

# Road Characteristics - NHS Routes, 4th Quarter 2025 - NC Department of Transportation

## Geodatabase Feature Class



**Tags** SR, Roads, US, State maintained roads, State Highway Network, Streets, NC, National Highway System, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, NCDOT, Transportation, North Carolina, Division, County

### Summary

This feature class contains highways in North Carolina that are part of the National Highway System (NHS). The data is represented as lines derived from the NCDOT Linear Reference System (LRS) network of routes via the NCRouteCharacteristics data set updated quarterly in support of Highway Performance Monitoring System (HPMS) reporting. The NHS is a network of nationally significant highways approved by Congress in the NHS Designation Act of 1995 that includes the Interstate Highway System as well as other roads important to the nation's economy, defense, and mobility. As such, the NHS includes roadways serving major airports, ports, military bases, rail or truck terminals, railway stations, pipeline terminals and other strategic transport facilities. Attributes in this data set include information for the dominant route including RouteID and milepost measurements.

### Description

This data set is derived from the NCDOT NCRouteCharacteristics data and contains all current routes designated as part of the National Highway System (NHS). The NHS is a network of nationally significant highways approved by Congress in the National Highway System Designation Act of 1995. New routes can also be added to the NHS.

The National Highway System (NHS) is a network of strategic highways within the United States, including the Interstate Highway System and other roads serving major airports, ports, military bases, rail or truck terminals, railway stations, pipeline terminals and other strategic transport facilities. The System consists of roadways important to the nation's economy, defense, and mobility. It includes the following subsystems of roadways:

- Interstate: The Eisenhower Interstate System of highways retains its separate identity within the NHS.
- Other Principal Arterials: These are highways in rural and urban areas which provide access between an arterial and a major port, airport, public transportation facility, or other intermodal transportation facility.
- Strategic Highway Network (STRAHNET): This is a network of highways which are important to the United States' strategic defense policy and which provide defense access, continuity and emergency capabilities for defense purposes.
- Major Strategic Highway Network Connectors: These are highways which provide access between major military installations and highways which are part of the Strategic Highway Network.
- Intermodal Connectors: These highways provide access between major intermodal facilities and the other four subsystems making up the National Highway System.

The National Highway System Designation Act of 1995 (<https://www.govinfo.gov/content/pkg/PLAW-104publ59/pdf/PLAW-104publ59.pdf>) is a United States Act of Congress that was signed into law by President Bill Clinton on November 28, 1995. The legislation designated about 160,955 miles (259,032 km) of roads, including the Interstate Highway System, as the NHS. Aside from designating the system, the act served several other purposes, including restoring \$5.4 billion in funding to state highway departments, giving Congress the power to prioritize highway system projects, repealing all federal speed limit controls, and prohibits the federal government from requiring states to use federal-aid highway funds to convert existing signs or purchase new signs with metric units.

Further information about the establishment of the NHS can be found in this 1996 article describing the intent behind the initiative:

<https://highways.dot.gov/public-roads/spring-1996/national-highway-system-commitment-americas-future>

## Credits

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

## 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.

This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

## Extent

<b>West</b>	-84.413287
<b>East</b>	-75.424957
<b>North</b>	36.582497
<b>South</b>	33.780370

## Scale Range

<b>Maximum (zoomed in)</b>	1:5,000
<b>Minimum (zoomed out)</b>	1:625,000

## Topics and Keywords

**Themes or categories of the resource** Transportation, Location, Society

**Content type** Downloadable Data

**Theme keywords** SR, Roads, US, State maintained roads, State Highway Network, Streets, NC, National Highway System, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, NCDOT, Transportation, North Carolina, Division, County

## Thesaurus

**Title** User

**Publication date** 2026-02-23 00:00:00

**Place keywords** North Carolina, Division, County

### Thesaurus

**Title** User

**Publication date** 2026-02-23 00:00:00

## Citation

**Title** Road Characteristics - NHS Routes, 4th Quarter 2025 - NC Department of Transportation

**Alternate titles** NHS Routes

**Publication date** 2026-02-23 00:00:00

**Presentation formats** digital map

**FGDC geospatial presentation format** vector digital data

## Citation Contacts

### Responsible party - originator

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### 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

