

**2023 CHILD HEALTH REPORT CARD  
DATA SOURCES AND REFERENCES**

DEMOGRAPHICS

Data Sources:

*Numbers of babies born (live births):* NC Department of Health & Human Services, State Center for Health Statistics. Selected Vital Statistics for 2020 - North Carolina Reported Pregnancies for 2020-Resident Live Births by Race/Ethnicity of Child: North Carolina, 2011-2020 Available online at:

<https://schs.dph.ncdhhs.gov/data/vital/pregnancies/2020/Table3R-2020-totalpregn.c.pdf>

*Percent of total live births:* NC Department of Health & Human Services, State Center for Health Statistics. Selected Vital Statistics for 2020 - North Carolina Reported Pregnancies for 2020-Resident Live Births by Race/Ethnicity of Child: North Carolina, 2011-2020 Available online at:

<https://schs.dph.ncdhhs.gov/data/vital/pregnancies/2020/bthsrace.pdf>

*Children Under Age 18 (%):* U.S. Census Bureau. American Community Survey, Single-Year Estimates 2021, Table S0201: Selected Population Profile in the United States and Tables B01001B-I: Sex by Age. Available online at:

<https://data.census.gov/cedsci/>

HEALTHY BIRTHS

Data Sources:

*Newborns who are breastfed exclusively for at least 6 months:* Centers for Disease Control and Prevention, National Immunization Survey, Rates of Any and Exclusive Breastfeeding Rates among Children Born in 2017 and 2019. Percentage of infants who were exclusively breastfed through 6 months. Available online at:

[https://www.cdc.gov/breastfeeding/data/nis\\_data/results.html](https://www.cdc.gov/breastfeeding/data/nis_data/results.html)

*Women aged 18-44 with health insurance:* NC Department of Health & Human Services, State Center for Health Statistics. 2018 and 2021 Behavioral Risk Factor Surveillance System, Core State Preconception Health and Health Care Indicators.

**Data Key:**

‡ Asian includes Hawaiian/Pacific Islander

§ Other includes Multi-racial and Two or More Races

\* Race categories include Hispanic

† American Indian includes Native Alaskan

Percentage of women who currently have some type of health care coverage.  
Available online at: <http://www.schs.state.nc.us/data/preconception/>

*Women who receive early prenatal care: NC Department of Health & Human Services, State Center for Health Statistics. North Carolina Infant Mortality Report, Table 10: Risk Factors and Characteristics for North Carolina Resident Live Births, 2019 and 2020.* Available online at:  
<https://schs.dph.ncdhhs.gov/data/vital/ims/2020/2020-IMR-TABLE10-REV.html>

*Infant mortality rate per 1,000 live births: NC Department of Health & Human Services, State Center for Health Statistics. 2020 North Carolina Infant Mortality Report, Table 4: North Carolina Resident Infant Death Rates and Annual Percent Changes by Race/Ethnicity: 2020.* Available online at:  
<https://schs.dph.ncdhhs.gov/data/vital/ims/2020/2020-IMR-TABLE1.HTML>

*Babies who are born before 37 weeks of pregnancy: NC Department of Health & Human Services, State Center for Health Statistics. North Carolina Infant Mortality Report, Table 10: Risk Factors and Characteristics for North Carolina Resident Live Births: 2019 and 2020.* Available online at:  
<https://schs.dph.ncdhhs.gov/data/vital/ims/2020/2020-IMR-TABLE10-REV.html>

*Rate of births to teen girls ages 15-19 per 1,000: North Carolina Department of Health & Human Services, State Center for Health Statistics, NC Resident Fertility Rates: Females Ages 15-19 by Race/Ethnicity, 2019 and 2020.* Available online at  
<https://schs.dph.ncdhhs.gov/data/vital/pregnancies/2020/Table2B-2020-pregpubrates-1519Preg-v2.pdf>

## ACCESS TO CARE

### Data Sources:

*Kindergarten students with untreated tooth decay#§:* Data request to the Oral Health Section, Division of Public Health, North Carolina Department of Health and Human Services, Jan 2023.

