

## MINIMUM POPULATION AT RISK BY COUNTY OF RESIDENCE, 2017

*Using 2013-2017 Poverty Data\* and Census Estimates April 1, 2017 Population*

County of Residence	A: Estimate of Infants & Children (Ages 0-4) Below 185% of Poverty	B: Estimate of Pregnant Women Below 185% of Poverty (Based on 9/12 Live Births +Fetal Deaths)	C: Estimate of Postpartum Women Below 185% of Poverty (Based on 6/12 Live Births 68% +Fetal Deaths)	D: Estimate of Breastfeeding Women Below 185% of Poverty (Based on 32% of Live Births)	Estimated Population at Risk (A + B + C + D)
<b>North Carolina</b>	<b>290,184</b>	<b>43,154</b>	<b>18,767</b>	<b>20,006</b>	<b>372,111</b>
Alamance	5,413	836	364	387	7,000
Alexander	773	120	52	56	1,001
Alleghany	347	53	23	25	448
Anson	758	116	50	54	978
Ashe	609	87	38	40	774
Avery	289	35	15	16	355
Beaufort	1,365	211	92	98	1,766
Bertie	616	96	42	44	798
Bladen	1,049	155	68	71	1,343
Brunswick	3,000	421	183	195	3,799
Buncombe	5,522	759	330	352	6,963
Burke	2,829	453	197	210	3,689
Cabarrus	5,121	751	327	348	6,547
Caldwell	2,240	321	139	149	2,849
Camden	148	17	8	8	181
Carteret	1,344	195	85	90	1,714
Caswell	646	94	41	43	824
Catawba	4,374	607	264	281	5,526
Chatham	1,320	185	80	86	1,671
Cherokee	658	90	39	42	829
Chowan	455	65	28	30	578
Clay	283	39	17	18	357
Cleveland	3,495	520	226	241	4,482
Columbus	1,890	278	121	128	2,417
Craven	2,954	465	202	216	3,837
Cumberland	13,961	2,311	1,005	1,071	18,348
Currituck	474	62	27	29	592
Dare	838	127	55	59	1,079

## MINIMUM POPULATION AT RISK BY COUNTY OF RESIDENCE, 2017

*Using 2013-2017 Poverty Data\* and Census Estimates April 1, 2017 Population*

County of Residence	A: Estimate of Infants & Children (Ages 0-4) Below 185% of Poverty	B: Estimate of Pregnant Women Below 185% of Poverty (Based on 9/12 Live Births +Fetal Deaths)	C: Estimate of Postpartum Women Below 185% of Poverty (Based on 6/12 Live Births 68% +Fetal Deaths)	D: Estimate of Breastfeeding Women Below 185% of Poverty (Based on 32% of Live Births)	Estimated Population at Risk (A + B + C + D)
<b>North Carolina</b>	<b>290,184</b>	<b>43,154</b>	<b>18,767</b>	<b>20,006</b>	<b>372,111</b>
Davidson	4,506	655	285	304	5,750
Davie	943	122	53	57	1,175
Duplin	3,079	404	176	186	3,845
Durham	8,841	1,355	589	629	11,414
Edgecombe	2,220	351	153	162	2,886
Forsyth	12,471	1,809	785	842	15,907
Franklin	1,976	292	127	136	2,531
Gaston	7,043	1,047	455	485	9,030
Gates	154	23	10	11	198
Graham	253	35	15	16	319
Granville	1,397	215	93	100	1,805
Greene	746	114	49	53	962
Guilford	15,241	2,283	993	1,057	19,574
Halifax	1,811	295	129	136	2,371
Harnett	5,076	735	319	342	6,472
Haywood	1,783	279	121	130	2,313
Henderson	2,459	343	149	159	3,110
Hertford	760	116	50	54	980
Hoke	2,670	379	165	175	3,389
Hyde	67	7	3	3	80
Iredell	4,347	622	271	287	5,527
Jackson	768	110	48	51	977
Johnston	5,926	820	356	381	7,483
Jones	303	52	23	24	402
Lee	1,729	263	114	122	2,228
Lenoir	2,057	297	130	137	2,621
Lincoln	2,156	309	134	143	2,742
McDowell	1,108	163	71	75	1,417

## MINIMUM POPULATION AT RISK BY COUNTY OF RESIDENCE, 2017

*Using 2013-2017 Poverty Data\* and Census Estimates April 1, 2017 Population*

County of Residence	A: Estimate of Infants & Children (Ages 0-4) Below 185% of Poverty	B: Estimate of Pregnant Women Below 185% of Poverty (Based on 9/12 Live Births +Fetal Deaths)	C: Estimate of Postpartum Women Below 185% of Poverty (Based on 6/12 Live Births 68% +Fetal Deaths)	D: Estimate of Breastfeeding Women Below 185% of Poverty (Based on 32% of Live Births)	Estimated Population at Risk (A + B + C + D)
<b>North Carolina</b>	<b>290,184</b>	<b>43,154</b>	<b>18,767</b>	<b>20,006</b>	<b>372,111</b>
Macon	1,117	160	70	74	1,421
Madison	595	72	31	34	732
Martin	730	111	48	52	941
Mecklenburg	28,492	4,382	1,906	2,030	36,810
Mitchell	269	38	17	18	342
Montgomery	973	130	57	60	1,220
Moore	2,322	344	150	159	2,975
Nash	2,450	386	168	179	3,183
New Hanover	4,808	715	311	332	6,166
Northampton	656	115	50	53	874
Onslow	8,565	1,520	660	706	11,451
Orange	1,618	217	94	101	2,030
Pamlico	229	28	12	13	282
Pasquotank	1,352	200	87	93	1,732
Pender	1,276	182	79	85	1,622
Perquimans	304	46	20	21	391
Person	1,376	220	96	102	1,794
Pitt	4,833	722	315	333	6,203
Polk	391	65	28	30	514
Randolph	4,526	666	289	309	5,790
Richmond	1,783	297	129	137	2,346
Robeson	6,153	942	411	434	7,940
Rockingham	2,780	384	167	178	3,509
Rowan	4,155	611	266	282	5,314
Rutherford	1,903	290	126	134	2,453
Sampson	2,636	412	180	190	3,418
Scotland	1,515	233	101	108	1,957
Stanly	1,777	284	123	132	2,316

