

Road Characteristics - Functional Class, 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, Transportation Planning, Location, Road Classification, Functional Classification.

Summary

This feature class provides visualization of functional class for roads and highways in North Carolina. Road centerlines are depicted with their respective functional classification assignments. The data set provides full coverage for state-maintained roads in North Carolina. The data is represented as lines derived from the NCDOT Linear Reference System (LRS) network of routes via the NCRoadCharacteristics data set updated quarterly in support of Highway Performance Monitoring System (HPMS) reporting.

Description

This data set contains road centerlines for roads and highways throughout North Carolina. Functional classification for the dominant route of each segment is included in the data. This type of classification allows streets and highways to be grouped into classes, or systems, according to the character of service they are intended to provide. Basic to this process is the recognition that individual roads and streets do not serve travel independently in any major way. Rather, most travel involves movement through a network of roads. It becomes necessary then to determine how this travel can be channelized within the network in a logical and efficient manner. Functional classification defines the nature of this channelization process by defining the part that any particular road or street should play in serving the flow of trips through a highway network. This categorization of roads allows transportation agencies to effectively plan, design, and maintain road networks. The NCDOT Transportation Planning Branch is responsible for processing updates to the Federal Functional Classification.

More information can be found here: <https://connect.ncdot.gov/projects/planning/Pages/Functional-Classification-of-Highways.aspx>

More detailed information about functional classification may be found on this Federal Highway Administration (FHWA) web site: https://www.fhwa.dot.gov/planning/processes/statewide/related/functional_classification/
The FHWA's Highway Functional Classification Concepts, Criteria and Procedures document (https://www.fhwa.dot.gov/planning/processes/statewide/related/highway_functional_classifications/fcauab.pdf) describes the procedures and processes for assigning functional classifications to roadways.

The functional classes are as follows: Interstate; Other Freeways and Expressways; Other Principal Arterial; Minor Arterial, Major Collector and Minor Collector, and Local Roads.

Interstates

Interstates are the highest classification of Arterials and were designed and constructed with mobility and long-distance travel in mind. Since their inception in the 1950's, the Interstate System has provided a superior network of limited access, divided highways offering high levels of mobility while linking the major urban areas of the United States. Roadways in this functional classification category are officially designated as Interstates by the Secretary of Transportation, and all routes that comprise the Dwight D. Eisenhower National System of Interstate and Defense

Highways belong to the Interstate functional classification category and are considered Principal Arterials.

Other Freeways & Expressways

The roads in this classification have directional travel lanes are usually separated by some type of physical barrier, and their access and egress points are limited to on- and off-ramp locations or a very limited number of at-grade intersections. Like Interstates, these roadways are designed and constructed to maximize their mobility function, and abutting land uses are not directly served by them.

Other Principal Arterials

These roadways serve major centers of metropolitan areas, provide a high degree of mobility and can also provide mobility through rural areas. Unlike their access-controlled counterparts, abutting land uses can be served directly. Forms of access for Other Principal Arterial roadways include driveways to specific parcels and at-grade intersections with other roadways. For the most part, roadways that fall into the top three functional classification categories (Interstate, Other Freeways & Expressways and Other Principal Arterials) provide similar service in both urban and rural areas. The primary difference is that there are usually multiple Arterial routes serving a particular urban area, radiating out from the urban center to serve the surrounding region. In contrast, an expanse of a rural area of equal size would be served by a single Arterial.

Minor Arterials

Minor Arterials provide service for trips of moderate length, serve geographic areas that are smaller than their higher Arterial counterparts and offer connectivity to the higher Arterial system. In an urban context, they interconnect and augment the higher Arterial system, provide intra-community continuity and may carry local bus routes. In rural settings, Minor Arterials should be identified and spaced at intervals consistent with population density, so that all developed areas are within a reasonable distance of a higher level Arterial. Additionally, Minor Arterials in rural areas are typically designed to provide relatively high overall travel speeds, with minimum interference to through movement.

Major and Minor Collectors

Collectors, regardless of whether they are within a rural area or an urban area, may be sub-stratified into major and minor categories. In the rural environment, Collectors generally serve primarily intra-county travel (rather than statewide) and constitute those routes on which (independent of traffic volume) predominant travel distances are shorter than on Arterial routes. Generally, Major Collector routes are longer in length; have lower connecting driveway densities; have higher speed limits; are spaced at greater intervals; have higher annual average traffic volumes; and may have more travel lanes than their Minor Collector counterparts.