*School Counselor Ratio: Student-to-School-Counselor*  
NC Department of Health & Human Services, Division of Public Health. North Carolina Annual School Health Services Report Brochure, 2019-2020. Available online at:  
<https://www.dph.ncdhhs.gov/wch/doc/stats/SN-AnnualReport-Brochure-11-1-20.pdf>

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*School Nurse Ratio: Student-to-School-Counselor Ratio 2021-2022 and 2018-2019, American School Counselor Association*

<https://www.schoolcounselor.org/getmedia/b9d453e7-7c45-4ef7-bf90-16f1f3cbab94/Ratios-21-22-Alpha.pdf>; (2018-2019)

<https://static1.squarespace.com/static/5a56b9aa017db276cd76b240/t/5e9663c6d3ddce144cdad0c2/1586914246609/Ratios18-19.pdf>

*Children with Medicaid who received a well-child check-up in the past year: Annual Early and Periodic Screening, Diagnostic, and Treatment Participation Report, Fiscal Years 2020 and 2018, Form CMS-416.*

<https://www.medicaid.gov/medicaid/benefits/epsdt/index.html>

*Children ages 19-35 months with appropriate immunizations:* Data request to the Immunization Services Division, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention. January 2023. Available online at: <https://www.cdc.gov/vaccines/vaxview/index.html>

*Adolescents ages 13-17 who have received 1 or more HPV vaccinations:* National Immunization Survey-Teen (TeenVaxView) 2020 and 2019. Available online at: <https://www.cdc.gov/vaccines/imz-managers/coverage/teenvaxview/data-reports/hpv/index.html>

*Children with Health Insurance†§\*:* U.S. Census Bureau, American Community Survey, 1-Year Estimates, 2021 and 2019. Table S2701: Selected Characteristics of Health Insurance Coverage Status in the United State and Tables B27001B-I: Health Insurance Coverage Status by Age. Available online at: <https://data.census.gov>

*Parents without health insurance\*†#§:* Special Data request to US Census Bureau. Analysis of data from U.S. Census Bureau, 2021 and 2019 American Community Surveys, Public Use Microdata Sample. Table B27001 Available online at: <https://data.census.gov>

## SECURE HOMES AND NEIGHBORHOODS

### Data Sources:

*Children who live in high-poverty neighborhoods:* Population Reference Bureau, analysis of data from the U.S. Census Bureau, 2014-18 and 2016-20, American Community Survey 5-year data; Data Provided by National KIDS COUNT. Available online at: <https://datacenter.kidscount.org/data#NC/2/0/char/0>

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*Children who live in poor or low-income households\*#§*: Population Reference Bureau, analysis of data from the U.S. Census Bureau, Census 2000 Supplementary Survey, 2001 Supplementary Survey, 2002 through 2019, 2021 American Community Survey. Table B17024. Available online at: <https://datacenter.kidscount.org/data/tables/47-children-below-200-poverty?loc=35&loct=2#detailed/2/35/false/2048,37/any/329>

*Children who have an asthma diagnosis\**: Child and Adolescent Health Measurement Initiative. 2020-2021 and 2018-2019 National Survey of Children's Health (NSCH) data query. Data Resource Center for Child and Adolescent Health supported by the U.S. Department of Health and Human Services, Health Resources and Services Administration (HRSA), Maternal and Child Health Bureau (MCHB).

Definition of children who have an asthma diagnosis includes children who "currently [have] condition" and "ever told, but [do] not currently have condition." Note - all the data for having asthma for all groups except white has the caveat of "Please interpret with caution: estimate has a 95% confidence interval width exceeding 20 percentage points or 1.2 times the estimate and may not be reliable." Available online at: <https://www.childhealthdata.org/browse/survey>

*Children investigated for child abuse or neglect\*†*: Duncan, D.F., Stewart, C.J., Vaughn, J.S., Guest, S., Rose, R.A., Malley, K., and Gwaltney, A.Y. (2018). Management Assistance for Child Welfare, Work First, and Food & Nutrition Services in North Carolina (V3.21). Retrieved [Feb 2023] from <http://ssw.unc.edu/ma>

*Children who exit to a permanent living situation within 24 months\*†*: Duncan, D.F., Stewart, C.J., Vaughn, J.S., Guest, S., Rose, R.A., Malley, K., and Gwaltney, A.Y. (2018). Management Assistance for Child Welfare, Work First, and Food & Nutrition Services in North Carolina (V3.21). Retrieved [Feb 2023] from <http://ssw.unc.edu/ma>.

