

The GIS Unit is pleased to announce the release of our First Quarter 2025 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:

BoundaryCountyPolygon (2025 Revised)
BoundaryMpoRpo (2025 Revised)
BoundarySmoothUrban (2025 Revised)
BoundaryStateNCPolygon (2025)
NCRouteArcs
NCRouteCharacteristics
NCRoutes
NHSRoutes
RoadAccessControl
RoadBarePvmnt
RoadFederalAid
RoadFunctionalClass
RoadPostedRoute
RoadSpeedLimit
RoadUnpaved
RoadFederalAid
RailroadCrossings
RailroadTrack
RailroadFacility
StructureLocationsPoint

Schema Updates

NCDOT MPO & RPO boundaries:

Dropped field ("Areas")

If these layers are used in any published Web Maps or Applications, this layer may need to be removed and re-added in order to have these fields visible.

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 March 2025 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_004_01-25_1	1962	Correction	SR 1147	ANSON
COR_018_03-25_1	1963	Correction	SR 1842	CATAWBA
COR_018_01-25_1	1967	Correction	SR 1842	CATAWBA
COR_035_01-25_1	2024	Correction	SR 2147	FRANKLIN
COR_035_01-25_2	2024	Correction	SR 2147	FRANKLIN
HTO_16_04-96	1996	HTO	US 29, US 29 BUS, SR 1376	CASWELL
HTO_034_01-25	2025	HTO	US 52, NC 74, SR 1840, 9001, 9002	FORSYTH
HTO_058_03-25	2025	HTO	US 17 BUS, US 64 ALT, NC 125, SR 1460	MARTIN
LRS_16772_02-25	1947	LRS Change	SR 2176	ROCKINGHAM
LRS_16790_02-25	1950	LRS Change	SR 1139	HALIFAX
LRS_16886_03-25	1971	LRS Change	SR 1164	CHEROKEE
LRS_16909_04-25	1987	LRS Change	SR 1983	CHATHAM
LRS_16804_03-25	1998	LRS Change	SR 1361	POLK
LRS_16780_02-25	2007	LRS Change	NC 16, SR 3176	CATAWBA
LRS_16748_01-25	2025	LRS Change	SR 2259, 2260	DAVIDSON
LRS_16939_04-25	2025	LRS Change	SR 1215, 1985	HENDERSON

W-4003	2003	TIP	NC 42, NC 58, SR 1356	WILSON
I-2511CB	2008	TIP	SR 1915, 2125, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2283	ROWAN
2C.054052	2009	TIP	SR 1511	LENOIR
R-0513	2009	TIP	I 74, I 95, US 74, US 74 ALT, US 74 BUS, US 301, SR 1003, 1155, 1157, 1166, 1198, 1207, 1212, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1362, 1393, 2235, 2316, 2317, 2416, 2417, 2418, 2420, 2499, 2500, 2534, 2539, 2541, 6085, 6087, 6091	ROBESON
R-2413A	2017	TIP	SR 2011, 2127, 2128, 2131, 2133, 2269, 4669, 5074, 5075, 5076, 9001	GUILFORD
U-5776	2020	TIP	SR 1106, 1972	CALDWELL
U-3633	2022	TIP	SR 2093, 3243	GASTON
W-5601EV	2022	TIP	NC 87	COLUMBUS
B-4484	2023	TIP	SR 1470	CRAVEN
R-5742	2023	TIP	NC 175, SR 1159	CLAY
U-3609BA	2023	TIP	SR 1705, 2254	WAYNE
W-5706J	2023	TIP	SR 1002, 1007, 1606	COLUMBUS
B-5825_034	2024	TIP	NC 67, SR 1600	FORSYTH
B-5825_099	2024	TIP	NC 67, SR 1607	YADKIN
I-3819B_U-6039	2024	TIP	I 77, US 64, SR 2333	IREDELL
R-2530B_062	2024	TIP	NC 24, NC 27, NC 73	MONTGOMERY
R-2530B_084	2024	TIP	NC 24, NC 27, NC 73, SR 1720, 1774	STANLY
U-2412A	2024	TIP	SR 1486, 4255	GUILFORD
U-2714	2024	TIP	US 117, US 117 BUS, SR 1668, 2089	WAYNE
U-5888	2024	TIP	US 23 BUS	HAYWOOD
W-5706AA	2024	TIP	SR 1317	COLUMBUS
Y-5500JC	2024	TIP	SR 1300, 1432, 3953	UNION

