

The GIS Unit is pleased to announce the release of our First Quarter 2018 Publication updates.

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

Updated Data Sets

The following data sets have updated schema this quarter:

1. Rail System
2. Municipal Boundaries

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 MileMarker Hatching](#)

[NCDOT NHS](#)

[NCDOT Posted Roads - Light Traffic](#)

[NCDOT Speed Limits](#)

[NCDOT Truck Network](#)

[NCDOT Unpaved Roads](#)

[NCDOT Shields](#)

[NCDOT City Boundaries](#)

[NCDOT County Boundaries](#)

[NCDOT Division Boundaries](#)

GO!NC/AGOL Web Maps

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

[NCDOT 2018-2027 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](#)

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)

- Boundaries – County
- Boundaries – County (table) (SDV Online Only)
- Boundaries – Division
- Boundaries – Division (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 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](#)
- [Municipal Boundaries](#)
- [County Boundaries](#)
- [DOT Division Boundary](#)
- [County Boundary Shoreline](#)

Changes to GIS Unit Products

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

Municipal Boundaries

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
MunicipalBoundaryName,String,
PowellBillParticipate,String,
MNCPL_BNDRY_NM,String,

Railroad Track

The attributes changed in the Railroad track 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
OBJECTID,OID,	OBJECTID,OID,
OPERATORLO,String,	OPERATOR,String,
OWNERLONG,String,	OPERATORLO,String,
BRANCH,String,	OWNERLONG,String,
TRACK_STAT,String,	BRANCH,String,
MIN_BEGMP,Double,	BEGMP,Double,
MAX_ENDMP,Double,	ENDMP,Double,
Shape,Geometry,	PASSSERVIC,String,
Shape.STLength(),Double,	TRACK_STAT,String,
	Shape,Geometry,
	Shape.STLength(),Double,

County Boundary

The attributes changed in the county boundary download data.

New Schema	Old Schema
OBJECTID,OID	OBJECTID_12,OID,
CNTY_NBR,SmallInteger	ABBR_2CHAR,String,
CountyName,String	ABBR_4CHAR,String,
DIV_NBR,SmallInteger	ABBR_5CHAR,String,
DOTDistrictID,SmallInteger	ACRES,Single,
DOTDivisionID,SmallInteger	BRITH94RAT,Single,
DSTRCT_NBR,SmallInteger	CO_CENSUS,String,
FIPS,SmallInteger	CO_WIKIPED,String,
NAME,String	COG_NAME,String,
SAP_CNTY_NBR,SmallInteger	COG_REGION,String,
SapCountyId,String	COUNTY_100,SmallInteger,
Shape,Geometry	DENR_COUNT,SmallInteger,
Shape.STArea(),Double	DENR_DISTR,String,
Shape.STLength(),Double	DIV_CONTAC,String,
UpperCountyName,String	DOT_COUNTY,SmallInteger,

	DOT_DISTRI,SmallInteger,
	DOT_DIVISI,SmallInteger,
	DOT_GROUP_,String,
	EDIS_REGIO,String,
	FIPS,SmallInteger,
	HWY_PATROL,String,
	NAME,String,
	NAME_LOCAS,String,
	OBJECTID,Integer,
	OBJECTID_1,Integer,
	POP1990,Integer,
	POP1996,Integer,
	POP2000PRJ,Integer,
	POP2010PRJ,Integer,
	SCHS_PERIN,String,
	Shape,Geometry,
	Shape_Area,Double,
	Shape_Le_1,Double,
	Shape_Leng,Double,
	Shape_Length,Double,
	Z_MAX,Double,
	Z_MEAN,Double,
	Z_MIN,Double,
	Z_ZONE,Double,