## MINIMUM POPULATION AT RISK BY COUNTY OF RESIDENCE, 2017

*Using 2013-2017 Poverty Data\* and Census Estimates April 1, 2017 Population*

County of Residence	A: Estimate of Infants & Children (Ages 0-4) Below 185% of Poverty	B: Estimate of Pregnant Women Below 185% of Poverty (Based on 9/12 Live Births +Fetal Deaths)	C: Estimate of Postpartum Women Below 185% of Poverty (Based on 6/12 Live Births 68% +Fetal Deaths)	D: Estimate of Breastfeeding Women Below 185% of Poverty (Based on 32% of Live Births)	Estimated Population at Risk (A + B + C + D)
<b>North Carolina</b>	<b>290,184</b>	<b>43,154</b>	<b>18,767</b>	<b>20,006</b>	<b>372,111</b>
Stokes	806	118	51	55	1,030
Surry	2,356	341	149	158	3,004
Swain	633	73	32	34	772
Transylvania	765	101	44	47	957
Tyrrell	146	20	9	9	184
Union	4,299	583	254	270	5,406
Vance	1,969	315	137	146	2,567
Wake	21,146	3,000	1,304	1,393	26,843
Warren	567	80	35	37	719
Washington	509	82	36	38	665
Watauga	680	110	48	51	889
Wayne	5,138	767	334	355	6,594
Wilkes	1,668	229	99	107	2,103
Wilson	2,961	441	191	205	3,798
Yadkin	1,188	177	77	82	1,524
Yancey	461	70	30	33	594

*\* Population at Risk in North Carolina was based on Census Estimated Poverty data*

*Please refer to the attached document titled 'Methodology Used in Estimating Potential Eligibles for WIC in North Carolina'*

# North Carolina Minimum Population at Risk (Potential Eligible Estimates) for WIC Program: Data Source and Calculation

## Minimum Population at Risk for each county is determined annually using the following data sources:

1. Number of live births
2. Number of fetal deaths
3. Population 0-4 years of age
4. Percent of population with income less than 185% of poverty

### Prior to CY2013 data

Items 1 and 2 were obtained from NC Vital Statistics; item 3 was obtained from NC Department of Administration, Office of Management and Budget; item 4 was obtained from USDA, decennial data.

### Starting CY2013 data

Since item 3 and 4 were no longer available from the Feds, North Carolina devised its own estimate using the following data sources and estimates.

**Poverty Estimate:** U.S. Census Bureau, 2013-2017 5-Year American Community Survey (ACS) Table B17024 : Age by ratio of income to poverty level in the past 12 months. Universe: Population for whom poverty status is determined. North Carolina Under 6 estimates for under 1.84.

<Note: The 0-4 poverty estimates were calculated by applying the 0-6 poverty estimates to the 0-4 2017 population estimates> <https://www.census.gov/acs/www/data/data-tables-and-tools/american-factfinder/>

**Population Estimate:** National Center for Health Statistics. Vintage 2017 postcensal estimates of the resident population of the United States (July 1, 2017). Prepared under a collaborative arrangement with the U.S. Census Bureau. Available from: [http://www.cdc.gov/nchs/nvss/bridged\\_race.htm](http://www.cdc.gov/nchs/nvss/bridged_race.htm) as of June 27, 2018, following release by the U.S. Census Bureau of the unbridged Vintage 2017 postcensal estimates by 5-year age group on June 27, 2018.

**Birth Data:** North Carolina State Center for Health Statistics, 2017 Live Birth Certificate electronic data files.

**Fetal Death Data:** North Carolina State Center for Health Statistics, 2017 Fetal Death Certificate electronic data files.

### **Calculation for the Potential Eligible Estimates:**

The county estimates are based on the following formula:

$$\text{Minimum Population at Risk} = A + B + C + D$$

A = Infants and Children = (Population 0-4) % county population below 185% poverty

B = Pregnant women = 9/12 (Live births and Fetal deaths) % county population below 185% poverty

C = Postpartum women = 6/12 ((Live births) \* 81% + Fetal deaths) % county population below 185% poverty

D = Breastfeeding women (\*\*19% (Live births)) % county population below 185% poverty

Please note that since 2014 we have been using the following factor to calculate C and D respectively to be consistent with our Breastfeeding rates.

$$C = 6/12 * (((BIRTH * .65) + FETAL) * POV2)$$

$$D = ((.35 * BIRTH) * POV2)$$

\*% non-breastfeeding postpartum women participating on the WIC Program

\*\* % breastfeeding women participating on the WIC Program