Local Roads

Locally classified roads account for the largest percentage of all roadways in terms of mileage. They are not intended for use in long distance travel, except at the origin or destination end of the trip, due to their provision of direct access to abutting land. They are often designed to discourage through traffic. Local Roads are often classified by default. In other words, once all Arterial and Collector roadways have been identified, all remaining roadways are classified as Local Roads.

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 -84.421464

East -75.418363

North 36.615120

South 33.733304

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, Transportation Planning, Location, Road Classification, Functional Classification.

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 - Functional Class, 1st Quarter 2026 - NC Department of Transportation

Alternate titles Functional Class

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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Responsible party - point of contact

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

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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 -59.600000

Maximum value 6577.400000

Extent

Geographic extent

Bounding rectangle

West longitude -84.421752

East longitude -75.418246

South latitude 33.7333
North latitude 36.617735
Extent contains the resource Yes

Vertical extent

Minimum value -59.600000
Maximum value 6577.400000

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching
West longitude -84.421464
East longitude -75.418363
North latitude 36.615120
South latitude 33.733304
Extent contains the resource Yes

Extent in the item's coordinate system

westBL 406980.080272
eastBL 3051823.000288
southBL 35982.805072
northBL 1042847.424976
exTypeCode Yes

Resource Points of Contact

Point of contact - point of contact

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

Contact information

Address

Type physical
Delivery point Century Center Building B, 1020 Birch Ridge Drive
City Raleigh
Administrative area NC
Postal code 27610
Country US
e-mail address gishelp@ncdot.gov

Hours of service

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Contact instructions

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Resource Maintenance

Resource maintenance

Update frequency quarterly

Scope of the updates dataset

Other maintenance requirements

The North Carolina Department of Transportation, Division of Highways.

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

Maintenance contact - point of contact

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

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Contact instructions

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

Limitations of use

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Constraints

Limitations of use

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Spatial Reference

ArcGIS coordinate system

Type Projected

Geographic coordinate reference GCS_North_American_1983

Projection NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

Coordinate reference details

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 1893.9393939393938

ZOrigin -100000

ZScale 9.999999999999982

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 RoadFunctionalClass
Object type composite
Object count 397839

ArcGIS Feature Class Properties

Feature class name RoadFunctionalClass
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 397839
Spatial index TRUE
Linear referencing TRUE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness commission

Data quality measure reference

Measure description

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

Conformance test results

Test passed Yes
Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Data quality report - Conceptual consistency

Data quality measure reference

Measure description

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

Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Data quality report - Quantitative attribute accuracy

Quality evaluation procedure

Evaluation method

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Conformance test results

Test passed Yes

Result explanation

Pass.

Product specification

Title NCDOT Geospatial Data Specifications

Lineage

Lineage statement

This data set is derived from the NCRouteCharacteristics data and contains highway functional classifications. This dataset was originally developed by the North Carolina Department of Transportation, Transportation Planning Division, in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of highway functional classifications 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

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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Process step

Description

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

Process contact - author

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

Contact's position TPD Data Manager

Contact information

Phone

Voice 919-707-0900

Address

Type physical

Delivery point 1 South Wilmington Street

City Raleigh

Administrative area NC

Postal code 27601

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 NC Planning Geodatabase. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

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

Process contact - point of contact

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

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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

Hours of service

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Contact instructions

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Distribution format

Version 10.8.1

Name File Geodatabase Feature Class

Fields

Details for object RoadFunctionalClass

Type Feature Class

Row count 397839

Definition

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.

Definition source

North Carolina Department of Transportation

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 6

Description Minor Collector

Enumerated domain value definition source Valid Functional Class Code

Value 7

Description Local

Enumerated domain value definition source Valid Functional Class Code

Value 3

Description PA-Other

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 5

Description Major Collector

Enumerated domain value definition source Valid Functional Class Code

Value 2

Description PA-FrwyExp

Enumerated domain value definition source Valid Functional Class Code

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 81

Description Rest Area

Enumerated domain value definition source Valid Route Class Codes

Value 3

Description NC Route

Enumerated domain value definition source Valid Route Class Codes

Value 2

Description US Route

Enumerated domain value definition source Valid Route Class Codes

Value 9

Description Projected Route

Enumerated domain value definition source Valid Route Class Codes

Value 82

Description Non-System Ramp

Enumerated domain value definition source Valid Route Class Codes

Value 89

Description Non-Mainline

Enumerated domain value definition source Valid Route Class Codes

Value 80

Description Ramp

Enumerated domain value definition source Valid Route Class Codes

Value 4

Description Secondary Route

Enumerated domain value definition source Valid Route Class Codes

Value 1

Description Interstate

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 5

Description Non-System

Enumerated domain value definition source Valid Route Class Codes

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 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

Description of values

Positive 11 digit numbers.

