NCDOT GIS Unit Announcement – November 9, 2026

The GIS Unit is pleased to announce the release of our 3rd Quarter 2026 Publication Data Updates.

If you have any questions, please contact gishelp@ncdot.gov.

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Updated Data Sets

The following datasets were updated:

NCRouteArcs
NCRouteCharacteristics
NCRoutes
NHSRoutes
RoadAccessControl
RoadBarePvmnt
RoadFederalAid
RoadFunctionalClass
RoadPostedRoute
RoadSpeedLimit
RoadUnpaved
RoadFederalAid
RailroadCrossings
RailroadTrack
RailroadFacility
StructuresPoint
StructuresPolygon

Schema Updates

NC Route Characteristics, NCDOT Structures, NCDOT Bridges and NCDOT RailSystem services have modified schemas and may require a re-loading of the layer in existing maps to view them:

Schema changes for NC Route Characteristics layer:

. New field: SpeedLimitID
. Domain dPubTollID has new value: ID 421: I-485 Express Lanes
. Domain dPubMedianWidth changed from Long Integer to Short Integer
. Domain dPubSurfaceWidth changed from Long Integer to Short Integer

Schema changes for Structures and Bridges layers:

- Field lengths changed for fields FTR_INTRSC & F_CARRIED and MAINT_RESP
- Fields dropped: DETOUR_LEN, STRTYPMAIN, FUNC_OBSOL
- Domain values changed for domain dMAINT_RESP

Schema changes for Rail Crossings:

- New fields: AADT and AADT Year

GIS Unit Products Affected by the Update

The following GIS Unit products will reflect the data updates:

Geospatial Web Services

NCDOT District Boundaries
NCDOT Division Boundaries
NCDOT County Boundaries
NCDOT County Boundaries Shoreline
NCDOT Structures
NCDOT Bridges
NCDOT MPO & RPO Boundaries
NCDOT North Carolina Rail System
NCDOT North Carolina Railroads
NCDOT Road Characteristics
NCDOT State Maintained Roads
NCDOT Access Control
NCDOT Bare Pavement
NCDOT Federal Aid Routes
NCDOT Functional Class
NCDOT MilePost Hatching
NCDOT NHS
NCDOT Posted Roads - Light Traffic
NCDOT Speed Limits
NCDOT Unpaved Roads
NCDOT Shields

GO!NC/AGOL Web Maps

(available at http://ncdot.maps.arcgis.com)

NCDOT 2021-2029 STIP Map
NCDOT Structures Map
NCDOT Distance Hatches & Bridges Map
NCDOT Bridges Map
NCDOT Bridges, State Maintained Roads, and MPO/RPO Boundary Map
NCDOT Access Control Map
NCDOT Federal Aid Routes Map
NCDOT Road Events Map

NCDOT State Boundary Roadway Maintenance Status Change Map
NCDOT State Maintained Network Map
NCDOT State Maintained Roads, State Orthoimagery, and Parcels
NCDOT RoadNC Viewer Map
NCDOT Connecting North Carolina's Military and Families

Downloadable Data

(available at https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx)
Structure Locations Statewide (aka Bridges)
NCDOT Rail Layers Geodatabase
Road Characteristics Arcs File Geodatabase
NCRoutes File Geodatabase
NCRouteArcs File Geodatabase

Status of the Route Data

The following is the status of the route/road data provided at this quarterly data update:

Route Data Updated this Quarter:

This layer is a visual representation of public roads in North Carolina.
State-maintained roads are current through September 2026 for changes by NCDOT Petitions and Municipal Agreements processes. Other state-maintained construction projects that were processed this quarter are listed in this chart:

Document Number	Effective Year	Product	Description	County
COR_016_07-26_2	1938	Correction	SR 1345	CARTERET
COR_007_09-26_1	1979	Correction	SR 1365	BEAUFORT
COR_018_07-26_1	1983	Correction	SR 2657	CATAWBA
COR_016_07-26_1	1990	Correction	SR 1230	CARTERET
COR_026_07-26_1	2023	Correction	SR 4529	CUMBERLAND
COR_035_07-26_1	2026	Correction	SR 2181, 2192	FRANKLIN
COR_035_07-26_2	2026	Correction	SR 1299, 1300	FRANKLIN
COR_065_07-26_1	2026	Correction	SR 1272, 2313, 3300, 3303	NEW HANOVER
HTO_001_01-23	2023	HTO	US 70, NC 119, SR 1951, 1962, 1963, 1972, 1973, 1976, 1980, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2058	ALAMANCE
HTO_077_11-25	2025	HTO	I 73, US 74 BUS, SR 1005, 1141, 1239, 1246, 1247, 1248, 1303, 1348	RICHMOND
HTO_067_06-26	2026	HTO	NC 172, SR 3329	ONSLOW
LRS_20078_08-26	1946	LRS Change	SR 1182	RUTHERFORD
LRS_20118_08-26	1948	LRS Change	SR 3007	CRAVEN
LRS_20119_08-26	1950	LRS Change	SR 1118	CRAVEN