9:00am - 5:00pm Monday - Friday

### Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

### Responsible party - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

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**Responsible party - resource provider**

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

**Contact information**

**Address**

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**Resource Details**

**Dataset languages** English (UNITED STATES)

**Dataset character set** utf8 - 8 bit UCS Transfer Format

**Status** on-going

**Spatial representation type** vector

**Supplemental information**

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

## Credits

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

## ArcGIS item properties

**Name**    NHSRoutes

## Extents

### Extent

#### Geographic extent

##### Bounding rectangle

**West longitude**    -84.11613

**East longitude**    -75.593013

**South latitude**    33.792692

**North latitude**    36.578571

#### Vertical extent

**Minimum value**    -7.400000

**Maximum value**    4029.100000

### Extent

#### Geographic extent

##### Bounding rectangle

**West longitude**    -84.413287

**East longitude**    -75.424517

**South latitude**    33.78037

**North latitude**    36.582497

**Extent contains the resource**    Yes

#### Vertical extent

**Minimum value**    -7.400000

**Maximum value**    4029.100000

### Extent

#### Geographic extent

##### Bounding rectangle

##### Extent type

Extent used for searching

**West longitude**    -84.413287

**East longitude**    -75.424957

**North latitude**    36.582497

**South latitude** 33.780370  
**Extent contains the resource** Yes

## Extent in the item's coordinate system

**westBL** 408738.910048  
**eastBL** 3050312.749744  
**southBL** 53044.609744  
**northBL** 1030968.380128  
**exTypeCode** Yes

## Resource Points of Contact

### Point of contact - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit  
**Contact's position** GIS Data and Services Consultant

### Contact information

#### 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

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#### Contact instructions

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## Resource Maintenance

### Resource maintenance

**Update frequency** quarterly

**Scope of the updates** dataset

### Other maintenance requirements

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

### Maintenance contact - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

## Contact information

### 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

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## Contact instructions

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## Resource Constraints

### Legal constraints

#### Limitations of use

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### Security constraints

**Classification** unclassified

**Classification system** None

#### Limitations of use

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## Constraints

### Limitations of use

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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** -100000

**ZScale** 9.9999999999999982

**MOrigin** -100000

**MScale** 10000000

**XYTolerance** 0.00528

**ZTolerance** 0.20000000000000004

**MTolerance** 9.999999999999995e-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["NAVD_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** NHSRoutes

**Object type** composite

**Object count** 2818

### ArcGIS Feature Class Properties

**Feature class name** NHSRoutes

**Feature type** Simple

**Geometry type** Polyline

**Has topology** FALSE

**Feature count** 2818

**Spatial index** TRUE

**Linear referencing** TRUE

## Data Quality

### Scope of quality information

**Resource level** dataset

### Data quality report - Completeness commission

#### Data quality measure reference

##### Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

### Conformance test results

**Test passed** Yes

#### Result explanation

Pass.

#### Product specification

**Title** NCDOT Geospatial Data Specifications

### Data quality report - Conceptual consistency

#### Data quality measure reference

### Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

### Conformance test results

**Test passed** Yes

#### Result explanation

Pass.

### Product specification

**Title** NCDOT Geospatial Data Specifications

## Data quality report - Quantitative attribute accuracy

### Data quality measure reference

#### Measure description

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

### Conformance test results

**Test passed** Yes

#### Result explanation

Pass.

### Product specification

**Title** NCDOT Geospatial Data Specifications

## Lineage

### Lineage statement

This data set is derived from the NCRouteCharacteristics data and contains all current routes designated as part of the National Highway System (NHS).

This dataset was originally developed by the North Carolina Department of Transportation, Division of Planning & Programming, in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of the National Highway System in North Carolina. The GIS Unit modifies the LRS Network routes by creating, editing, or retiring based on official change notification from various NCDOT sources. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation. Web mapping services are created from some of the events. The LRS supports systems, web applications, and geospatial data needs across NCDOT business units, as well as submittal to the Federal Highway Administration's Highway Performance Monitoring System (HPMS).

### Process step

#### Description

Development and maintenance of NCDOT's Linear Referencing System. This includes the road centerline, route network, some events, and other related spatial data.

## Process contact - originator

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### 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

9:00am - 5:00pm Monday - Friday

### Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

## Process step

### Description

Routes are created, edited, and/or retired based on official change notification from various NCDOT sources. Road attribute-only information is also provided to the GIS Unit. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation.

