48.7	37	2.4	1774	16	3	1
RUTHERFORD	1353	461	34.1	10	2.2	738	1	1	
SAMPSON	1672	1305	78.1	25	1.9	1419	10	2	
SCOTLAND	883	539	61.0	4	0.7	620	1	1	
STANLY	1396	1087	77.9	30	2.8	1161	5	4	
STOKES	813	539	66.3	6	1.1	572	1		
SURRY	1508	952	63.1	32	3.4	1049	5		1
SWAIN	419	235	56.1	4	1.7	255			
TRANSYLVANIA	563	387	68.7	4	1.0	417	1		1
TYRRELL	80	55	68.8	4	7.3	61	1		
UNION	4737	1704	36.0	27	1.6	2244	14	1	
VANCE	1101	572	52.0	15	2.6	700	2	1	1
WAKE	25502	10699	42.0	149	1.4	12255	40	10	1
WARREN	384	256	66.7	4	1.6	306			
WASHINGTON	235	142	60.4	8	5.6	172	1	1	
WATAUGA	725	498	68.7	6	1.2	565	6		
WAYNE	3347	2211	66.1	32	1.4	2561	13	2	
WILKES	1405	903	64.3	40	4.4	953	8		1
WILSON	1907	1434	75.2	35	2.4	1507	6	4	1
YADKIN	727	436	60.0	9	2.1	503	2		
YANCEY	355	117	33.0	1	0.9	162			
STATE	241,774	125,543	51.9	2,082	1.7	143,197	506	134	40

*Target Population is based on the number of live births in 2014 and 2015

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State totals do not include those results missing county assignments.

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