

Road Characteristics - Federal Aid Routes, 2nd 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 -84.414671

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 2026-08-03 00:00:00

Place keywords North Carolina, Division, County

Thesaurus

Title User

Publication date 2026-08-03 00:00:00

Citation

Title Road Characteristics - Federal Aid Routes, 2nd Quarter 2026 - NC Department of Transportation

Alternate titles Federal Aid Routes

Publication date 2026-08-03 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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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
Location file://\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Maintenance\QuarterlyDataRefresh\Route\2026Q2\Review\Supplemental.gdb
Access protocol Local Area Network

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 -84.414671
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 408742.510480
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

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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

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.

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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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["NAD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

Reference system identifier

Value 2264

Codespace EPSG

Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only

Geometric objects

Feature class name RoadFederalAid

Object type composite

Object count 14574

ArcGIS Feature Class Properties

Feature class name RoadFederalAid

Feature type Simple

Geometry type Polyline

Has topology FALSE

Feature count 14574

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

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Administrative area NC
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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

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Administrative area NC

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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 14574
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 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
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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 2026-07-21

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 2026-07-14 10:15:18

Last modified in ArcGIS for the item 2026-07-21 15:05:28

Automatic updates

Have been performed Yes

Last update 2026-07-21 15:05:11

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