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.

2013 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	3431	1858	54.2	58	3.1	2339	9		
ALEXANDER	704	466	66.2	4	0.9	570			1
ALLEGHANY	172	136	79.1	3	2.2	209			
ANSON	527	281	53.3	7	2.5	427		1	
ASHE	486	352	72.4	3	0.9	412			
AVERY	285	263	92.3	1	0.4	294			
BEAUFORT	999	717	71.8	11	1.5	769	4	1	
BERTIE	381	248	65.1	11	4.4	310	6		
BLADEN	712	493	69.2	12	2.4	534	3	1	
BRUNSWICK	2080	971	46.7	13	1.3	1191	1		
BUNCOMBE	5152	2963	57.5	57	1.9	3313	5	2	
BURKE	1743	1383	79.3	18	1.3	1488	6		
CABARRUS	4568	2434	53.3	57	2.3	2703	13	1	
CALDWELL	1586	1213	76.5	18	1.5	1325	3		
CAMDEN	168	95	56.5	2	2.1	132		1	
CARTERET	1235	852	69.0	22	2.6	908		1	1
CASWELL	434	192	44.2	5	2.6	212			
CATAWBA	3600	2462	68.4	33	1.3	2852	10	2	1
CHATHAM	1248	615	49.3	14	2.3	692	3	1	1
CHEROKEE	447	307	68.7	4	1.3	386	1	1	
CHOWAN	317	203	64.0	17	8.4	226	3	1	
CLAY	163	118	72.4	2	1.7	145	1		
CLEVELAND	2183	1538	70.5	31	2.0	2017	12	3	
COLUMBUS	1275	758	59.5	16	2.1	1051	6		
CRAVEN	3267	1954	59.8	29	1.5	2224	10	2	
CUMBERLAND	11605	4238	36.5	107	2.5	4876	19	4	
CURRITUCK	441	175	39.7	4	2.3	260			
DARE	758	351	46.3	9	2.6	388	3		
DAVIDSON	3413	2180	63.9	51	2.3	2463	7	1	
DAVIE	788	460	58.4	14	3.0	487	2		
DUPLIN	1549	940	60.7	11	1.2	1074	4		
DURHAM	8552	4170	48.8	61	1.5	5047	10	4	
EDGECOMBE	1331	942	70.8	39	4.1	1153	9	3	
FORSYTH	9205	5819	63.2	84	1.4	6184	25	2	4
FRANKLIN	1327	790	59.5	29	3.7	882	1	2	
GASTON	5078	2007	39.5	35	1.7	2277	8	1	
GATES	229	101	44.1	3	3.0	135			
GRAHAM	189	121	64.0			169			
GRANVILLE	1116	562	50.4	4	0.7	604	2		
GREENE	453	266	58.7	5	1.9	354	4		
GUILFORD	12213	9157	75.0	146	1.6	10159	27	5	1
HALIFAX	1162	1060	91.2	47	4.4	1177	10		
HARNETT	3533	1862	52.7	44	2.4	2259	10	1	
HAYWOOD	1121	709	63.2	17	2.4	763	4		
HENDERSON	2121	1138	53.7	19	1.7	1398	2	1	
HERTFORD	477	328	68.8	8	2.4	375			
HOKE	1940	865	44.6	12	1.4	1026	3		
HYDE	101	58	57.4	2	3.4	68			
IREDELL	3474	1828	52.6	27	1.5	2091	8	1	1
JACKSON	761	494	64.9	2	0.4	554			
JOHNSTON	4494	2214	49.3	53	2.4	2577	6	2	

*Target Population is based on the number of live births in 2011 and 2012

**One child tested was unable to be assigned to a county due to missing address information.

Prepared by Children's Environmental Health

Last updated 04/09/2020

2013 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
JONES	207	147	71.0	5	3.4	162			
LEE	1652	1163	70.4	29	2.5	1434	5		
LENOIR	1313	869	66.2	29	3.3	1199	11	2	
LINCOLN	1539	585	38.0	5	0.9	779	2		
MACON	657	433	65.9	10	2.3	521	2	2	
MADISON	384	206	53.6	3	1.5	252	1		
MARTIN	471	257	54.6	5	1.9	362			
MCDOWELL	904	527	58.3	23	4.4	635	2	1	
MECKLENBURG	27582	8217	29.8	105	1.3	10081	19	4	2
MITCHELL	282	195	69.1	2	1.0	239	1		
MONTGOMERY	678	609	89.8	18	3.0	699	7		1
MOORE	1936	1307	67.5	29	2.2	1460	7	1	
NASH	2199	1655	75.3	83	5.0	1964	21	2	1
NEW HANOVER	4483	2959	66.0	46	1.6	3339	14	2	1
NORTHAMPTON	387	319	82.4	13	4.1	369	3		
ONSLOW	8779	3590	40.9	38	1.1	4256	5		
ORANGE	2598	1105	42.5	18	1.6	1246	2		
PAMLICO	187	141	75.4			165			
PASQUOTANK	963	433	45.0	12	2.8	499	3	1	
PENDER	1204	784	65.1	12	1.5	969	2		
PERQUIMANS	259	157	60.6	6	3.8	173			
PERSON	778	246	31.6	6	2.4	306		1	
PITT	4311	1954	45.3	25	1.3	2336	6		
POLK	255	104	40.8	2	1.9	187			
RANDOLPH	3209	1995	62.2	38	1.9	2269	3	3	
RICHMOND	1122	788	70.2	18	2.3	944	10	1	
ROBESON	3720	2752	74.0	65	2.4	3216	20	2	
ROCKINGHAM	1838	877	47.7	41	4.7	1039	7	1	
ROWAN	3114	1571	50.4	34	2.2	1891	6	1	
RUTHERFORD	1377	510	37.0	16	3.1	829	5	1	
SAMPSON	1698	1323	77.9	34	2.6	1448	13		
SCOTLAND	911	650	71.4	14	2.2	710	1	2	
STANLY	1268	1065	84.0	30	2.8	1108	10		
STOKES	806	542	67.2	14	2.6	575	4		
SURRY	1562	1009	64.6	53	5.3	1112	3	2	
SWAIN	390	230	59.0	7	3.0	265	2		
TRANSYLVANIA	506	377	74.5	11	2.9	490	2		1
TYRRELL	81	54	66.7	1	1.9	57	1		
UNION	4763	1719	36.1	15	0.9	2163	6		
VANCE	1150	578	50.3	16	2.8	680	3		
WAKE	24767	10543	42.6	138	1.3	12003	25	1	1
WARREN	341	218	63.9	5	2.3	251		1	
WASHINGTON	264	183	69.3	11	6.0	220	2		
WATAUGA	709	583	82.2	4	0.7	673	1		
WAYNE	3520	2016	57.3	15	0.7	2386	8	2	
WILKES	1370	813	59.3	22	2.7	862	3		
WILSON	1923	1337	69.5	31	2.3	1559	7		
YADKIN	814	493	60.6	13	2.6	551	3		
YANCEY	345	238	69.0	6	2.5	290	3		
STATE	240,170	126,133	52.5	2,457	1.9	146,752	521	78	17

*Target Population is based on the number of live births in 2011 and 2012

**One child tested was 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