

## MINIMUM POPULATION AT RISK BY COUNTY OF RESIDENCE, 2018

*Using 2014-2018 Poverty Data\* and Census Estimates April 1, 2018 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 35% +Fetal Deaths)	D: Estimate of Breastfeeding Women Below 185% of Poverty (Based on 65% of Live Births)	Estimated Population at Risk (A + B + C + D)
<b>North Carolina Total</b>	<b>284,243</b>	<b>41,843</b>	<b>18,197</b>	<b>19,397</b>	<b>363,680</b>
Alamance	5,466	838	364	389	7,057
Alexander	932	132	57	61	1,182
Alleghany	340	45	19	21	425
Anson	815	129	56	59	1,059
Ashe	453	61	26	29	569
Avery	287	54	23	25	389
Beaufort	1,393	193	84	89	1,759
Bertie	551	90	39	42	722
Bladen	1,084	181	79	84	1,428
Brunswick	2,580	363	158	168	3,269
Buncombe	5,136	747	325	347	6,555
Burke	2,912	434	189	201	3,736
Cabarrus	5,173	717	312	332	6,534
Caldwell	2,344	327	142	152	2,965
Camden	143	18	8	9	178
Carteret	1,242	164	71	76	1,553
Caswell	623	93	40	43	799
Catawba	4,338	621	270	288	5,517
Chatham	1,419	195	85	90	1,789
Cherokee	639	104	45	48	836
Chowan	438	71	31	33	573
Clay	315	41	18	19	393
Cleveland	3,416	548	238	254	4,456
Columbus	1,859	274	119	127	2,379
Craven	2,982	466	203	217	3,868
Cumberland	13,864	2,252	981	1,042	18,139
Currituck	525	67	29	31	652
Dare	693	101	44	47	885
Davidson	4,785	679	295	315	6,074
Davie	942	136	59	63	1,200
Duplin	2,635	391	170	181	3,377
Durham	8,736	1,340	582	622	11,280
Edgecombe	2,039	314	137	145	2,635
Forsyth	11,678	1,694	737	785	14,894

*Data Source and Methodology: Refer to Page 4 of this report.*

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Franklin	1,716	240	105	111	2,172
Gaston	6,663	962	419	446	8,490
Gates	130	17	7	8	162
Graham	226	32	14	15	287
Granville	1,329	195	84	91	1,699
Greene	751	116	50	53	970
Guilford	15,377	2,262	984	1,048	19,671
Halifax	1,749	256	111	119	2,235
Harnett	5,188	724	314	337	6,563
Haywood	1,497	204	89	95	1,885
Henderson	2,162	317	138	147	2,764
Hertford	730	116	50	54	950
Hoke	2,578	359	157	166	3,260
Hyde	82	11	5	5	103
Iredell	4,115	591	257	274	5,237
Jackson	944	134	58	63	1,199
Johnston	6,283	847	369	392	7,891
Jones	320	46	20	21	407
Lee	2,063	314	137	145	2,659
Lenoir	2,141	315	137	146	2,739
Lincoln	2,258	337	146	156	2,897
McDowell	1,080	147	64	68	1,359
Macon	1,053	145	63	67	1,328
Madison	592	96	42	44	774
Martin	736	113	49	52	950
Mecklenburg	28,156	4,279	1,860	1,986	36,281
Mitchell	284	45	19	21	369
Montgomery	856	123	53	58	1,090
Moore	2,033	310	135	144	2,622
Nash	2,042	311	135	144	2,632
New Hanover	4,637	655	284	304	5,880
Northampton	603	86	37	40	766
Onslow	8,581	1,469	639	680	11,369
Orange	1,642	212	92	98	2,044

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Pamlico	174	27	12	12	225
Pasquotank	1,138	158	69	73	1,438
Pender	1,357	180	78	84	1,699
Perquimans	272	41	18	19	350
Person	1,350	193	84	89	1,716
Pitt	5,008	766	333	355	6,462
Polk	443	65	28	30	566
Randolph	4,103	583	254	270	5,210
Richmond	1,796	279	121	130	2,326
Robeson	6,042	891	388	412	7,733
Rockingham	2,797	414	180	192	3,583
Rowan	4,047	597	259	277	5,180
Rutherford	1,778	259	113	119	2,269
Sampson	2,563	393	171	182	3,309
Scotland	1,486	224	98	104	1,912
Stanly	1,866	264	115	122	2,367
Stokes	826	121	52	56	1,055
Surry	2,296	344	150	160	2,950
Swain	504	55	24	26	609
Transylvania	867	129	56	60	1,112
Tyrrell	131	15	7	7	160
Union	4,276	594	259	275	5,404
Vance	2,042	318	139	146	2,645
Wake	20,808	2,918	1,269	1,352	26,347
Warren	470	60	26	28	584
Washington	477	77	34	35	623
Watauga	634	91	40	42	807
Wayne	5,164	785	342	362	6,653
Wilkes	1,526	232	101	107	1,966
Wilson	2,952	454	197	210	3,813
Yadkin	1,048	147	64	68	1,327
Yancey	464	78	34	36	612

# 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, 2014-2018: 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 2018 population estimates> <https://www.census.gov/acs/www/data/data-tables-and-tools/american-factfinder/>

**Population Estimate:** National Center for Health Statistics. Vintage 2018 postcensal estimates of the resident population of the United States (July 1, 2018). 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, 2019, following release by the U.S. Census Bureau of the unbridged Vintage 2018 postcensal estimates by 5-year age group on June 27, 2019.

**Birth Data:** North Carolina State Center for Health Statistics, 2018 Live Birth Certificate electronic data files.

**Fetal Death Data:** North Carolina State Center for Health Statistics, 2018 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) \* 35%) + Fetal deaths) % county population below 185% poverty

D = Breastfeeding women (\*\*65% (Live births)) % county population below 185% poverty

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

$$C = 6/12 * (((BIRTH * .35) + FETAL) * POV2)$$

$$D = ((.65 * BIRTH) * POV2)$$

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

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