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 0

Description Normal Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 2

Description Bypass Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 82

Description Non-System Ramp

Enumerated domain value definition source Valid Route Qualifier Codes

Value 8

Description Truck Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 5

Description East Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 80

Description Ramp

Enumerated domain value definition source Valid Route Qualifier Codes

Value 1

Description Alternate Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 9

Description Business Route

Enumerated domain value definition source Valid Route Qualifier Codes

Value 89

Description Non-Mainline

Enumerated domain value definition source Valid Route Qualifier Codes

Value 6

Description West Route

Enumerated domain value definition source Valid Route Qualifier Codes
Value 7
Description Spur/Connector Route
Enumerated domain value definition source Valid Route Qualifier Codes
Value 81
Description Rest Areas
Enumerated domain value definition source Valid Route Qualifier 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 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

List of values

Value 076
Description Randolph
Enumerated domain value definition source Valid Sap County Code
Value 045
Description Henderson
Enumerated domain value definition source Valid Sap County Code
Value 056
Description Macon
Enumerated domain value definition source Valid Sap County Code
Value 025

Description	Craven	
Enumerated domain value definition source		Valid Sap County Code
Value	069	
Description	Pamlico	
Enumerated domain value definition source		Valid Sap County Code
Value	085	
Description	Stokes	
Enumerated domain value definition source		Valid Sap County Code
Value	032	
Description	Durham	
Enumerated domain value definition source		Valid Sap County Code
Value	072	
Description	Perquimans	
Enumerated domain value definition source		Valid Sap County Code
Value	018	
Description	Catawba	
Enumerated domain value definition source		Valid Sap County Code
Value	099	
Description	Yadkin	
Enumerated domain value definition source		Valid Sap County Code
Value	057	
Description	Madison	
Enumerated domain value definition source		Valid Sap County Code
Value	006	
Description	Avery	
Enumerated domain value definition source		Valid Sap County Code
Value	049	
Description	Iredell	
Enumerated domain value definition source		Valid Sap County Code
Value	007	
Description	Beaufort	
Enumerated domain value definition source		Valid Sap County Code
Value	094	
Description	Washington	
Enumerated domain value definition source		Valid Sap County Code
Value	041	
Description	Guilford	
Enumerated domain value definition source		Valid Sap County Code
Value	088	
Description	Transylvania	
Enumerated domain value definition source		Valid Sap County Code
Value	038	
Description	Graham	
Enumerated domain value definition source		Valid Sap County Code
Value	100	
Description	Yancey	
Enumerated domain value definition source		Valid Sap County Code

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

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

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

Value 068
Description Orange
Enumerated domain value definition source Valid Sap County Code

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

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

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

Value 089
Description Tyrrell
Enumerated domain value definition source Valid Sap County Code

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

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

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

Value 096
Description Wayne
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 053
Description Lee
Enumerated domain value definition source Valid Sap County Code

Value 015
Description Camden

Enumerated domain value definition source Value 042	Valid Sap County Code
Description Halifax	
Enumerated domain value definition source Value 054	Valid Sap County Code
Description Lenoir	
Enumerated domain value definition source Value 093	Valid Sap County Code
Description Warren	
Enumerated domain value definition source Value 004	Valid Sap County Code
Description Anson	
Enumerated domain value definition source Value 047	Valid Sap County Code
Description Hoke	
Enumerated domain value definition source Value 036	Valid Sap County Code
Description Gaston	
Enumerated domain value definition source Value 028	Valid Sap County Code
Description Dare	
Enumerated domain value definition source Value 026	Valid Sap County Code
Description Cumberland	
Enumerated domain value definition source Value 065	Valid Sap County Code
Description New Hanover	
Enumerated domain value definition source Value 055	Valid Sap County Code
Description Lincoln	
Enumerated domain value definition source Value 086	Valid Sap County Code
Description Surry	
Enumerated domain value definition source Value 066	Valid Sap County Code
Description Northampton	
Enumerated domain value definition source Value 059	Valid Sap County Code
Description McDowell	
Enumerated domain value definition source Value 005	Valid Sap County Code
Description Ashe	
Enumerated domain value definition source Value 074	Valid Sap County Code
Description Pitt	
Enumerated domain value definition source Value 003	Valid Sap County Code