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	1/17/2025	yes
Alexander	2/11/2025	yes
Alleghany	2/20/2025	yes
Anson	2/27/2025	yes
Ashe	5/3/2024	
Avery	1/25/2021	
Beaufort	5/25/2021	
Bertie	5/19/2021	

County	Last Updated	Updated this Quarter
Lee	6/6/2024	
Lenoir	2/5/2020	
Lincoln	1/24/2025	yes
Macon	11/3/2020	
Madison	8/18/2020	
Martin	6/9/2023	
McDowell	7/5/2024	
Mecklenburg	9/23/2024	

Bladen	2/28/2025	yes
Brunswick	5/23/2024	
Buncombe	1/9/2025	yes
Burke	10/27/2021	
Cabarrus	9/13/2024	
Caldwell	8/6/2018	
Camden	11/20/2024	
Carteret	11/20/2024	
Caswell	2/18/2025	yes
Catawba	7/24/2023	
Chatham	12/9/2024	yes
Cherokee	5/20/2024	
Chowan	6/6/2022	
Clay	3/6/2025	yes
Cleveland	9/28/2022	
Columbus	11/6/2024	
Craven	10/4/2021	
Cumberland	1/24/2025	yes
Currituck	1/10/2023	
Dare	8/22/2024	
Davidson	1/9/2025	yes
Davie	11/16/2024	
Duplin	5/23/2024	
Durham	1/28/2025	yes
Edgecombe	4/22/2020	
Forsyth	7/5/2024	
Franklin	1/21/2020	
Gaston	1/17/2025	yes
Gates	1/13/2023	
Graham	5/16/2022	
Granville	1/11/2023	
Greene	4/21/2020	
Guilford	3/27/2024	
Halifax	11/21/2024	
Harnett	8/11/2024	
Haywood	1/11/2023	
Henderson	3/15/2024	
Hertford	6/1/2021	
Hoke	9/19/2024	
Hyde	2/2/2021	
Iredell	9/12/2024	
Jackson	4/1/2021	
Johnston	9/3/2024	
Jones	2/6/2023	
US Forest Service		

Mitchell	3/11/2022	
Montgomery	9/3/2024	
Moore	8/22/2024	
Nash	3/22/2022	
New Hanover	1/28/2025	yes
Northampton	3/15/2022	
Onslow	8/18/2021	
Orange	12/9/2024	
Pamlico	11/10/2020	
Pasquotank	8/25/2020	
Pender	10/31/2019	
Perquimans	1/25/2021	
Person	1/9/2024	
Pitt	5/15/2024	
Polk	3/20/2023	
Randolph	9/3/2024	
Richmond	12/7/2021	
Robeson	12/13/2019	
Rockingham	11/5/2024	
Rowan	3/19/2025	yes
Rutherford	3/20/2023	
Sampson	11/4/2024	
Scotland	1/27/2025	yes
Stanly	5/1/2023	
Stokes	6/25/2024	
Surry	3/27/2024	
Swain	10/22/2020	
Transylvania	6/26/2024	
Tyrrell	2/2/2021	
Union	6/5/2024	
Vance	10/26/2020	
Wake	2/9/2023	
Warren	2/5/2021	
Washington	5/1/2023	
Watauga	4/14/2021	
Wayne	6/24/2024	
Wilkes	5/9/2022	
Wilson	1/11/2021	
Yadkin	4/6/2022	
Yancey	1/26/2021	
EBCN Cherokee	9/17/2018	
EBCN Graham	9/21/2018	
EBCN Haywood	9/17/2018	
EBCN Jackson	9/17/2018	

Known Issues:

- Measure Issues
 - 30000027060 - Route measure issues
 - 50492404092 - Measure 0.174518 - point measure issue
- Event Issues
 - Missing UrbanID on 30000032007
- Route Hierarchy Issues
 - 80007152018 - begin 0.490121 end 1.160062/80007160018 begin 0.421 end 1.497971
 - 80007154018 - begin 0.867076 end 1.526513/80007161018 begin 0.421371 end 0.748295
 - 80004251041 - begin 0.971671 end 1.009/80004254041 begin 0.3 end 0.338

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