



The GIS Unit is pleased to announce the release of our 4th Quarter 2024 Publication data updates.

If you have any questions, please contact [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov).

## Contents

[Updated Data Sets](#)

[Schema Updates](#)

[GIS Unit Products Affected by the Update](#)

[Status of the Route Data](#)

## Updated Data Sets

The following datasets were updated:

BoundaryCountyArc  
BoundaryCountyPolygon  
BoundaryCountyShoreline  
BoundaryDOTDistrict  
BoundaryDOTDivision  
BoundaryMpoRpo  
BoundaryMunicipal  
BoundarySmoothUrban  
BoundaryStateNCPolygon  
NCRouteArcs  
NCRouteCharacteristics  
NCRoutes  
NHSRoutes  
RoadAccessControl  
RoadBarePvmnt  
RoadFederalAid  
RoadFunctionalClass  
RoadPostedRoute  
RoadSpeedLimit  
RoadUnpaved  
RoadFederalAid  
RailroadCrossings  
RailroadTrack  
RailroadFacility  
StructuresPoint



## Schema Updates

### NCDOT Smoothed Urban Boundaries- Field Addition:

A field has been added to the [NCDOT Smoothed Urban Boundaries](#) Service: FHWA\_UA

**Military Base Name Change:** Ft Bragg has been updated to Ft Liberty

## 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 September 2024 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 3/27/2024), 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 5/3/2024), 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 5/23/2024), Buncombe (up to date as of 6/1/2023), Burke (up to date as of 10/27/2021), Cabarrus (up to date as of 7/11/2023), 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 7/24/2023), Chatham (up to date as of 7/10/2023), Cherokee (up to date as of 5/20/2024), 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 4/15/2024), Currituck (up to date as of 1/10/2023), Dare (up to date as of 8/22/2024), Davidson (up to date as of 6/1/2023), Davie (up to date as of 12/1/2021), Duplin (up to date as of 5/23/2024), Durham (up to date as of 9/13/2023), 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 7/5/2024),



Guilford (up to date as of 5/15/2023), Gaston (up to date as of 3/15/2024), 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 3/27/2024), 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 3/15/2024), 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 9/3/2024), Jones (up to date as of 2/15/2023), Lee (up to date as of 6/6/2024), 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 6/9/2023), McDowell (up to date as of 7/5/2024), Mecklenburg (up to date as of 9/13/2023), Mitchell (up to date as of 3/11/2022), Montgomery (up to date as of 9/3/2024), Moore (up to date as of 8/22/2024), Nash (up to date as of 3/22/2022), New Hanover (up to date as of 5/1/2023), Northampton (up to date as of 3/15/2022), Onslow (up to date as of 8/18/2021), Orange (up to date as of 11/20/2023), 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 1/9/2024), Pitt (up to date as of 5/15/2024), Polk (up to date as of 3/20/2023), Randolph (up to date as of 9/3/2024), 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 6/6/2023), 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 6/25/2024), Surry (up to date as of 3/27/2024), Swain (up to date as of 10/22/2020), Transylvania (up to date as of 6/26/2024), Tyrrell (up to date as of 2/2/2021), Union (up to date as of 6/5/2024), 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:

Brunswick (up to date as of 5/23/2024), Dare (up to date as of 8/22/2024), Duplin (up to date as of 5/23/2024), Forsyth (up to date as of 7/5/2024), Guilford (up to date as of 3/27/2024), Johnston (up to date as of 9/3/2024), Lee (up to date as of 6/6/2024), McDowell (up to date as of 7/5/2024), Montgomery (up to date as of 9/3/2024), Moore (up to date as of 8/22/2024), Randolph (up to date as of 9/3/2024), Stokes (up to date as of 6/25/2024), Transylvania (up to date as of 6/26/2024), Union (up to date as of 6/5/2024).

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

### Route Data Updated this Quarter:

This layer is a visual representation of public roads in North Carolina. State maintained roads are current through September 2024 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: Brunswick, Dare, Duplin, Forsyth, Guilford, Johnston, Lee, McDowell, Montgomery, Moore, Randolph, Stokes, Transylvania, and Union counties. If you have any questions, please contact [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov).

## Known Issues:

- There are overlapping / duplicate segments in Road Characteristics, NCRouteArcs, and NCRoutes:
  - 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
- Posted Routes data on non-secondary routes are being investigated:
  - 30000037094
  - 30000094089
  - 50082391060
  - 50095417025
  - 50095418025
  - 50095542025
  - 50096539025
  - 50098520054
  - 50098699073

## Improvements:

No improvements this quarter