## Process contact - resource provider

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### Address

**Type** physical

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## Process step

### Description

Road attributes (event data) are referenced to the LRS network (routes). The event is edited by the NCDOT Division of Planning & Programming in an enterprise environment using Esri's online ArcGIS Event Editor software.

## Process contact - processor

**Organization's name** North Carolina Department of Transportation, Division of Planning and Programming

**Contact's position** Staff Engineer

### Contact information

#### Phone

**Voice** 919-707-4630

#### Address

**Type** physical

**Delivery point** 1 South Wilmington Street, Room 105

**City** Raleigh

**Administrative area** NC

**Postal code** 27601

**Country** US

**e-mail address** rlotfi@ncdot.gov

#### Hours of service

9:00am - 5:00pm Monday – Friday

## Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

## Process step

### Description

The NCRouteCharacteristics data is produced, where this data is derived.

## Process contact - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### Address

**Type** physical

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

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**Administrative area** NC  
**Postal code** 27610  
**Country** US  
**e-mail address** gishelp@ncdot.gov

**Hours of service**  
9:00am - 5:00pm Monday - Friday

### Contact instructions

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## Distribution

### Distributor

#### Contact information - distributor

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit  
**Contact's position** GIS Data and Services Consultant

#### Contact information

##### 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**  
9:00am - 5:00pm Monday - Friday

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## Distribution format

**Version** 10.8.1  
**Name** File Geodatabase Feature Class

## Fields

### Details for object NHSRoutes

**Type** Feature Class  
**Row count** 2818  
**Definition**  
National Highway System routes

## Definition source

North Carolina Department of Transportation

## Field NHSCategory

**Alias** NHSCategory

**Data type** String

**Width** 37

**Precision** 0

**Scale** 0

## Field description

NHS category for the dominant route

## Description source

NCDOT GIS

## List of values

**Value** Unbuilt NHS Routes

**Description** Unbuilt NHS Routes

**Value** STRAHNET Route

**Description** STRAHNET Route

**Value** Interstate

**Description** Interstate

**Value** MAP-21 NHS

**Description** MAP-21 NHS

**Enumerated domain value definition source** NCDOT

**Value** Other NHS

**Description** Other NHS

**Enumerated domain value definition source** NCDOT

**Value** STRAHNET Connector

**Description** STRAHNET Connector

**Enumerated domain value definition source** NCDOT

**Value** Intermodal Connector

**Description** Intermodal Connector

**Enumerated domain value definition source** NCDOT

**Value** Congressional High Priority Corridors

**Description** Congressional High Priority Corridors

**Enumerated domain value definition source** NCDOT

## Field RouteClass

**Alias** RouteClass  
**Data type** String  
**Width** 5  
**Precision** 0  
**Scale** 0

### Field description

Route class code - dominant route classification

### Description source

Federal Highway Administration/NCDOT GIS

### List of values

- Value** 4  
**Description** Secondary Route  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 9  
**Description** Projected Route  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 3  
**Description** NC Route  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 7  
**Description** Federal Route  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 89  
**Description** Non-Mainline  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 81  
**Description** Rest Area  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 6  
**Description** Other State Agency Route  
**Enumerated domain value definition source** Valid Route Class Codes
- Value** 82  
**Description** Non-System Ramp  
**Enumerated domain value definition source** Valid Route Class Codes

**Value** 2

**Description** US Route

**Enumerated domain value definition source** Valid Route Class Codes

**Value** 80

**Description** Ramp

**Enumerated domain value definition source** Valid Route Class Codes

**Value** 5

**Description** Non-System

**Enumerated domain value definition source** Valid Route Class Codes

**Value** 1

**Description** Interstate

**Enumerated domain value definition source** Valid Route Class Codes

## 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 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 RouteQualifier

**Alias** RouteQualifier

**Data type** String

**Width** 5

**Precision** 0

**Scale** 0

## Field description

An additional code that further defines the Dominant Route and is the 2nd digit in the 11 digit route number.

