

The GIS Unit is pleased to announce the release of our 3rd Quarter 2023 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:

BoundaryCountyArc
BoundaryCountyPolygon
BoundaryCountyShoreline
BoundaryDOTDistrict
BoundaryDOTDivision
BoundaryMpoRpo
BoundaryMunicipal

BoundarySmoothUrban BoundaryStateNCPolygon

NCRouteArcs

NCRouteCharacteristics

NCRoutes

NHSRoutes

Road Access Control

RoadBarePvmnt

RoadFederalAid

Road Functional Class

RoadPostedRoute

Road Speed Limit

RoadUnpaved

RoadFederalAid

Rail road Crossings

Rail road Track

RailroadFacility

StructuresPoint

Schema Updates







The following schema changes occurred during this publication cycle. None of the schema changes affect symbols or drawing of the layers. However, if you have maps or applications using these data layers, you may need to remove and re-add the layers to see the schema changes.

NCDOT Bridges and NCDOT Structures:

The following fields have been removed from the Structures and Bridges datasets: STRUCT_DEF SUFFRATING DEF_NETWRK NHS NATTRUCNET

NCDOT Railroads and NCDOT Rail System:

Railroad Crossings- Division field changed to DIVISION, WARNING_TYPE field added Railroad Facility- County field added Railroad Track- BEGMP, ENDMP, and TRACKTYPE fields added

NCDOT Road Characteristics:

NCRouteCharacteristics- AADTTruck field changed to AadtTruck

NCDOT Geometrics Report:

GeometricRteBndryIntersections- routeid field length changed from 15 to 11

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 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







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 June 2023 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 3/1/2023), 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 of4/16/2019), 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 8/19/2022), Buncombe (up to date as of 7/1/2022), Burke (up to date as of 10/27/2021), Cabarrus (up to date as of 9/27/2022), 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 9/27/2022), Cherokee (up to date as of 8/18/2021), Chowan (up to date as of 6/6/2022), Clay (up to date as of 5/25/2021), Cleveland (up to date as of 9/28/2022), Columbus (up to date as of 11/1/2021), Craven (up to date as of 10/4/2021), Cumberland (up to date as of 3/16/2023), Currituck (up to date as of 1/10/2023), Dare (up to date as of 2/1/2021), Davidson (up to date as of 10/4/2022), Davie (up to date as of 12/1/2021), Duplin (up to date as of 1/26/2021), Durham (up to date as of 7/18/2022), 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 5/17/2023), Guilford (up to date as of 5/15/2023), Gaston (up to date as of 10/4/2022), Gates (up to date as of 1/13/2023), Graham (up to date as of 5/16/2022), Granville (up to date as of 1/11/2023), Greene (up to date as of 4/21/2020), Guilford (up to date as of 1/11/2021), Halifax (up to date as of 5/31/2022), Harnett (up to date as of 8/22/2021), Haywood (up to date as of 1/11/2023), Henderson (up to date as of 10/24/2022), 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 5/15/2023), Jackson (up to date as of 4/1/2021), Johnston (up to date as of 5/1/2023), Jones (up to date as of 2/15/2023), 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 8/19/2022), Mitchell (up to date as of 3/11/2022), Montgomery (up to date as of 1/25/2021), Moore (up to date as of 6/4/2020), Nash (up to date as of 3/22/2022), New Hanover (up to date as of 4/12/2022), Northampton (up to date as of 3/15/2022), Onslow (up to date as of 8/18/2021), Orange (up to date as of 10/24/2022), 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 11/1/2022), Polk (up to date as of 3/20/2023), 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 3/20/2023), Sampson (up to date as of 11/16/2020), Scotland (up to date as of 11/4/2020), Stanly (up to date as of 5/1/2023), Stokes (up to date as of 2/20/2023), 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 5/24/2022), Vance (up to date as of 10/26/2020), Wake (up to date as of 2/9/2023), Warren (up to date as of 2/5/2021), Washington (up to date as of 5/1/2023), Watauga (up to date as of 4/14/2021), Wayne







(up to date as of 5/26/2022), Wilkes (up to date as of 5/9/2022), Wilson (up to date as of 1/11/2021), Yadkin (up to date as of 4/6/2022), Yancey (up to date as of 1/26/2021).

Non-System Route Data Updated This Quarter:

Alamance (up to date as of 3/1/2023), Forsyth (up to date as of 5/17/2023), Guilford (up to date as of 5/15/2023), Haywood (up to date as of 1/11/2023), Iredell (up to date as of 5/15/2023), Johnston (up to date as of 5/1/2023), Polk (up to date as of 3/20/2023), Stanly (up to date as of 5/1/2023), Washington (5/1/2023).

Route Data Updated this Quarter:

This layer is a visual representation of public roads in North Carolina. State maintained roads are current through June 2023 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: Alamance, Forsyth, Guilford, Haywood, Iredell, Johnston, Polk, Stanly, Washington counties.

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Known Issues:

There are overlapping / duplicate segments in Road Characteristics and NCRouteArcs:

- Routeld 10000026011 begin 27.037805 end 28.241804/20000074011 begin 17.291804 end 18.495804
- Routeld 80007152018 begin 0.490121 end 1.160062/80007160018 begin 0.421 end 1.497971
- Routeld 80007154018 begin 0.867076 end 1.526513/80007161018 begin 0.421371 end 0.748295
- Routeld 80004251041 begin 0.971671 end 1.009/80004254041 begin 0.3 end 0.338
- Routeld 80006531026 begin 0.077149 end 0.539079/80006532026 begin 0.072623 end 0.536

There are parametric curves present on these routes which can cause issues with geoprocessing tools. The curves need to be densified before using such tools:

- Routeld 40001326061 XY location 1044836.81279, 855448.392442
- Routeld 40001576067 XY location 2544695.55134, 343110.781666

Improvements:

No improvements this quarter



