

Road Characteristics - Federal Aid Routes, 1st Quarter 2026 - 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 2026-05-04 00:00:00

Place keywords North Carolina, Division, County

Thesaurus

Title User

Publication date 2026-05-04 00:00:00

Citation

Title Road Characteristics - Federal Aid Routes, 1st Quarter 2026 - NC Department of Transportation

Alternate titles Federal Aid Routes

Publication date 2026-05-04 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.

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

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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.

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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

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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

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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 9.999999999999982

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["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666
```

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 20123

ArcGIS Feature Class Properties

Feature class name RoadFederalAid
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 20123
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

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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

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

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

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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 20123

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 Value 097	Valid Sap County Code
Description Wilkes	
Enumerated domain value definition source Value 064	Valid Sap County Code
Description Nash	
Enumerated domain value definition source Value 069	Valid Sap County Code
Description Pamlico	
Enumerated domain value definition source Value 100	Valid Sap County Code
Description Yancey	
Enumerated domain value definition source Value 065	Valid Sap County Code
Description New Hanover	
Enumerated domain value definition source Value 011	Valid Sap County Code
Description Buncombe	
Enumerated domain value definition source Value 038	Valid Sap County Code
Description Graham	
Enumerated domain value definition source Value 028	Valid Sap County Code
Description Dare	
Enumerated domain value definition source Value 081	Valid Sap County Code
Description Rutherford	
Enumerated domain value definition source Value 004	Valid Sap County Code
Description Anson	
Enumerated domain value definition source Value 062	Valid Sap County Code
Description Montgomery	
Enumerated domain value definition source Value 074	Valid Sap County Code
Description Pitt	
Enumerated domain value definition source Value 013	Valid Sap County Code
Description Cabarrus	
Enumerated domain value definition source Value 003	Valid Sap County Code
Description Alleghany	
Enumerated domain value definition source Value 008	Valid Sap County Code
Description Bertie	
Enumerated domain value definition source Value 005	Valid Sap County Code

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 Value 031	Valid Sap County Code
Description Duplin	
Enumerated domain value definition source Value 095	Valid Sap County Code
Description Watauga	
Enumerated domain value definition source Value 061	Valid Sap County Code
Description Mitchell	
Enumerated domain value definition source Value 009	Valid Sap County Code
Description Bladen	
Enumerated domain value definition source Value 018	Valid Sap County Code
Description Catawba	
Enumerated domain value definition source Value 093	Valid Sap County Code
Description Warren	
Enumerated domain value definition source Value 001	Valid Sap County Code
Description Alamance	
Enumerated domain value definition source Value 087	Valid Sap County Code
Description Swain	
Enumerated domain value definition source Value 073	Valid Sap County Code
Description Person	
Enumerated domain value definition source Value 041	Valid Sap County Code
Description Guilford	
Enumerated domain value definition source Value 035	Valid Sap County Code
Description Franklin	
Enumerated domain value definition source Value 010	Valid Sap County Code
Description Brunswick	
Enumerated domain value definition source Value 099	Valid Sap County Code
Description Yadkin	
Enumerated domain value definition source Value 091	Valid Sap County Code
Description Vance	
Enumerated domain value definition source Value 047	Valid Sap County Code
Description Hoke	
Enumerated domain value definition source Value	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 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 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 2026-04-16

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 2026-04-15 10:59:59

Last modified in ArcGIS for the item 2026-04-16 10:12:41

Automatic updates

Have been performed Yes

Last update 2026-04-16 10:12:19

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

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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

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Constraints

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file