

LRS Route Segments, 1st Quarter 2023, North Carolina Department of Transportation, Prioritization 7.0, February 2023

Geodatabase Feature Class



Tags North Carolina, Highways, US, Streets, Roads, Interstate, County, Major Roads, NC, State maintained roads, SR, Secondary, Centerline, Primary, Transportation, Division, State Transportation Implementation Plan (STIP), Strategic Prioritization Office of Transportation (SPOT), North Carolina Department of Transportation (NCDOT).

Summary

For visual representation of inventory, public roads in North Carolina. System roads (state maintained) are current through February 2023 for changes by NCDOT Petitions and Municipal Agreements process. Non-system roads (locally maintained) are current through February 2023 according to currency of county government source files.

Description

The original arc layer from which this dataset was derived from is used for visual representation of statewide road centerlines on publicly-accessible roads segmented by road intersections and street names. The state road system is comprised of Interstate, US, NC, Secondary Routes, and Ramps. Each arc/record is split where road characteristics change along a route. This dataset supports the Federal Highway Administration's (FHWA) data requirements for the Highway Performance Monitoring System (HPMS). HPMS is a national level highway information system that includes data on the extent, condition, performance, use, and operating characteristics of the Nation's highways. States are required to submit an HPMS report to FHWA annually. This dataset also contains projected routes, generalized locations of routes that will become part of the National Highway System (NHS) when they are built. The non-system roads are consumed and conflated from authoritative sources, including local (i.e. county), state (i.e. parks) and federal (i.e. Forest Service) entities. This dataset is updated daily. Data quality is tracked using the revision document fields (GeoDocType and GeoDocId). Legacy data are coded as not verified in the GeoDocType field. The geometry and spatial location of new data is verified with the most current information available (i.e aerial imagery).

LRS_Route_Segments was manipulated for the purpose of Prioritization 7.0. This dataset represents inventory only routes and routes classified as Interstates, US Routes, NC Routes, and Secondary Routes. The data was also segmented to be represented as linear segments from intersection to intersection. STI_Network_Cat was created and added to dataset. STI_Network_Cat is used to define the type of funding each roadway is eligible for and is defined by the following : 1 = Statewide Mobility, 2 = Regional Impact, 3 = Division Needs. This data is created and maintained internally by the GIS Unit and SPOT group.

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 (NCDOT) Spatial Data Management Group - Product creation; NCDOT Data Conversion Group – System geometry, mileage, events; Local County Government – Non-system geometry,

Street Name event; Strategic Prioritization Office of Transportation (SPOT)

Use limitations

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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) 1:50,000

Topics and Keywords

Themes or categories of the resource Transportation

Content type Downloadable Data

Theme keywords North Carolina, Highways, US, Streets, Roads, Interstate, County, Major Roads, NC, State maintained roads, SR, Secondary, Centerline, Primary, Transportation, Division, Prioritization 7.0, State Transportation Implementation Plan (STIP), Strategic Prioritization Office of Transportation (SPOT), North Carolina Department of Transportation (NCDOT).

Thesaurus

Title ISO 19115 Topic Category

Publication date 2023-07-17 00:00:00

Theme keywords Highways, US, Streets, Roads, Interstate, Major Roads, NC, State maintained roads, SR, Secondary, Centerline, Primary

Thesaurus

Title User

Publication date 2023-07-17 00:00:00

Place keywords North Carolina, County, Division

Thesaurus

Title User

Publication date 2023-07-17 00:00:00

Citation

Title LRS Route Segments, 1st Quarter 2023, North Carolina Department of Transportation, Prioritization 7.0, February 2023

Publication date 2019-09-01 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - resource provider

Organization's name North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

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

Responsible party - originator

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 postal

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

e-mail address gishelp@ncdot.gov

Hours of service

8am-5pm, M-F

Contact instructions

Phone or email

Resource Details

Dataset languages English (UNITED STATES)

Status under development

Spatial representation type vector

Supplemental information

This file should not be used for routing.

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

Credits

North Carolina Department of Transportation (NCDOT) Spatial Data Management Group - Product creation; NCDOT Data Conversion Group – System geometry, mileage, events; Local County Government – Non-system geometry, Street Name event; Strategic Prioritization Office of Transportation (SPOT)

ArcGIS item properties

Name LRS_Route_Segments

Location file://\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Metadata\Spot\BackupSchemaProd20231218\P7_Data.gdb

Access protocol Local Area Network

Extents

Extent

Description

Unknown

Extent

Geographic extent

Bounding rectangle

West longitude -84.421752

East longitude -75.418246

South latitude 33.733249

North latitude 36.617735

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

westBL 406980.080272
eastBL 3051823.000288
southBL 42564.600160
northBL 1042848.119824
exTypeCode Yes

Resource Points of Contact

Point of contact - point of contact

Organization's name North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

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

Resource Maintenance

Resource maintenance

Update frequency quarterly

Scope of the updates dataset

Maintenance contact - point of contact

Organization's name North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

Contact information

Phone

Voice 919.707.4742

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Type postal

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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

Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

Additional restrictions

None

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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

