# Capacities, North Carolina Department of Transportation, Prioritization 7.0, July 2023

**File Geodatabase Feature Class** 



**Tags** 

North Carolina, Capacity, North Carolina Department of Transportation (NCDOT), Road Capacity, Road Capacities, Strategic Prioritization Office of Transportation (SPOT), P7, Prioritization 7.0, Level of Service (LOS)

#### **Summary**

This feature class is a representation of traffic capacity depicted as associated data along roads and highway segments throughout North Carolina. Capacity calculations assist in determining highway scoring for the Strategic Planning Office of Transportation (SPOT) Prioritization 7.0 project.

# **Description**

Roads and highways segments depicted with corresponding vehicle capacity data. Vehicle capacity calculations in this dataset. However for the purposes of the NCDOT Strategic Planning Office of Transportation Prioritization 7.0 (P7) project, only the inputs that affect the project scoring are utilized to determine capacity. This data includes number of lanes, facility type (type of street), median type, area type, and terrain type. When capacity is calculated, the number of lanes, speed limit, and facility type are the major factors in determining the roadway capacity with median type, area type, and terrain type holding lower weights. Roadway capacities are factored into highway congestion scoring on the subregional tier level. The calculation utilized is ((Existing Volume/Capacity Ratio  $\times$  100)  $\times$  60%) +((Existing Volume/1,000)  $\times$  40%)

For the purposes of the Strategic Planning Office of Transportation Prioritization 7.0 project, data is not updated after July 2023.

For further information about domains and fields used in SPOT see the SPOT P7 Domains document here:

https://xfer.services.ncdot.gov/gisdot/metadata/spot/NCDOT%20SPOT%20Prioritization%207%20Online%20Domain%20Reference.pdf

#### **Credits**

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

#### **Use limitations**

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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#### **Extent**

 West
 -84.421464
 East
 -75.418363

 North
 36.615122
 South
 33.751362

**Scale Range** 

**Maximum (zoomed in)** 1:5,000 **Minimum (zoomed out)** 1:150,000,000

# ArcGIS Metadata ▶

# **Topics and Keywords** ►

THEMES OR CATEGORIES OF THE RESOURCE transportation

\* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS TITLE User

PUBLICATION DATE 2019-09-01 00:00:00

Hide Thesaurus A

THEME KEYWORDS North Carolina, Capacity, North Carolina Department of Transportation, Road Capacity, Road Capacities, Strategic Prioritization Office of Transportation (SPOT), P7, Prioritization 7.0, Level of Service (LOS)

THESAURUS TITLE User
PUBLICATION DATE 2023-07-17 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

# **Citation** ▶

TITLE Capacities, North Carolina Department of Transportation, Prioritization 7.0, July 2023 PUBLICATION DATE 2023-07-17 00:00:00

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

# **Citation Contacts** ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit Contact's Position GIS Help Desk Contact's Role originator

CONTACT INFORMATION PHONE
VOICE 919.707.2165
FAX 919.707.2210

ADDRESS
TYPE physical
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS gishelp@ncdot.gov

