

The GIS Unit is pleased to announce the release of our First Quarter 2017 Publication updates.

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

Updated Data Sets

The following data sets were updated this quarter:

1. Bridges/Structures
2. Rail System
3. Municipal Boundaries
4. NC Route Characteristics
5. NC Routes (pka LRS Routes)
6. NC Route Arcs (pka LRS Arcs)

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 City Boundaries](#)

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 2016-2025 STIP](#)

[NCDOT Draft STIP 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](#)

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 – City

Boundaries – City (table) (SDV Online Only)

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 Track File Geodatabase](#)

[NCDOT Rail Crossing Shapefile](#)

[NCDOT Rail Crossings File Geodatabase](#)

[NCDOT Rail Facility Shapefile](#)

[NCDOT Rail Facility File Geodatabase](#)

[Road Characteristics Arcs Shapefile](#)

[Road Characteristics Arcs File Geodatabase](#)

[NCRoutes Shapefile](#)

[NCRoutes File Geodatabase](#)

[NCRouteArcs Shapefile](#)

[NCRouteArcs File Geodatabase](#)

[Municipal Boundaries](#)

Changes to GIS Unit Products

In addition to updated data, the following changes were made that may require modification to your maps and apps.

Bridges/Structures

The RTE_ID (alias “Route ID”) attribute now contains the 11-digit route number.

Municipal Boundaries

Due to changes in the Roads and Highways database, the following fields changed in the Municipal Boundaries data.

If you use the following service in a web map or app, you may need to remove and add the service to capture the changes.

[NCDOT City Boundaries](#)

New Schema	Old Schema
MunicipalBoundaryName	<new field>
PowellBillParticipant	PB_PART
PopulationEstimate	POP_EST
PopulationEstimateYear	<new field>
MNCPL_BNDRY_NM	MNCPL_BNDRY_NM

Railroad Crossings

Due in part to new reporting requirements, the attributes changed in the Railroad Crossings data.

If you use the following service in a web map or app, you may need to remove and add the service to capture the changes.

[NCDOT North Carolina Rail System](#)

New Schema	Old Schema
CrossingId	CrossingId
Railroad	Railroad
PrfxMilePost	PrfxMilePo
MilePost	MilePost
CROSSING_STATUS	CROSSING_S
TypeXing	TypeXing
XPurpose	<new field>
PosXing	PosXing
HIGHWAY_TYPE	HIGHWAY_TY
HIGHWAY_NO	HIGHWAY_NO
HIGHWAY_DESIGNATION	HIGHWAY_DE
Street	Street
Nearest	Nearest
CityCD	CityCD
CntyCD	CntyCD
Latitude	Latitude
Longitude	Longitude
PolCont	PolCont
Photo_N	Photo_N
Photo_S	Photo_S
Photo_E	Photo_E
Photo_W	Photo_W
Photo_ID	Photo_ID