## Description source

Federal Highway Administration/NCDOT GIS

## List of values

**Value** 82

**Description** Non-System Ramp

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 7

**Description** Spur/Connector Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 6

**Description** West Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 89

**Description** Non-Mainline

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 0

**Description** Normal Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 5

**Description** East Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 9

**Description** Business Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 1

**Description** Alternate Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 8

**Description** Truck Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 2

**Description** Bypass Route

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 81

**Description** Rest Areas

**Enumerated domain value definition source** Valid Route Qualifier Codes

**Value** 80

**Description** Ramp

**Enumerated domain value definition source** Valid Route Qualifier Codes

## Field MaintCntyCode

**Alias** MaintCntyCode

**Data type** String

**Width** 3

**Precision** 0

**Scale** 0

### Field description

Maintenance county code - county responsible for maintenance for the route; and is the last 3 digits of the 11 digit route number.

### Description source

NCDOT GIS

### List of values

**Value** 020

**Description** Cherokee

**Enumerated domain value definition source** Valid Sap County Code

**Value** 066

**Description** Northampton

**Enumerated domain value definition source** Valid Sap County Code

**Value** 025

**Description** Craven

**Enumerated domain value definition source** Valid Sap County Code

**Value** 005

**Description** Ashe

**Enumerated domain value definition source** Valid Sap County Code

**Value** 026

**Description** Cumberland

**Enumerated domain value definition source** Valid Sap County Code

**Value** 079

**Description** Rockingham

**Enumerated domain value definition source** Valid Sap County Code

**Value** 008

**Description** Bertie

**Enumerated domain value definition source** Valid Sap County Code

**Value** 023

**Description** Cleveland

**Enumerated domain value definition source** Valid Sap County Code

**Value** 092

**Description** Wake

**Enumerated domain value definition source** Valid Sap County Code

**Value** 075

**Description** Polk

**Enumerated domain value definition source** Valid Sap County Code

**Value** 054

**Description** Lenoir

**Enumerated domain value definition source** Valid Sap County Code

**Value** 001

**Description** Alamance

**Enumerated domain value definition source** Valid Sap County Code

**Value** 061

**Description** Mitchell

**Enumerated domain value definition source** Valid Sap County Code

**Value** 058

**Description** Martin

**Enumerated domain value definition source** Valid Sap County Code

**Value** 062  
**Description** Montgomery  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 083  
**Description** Scotland  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 043  
**Description** Harnett  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 028  
**Description** Dare  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 047  
**Description** Hoke  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 045  
**Description** Henderson  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 024  
**Description** Columbus  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 036  
**Description** Gaston  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 073  
**Description** Person  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 094  
**Description** Washington  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 030  
**Description** Davie  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 099  
**Description** Yadkin

**Enumerated domain value definition source** Valid Sap County Code

**Value** 065

**Description** New Hanover

**Enumerated domain value definition source** Valid Sap County Code

**Value** 096

**Description** Wayne

**Enumerated domain value definition source** Valid Sap County Code

**Value** 018

**Description** Catawba

**Enumerated domain value definition source** Valid Sap County Code

**Value** 056

**Description** Macon

**Enumerated domain value definition source** Valid Sap County Code

**Value** 071

**Description** Pender

**Enumerated domain value definition source** Valid Sap County Code

**Value** 076

**Description** Randolph

**Enumerated domain value definition source** Valid Sap County Code

**Value** 044

**Description** Haywood

**Enumerated domain value definition source** Valid Sap County Code

**Value** 046

**Description** Hertford

**Enumerated domain value definition source** Valid Sap County Code

**Value** 012

**Description** Burke

**Enumerated domain value definition source** Valid Sap County Code

**Value** 004

**Description** Anson

**Enumerated domain value definition source** Valid Sap County Code

**Value** 077

**Description** Richmond

**Enumerated domain value definition source** Valid Sap County Code

**Value** 015  
**Description** Camden  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 090  
**Description** Union  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 067  
**Description** Onslow  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 027  
**Description** Currituck  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 080  
**Description** Rowan  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 035  
**Description** Franklin  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 070  
**Description** Pasquotank  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 031  
**Description** Duplin  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 039  
**Description** Granville  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 051  
**Description** Johnston  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 048  
**Description** Hyde  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 038  
**Description** Graham