*North Carolina Resident Child (age 0-17) death rates by type of death per 100,000*: North Carolina Child Fatality Task Force, with data produced by the N.C. Division of Public Health - Women's and Children's Health Section in conjunction with the State Center for Health Statistics. Available online at: <https://webservices.ncleg.gov/ViewDocSiteFile/71090>

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## HEALTH RISK FACTORS

### Data sources:

*Children ages 10-17 who are overweight or obese:* National Survey of Children's Health 2020-21 and 2018-19. Indicator 1.4a: Weight status (BMI) in 3 categories, age 10-17. Available online at: <https://www.childhealthdata.org/browse/survey>

*Children who live in food insecure households:* Feeding America, Map the Meal Gap, Childhood Food Insecurity by State, 2020 and 2018. Available online at: <http://map.feedingamerica.org/>

*Tobacco, Alcohol, EVP and Substance Use:* NC Healthy Schools Data. NC Department of Health and Human Services. NC High School Youth Risk Behavior Survey, 2021 and 2019. Available online at: <https://drive.google.com/file/d/1ii8okes5QrS3KdEEDCt7xOhHbk2MIF6x/view>

*High school students who attempted suicide in the past year§:* NC Healthy Schools Data. NC Department of Health and Human Services. NC High School Youth Risk Behavior Survey, 2021 and 2017. Available online at: <https://drive.google.com/file/d/1ii8okes5QrS3KdEEDCt7xOhHbk2MIF6x/view>

*Past-year major depressive episode among adolescents aged 12-17:* Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, National Surveys on Drug Use and Health, 2019 and 2018; Race/ethnicity data from Table 11.2B NSDUH Detailed Tables (year = 2019, all states). State level estimates for 2019-2020 are no longer available because they have been deemed unreliable due to changes in survey methodology related to the COVID-19 PHE. <https://www.samhsa.gov/data/report/2019-nsduh-detailed-tables> ; current/base data from <https://pdas.samhsa.gov/saes/state>

*Adolescents aged 12-17 with major depressive episode and received treatment for depression:* Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, National Surveys on Drug Use and Health, 2019 and 2018. State level estimates for 2019-2020 are no longer available because they have been deemed unreliable due to changes in survey methodology related to the COVID-19 PHE. Available online at: <https://www.samhsa.gov/data/>

*Third grade students reading at grade level§:* North Carolina Department of Public Instruction. State testing results, 2020–21 End-of-Grade Statewide Participation

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and Performance, Grade 3 Reading Available online at:  
<https://www.dpi.nc.gov/media/15583/open>; and  
<https://www.dpi.nc.gov/media/14611/open>

*High school students who graduate on time*§: North Carolina Department of Public Instruction. North Carolina Cohort Graduation Rate Reports, 2020-2021 and 2021-22. Available online at:  
<https://accrpt.tops.ncsu.edu/app/2022/cgr/> and  
<https://accrpt.tops.ncsu.edu/app/2021/cgr/>

#### SPECIAL ISSUE: YOUTH MENTAL HEALTH

##### References:

1. NC Youth Risk Behavior Survey qtd. North Carolina Healthy Schools Whole Child Update, January 2023
2. 2022 KIDSCOUNT Databook from the Annie E. Casey Foundation:  
<https://www.aecf.org/resources/2022-kids-count-data-book> Definition: Children who had anxiety or depression is the percentage of children ages 3 to 17 who have ever been diagnosed with or reported to have anxiety or depression by a doctor or health care provider.
3. "Declaration of a National Emergency in Child and Adolescent Mental Health," October 2021. AAP-AACAP-CHA.  
<https://www.aap.org/en/advocacy/child-and-adolescent-healthy-mental-development/aap-aacap-cha-declaration-of-a-national-emergency-in-child-and-adolescent-mental-health/>

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