NCDOT GIS Unit Announcement – February 13, 2023

The GIS Unit is pleased to announce the release of our 1st Quarter 2023 Publication data updates.

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

Contents

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

NC MileMarker Hatching- Addition of Milepost Endpoints and proposed geoservice service modification:

The Milemarker Hatching service has added Milepost Endpoint markers, initially provided as an enhancement for application support purposes. Because the addition of this layer will affect the native display and layer id configurations, we have decided to modify the service to truncate all Milepost Zero markers into one layer. Visualization will largely remain unchanged, except for the inability to turn route types off individually.
A draft service
https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOT_MileMarkerHatching_Updated/MapServer
will be available for review during this first quarter, with the plan to replace the existing service with this draft version by 2nd quarter 2023. For any questions or concerns, please contact Jeremy Aycock at
jtaycock@ncdot.gov

NC Rail- Addition of Division Field
RailroadCrossings and RailroadTrack feature classes have added the field "Division" to the schema. This update should be available on all GIS unit products with this quarterly release.

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](#)

NCDOT GIS: Shapefile Data Format Discontinued

Starting with the Quarter 1, 2023 release of the GIS Data layers, the GIS unit will no longer distribute data in shapefile format. Any data currently released only in shapefile format will be released in file geodatabase format moving forward.
If you have any questions, please contact gishelp@ncdot.gov

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 2022 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 6/21/2022), 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 10/31/2022), 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 3/17/2022), Currituck (up to date as of 10/29/2019), Dare (up to date as of 2/1/2021), Davidson (up to date as of 10/4/2022), 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 7/21/2022), Guilford (up to date as of 4/1/2021), Gaston (up to date as of 10/4/2022), Gates (up to date as of 10/29/2019), Graham (up to date as of 5/16/2022), 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 5/31/2022), Harnett (up to date as of 8/22/2021), Haywood (up to date as of 11/8/2019), Henderson (up to date as of 10/24/2022), 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 8/3/2022), Jackson (up to date as of 4/1/2021), Johnston (up to date as of 8/5/2022), 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 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 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

5/24/2022), Vance (up to date as of 10/26/2020), Wake (up to date as of 6/20/2022), 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 5/26/2022), 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:

Cabarrus (up to date as of 9/27/2022), Chatham (up to date as of 9/27/2022), Cleveland (up to date as of 9/28/2022), Davidson (up to date as of 10/4/2022), Gaston (up to date as of 10/4/2022), Henderson (up to date as of 10/24/2022), Orange (up to date as of 10/24/2022), Pitt (up to date as of 11/1/2022).

Route Data Updated this Quarter:

This layer is a visual representation of public roads in North Carolina. State maintained roads are current through December 2022 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: Cabarrus, Chatham, Cleveland, Davidson, Gaston, Henderson, Orange, and Pitt counties.

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

Known Issues:

A change occurred this year (2021) that could not be implemented at this time for all mainline AADT stations at Interstate and Freeway station points. 2021 AADT may not be available at all Interstate/Freeway locations.

Improvements:

No improvements this quarter