**Enumerated domain value definition source** Valid Sap County Code

**Value** 082

**Description** Sampson

**Enumerated domain value definition source** Valid Sap County Code

**Value** 007

**Description** Beaufort

**Enumerated domain value definition source** Valid Sap County Code

**Value** 059

**Description** McDowell

**Enumerated domain value definition source** Valid Sap County Code

**Value** 095

**Description** Watauga

**Enumerated domain value definition source** Valid Sap County Code

**Value** 050

**Description** Jackson

**Enumerated domain value definition source** Valid Sap County Code

**Value** 064

**Description** Nash

**Enumerated domain value definition source** Valid Sap County Code

**Value** 017

**Description** Caswell

**Enumerated domain value definition source** Valid Sap County Code

**Value** 041

**Description** Guilford

**Enumerated domain value definition source** Valid Sap County Code

**Value** 100

**Description** Yancey

**Enumerated domain value definition source** Valid Sap County Code

**Value** 006

**Description** Avery

**Enumerated domain value definition source** Valid Sap County Code

**Value** 002

**Description** Alexander

**Enumerated domain value definition source** Valid Sap County Code

**Value** 057  
**Description** Madison  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 053  
**Description** Lee  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 069  
**Description** Pamlico  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 037  
**Description** Gates  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 084  
**Description** Stanly  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 074  
**Description** Pitt  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 091  
**Description** Vance  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 086  
**Description** Surry  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 097  
**Description** Wilkes  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 021  
**Description** Chowan  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 009  
**Description** Bladen  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 011  
**Description** Buncombe

**Enumerated domain value definition source** Valid Sap County Code

**Value** 016

**Description** Carteret

**Enumerated domain value definition source** Valid Sap County Code

**Value** 060

**Description** Mecklenburg

**Enumerated domain value definition source** Valid Sap County Code

**Value** 089

**Description** Tyrrell

**Enumerated domain value definition source** Valid Sap County Code

**Value** 034

**Description** Forsyth

**Enumerated domain value definition source** Valid Sap County Code

**Value** 032

**Description** Durham

**Enumerated domain value definition source** Valid Sap County Code

**Value** 081

**Description** Rutherford

**Enumerated domain value definition source** Valid Sap County Code

**Value** 093

**Description** Warren

**Enumerated domain value definition source** Valid Sap County Code

**Value** 072

**Description** Perquimans

**Enumerated domain value definition source** Valid Sap County Code

**Value** 013

**Description** Cabarrus

**Enumerated domain value definition source** Valid Sap County Code

**Value** 042

**Description** Halifax

**Enumerated domain value definition source** Valid Sap County Code

**Value** 085

**Description** Stokes

**Enumerated domain value definition source** Valid Sap County Code

**Value** 063  
**Description** Moore  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 087  
**Description** Swain  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 033  
**Description** Edgecombe  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 003  
**Description** Alleghany  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 014  
**Description** Caldwell  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 049  
**Description** Iredell  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 019  
**Description** Chatham  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 010  
**Description** Brunswick  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 040  
**Description** Greene  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 055  
**Description** Lincoln  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 078  
**Description** Robeson  
**Enumerated domain value definition source** Valid Sap County Code

**Value** 029  
**Description** Davidson

**Enumerated domain value definition source** Valid Sap County Code

**Value** 088

**Description** Transylvania

**Enumerated domain value definition source** Valid Sap County Code

**Value** 098

**Description** Wilson

**Enumerated domain value definition source** Valid Sap County Code

**Value** 068

**Description** Orange

**Enumerated domain value definition source** Valid Sap County Code

**Value** 022

**Description** Clay

**Enumerated domain value definition source** Valid Sap County Code

**Value** 052

**Description** Jones

**Enumerated domain value definition source** Valid Sap County Code

## Field RouteNumber

**Alias** RouteNumber

**Data type** String

**Width** 5

**Precision** 0

**Scale** 0

### Field description

Route number for the dominant route.

### Description source

Federal Highway Administration/NCDOT GIS

### Description of values

Positive real numbers that are manually generated

## Field Direction

**Alias** Direction

**Data type** String

**Width** 2

**Precision** 0

**Scale** 0

## Field description

Indicates the actual direction of the route.