Hours of Service

8am to 5pm, M-F

**CONTACT INSTRUCTIONS** 

Phone or email

Hide Contact information ▲

#### **RESPONSIBLE PARTY**

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE resource provider

CONTACT INFORMATION >

**PHONE** 

VOICE 919.707.4742

**ADDRESS** 

Type postal

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS spot@ncdot.gov

Hours of Service

8am-5pm, M-F

**CONTACT INSTRUCTIONS** 

Phone or email

Hide Contact information ▲

Hide Citation Contacts ▲

# **Resource Details** ▶

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE **vector** 

\* Processing environment Version 6.2 (Build 9200); Esri ArcGIS 10.8.1.14362

#### **CREDITS**

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

# **Extents** ▶

```
EXTENT
 GEOGRAPHIC EXTENT
  BOUNDING RECTANGLE
    WEST LONGITUDE -84.421461
    EAST LONGITUDE -75.418363
    SOUTH LATITUDE 33.751265
    NORTH LATITUDE 36.615122
 TEMPORAL EXTENT
  DATE AND TIME 2019-09-01 00:00:00
EXTENT
 GEOGRAPHIC EXTENT
  BOUNDING RECTANGLE
   EXTENT TYPE Extent used for searching
    * WEST LONGITUDE -84.421464
    * EAST LONGITUDE -75.418363
    * NORTH LATITUDE 36.615122
    * SOUTH LATITUDE 33.751362
    * EXTENT CONTAINS THE RESOURCE Yes
EXTENT IN THE ITEM'S COORDINATE SYSTEM
 * WEST LONGITUDE 406980.080163
 * EAST LONGITUDE 3051823.000440
 * SOUTH LATITUDE 42564.600105
 * NORTH LATITUDE 1042848.119875
 * EXTENT CONTAINS THE RESOURCE Yes
Hide Extents ▲
```

# **Resource Points of Contact** ▶

```
POINT OF CONTACT
```

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE point of contact

```
CONTACT INFORMATION
PHONE
VOICE 919.707.4742

ADDRESS
TYPE postal
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS Spot@ncdot.gov

HOURS OF SERVICE
8am-5pm, M-F
```

**CONTACT INSTRUCTIONS** 

#### Phone or email

Hide Contact information ▲

Hide Resource Points of Contact ▲

# **Resource Maintenance** ▶

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

Scope of the updates dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE point of contact

CONTACT INFORMATION

**PHONE** 

VOICE 919.707.4742

**ADDRESS** 

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Phone or email

Hide Contact information ▲

Hide Resource Maintenance ▲

# Resource Constraints >

CONSTRAINTS

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#### **SECURITY CONSTRAINTS**

CLASSIFICATION unclassified CLASSIFICATION SYSTEM None

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Hide Resource Constraints ▲

# **Spatial Reference** ▶

# ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet
- \* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

Well-known identifier 102719

X ORIGIN -121841900

Y ORIGIN -93659000

XY SCALE 3048.0060960121928

Z ORIGIN 0

Z SCALE 1

M ORIGIN 0

M SCALE 1

XY TOLERANCE 0.00328083333333333333

Z TOLERANCE 0.001 M TOLERANCE 0.001 HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2264

#### **WELL-KNOWN TEXT**

PROJCS["NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-

#### REFERENCE SYSTEM IDENTIFIER

- \* VALUE 2264
- \* CODESPACE EPSG
- \* VERSION 6.12(9.0.0)

Hide Spatial Reference A

# **Spatial Data Properties ▶**

VECTOR >

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### **GEOMETRIC OBJECTS**

FEATURE CLASS NAME Capacities

- \* OBJECT TYPE composite
- \* OBJECT COUNT 94921

Hide Vector

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME Capacities

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Polyline
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 94921
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties A

# Data Quality ▶

Scope of quality information Resource Level dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY

CONFORMANCE TEST RESULTS

TEST PASSED Yes
RESULT EXPLANATION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. Quality checks

were performed by the Strategic Prioritization Office of Transportation (SPOT) and the North Carolina

Department of Transportation Geographic Information Systems Unit and errors were accepted as within business range or identified as exceptions.

PRODUCT SPECIFICATION TITLE NCDOT Geospatial Data Specifications
PUBLICATION DATE 2019-09-01 00:00:00

Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

Hide Data Quality ▲

# **Lineage** ▶

PROCESS STEP
DESCRIPTION

Data Acquired from North Carolina Department of Transportation LRS Routes

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit Contact's Position GIS Help Desk Contact's Role processor

CONTACT 5 ROLL PLOCESSOI

CONTACT INFORMATION >

PHONE

VOICE 919.707.2165 FAX 919.707.2210

#### **A**DDRESS

Type physical

Delivery Point Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

# Hours of Service

8am to 5pm, M-F

#### **CONTACT INSTRUCTIONS**

Phone or email

Hide Contact information ▲

Hide Process step ▲



#### **PROCESS CONTACT**

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit Contact's Position GIS Help Desk Contact's Role processor