LRS_17204_09-26	1955	LRS Change	SR 1610	MACON
LRS_20103_07-26	1956	LRS Change	SR 3101	GUILFORD
LRS_20105_08-26	1956	LRS Change	SR 1103	PITT
LRS_20104_08-26	1957	LRS Change	SR 1718	PERSON
LRS_20113_08-26	1960	LRS Change	SR 2622	MECKLENBURG
LRS_20068_08-26	1962	LRS Change	SR 1119	RUTHERFORD
LRS_20108_08-26	1963	LRS Change	SR 1224	CARTERET
LRS_20117_08-26	1964	LRS Change	SR 1216	VANCE
LRS_17410_09-26	1965	LRS Change	SR 1574	TRANSYLVANIA
LRS_20098_07-26	1976	LRS Change	SR 1311	ORANGE
LRS_20094_07-26	1992	LRS Change	SR 1369	ROCKINGHAM
LRS_20083_08-26	1993	LRS Change	SR 1141	RUTHERFORD
LRS_20128_09-26	1993	LRS Change	SR 1330	POLK
LRS_20120_08-26	1996	LRS Change	SR 2085	ROWAN
LRS_20093_08-26	1997	LRS Change	SR 1389	RUTHERFORD
LRS_20116_08-26	1997	LRS Change	SR 2442	ROCKINGHAM
LRS_20086_08-26	1998	LRS Change	SR 1325	RUTHERFORD
LRS_20075_08-26	1999	LRS Change	SR 1157	RUTHERFORD
LRS_20080_08-26	1999	LRS Change	SR 1195	RUTHERFORD
LRS_20081_08-26	2000	LRS Change	SR 1200	RUTHERFORD
LRS_20114_08-26	2001	LRS Change	SR 1222	RUTHERFORD
LRS_20089_08-26	2007	LRS Change	SR 1356	RUTHERFORD
LRS_20135_09-26	2009	LRS Change	SR 1152	PITT
LRS_20129_09-26	2018	LRS Change	SR 1326, 1330	POLK
LRS_20124_08-26	2019	LRS Change	SR 2632	FORSYTH
LRS_20122_08-26	2026	LRS Change	SR 1302	MACON
LRS_20131_09-26	2026	LRS Change	SR 2074	RICHMOND
A-0011C	2025	TIP	SR 1115, 1118, 1119, 1120, 1140, 1142, 1143, 1190, 1208	CLAY
R-2707C	2025	TIP	NC 180, SR 1827, 1842, 1843, 1852, 1898, 1927, 1966, 1991, 2068, 2155, 9000	CLEVELAND
W-5701C	2025	TIP	SR 1333	PASQUOTANK
I-5700	2026	TIP	SR 1789	WAKE
R-5737	2026	TIP	SR 1798, 1874, 1929	DAVIDSON
U-6017	2026	TIP	NC 49, NC 54	ALAMANCE
U-6087	2026	TIP	SR 1162, 1346	UNION
U-6092	2026	TIP	SR 2693	MECKLENBURG
W-5706L	2026	TIP	NC 27, SR 1006, 2084	HARNETT

Non-System Route Data Updated This Quarter:
All represented non-state-maintained roads are updated using datasets maintained by local governments and other non-state agencies. They are reflective of the agency's last uploaded datasets. This chart indicates the last time each entity was updated for non-system and other non-state-maintained routes.

County	Last Updated	Updated this Quarter
Alamance	8/21/2025	
Alexander	2/23/2026	
Alleghany	2/25/2026	
Anson	6/3/2026	
Ashe	7/11/2025	
Avery	6/30/2026	Yes
Beaufort	7/30/2026	
Bertie	5/2/2025	Yes
Bladen	12/30/2025	
Brunswick	8/9/2025	
Buncombe	2/18/2026	Yes
Burke	7/2/2026	
Cabarrus	3/5/2026	
Caldwell	5/4/2026	Yes
Camden	5/14/2026	
Carteret	3/5/2026	
Caswell	2/3/2026	Yes
Catawba	7/31/2025	
Chatham	5/30/2026	
Cherokee	11/7/2025	
Chowan	6/26/2026	Yes
Clay	3/6/2025	Yes
Cleveland	8/24/2026	
Columbus	10/18/2025	
Craven	10/2/2026	
Cumberland	6/3/2026	
Currituck	9/12/2025	
Dare	12/10/2025	
Davidson	1/2/2026	Yes
Davie	1/3/2026	
Duplin	12/10/2025	
Durham	9/16/2026	Yes
Edgecombe	9/30/2025	
Forsyth	11/13/2025	
Franklin	2/5/2026	
Gaston	6/1/2026	Yes
Gates	9/15/2025	
Graham	9/12/2025	Yes
Granville	5/6/2026	
Greene	12/18/2025	
Guilford	7/29/2025	Yes