## Description source

NCDOT GIS

## List of values

**Value** OO

**Description** Oneway Opposite

**Enumerated domain value definition source** Valid Direction values.

**Value** EB

**Description** Eastbound

**Enumerated domain value definition source** Valid Direction values.

**Value** SB

**Description** Southbound

**Enumerated domain value definition source** Valid Direction values.

**Value** CW

**Description** Clockwise

**Enumerated domain value definition source** Valid Direction values.

**Value** CC

**Description** Counterclockwise

**Enumerated domain value definition source** Valid Direction values.

**Value** OI

**Description** Oneway Inventory

**Enumerated domain value definition source** Valid Direction values.

**Value** NB

**Description** Northbound

**Enumerated domain value definition source** Valid Direction values.

**Value** BD

**Description** Bidirectional

**Enumerated domain value definition source** Valid Direction values.

**Value** WB

**Description** Westbound

**Enumerated domain value definition source** Valid Direction values.

## Field Routeld

**Alias** Routeld

**Data type** String

**Width** 15  
**Precision** 0  
**Scale** 0

### Field description

Route Identifier for Dominant Route. the 11 digit composite route number.  
More information explaining this route naming convention used by NCDOT is available here:  
<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

### Description source

NCDOT GIS

### Description of values

Positive 11 digit numbers.

## Field Routeld2

**Alias** Routeld  
**Data type** String  
**Width** 15  
**Precision** 0  
**Scale** 0

### Field description

The NCDOT eleven-digit number for a route coinciding with the dominate route in the network.  
More information explaining this route naming convention used by NCDOT is available here:  
<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

### Description source

NCDOT

### Description of values

Values vary.

## Field Routeld3

**Alias** Routeld  
**Data type** String  
**Width** 15  
**Precision** 0  
**Scale** 0

### Field description

The NCDOT eleven-digit number for a 2nd route coinciding with the dominate route in the network.  
More information explaining this route naming convention used by NCDOT is available here:

<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

### Description source

NCDOT

### Description of values

Values vary.

## Field RouteInventory

**Alias** RouteInventory

**Data type** String

**Width** 1

**Precision** 0

**Scale** 0

### Field description

The NCDOT Route Direction for Dominant Route and is the 3rd digit of the 11 digit route number.

### Description source

NCDOT GIS

### List of values

**Value** 9

**Description** Non-Inventory (Counter-Clockwise)

**Enumerated domain value definition source** Valid Inventory Codes

**Value** 8

**Description** Inventory (Clockwise)

**Enumerated domain value definition source** Valid Inventory Codes

**Value** 6

**Description** Non-Inventory (Westbound)

**Enumerated domain value definition source** Valid Inventory Codes

**Value** 4

**Description** Non-Inventory (Southbound)

**Enumerated domain value definition source** Valid Inventory Codes

**Value** 0

**Description** Inventory

**Enumerated domain value definition source** Valid Inventory Codes

## Field BeginMp

**Alias** BeginMp

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

### Field description

Beginning Milepost for Dominant Route.

### Description source

NCDOT

### Description of values

Values vary.

## Field EndMP

**Alias** EndMp

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

### Field description

Ending Milepost for Dominant Route

### Description source

NCDOT

### Description of values

Values vary.

## 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.

## 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** 2026-01-30

## ArcGIS metadata properties

**Metadata format** ArcGIS 1.0

**Metadata style** ISO 19139 Metadata Implementation Specification

**Standard or profile used to edit metadata** ISO19139

**Created in ArcGIS for the item** 2026-01-26 17:36:42

**Last modified in ArcGIS for the item** 2026-01-30 13:54:08

## Automatic updates

**Have been performed** Yes

**Last update** 2026-01-30 13:51:34

## Metadata Contacts

### Metadata contact - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### 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

9:00am - 5:00pm Monday - Friday

### Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

## Metadata Maintenance

## Maintenance

**Update frequency** quarterly

**Scope of the updates** dataset

## Maintenance contact - point of contact

**Organization's name** North Carolina Department of Information Technology -Transportation, GIS Unit

**Contact's position** GIS Data and Services Consultant

### Contact information

#### 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

9:00am - 5:00pm Monday - Friday

### Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

## Metadata Constraints

### Security constraints

**Classification** unclassified

**Classification system** None

### Limitations of use

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.

This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

## Constraints

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## **Thumbnail and Enclosures**

### **Thumbnail**

#### **Thumbnail type**

Image file