CONTACT INFORMATION

PHONE

VOICE 919.707.2165 FAX 919.707.2210

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HOURS OF SERVICE

8am to 5pm, M-F

**CONTACT INSTRUCTIONS** 

Phone or email

Hide Contact information ▲

Hide Process step ▲

PROCESS STEP
DESCRIPTION

Data was cleaned up as needed

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit Contact's Position GIS Help Desk

CONTACT'S ROLE processor

CONTACT INFORMATION >

PHONE

VOICE 919.707.2165 FAX 919.707.2210

# ADDRESS

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CONTACT INSTRUCTIONS
Phone or email

Hide Contact information

Hide Process step ▲



Various geoprocesses performed in order to calculate AreaType, Terrain\_Type, MedianType, Number of Lanes, and Speed Limits.

# PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit Contact's Position GIS Help Desk Contact's Role processor

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Hours of Service 8am to 5pm, M-F

CONTACT INSTRUCTIONS
Phone or email

Hide Contact information ▲

Hide Process step ▲

Hide Lineage ▲

# **Distribution** >



ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit CONTACT'S POSITION GIS Help Desk

```
CONTACT INFORMATION >
     PHONE
       VOICE 919.707.2165
       FAX 919.707.2210
     ADDRESS
       Type physical
       DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
       CITY Raleigh
       ADMINISTRATIVE AREA NC
       POSTAL CODE 27610
       COUNTRY US
       E-MAIL ADDRESS gishelp@ncdot.gov
     Hours of Service
     8am to 5pm, M-F
     CONTACT INSTRUCTIONS
     Phone or email
      Hide Contact information ▲
  Hide Distributor ▲
DISTRIBUTOR >
 CONTACT INFORMATION
   INDIVIDUAL'S NAME North Carolina Department of Transportation
   ORGANIZATION'S NAME Geographic Information Systems Unit
   CONTACT'S POSITION GIS Help Desk
   CONTACT'S ROLE distributor
    CONTACT INFORMATION >
     PHONE
       VOICE 919.707.2165
       FAX 919.707.2210
     ADDRESS
       Type physical
       DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
       CITY Raleigh
       ADMINISTRATIVE AREA NC
       POSTAL CODE 27610
       COUNTRY US
       E-MAIL ADDRESS gishelp@ncdot.gov
     Hours of Service
     8am to 5pm, M-F
     CONTACT INSTRUCTIONS
     Phone or email
      Hide Contact information ▲
```

DISTRIBUTION FORMAT

**VERSION ArcGIS 10.3** 

\* NAME File Geodatabase Feature Class

Hide Distribution ▲

# Fields ▶

# DETAILS FOR OBJECT Capacities >

- \* TYPE Feature Class
- \* ROW COUNT 94921

DEFINITION

A feature class estimating number of through lanes for projects to determine vehicle capacity to aid in congestion management.

**DEFINITION SOURCE** 

NCDOT

# FIELD BegMp1 ▶

- \* ALIAS BegMp1
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Route milepost at the beginning of the reference

# **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

# **DESCRIPTION OF VALUES**

No domain

Hide Field BegMp1 ▲

# FIELD EndMp1 ▶

- \* ALIAS EndMp1
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Route milepost at the end of the reference

#### **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

# **DESCRIPTION OF VALUES**

No domain

# FIELD SHAPE >

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0

#### FIELD DESCRIPTION

Feature geometry.

# **DESCRIPTION SOURCE**

Esri

# **DESCRIPTION OF VALUES**

Coordinates defining the features.

#### Hide Field SHAPE ▲

# FIELD OBJECTID ▶

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

#### FIELD DESCRIPTION

Internal feature number.

# **DESCRIPTION SOURCE**

Esri

# **DESCRIPTION OF VALUES**

Sequential unique whole numbers that are automatically generated.

