

Road Characteristics - Federal Aid Routes, 4th Quarter 2025 - NC

Department of Transportation

Geodatabase Feature Class



Tags SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County, Federal-Aid Eligible

Summary

This feature class contains lines representing North Carolina highway routes that are designated as eligible to receive assistance as part of the Federal-Aid Highway Program to support approved construction, maintenance and operations activities. Routes in this data set include all that are part of the National Highway System (NHS) in addition to routes with eligible Functional Classes.

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.

Description

This data set provides a visual representation of routes and roads in North Carolina that are eligible for federal aid and is comprised of the following:

- Routes with functional classes in these categories: Interstate, Principal Arterial Other Freeway, Principal Arterial Other, Minor Arterial, Major Collector, Urban Minor Collectors

- all NHS routes

[Further information on Federal Highway functional classification](#)

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

West -84.414684
East -75.424034
North 36.603183
South 33.754428

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 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, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County, Federal-Aid Eligible

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 - Federal Aid Routes, 4th Quarter 2025 - NC Department of Transportation

Alternate titles Federal Aid 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 - resource provider

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

Contact's position GIS Data and Services Consultant

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

Contact's position GIS Data and Services Consultant

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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 RoadFederalAid

Extents

Extent

Geographic extent

Bounding rectangle

West longitude -84.11613

East longitude -75.593013

South latitude 33.792692

North latitude 36.578571

Extent contains the resource Yes

Vertical extent

Minimum value -7.400000

Maximum value 6051.800000

Extent

Geographic extent

Bounding rectangle

West longitude -84.414684

East longitude -75.423594

South latitude 33.763411

North latitude 36.603183

Extent contains the resource Yes

Vertical extent

Minimum value -7.400000

Maximum value 6051.800000

Extent

Geographic extent

Bounding rectangle

Extent type

Extent used for searching

West longitude -84.414684

East longitude -75.424034

North latitude 36.603183

South latitude 33.754428

Extent contains the resource Yes

Extent in the item's coordinate system

westBL 408738.910048

eastBL 3050312.749744

southBL 43589.060080

northBL 1038500.819680

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

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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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Resource Maintenance

Resource maintenance

Update frequency quarterly

Scope of the updates dataset

Other maintenance requirements

The North Carolina Department of Transportation, Division of Highways.

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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

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Postal code 27610

Country US

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system 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 -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 RoadFederalAid
Object type composite
Object count 20066

ArcGIS Feature Class Properties

Feature class name RoadFederalAid
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 20066
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.

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.

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.

Lineage

Lineage statement

This data set is derived from the NCRouteCharacteristics data and contains Federal Air Routes.

This dataset was originally developed by the North Carolina Department of Transportation, in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of Federal Aid Routes 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

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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
Delivery point Century Center Building B, 1020 Birch Ridge Drive
City Raleigh
Administrative area NC
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Country US
e-mail address gishelp@ncdot.gov

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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
City Raleigh
Administrative area NC
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e-mail address gishelp@ncdot.gov

Hours of service

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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

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Distribution format

Version 10.8.1

Name File Geodatabase Feature Class

Fields

Details for object RoadFederalAid

Type Feature Class

Row count 20066

Definition

Federal Aid Routes

Definition source

North Carolina Department of Transportation

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 NB

Description Northbound

Enumerated domain value definition source Valid Direction values.

Value OI

Description Oneway Inventory

Enumerated domain value definition source Valid Direction values.

Value CC

Description Counterclockwise

Enumerated domain value definition source Valid Direction values.

Value OO

Description Oneway Opposite

Enumerated domain value definition source Valid Direction values.

Value BD

Description Bidirectional

Enumerated domain value definition source Valid Direction values.

Value CW

Description Clockwise

Enumerated domain value definition source Valid Direction values.

Value EB

Description Eastbound

Enumerated domain value definition source Valid Direction values.

Value WB

Description Westbound

Enumerated domain value definition source Valid Direction values.

Value SB

Description Southbound

Enumerated domain value definition source Valid Direction values.