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 1893.9393939393938

ZOrigin 0

ZScale 1

MOrigin -100000

MScale 10000000

XYTolerance 0.00528

ZTolerance 0.0032808333333333331

MTolerance 9.9999999999999995e-07

HighPrecision true

LatestWKID 2264

VCSWKID 105703

LatestVCSWKID 6360

WKT

```
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",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192]],VERTCS["NAD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]
```

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only

Geometric objects

Feature class name LRS_Route_Segments
Object type composite
Object count 177524

ArcGIS Feature Class Properties

Feature class name LRS_Route_Segments
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 177524
Spatial index TRUE
Linear referencing TRUE

Data Quality

Scope of quality information

Resource level dataset

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 2023-07-17 00:00:00

Lineage

Lineage statement

The original arc layer from which this dataset was derived from is used for visual representation of statewide road centerlines on publicly-accessible roads segmented by road intersections and street names. The state road system is comprised of Interstate, US, NC, Secondary Routes, and Ramps. The data were further manipulated by the North Carolina Department of Transportation Geographic Information Systems Unit and/or the North Carolina

Department of Transportation Strategic Prioritization Office of Transportation (SPOT) to produce the required data for Prioritization 7.0.

Process step

Description

Run internal program to create product.

Process contact - processor

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

Delivery point Century Center Building B, 1020 Birch Ridge Drive.

City Raleigh

Administrative area North Carolina

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

8am to 5pm, M-F

Contact instructions

Phone or e-mail.

Process step

Description

Dataset copied to web.

Process contact - processor

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

Delivery point Century Center Building B, 1020 Birch Ridge Drive.

City Raleigh

Administrative area North Carolina

Postal code 27610

Country US
e-mail address gishelp@ncdot.gov
Hours of service
8am to 5pm, M-F

Contact instructions
Phone or e-mail.

Process step

Description

Metadata is updated for publication.

Process contact - processor

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

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Address

Delivery point Century Center Building B, 1020 Birch Ridge Drive.

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Administrative area North Carolina

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

8am to 5pm, M-F

Contact instructions

Phone or e-mail.

Process step

Description

Data Conversion Group maintains the NCDOT LRS in a geodatabase.

Process contact - processor

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

Delivery point Century Center Building B, 1020 Birch Ridge Drive.

City Raleigh

Administrative area North Carolina

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

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Contact instructions

Phone or e-mail.

Source data

Description

Data was originally acquired through digitizing of USGS 7.5 quad maps with scales of 1:24,000 and refined and updated using 1993 and 1998 DOQQ's.

Resolution of the source data

Scale denominator 24000

Distribution

Distributor

Contact information - distributor

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 postal

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area North Carolina

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

8am to 5pm, M-F

Contact instructions

Phone or e-mail.

Distribution format

Version ArcGIS 10.3

Name File Geodatabase Feature Class

Transfer options

Online source

Online location (URL) <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

Transfer options

Online source

Online location (URL) <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

Fields

Details for object LRS_Route_Segments

Type Feature Class

Row count 177524

Definition source

NCDOT

Definition

Visual representation of inventory public roads in North Carolina

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.

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.

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.

Field STI_Network_Cat

Alias STI_Network_Cat

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Number representing how roads are funded; statewide, regional impacts and division needs

Description source

NCDOT

Description of values

No domain

Field RTE_Nm

Alias RTE_Nm

Data type String

Width 25

Precision 0

Scale 0

Field description

Route Number

Description source

NCDOT

Description of values

No domain

Field Rte_Id

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

NCDOT

Description of values

Positive real numbers that are manually generated

Field RTE_1_PRIM_CD

Alias RTE_1_PRIM_CD

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

An additional code that further defines the Dominant Route

Description source

NCDOT

Description of values

Route prime CD

Field RTE_1_NBR

Alias RTE_1_NBR

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Route number

Description source

NCDOT

Description of values

Route Number

Field RTE_1_CLSS_CD

Alias RTE_1_CLSS_CD

Data type String

Width 3

Precision 0

Scale 0

Field description

The NCDOT route class code for Dominant Route

Description source

NCDOT

Description of values

Route class

Field MAINT_CNTY_CD

Alias MAINT_CNTY_CD

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

For state-maintained roads, it is the county responsible for maintaining the section of road. For non-state maintained roads, it is the county that the segment is located in.

Description source

NCDOT

Description of values

County code

References

Aggregate Information

Association type cross reference

Aggregate resource name

Title Public Road Arcs, 1st Quarter 2023 - NC Dept. of Transportation

Publication date 2017-03-13

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

Standard or profile used to edit metadata ISO19139

Created in ArcGIS for the item 2023-12-06 09:10:45

Last modified in ArcGIS for the item 2024-02-26 16:44:06

Automatic updates

Have been performed Yes

Last update 2024-02-26 16:44:06

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

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

Metadata Maintenance

Maintenance

Update frequency quarterly

Scope of the updates dataset

Maintenance contact - point of contact

Organization's name North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

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

Metadata Constraints

Security constraints

Classification unclassified

Classification system none

Additional restrictions

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file