# Hide Field OBJECTID ▲

# FIELD AREATYPE\_NUM ▶

- \* ALIAS AREATYPE\_NUM
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

# FIELD DESCRIPTION

Designates Urban or Rural area

# DESCRIPTION SOURCE

North Carolina Department of Transportation GIS Unit

#### LIST OF VALUES

VALUE 1

DESCRIPTION Urban

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

```
VALUE 3
```

DESCRIPTION Rural

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

# **DESCRIPTION OF VALUES**

No domain

#### Hide Field AREATYPE\_NUM ▲

# FIELD TERRAIN\_NUM ▶

- \* ALIAS TERRAIN NUM
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Defines type of terrain

#### **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

#### LIST OF VALUES

VALUE 3

**DESCRIPTION** Mountainous Terrain

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 1

**DESCRIPTION** Level Terrain

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2

**DESCRIPTION Rolling Terrain** 

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

## **DESCRIPTION OF VALUES**

No domain

#### Hide Field TERRAIN\_NUM ▲

# FIELD MEDIAN\_NUM ▶

- \* ALIAS MEDIAN\_NUM
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

Type of Median

# **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

# LIST OF VALUES

VALUE 1

**DESCRIPTION** Divided Median

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

```
DESCRIPTION TWLTL (Two Way Left Turn Lane)
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
  VALUE 3
  DESCRIPTION Undivided
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
 DESCRIPTION OF VALUES
    No domain
  Hide Field MEDIAN_NUM ▲
FIELD Capacity >
 * ALIAS Capacity
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    The calculation utilized is ((Existing Volume/Capacity Ratio x 100) x 60%) +((Existing Volume/1,000)
    x 40%)
 DESCRIPTION SOURCE
    North Carolina Department of Transportation GIS Unit
 DESCRIPTION OF VALUES
    No domain
  Hide Field Capacity ▲
FIELD LANE_NUM ▶
 * ALIAS LANE NUM
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Number of Lanes
 DESCRIPTION SOURCE
    North Carolina Department of Transportation GIS Unit
 DESCRIPTION OF VALUES
    No domain
  Hide Field LANE_NUM ▲
```

VALUE 2

- \* ALIAS Rte\_Id
- \* DATA TYPE String
- \* WIDTH 11
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The 11-digit route number is a route naming convention used by NCDOT

# **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

# **DESCRIPTION OF VALUES**

No domain

Hide Field Rte\_Id ▲

# FIELD FACILITY\_TYP ▶

- \* ALIAS FACILITY TYP
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Type of street

#### **DESCRIPTION SOURCE**

North Carolina Department of Transportation GIS Unit

# LIST OF VALUES

VALUE 3

DESCRIPTION Multi-Lane Highway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4

DESCRIPTION Freeway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 5

DESCRIPTION Superstreet

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 1

**DESCRIPTION Arterial** 

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2

DESCRIPTION Two Lane Highway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

#### **DESCRIPTION OF VALUES**

No domain

#### FIELD SHAPE\_Length ▶

- \* ALIAS Shape\_Length
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION

Length of feature in internal units.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Hide Field SHAPE\_Length ▲

Hide Details for object Capacities ▲

Hide Fields ▲

# **Metadata Details** ▶

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME \* dataset

\* LAST UPDATE 2024-02-26

**ARCGIS METADATA PROPERTIES** 

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-12-06 09:02:38

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-26 16:18:12

**AUTOMATIC UPDATES** 

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-02-26 16:18:12

Hide Metadata Details A

# Metadata Contacts ▶

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE point of contact

CONTACT INFORMATION PHONE
VOICE 919.707.4742

#### **ADDRESS**

Type postal

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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COUNTRY US

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#### Hours of Service

8am-5pm, M-F

#### **CONTACT INSTRUCTIONS**

Phone or email

Hide Contact information ▲

Hide Metadata Contacts A

# **Metadata Maintenance** ▶

#### MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

#### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

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Hide Contact information ▲

Hide Metadata Maintenance

# **Metadata Constraints** ▶

SECURITY CONSTRAINTS
CLASSIFICATION unclassified

#### CLASSIFICATION SYSTEM none

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Hide Metadata Constraints