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 8

Description Truck Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 6

Description West Route. Used only for US-19 West, which is a different route than US-19.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 5

Description East Route. Used only for US-19 East, which is a different route than US-19.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 89

Description Non-Mainline

Enumerated domain value definition source Valid Route Qualifier Codes

Value 1

Description Alternate Route. If the route class is FED, 1 (Alternative) is military-owned.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 82

Description Non-System Ramp

Enumerated domain value definition source Valid Route Qualifier Codes

Value 81

Description Rest Areas

Enumerated domain value definition source Valid Route Qualifier Codes

Value 2

Description Bypass Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 0

Description Normal Route. On most routes this indicates it is the normal route. If the route class is FED, then 0 (Normal) is the Blue Ridge Parkway.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 7

Description Spur/Connector Route. If the Route Class is Interstate, then the route is a spur. If the Route Class is US or NC Route then the route is a connector.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 80

Description Ramp

Enumerated domain value definition source Valid Route Qualifier Codes

Value 9

Description Business Route

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 and is the last 3 digits of the 11 digit route number.

Description source

NCDOT GIS

List of values

Value 014

Description Caldwell

Enumerated domain value definition source Valid Sap County Code

Value 066

Description Northampton

Enumerated domain value definition source Valid Sap County Code

Value 022

Description Clay

Enumerated domain value definition source Valid Sap County Code

Value 088

Description Transylvania

Enumerated domain value definition source Valid Sap County Code

Value 042

Description Halifax

Enumerated domain value definition source Valid Sap County Code

Value 057

Description Madison

Enumerated domain value definition source Valid Sap County Code

Value 050

Description Jackson

Enumerated domain value definition source Valid Sap County Code

Value 036

Description Gaston

Enumerated domain value definition source Valid Sap County Code

Value 054

Description Lenoir

Enumerated domain value definition source Valid Sap County Code

Value 080

Description Rowan

Enumerated domain value definition source Valid Sap County Code

Value 068

Description Orange

Enumerated domain value definition source Valid Sap County Code

Value 083

Description Scotland

Enumerated domain value definition source Valid Sap County Code

Value 017

Description Caswell

Enumerated domain value definition source Valid Sap County Code

Value 071

Description Pender

Enumerated domain value definition source Valid Sap County Code

Value 020

Description Cherokee

Enumerated domain value definition source Valid Sap County Code

Value 007

Description Beaufort

Enumerated domain value definition source Valid Sap County Code

Value 058

Description Martin

Enumerated domain value definition source Valid Sap County Code

Value 025
Description Craven
Enumerated domain value definition source Valid Sap County Code

Value 029
Description Davidson
Enumerated domain value definition source Valid Sap County Code

Value 012
Description Burke
Enumerated domain value definition source Valid Sap County Code

Value 034
Description Forsyth
Enumerated domain value definition source Valid Sap County Code

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

Value 032
Description Durham
Enumerated domain value definition source Valid Sap County Code

Value 046
Description Hertford
Enumerated domain value definition source Valid Sap County Code

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

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

Value 023
Description Cleveland
Enumerated domain value definition source Valid Sap County Code

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

Value 030
Description Davie

Enumerated domain value definition source Valid Sap County Code

Value 063

Description Moore

Enumerated domain value definition source Valid Sap County Code

Value 048

Description Hyde

Enumerated domain value definition source Valid Sap County Code

Value 055

Description Lincoln

Enumerated domain value definition source Valid Sap County Code

Value 015

Description Camden

Enumerated domain value definition source Valid Sap County Code

Value 098

Description Wilson

Enumerated domain value definition source Valid Sap County Code

Value 053

Description Lee

Enumerated domain value definition source Valid Sap County Code

Value 079

Description Rockingham

Enumerated domain value definition source Valid Sap County Code

Value 033

Description Edgecombe

Enumerated domain value definition source Valid Sap County Code

Value 002

Description Alexander

Enumerated domain value definition source Valid Sap County Code

Value 097

Description Wilkes

Enumerated domain value definition source Valid Sap County Code

Value 064

Description Nash

Enumerated domain value definition source Valid Sap County Code

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

Value 100
Description Yancey
Enumerated domain value definition source Valid Sap County Code

