

The GIS Unit is pleased to announce the release of our Third Quarter 2017 Publication updates and new products.

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

New GIS Unit Products

NCDOT 2018-2020 Highway Maintenance Improvement Program (HMIP) Data

Available as a map service and web map through GO!NC

[NCDOT HMIP 2018 2020 geospatial web service](#)

[NCDOT 2018-2020 HMIP Web Map](#)

New Basemaps in the GO!NC Map Viewer

New basemaps available through the Basemap Menu in the [GO!NC ArcGIS Online Map Viewer](#).

- NCOneMap Orthoimagery - Latest Orthoimagery hosted by NCOneMap ([more info](#))
- DeLorme World Basemap – DeLorme topographic basemap provided by Esri ([more info](#))
- Navigation Charts – World navigation charts provided by Esri ([more info](#))
- USA Topo Maps – USGS topographic maps provided by National Geographic ([more info](#))
- USGS National Map – USGS Topo basemap from The National Map ([more info](#)) (Note: this basemap is sometimes slow to use)
- World Navigation – World Navigation Living Atlas vector tile layer provided by Esri ([more info](#))

Dynamic Layers Piloted For Select Geospatial Web Services

Dynamic layers has been enabled on the following geospatial web services. This new capability allows you to change the symbology for these services when used in the GO!NC map viewer (and other clients).

- NCDOT County Boundaries
- NCDOT State Maintained Roads
- NCDOT Road Characteristics
- NCDOT City Boundaries
- NCDOT Structures
- NCDOT Division Boundaries
- NCDOT District Boundaries

Access to a New Application

Esri Landsat Explorer – An application created by Esri to "...visualize our planet and understand how the Earth has changed over time. The Esri Landsat Explorer app provides the power of Landsat satellites, which gather data beyond what the eye can see. Use this app to draw on Landsat's different bands to better explore the planet's geology, vegetation, agriculture, and cities. Additionally, access the entire Landsat archive to visualize how the Earth's surface has changed over the last forty years."

Updated Data Sets

The following data sets were updated this quarter:

1. Bridges/Structures
2. Rail System
3. NC Route Characteristics
4. NC Routes
5. NC Route Arcs
6. Smoothed Urban Boundaries

The following data sets were updated since the last quarter:

1. NCDOT 2018-2027 STIP – The STIP data was updated to reflect the current STIP

GIS Unit Products Affected by the Update

The following GIS Unit products will reflect the data updates.

Geospatial Web Services

- [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 Mile Marker Hatching](#)
- [NCDOT NHS](#)
- [NCDOT Posted Roads - Light Traffic](#)
- [NCDOT Speed Limits](#)
- [NCDOT Truck Network](#)
- [NCDOT Unpaved Roads](#)
- [NCDOT ShieldsQtr](#)
- [NCDOT UrbanBdy](#)
- [NCDOT STIP](#)

GO!NC/AGOL Web Maps

(available at <http://ncdot.maps.arcgis.com>)

[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 2018-2027 STIP](#) (This map was updated to reflect the new STIP data)

[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](#)

SDV Desktop and SDV Online Layers

Bridges

Bridges (Table) (SDV Online Only)

Rail System

Railroad (Reference)

Access Control

Bare Pavement (Snow Removal)

Bare Pavement (Snow Removal) (table) (SDV Online Only)

Federal Aid Routes

Functional Class

Functional Class (table) (SDV Online Only)

NC Truck Network

Milemarker Hatching

NHS (National Highway System)

NHS (National Highway System) (table) (SDV Online Only)

Posted Roads (Light Traffic)

Posted Roads (Light Traffic) (table) (SDV Online Only)

Road Characteristics

Road Characteristics (table) (SDV Online Only)

Route Shields

Speed Limit

Speed Limit (table) (SDV Online Only)

State Maintained Roads

State Maintained Roads (table) (SDV Online Only)

Unpaved Roads

Unpaved Roads (table) (SDV Online Only)

Boundaries – Urban Areas

Boundaries – Urban Areas (table) (SDV Online Only)

STIP Projects

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 Layer File Geodatabase](#) (All rail feature classes are now available in a single file geodatabase)

[Road Characteristics Arcs Shapefile](#)

[Road Characteristics Arcs File Geodatabase](#)

[NCRoutes Shapefile](#)

[NCRoutes File Geodatabase](#)

[NCRouteArcs Shapefile](#)

[NCRouteArcs File Geodatabase](#)

[Smoothed Urban Boundaries](#)