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.

2017 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	3639	2254	61.9	37	1.6	2544	7	4	1
ALEXANDER	686	408	59.5	7	1.7	473	3		
ALLEGHANY	199	81	40.7	3	3.7	93	2		
ANSON	496	211	42.5	5	2.4	314	3		
ASHE	423	269	63.6	3	1.1	370	2		
AVERY	296	145	49.0	1	0.7	159			
BEAUFORT	917	683	74.5	12	1.8	741	8		
BERTIE	359	258	71.9	5	1.9	312	3	1	
BLADEN	684	525	76.8	5	1.0	563			
BRUNSWICK	2022	1181	58.4	6	0.5	1428	2		
BUNCOMBE	5220	3293	63.1	38	1.2	3698	8	4	1
BURKE	1801	1277	70.9	12	0.9	1358	3	1	
CABARRUS	4935	2353	47.7	24	1.0	2595	5	3	1
CALDWELL	1622	1160	71.5	6	0.5	1245	2	1	
CAMDEN	180	114	63.3	1	0.9	122			
CARTERET	1158	813	70.2	5	0.6	852	2		
CASWELL	394	251	63.7	4	1.6	275			
CATAWBA	3418	1921	56.2	22	1.1	2224	6		1
CHATHAM	1305	693	53.1	4	0.6	775	3		
CHEROKEE	479	311	64.9	3	1.0	347	1		
CHOWAN	279	151	54.1	1	0.7	167			
CLAY	184	107	58.2			132			
CLEVELAND	2143	1583	73.9	22	1.4	2241	7		1
COLUMBUS	1193	829	69.5	13	1.6	1049	1	1	
CRAVEN	2893	1963	67.9	15	0.8	2170	4		
CUMBERLAND	10859	4193	38.6	53	1.3	4672	11	3	
CURRITUCK	522	189	36.2	5	2.6	213		1	
DARE	667	289	43.3	3	1.0	305	1		
DAVIDSON	3520	2564	72.8	26	1.0	2747	9	1	
DAVIE	808	512	63.4	9	1.8	543	2		
DUPLIN	1454	886	60.9	8	0.9	1112	3	1	
DURHAM	8577	4192	48.9	37	0.9	4720	10	2	
EDGECOMBE	1205	892	74.0	22	2.5	1075	1	1	
FORSYTH	8835	5711	64.6	85	1.5	6081	23	6	1
FRANKLIN	1408	867	61.6	9	1.0	940	2		
GASTON	5049	2272	45.0	29	1.3	2508	7	2	
GATES	220	106	48.2			123			
GRAHAM	161	148	91.9	2	1.4	174			
GRANVILLE	1151	701	60.9	9	1.3	796	4		
GREENE	410	297	72.4	8	2.7	355	2		
GUILFORD	12353	9342	75.6	105	1.1	10195	31	10	2
HALIFAX	1133	971	85.7	30	3.1	1066	5	2	
HARNETT	3661	1987	54.3	33	1.7	2341	9	4	1
HAYWOOD	1213	865	71.3	13	1.5	908	2		
HENDERSON	2158	1310	60.7	13	1.0	1516	4	1	
HERTFORD	462	355	76.8	5	1.4	416	1		
HOKE	1891	922	48.8	11	1.2	1037	2	2	
HYDE	88	56	63.6	1	1.8	65	1		
IREDELL	3859	2029	52.6	17	0.8	2210	6	2	
JACKSON	792	610	77.0	14	2.3	649	2	2	
JOHNSTON	4603	2636	57.3	26	1.0	2961	3		1

*Target Population is based on the number of live births in 2015 and 2016

**33 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

2017 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

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County	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	5-9	10-19	≥ 20
JONES	173	117	67.6			131			
LEE	1536	1097	71.4	16	1.5	1323	4	1	
LENOIR	1280	838	65.5	15	1.8	1060	7	1	
LINCOLN	1600	753	47.1	11	1.5	911	3		
MACON	698	449	64.3	2	0.4	480		2	
MADISON	430	272	63.3	5	1.8	312	1		
MARTIN	503	308	61.2	5	1.6	407	3		
MCDOWELL	933	566	60.7	13	2.3	630	2	1	
MECKLENBURG	29727	9726	32.7	79	0.8	11582	27	5	1
MITCHELL	292	138	47.3	2	1.4	185			
MONTGOMERY	612	550	89.9	12	2.2	629	5	2	
MOORE	2190	1688	77.1	16	0.9	1797	7		
NASH	2067	1687	81.6	33	2.0	1899	6	2	
NEW HANOVER	4552	3220	70.7	41	1.3	3581	11	1	
NORTHAMPTON	377	292	77.5	10	3.4	325	2		
ONSLOW	8132	3514	43.2	39	1.1	4232	6	4	
ORANGE	2373	1120	47.2	13	1.2	1230	3	1	
PAMLICO	182	159	87.4	4	2.5	172	1		
PASQUOTANK	972	764	78.6	13	1.7	832	8	1	1
PENDER	1266	848	67.0	13	1.5	1001	2		
PERQUIMANS	234	164	70.1	3	1.8	184	2		
PERSON	804	456	56.7	7	1.5	522	1	1	
PITT	4186	2255	53.9	18	0.8	2491	4		
POLK	280	101	36.1	6	5.9	159			
RANDOLPH	3158	2082	65.9	29	1.4	2320	6	4	
RICHMOND	1075	670	62.3	15	2.2	796	1	1	
ROBESON	3546	2308	65.1	33	1.4	2599	10	1	1
ROCKINGHAM	1842	962	52.2	22	2.3	1120	7	3	1
ROWAN	3253	1809	55.6	30	1.7	2036	6	3	
RUTHERFORD	1340	505	37.7	10	2.0	800		1	
SAMPSON	1663	1299	78.1	17	1.3	1462	4	1	
SCOTLAND	898	548	61.0	6	1.1	609	2	1	
STANLY	1368	1129	82.5	20	1.8	1199	4	3	
STOKES	791	479	60.6	7	1.5	513		1	
SURRY	1473	905	61.4	23	2.5	1009		1	
SWAIN	388	232	59.8	3	1.3	261			
TRANSYLVANIA	537	416	77.5	3	0.7	438	1	1	
TYRRELL	90	51	56.7			55			
UNION	4775	1962	41.1	22	1.1	2563	5	3	1
VANCE	1070	605	56.5	12	2.0	727	5	1	
WAKE	25886	11799	45.6	138	1.2	13580	33	8	3
WARREN	363	243	66.9	5	2.1	291	3		
WASHINGTON	245	159	64.9	1	0.6	187			
WATAUGA	722	502	69.5	4	0.8	572	2	1	
WAYNE	3266	2253	69.0	28	1.2	2604	9	5	
WILKES	1410	964	68.4	24	2.5	1004	5		
WILSON	1935	1557	80.5	29	1.9	1649	11	1	2
YADKIN	778	488	62.7	6	1.2	566	3		
YANCEY	336	140	41.7	1	0.7	176	1		
STATE	241,591	132,885	55.0	1,691	1.3	151,186	436	117	20

*Target Population is based on the number of live births in 2015 and 2016

**33 children tested were unable to be assigned to a county due to missing address information.
State totals do not include those results missing county assignments.

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Last updated 04/09/2020