Value 065
Description New Hanover
Enumerated domain value definition source Valid Sap County Code

Value 011
Description Buncombe
Enumerated domain value definition source Valid Sap County Code

Value 038
Description Graham
Enumerated domain value definition source Valid Sap County Code

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

Value 081
Description Rutherford
Enumerated domain value definition source Valid Sap County Code

Value 004
Description Anson
Enumerated domain value definition source Valid Sap County Code

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

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

Value 013
Description Cabarrus
Enumerated domain value definition source Valid Sap County Code

Value 003
Description Alleghany

Enumerated domain value definition source Valid Sap County Code

Value 008

Description Bertie

Enumerated domain value definition source Valid Sap County Code

Value 005

Description Ashe

Enumerated domain value definition source Valid Sap County Code

Value 075

Description Polk

Enumerated domain value definition source Valid Sap County Code

Value 060

Description Mecklenburg

Enumerated domain value definition source Valid Sap County Code

Value 006

Description Avery

Enumerated domain value definition source Valid Sap County Code

Value 078

Description Robeson

Enumerated domain value definition source Valid Sap County Code

Value 052

Description Jones

Enumerated domain value definition source Valid Sap County Code

Value 085

Description Stokes

Enumerated domain value definition source Valid Sap County Code

Value 019

Description Chatham

Enumerated domain value definition source Valid Sap County Code

Value 076

Description Randolph

Enumerated domain value definition source Valid Sap County Code

Value 021

Description Chowan

Enumerated domain value definition source Valid Sap County Code

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

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

Value 082
Description Sampson
Enumerated domain value definition source Valid Sap County Code

Value 077
Description Richmond
Enumerated domain value definition source Valid Sap County Code

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

Value 016
Description Carteret
Enumerated domain value definition source Valid Sap County Code

Value 059
Description McDowell
Enumerated domain value definition source Valid Sap County Code

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

Value 072
Description Perquimans
Enumerated domain value definition source Valid Sap County Code

Value 026
Description Cumberland
Enumerated domain value definition source Valid Sap County Code

Value 056
Description Macon
Enumerated domain value definition source Valid Sap County Code

Value 039
Description Granville

Enumerated domain value definition source Valid Sap County Code

Value 043

Description Harnett

Enumerated domain value definition source Valid Sap County Code

Value 096

Description Wayne

Enumerated domain value definition source Valid Sap County Code

Value 045

Description Henderson

Enumerated domain value definition source Valid Sap County Code

Value 049

Description Iredell

Enumerated domain value definition source Valid Sap County Code

Value 092

Description Wake

Enumerated domain value definition source Valid Sap County Code

Value 044

Description Haywood

Enumerated domain value definition source Valid Sap County Code

Value 084

Description Stanly

Enumerated domain value definition source Valid Sap County Code

Value 089

Description Tyrrell

Enumerated domain value definition source Valid Sap County Code

Value 027

Description Currituck

Enumerated domain value definition source Valid Sap County Code

Value 094

Description Washington

Enumerated domain value definition source Valid Sap County Code

Value 031

Description Duplin

Enumerated domain value definition source Valid Sap County Code

Value 095
Description Watauga
Enumerated domain value definition source Valid Sap County Code

Value 061
Description Mitchell
Enumerated domain value definition source Valid Sap County Code

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

Value 018
Description Catawba
Enumerated domain value definition source Valid Sap County Code

Value 093
Description Warren
Enumerated domain value definition source Valid Sap County Code

Value 001
Description Alamance
Enumerated domain value definition source Valid Sap County Code

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

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

Value 041
Description Guilford
Enumerated domain value definition source Valid Sap County Code

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

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

Value 099
Description Yadkin

Enumerated domain value definition source Valid Sap County Code

Value 091

Description Vance

Enumerated domain value definition source Valid Sap County Code

Value 047

Description Hoke

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.