County	Last Updated	Updated this Quarter
Lee	12/10/2025	
Lenoir	2/27/2026	Yes
Lincoln	7/21/2026	Yes
Macon	9/11/2026	
Madison	5/13/2026	
Martin	10/3/2025	
McDowell	2/12/2026	
Mecklenburg	4/29/2026	
Mitchell	2/18/2026	
Montgomery	4/9/2025	
Moore	12/3/2025	
Nash	9/9/2026	Yes
New Hanover	1/28/2025	Yes
Northampton	6/26/2026	
Onslow	4/1/2026	
Orange	2/24/2026	
Pamlico	6/4/2026	Yes
Pasquotank	8/9/2024	
Pender	6/29/2026	Yes
Perquimans	9/16/2022	
Person	3/25/2025	
Pitt	6/16/2025	
Polk	10/9/2025	
Randolph	3/4/2026	
Richmond	9/8/2025	
Robeson	8/22/2025	
Rockingham	5/5/2026	
Rowan	6/10/2026	Yes
Rutherford	8/15/2025	
Sampson	5/14/2026	
Scotland	8/18/2025	Yes
Stanly	10/19/2023	
Stokes	3/4/2026	
Surry	2/7/2025	
Swain	6/17/2025	
Transylvania	2/23/2026	
Tyrrell	10/17/2025	
Union	3/4/2026	
Vance	6/16/2026	Yes
Wake	3/20/2026	
Warren	6/4/2025	

Halifax	5/6/2025	
Harnett	4/27/2026	
Haywood	9/24/2025	
Henderson	11/14/2025	
Hertford	11/6/2023	Yes
Hoke	2/3/2026	
Hyde	7/29/2024	Yes
Iredell	7/25/2025	
Jackson	4/8/2024	
Johnston	3/20/2026	

Washington	10/10/2025	
Watauga	2/26/2024	
Wayne	3/27/2025	
Wilkes	3/3/2026	
Wilson	8/18/2026	Yes
Yadkin	10/16/2026	
Yancey	6/2/2026	
EBCN Cherokee	9/17/2018	
EBCN Graham	9/21/2018	
EBCN Haywood	9/17/2018	

Known Issues:

- Measure Issues
  - 40001949018 - Measures 0.168455-0.210794
  - 40001605099 - Measure 7.553901/ 7.458895
  - 40401605099 - Measure 6.053371/ 6.053371
  - 50098721044/50000922044 – snapping issue
  - 40001100079/50098652079 – snapping issue
  - 40004027041/40004067041 – snapping issue
  - 40001412043/50097860043 – snapping issue
  - 40001800031/80006956031 - snapping issue
  - 20000019044 - 5.964976, 5.964977
  - 50095704049 - 0.035221 - 0.034583
  - 50096027013 - 0.18359, 0.183591
  - 50096225068 - 0.205789, 0.236298
- Route Hierarchy Issues
  - 80004251041 - begin 0.971671 end 1.009/80004254041 begin 0.3 end 0.338
- Inventory Issues:
  - 40601820041 inventory coding, should be 4 – Non-inventory
- Route Dominance Issues
  - 30400018023 in Lincoln Co should not exist, the route is bidirectional in the county
- Projects awaiting documentation to be added to data:
  - Highway Traffic Ordinance needed for US 70 - Havelock Bypass - in Craven County
  - Highway Traffic Ordinance needed for I-295 - Fayetteville Loop - in Cumberland County & Robeson County
- Negative values on MPLength and Lane Miles
  - 40001134078 - Measures 6.204-7.562291
  - 40001135050 - Measures 0.104167-1.063732
  - 40003192011 - Measures0.89-0.945521
  - 50090479011 - Measures 0-0.075493
  - 50091351011 - Measures 0-0.827338
  - 50095704049 - Measures 0-0.120086
  - 50096225068 - Measures 0-0.336555

  - 50097301043 - Measures 0-0.506422
  - 50098540049 - Measures 0-0.209908

- Disconnect Gaps/Shifts
  - Approximately 1,100 route disconnect gaps totaling 261 feet have been identified in NCRouteArcs, and approximately 1,600 route disconnect gaps totaling 249 feet have been identified in NCRouteCharacteristics. These gaps/shifts can have an impact on tools that rely on continuous route geometry. Email helpdesk@ncdot.gov if you need more information on the location of the gaps/shifts.

Improvements:

No improvements for this quarter

If you have any questions, please contact gishelp@ncdot.gov.

https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx