



The GIS Unit is pleased to announce the release of our 1st Quarter 2022 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:

NCRouteCharacteristics
NCRoutes
NCRouteArcs
NHSRoutes
RoadFunctionalClass
RoadUnpaved
RoadPostedRoute
RoadSpeedLimit
RoadBarePvmnt
RoadAccessControl
RoadFederalAid
GEOMETRICRTEBNDRYINTERSECTIONS
GEOMETRICRSARCSCOMMON
RailroadCrossings
RailroadTrack
RailroadFacility
StructuresPoint
BoundaryMunicipal
BoundaryDotDistrict
BoundaryDotDivision
BoundaryCountyPolygon
BoundaryCountyArc
BoundaryStateNCPolygon
BoundaryCountyShoreline
BoundarySmoothUrban

Schema Updates

No schema updates have been identified this quarter



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 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 MileMarker 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 Track Shapefile](#)

[NCDOT Rail Crossing Shapefile](#)

[NCDOT Rail Facility Shapefile](#)

[NCDOT Rail Layers Geodatabase](#)

[Road Characteristics Arcs Shapefile](#)

[Road Characteristics Arcs File Geodatabase](#)

[NCRoutes Shapefile](#)

[NCRoutes File Geodatabase](#)

[NCRouteArcs Shapefile](#)

[NCRouteArcs File Geodatabase](#)

2020 AADT Data Disclosure

Refer to the [pandemic 2020 AADT data disclosure document](#) for information about how the COVID-19 pandemic affected North Carolina 2020 traffic monitoring collection efforts and generation of Annual Average Daily Traffic (AADT) data sets.

Status of the Route Data

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

Improvements

Route Data Currency:

For visual representation of public roads in North Carolina. System roads (state maintained) are current through December 2021 for changes by NCDOT Petitions and Municipal Agreements process.

Non-system roads (maintained by local governments) are up to date for Alamance (up to date as of 5/26/2021), Alexander (up to date as of 1/28/2021), Alleghany (up to date as of 11/25/2021), Anson (up to date as of 8/3/2012), Ashe (up to date as of 4/16/2019), Avery (up to date as of 1/25/2021), Beaufort (up to date as of 5/25/2021), Bertie (up to date as of 5/19/2021), Bladen (up to date as of 8/11/2020), Brunswick (up to date as of 6/18/2021), Buncombe (up to date as of 6/18/2021), Burke (up to date as of 10/27/2021), Cabarrus (up to date as of 9/29/2021), Caldwell (up to date as of 8/6/2018), Camden (up to date as of 11/3/2020), Carteret (up to date as of 11/15/2021), Caswell (up to date as of 5/26/2020), Catawba (up to date as of 10/14/2020), Chatham (up to date as of 9/30/2021), Cherokee (up to date as of 8/18/2021), Chowan (up to date as of 11/2/2020), Clay (up to date as of 5/25/2021), Cleveland (up to date as of 5/14/2021), Columbus (up to date as of 11/1/2021), Craven (up to date as of 10/4/2021), Cumberland (up to date as of 12/23/2020), Currituck (up to date as of 10/29/2019), Dare (up to date as of 2/1/2021), Davidson (up to date as of 10/6/2021), Davie (up to date as of 12/1/2021), Duplin (up to date as of 1/26/2021), Durham (up to date as of 6/8/2021), Cherokee (up to date as of 9/17/2018), EBCN Graham (up to date as of 9/21/2018), EBCN Haywood (up to date as of 9/17/2018), EBCN Jackson

(up to date as of 9/17/2018), Edgecombe (up to date as of 4/22/2020), Forsyth (up to date as of 5/24/2021), Guilford (up to date as of 4/1/2021), Gaston (up to date as of 10/7/2021), Gates (up to date as of 10/29/2019), Graham (up to date as of 9/21/2018), Granville (up to date as of 10/29/2019), Greene (up to date as of 4/21/2020), Guilford (up to date as of 1/11/2021), Halifax (up to date as of 10/28/2019), Harnett (up to date as of 8/22/2021), Haywood (up to date as of 11/8/2019), Henderson (up to date as of 10/14/2021), Hertford (up to date as of 6/1/2021), Hoke (up to date as of 8/24/2020), Hyde (up to date as of 2/2/2021), Iredell (up to date as of 5/25/2021), Jackson (up to date as of 4/1/2021), Johnston (up to date as of 5/14/2021), Jones (up to date as of 5/26/2021), Lee (up to date as of 6/16/2021), Lenoir (up to date as of 2/5/2020), Lincoln (up to date as of 8/18/2021), Macon (up to date as of 11/3/2020), Madison (up to date as of 8/18/2020), Martin (up to date as of 11/16/2020), McDowell (up to date as of 12/31/2019), Mecklenburg (up to date as of 6/18/2021), Mitchell (up to date as of 1/29/2020), Montgomery (up to date as of 1/25/2021), Moore (up to date as of 6/4/2020), Nash (up to date as of 10/22/2019), New Hanover (up to date as of 6/15/2021), Northampton (up to date as of 5/4/2020), Onslow (up to date as of 8/18/2021), Orange (up to date as of 10/14/2021), Pamlico (up to date as of 11/10/2020), Pasquotank (up to date as of 8/25/2020), Pender (up to date as of 10/31/2019), Perquimans (up to date as of 1/25/2021), Person (up to date as of 1/29/2020), Pitt (up to date as of 10/18/2021), Polk (up to date as of 2/5/2020), Randolph (up to date as of 5/11/2021), Richmond (up to date as of 12/7/2021), Robeson (up to date as of 12/13/2019), Rockingham (up to date as of 5/4/2021), Rowan (up to date as of 10/19/2020), Rutherford (up to date as of 8/14/2018), Sampson (up to date as of 11/16/2020), Scotland (up to date as of 11/4/2020), Stanly (up to date as of 11/19/2020), Stokes (up to date as of 1/22/2020), Surry (up to date as of 11/10/2020), Swain (up to date as of 10/22/2020), Transylvania (up to date as of 1/10/2020), Tyrrell (up to date as of 2/2/2021), Union (up to date as of 5/13/2021), Vance (up to date as of 10/26/2020), Wake (up to date as of 8/17/2021), Warren (up to date as of 2/5/2021), Washington (up to date as of 1/25/2021), Watauga (up to date as of 4/14/2021), Wayne (up to date as of 5/10/2021), Wilkes (up to date as of 5/26/2020), Wilson (up to date as of 1/11/2021), Yadkin (up to date as of 8/24/2020), Yancey (up to date as of 1/26/2021).

HPMS Samples (Sample Id) were updated this year to address TOPS violations, reflect network changes, and meet adequacy requirements.

- 100 new samples have been created

Non-System Route Data Updated This Quarter:

Burke (up to date as of 10/27/2021), Cabarrus (up to date as of 9/29/2021), Carteret (up to date as of 11/15/2021), Chatham (up to date as of 9/30/2021), Columbus (up to date as of 11/1/2021), Craven (up to date as of 10/4/2021), Davidson (up to date as of 10/6/2021), Davie (up to date as of 12/1/2021), Gaston (up to date as of 10/7/2021), Henderson (up to date as of 10/14/2021), Macon (up to date as of 11/3/2021), Orange (up to date as of 10/14/2021), Pitt (up to date as of 10/18/2021), Richmond (up to date as of 12/7/2021).

Route Data Updated this Quarter:

This layer is a visual representation of public roads in North Carolina. State maintained roads are current through December 2021 for changes by NCDOT Petitions and Municipal Agreements processes.

All represented non-system roads are maintained by local governments and are reflective of the last uploaded datasets. Non-system roads specifically updated this quarter are: Burke, Cabarrus, Carteret, Chatham, Columbus, Craven, Davidson, Davie, Gaston, Henderson, Macon, Orange, Pitt, and Richmond counties.

Known Issues:

- An incorrect length is listed for 20600264074. It is listed as 35.29 miles and should be 34.45. This should be corrected in Q2 2022.
- An incorrect length is listed for 40001655047. It is listed as 0.47 miles and should be 0.38. This should be corrected in Q2 2022.

Improvements

Ownership information is being updated for some non-system road categories. Generally, the updates include Owner Type, Owner Name, Facility Type, Through Lane Count, Surface Type, Route Class, Travel Direction, and corrections to the network.

- Roads within the Blue Ridge Parkway National Park System have been completed
- Roads maintained by other state agencies, including State Parks, Wildlife Resources Commission, and others are in progress
- Municipal roads are in progress
 - Work has been done in divisions 5 and 7 this quarter