NCDOT 2023 AADT Station Shapefile

The AADT shapefile is a station point shapefile of Annual Average Daily Traffic (AADT) estimates. This 2023 AADT data was submitted to FHWA for Highway Performance Monitoring System (HPMS) AADT data reporting for 2023. We report AADT on all highways functionally classified (FC) above Local. A full coverage is provided for these routes where AADT segmentation is based on network configuration, travel patterns, and land use. An AADT is an Annual Average Daily Traffic volume for all lanes in both directions passing a point on the highway system. It represents the average of all days during the year. An AADT estimate is generated using procedures that comply with the standards specified in the Traffic Monitoring Guide published by the Federal Highway Administration.

There are 48,817 AADT stations that provide traffic data history from 2002 to 2023. Due to the large number of short-term count stations located throughout North Carolina, Traffic Survey has adopted the following data collection schedule:

> **Interstate route** volumes are collected on an annual basis.

> **US** and **NC route** volumes are also collected on an annual basis with the exception of stations which fall within the off cycle urban areas. (See urban area cycle below.)

> **Secondary Road** (SR) volumes are collected on a biennial cycle with approximately half being counted each year. If a particular secondary road is not available for the most current year, it may be available for the prior year.

> North Carolina's eighteen largest **urban areas** are counted on a biennial cycle with 10 urban areas counted during the even years and 8 urban areas counted during the odd years.

> The following urban areas are collected during the **even year cycle**: Asheville, Charlotte, Concord-Kannapolis, Fayetteville, Gastonia, Goldsboro, Greenville, and Jacksonville

> The following urban areas are collected during the **odd year cycle**: Burlington, Chapel Hill, Durham, Greensboro, Hickory, High Point, Raleigh, Rocky Mount, Wilmington, and Winston-Salem

The points in this file were digitized referencing the NCDOT Linear Referencing System (LRS). They are based on GPS data collected on the side of the road when counters are installed but are digitized on road centerlines. The station locations are based on referencing to the 2024 Quarter 1 publication of the NCDOT LRS. Some differences will be found when using different quarterly publications with this data set.

The data provided is seasonally factored to an estimate of an annual average of daily traffic. All AADT are count based estimates and no growth factored estimates are included in the table. The statistics provided are:

LocationID: Traffic Survey's 10 character unique station identifier
      Digits 1-3 is the county code beginning with 001 and ending with 100
      Digits 4-10 is the station number for the indicated county
COUNTY: County Name
ROUTE: Numbered route identifier, or local name if not State maintained
LOCATION: Description of the station location
RTE_CLS: Route type for the route the station is located on (1 = I, 2 = US, 3 = NC, 4 = SR, 5 = Local, 8 = Ramp)
AADT_2002: Estimated Annual Average Daily Traffic in vehicles per day for 2002
AADT_2003: Estimated Annual Average Daily Traffic in vehicles per day for 2003
AADT_2004: Estimated Annual Average Daily Traffic in vehicles per day for 2004
AADT_2005: Estimated Annual Average Daily Traffic in vehicles per day for 2005
AADT_2006: Estimated Annual Average Daily Traffic in vehicles per day for 2006
AADT_2007: Estimated Annual Average Daily Traffic in vehicles per day for 2007
AADT_2008: Estimated Annual Average Daily Traffic in vehicles per day for 2008
AADT_2009: Estimated Annual Average Daily Traffic in vehicles per day for 2009
AADT_2010: Estimated Annual Average Daily Traffic in vehicles per day for 2010
AADT_2011: Estimated Annual Average Daily Traffic in vehicles per day for 2011
AADT_2012: Estimated Annual Average Daily Traffic in vehicles per day for 2012
AADT_2013: Estimated Annual Average Daily Traffic in vehicles per day for 2013
AADT_2014: Estimated Annual Average Daily Traffic in vehicles per day for 2014
AADT_2015: Estimated Annual Average Daily Traffic in vehicles per day for 2015
AADT_2016: Estimated Annual Average Daily Traffic in vehicles per day for 2016
AADT_2017: Estimated Annual Average Daily Traffic in vehicles per day for 2017
AADT_2018: Estimated Annual Average Daily Traffic in vehicles per day for 2018
AADT_2019: Estimated Annual Average Daily Traffic in vehicles per day for 2019
AADT_2020: Estimated Annual Average Daily Traffic in vehicles per day for 2020
AADT_2021: Estimated Annual Average Daily Traffic in vehicles per day for 2021
AADT_2022: Estimated Annual Average Daily Traffic in vehicles per day for 2022
AADT_2023: Estimated Annual Average Daily Traffic in vehicles per day for 2023

Note: A value of zero in the AADT field indicates there was no count based AADT data available for that year.

If additional information is needed, or an issue with the data is identified, please contact the Traffic Survey Group at (919) 707-0900.

DISCLAIMER: The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.