Description	Alleghany	
Enumerated domain value definition source		Valid Sap County Code
Value	075	
Description	Polk	
Enumerated domain value definition source		Valid Sap County Code
Value	039	
Description	Granville	
Enumerated domain value definition source		Valid Sap County Code
Value	098	
Description	Wilson	
Enumerated domain value definition source		Valid Sap County Code
Value	046	
Description	Hertford	
Enumerated domain value definition source		Valid Sap County Code
Value	084	
Description	Stanly	
Enumerated domain value definition source		Valid Sap County Code
Value	011	
Description	Buncombe	
Enumerated domain value definition source		Valid Sap County Code
Value	014	
Description	Caldwell	
Enumerated domain value definition source		Valid Sap County Code
Value	035	
Description	Franklin	
Enumerated domain value definition source		Valid Sap County Code
Value	077	
Description	Richmond	
Enumerated domain value definition source		Valid Sap County Code
Value	037	
Description	Gates	
Enumerated domain value definition source		Valid Sap County Code
Value	029	
Description	Davidson	
Enumerated domain value definition source		Valid Sap County Code
Value	052	
Description	Jones	
Enumerated domain value definition source		Valid Sap County Code
Value	095	
Description	Watauga	
Enumerated domain value definition source		Valid Sap County Code
Value	044	
Description	Haywood	
Enumerated domain value definition source		Valid Sap County Code
Value	019	
Description	Chatham	
Enumerated domain value definition source		Valid Sap County Code

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

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

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

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

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

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

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

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

Value 050
Description Jackson
Enumerated domain value definition source Valid Sap County Code

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

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

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

Value 008
Description Bertie
Enumerated domain value definition source Valid Sap County Code

Value 092
Description Wake
Enumerated domain value definition source Valid Sap County Code

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

Value 060
Description Mecklenburg

Enumerated domain value definition source Value 080	Valid Sap County Code
Description Rowan	
Enumerated domain value definition source Value 024	Valid Sap County Code
Description Columbus	
Enumerated domain value definition source Value 064	Valid Sap County Code
Description Nash	
Enumerated domain value definition source Value 058	Valid Sap County Code
Description Martin	
Enumerated domain value definition source Value 091	Valid Sap County Code
Description Vance	
Enumerated domain value definition source Value 031	Valid Sap County Code
Description Duplin	
Enumerated domain value definition source Value 002	Valid Sap County Code
Description Alexander	
Enumerated domain value definition source Value 079	Valid Sap County Code
Description Rockingham	
Enumerated domain value definition source Value 078	Valid Sap County Code
Description Robeson	
Enumerated domain value definition source Value 022	Valid Sap County Code
Description Clay	
Enumerated domain value definition source Value 081	Valid Sap County Code
Description Rutherford	
Enumerated domain value definition source Value 010	Valid Sap County Code
Description Brunswick	
Enumerated domain value definition source Value 027	Valid Sap County Code
Description Currituck	
Enumerated domain value definition source Value 083	Valid Sap County Code
Description Scotland	
Enumerated domain value definition source Value 051	Valid Sap County Code
Description Johnston	
Enumerated domain value definition source Value 017	Valid Sap County Code

Description Caswell
Enumerated domain value definition source Valid Sap County Code
Value 073
Description Person
Enumerated domain value definition source Valid Sap County Code
Value 087
Description Swain
Enumerated domain value definition source Valid Sap County Code

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 OI
Description Oneway Inventory
Enumerated domain value definition source Valid Direction values.
Value EB
Description Eastbound
Enumerated domain value definition source Valid Direction values.
Value CW
Description Clockwise
Enumerated domain value definition source Valid Direction values.
Value NB
Description Northbound
Enumerated domain value definition source Valid Direction values.
Value WB
Description Westbound
Enumerated domain value definition source Valid Direction values.
Value CC
Description Counterclockwise
Enumerated domain value definition source Valid Direction values.
Value BD
Description Bidirectional
Enumerated domain value definition source Valid Direction values.
Value SB
Description Southbound
Enumerated domain value definition source Valid Direction values.
Value OO

Description Oneway Opposite

Enumerated domain value definition source Valid Direction values.

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 FuncClassDate

Alias FuncClassDate

Data type Date

Width 8

Precision 0

Scale 0

Field description

The date which the road became part of the Federal Highway Administration and is managed by the Program Development Branch at NCDOT..

Description source

Federal Highway Administration/NCDOT GIS

Description of values

Date

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 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 8

Description Inventory (Clockwise)

Enumerated domain value definition source Valid Inventory Codes

Value 4

Description Non-Inventory (Southbound)

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 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 11:09:25

Last modified in ArcGIS for the item 2026-04-16 10:13:11

Automatic updates

Have been performed Yes

Last update 2026-04-16 10:12:48

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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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