Description source

Federal Highway Administration/NCDOT GIS

Description of values

Positive real numbers that are manually generated

Field UrbanType

Alias UrbanType

Data type String

Width 15

Precision 0

Scale 0

Field description

The designated code of the Urban Area that the segment is located within

Description source

NCDOT GIS

List of values

Value Urban Cluster

Description Represent areas containing at least 2,500 and less than 50,000 people.

Enumerated domain value definition source NCDOT

Value Urbanized Area

Description Areas of 50,000 or more population
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** 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** 2
Description US Route
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** 1
Description Interstate
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** 4

Description Secondary Route
Enumerated domain value definition source Valid Route Class Codes

Value 81
Description Rest Area
Enumerated domain value definition source Valid Route Class Codes

Value 80
Description Ramp
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 5
Description Non-System
Enumerated domain value definition source Valid Route Class Codes

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 RouteId

Alias RouteId

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 FuncClass

Alias FuncClass

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

A classification system of roads based on the character of traffic service that they are intended to provide.

Approval of changes is done by the Federal Highway Administration and is managed by the Program Development Branch at NCDOT.

Description source

Federal Highway Administration/NCDOT GIS

List of values

Value 5

Description Major Collector

Enumerated domain value definition source Valid Functional Class Code

Value 3

Description PA-Other

Enumerated domain value definition source Valid Functional Class Code

Value 7

Description Local

Enumerated domain value definition source Valid Functional Class Code

Value 6

Description Minor Collector

Enumerated domain value definition source Valid Functional Class Code

Value 4

Description Minor Arterial

Enumerated domain value definition source Valid Functional Class Code

Value 1

Description Interstate

Enumerated domain value definition source Valid Functional Class Code

Value 2

Description PA-FrwyExp

Enumerated domain value definition source Valid Functional Class Code

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 4

Description Non-Inventory (Southbound)

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 0

Description Inventory

Enumerated domain value definition source Valid Inventory Codes

Value 9

Description Non-Inventory (Counter-Clockwise)

Enumerated domain value definition source Valid Inventory Codes

Field EndMp

Alias EndMp

Data type Double

Width 8

Precision 0

Scale 0

Field description

The ending milepost for route at that point on the segment.

Description source

NCDOT GIS

Description of values

Numbers; six decimals

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

Numbers; six decimals

Field NHS

Alias NHS
Data type SmallInteger
Width 2
Precision 0
Scale 0

Field description

National Highway System code designation (Codes 2-9 specify the type of intermodal connector). NHS is a network of nationally significant highways approved by Congress in the National Highway System Designation Act of 1995. All codes, 1-21, are part of the National Highway System.

Description source

Federal Highway Administration/NCDOT GIS

List of values

Value 8

Description Major Pipeline Terminal

Enumerated domain value definition source Valid National Highway System Code

Value 3

Description Major Port Facility

Enumerated domain value definition source Valid National Highway System Code

Value 1

Description NHS: not Intermodal Connector/MAP-21

Enumerated domain value definition source Valid National Highway System Code

Value 2

Description Major Airport

Enumerated domain value definition source Valid National Highway System Code

Value 9

Description Major Ferry Terminal

Enumerated domain value definition source Valid National Highway System Code

Value 21

Description Enhanced NHS – section was added to the National Highway System as part of MAP-21 legislation on October 1, 2012. These roads were principal arterials that were not part of the existing NHS.

Enumerated domain value definition source Valid National Highway System Code

Value 11

Description Congressional High Priority Corridor

Enumerated domain value definition source Valid National Highway System Code

Value 5

Description Major Rail/Truck Terminal

Enumerated domain value definition source Valid National Highway System Code

Value 6

Description Major Inter-city Bus Terminal

Enumerated domain value definition source Valid National Highway System Code

Value 7

Description Major Public Transit Terminal/Multi-modal Passenger Terminal

Enumerated domain value definition source Valid National Highway System Code

Value 4

Description Major Amtrak Station

Enumerated domain value definition source Valid National Highway System Code

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 15:58:50

Last modified in ArcGIS for the item 2026-01-30 13:56:37

Automatic updates

Have been performed Yes

Last update 2026-01-30 13:56:16

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

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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

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file