

Road Characteristics - Access Control, 2nd Quarter 2025 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Access, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County

Summary

This feature class contains lines representing North Carolina state-maintained highways where there is either partial or full access control. Access control refers to the management and regulation of through-movement traffic to ensure safe and efficient flow. 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 feature class is a representation of a subset of North Carolina roads and highways where Access Control is described as partial or full.

Proper management of traffic Access Control helps prevent accidents, reduces the chances of traffic bottlenecks, and contributes to a smoother and safer driving experience for motorists and pedestrians. Roads with Partial Access Control: Preference is given to through-traffic movement. There may be a mix of interchanges, with at-grade crossings on public roads. There also may be no interchanges, but instead direct, private driveway connections have been minimized through the use of frontage roads or other local access restrictions. Control of curb cuts is not "access control."

Roads with Full Access Control: Road has complete access control. Preference has been given to through traffic movements by providing interchanges with selected roads. No at-grade intersections are allowed.

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 -84.090439 **East** -75.594766

North 36.578568 **South** 33.793726
Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE transportation, location, society

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina, Division, County

THESAURUS ►

TITLE User

PUBLICATION DATE 2025-08-11 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Access, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County

THESAURUS ►

TITLE User

PUBLICATION DATE 2025-08-11 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE Road Characteristics - Access Control, 2nd Quarter 2025 - NC Department of Transportation

ALTERNATE TITLES Route Access Control

PUBLICATION DATE 2025-08-11 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

ADDRESS

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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.

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE resource provider

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CONTACT'S ROLE point of contact

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[Hide Citation Contacts ▲](#)

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.

[Hide Resource Details ▲](#)

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 -4.800000
* MAXIMUM VALUE 6051.800000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.090438
EAST LONGITUDE -75.594766
SOUTH LATITUDE 33.793726
NORTH LATITUDE 36.578566

EXTENT CONTAINS THE RESOURCE Yes

VERTICAL EXTENT

* MINIMUM VALUE -4.800000
* MAXIMUM VALUE 6051.800000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.090439

* EAST LONGITUDE -75.594766

* NORTH LATITUDE 36.578568

* SOUTH LATITUDE 33.793726

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 503740.254640

* EAST LONGITUDE 3000433.659472

* SOUTH LATITUDE 53044.609744

* NORTH LATITUDE 1029537.737200

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points 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'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

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

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

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

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[Hide Resource Constraints](#) ▲

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

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 1893.9393939393938
Z ORIGIN -100000
Z SCALE 9.9999999999999982
M ORIGIN -100000
M SCALE 10000000
XY TOLERANCE 0.00528
Z TOLERANCE 0.20000000000000004
M TOLERANCE 9.9999999999999995e-07
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
VCSWKID 105703
LATESTVCSWKID 6360

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192]],VERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

REFERENCE SYSTEM IDENTIFIER

- VALUE 2264
- * CODESPACE EPSG
 - * VERSION 6.12(9.0.0)

[Hide Spatial Reference](#) ▲

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME RoadAccessControl

* OBJECT TYPE composite

* OBJECT COUNT 1733

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME RoadAccessControl

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1733

* SPATIAL INDEX TRUE

* LINEAR REFERENCING TRUE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - COMPLETENESS COMMISSION ►

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

Hide Product specification ▲

Hide Data quality report - Completeness commission ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

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CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

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

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ▶

LINEAGE STATEMENT

This data set is derived from the NCRouteCharacteristics data and contains lines representing North Carolina state-maintained highways where there is either partial or full access control.

This dataset was originally developed by the North Carolina Department of Transportation, Operations Program Management in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of partial or full road access control 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

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE originator

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.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

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

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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[Hide Contact information ▲](#)

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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

ORGANIZATION'S NAME North Carolina Department of Transportation, Operations Program Management

CONTACT'S POSITION Road Inventory Engineer

CONTACT'S ROLE processor

CONTACT INFORMATION ▶

PHONE

VOICE 919-733-3725

ADDRESS

TYPE physical

DELIVERY POINT 4809 Beryl Road

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E-MAIL ADDRESS jtdavis@ncdot.gov

HOURS OF SERVICE

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CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

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

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.8.1

* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [RoadAccessControl](#) ►

* TYPE Feature Class

* ROW COUNT 1733

DEFINITION

Access Control to North Carolina state-maintained routes

DEFINITION SOURCE

North Carolina Department of Transportation

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 2

DESCRIPTION Bypass 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 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 8

DESCRIPTION Truck 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 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

VALUE 1

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

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 89

DESCRIPTION Non-Mainline

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 81

DESCRIPTION Rest Areas

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

Hide Field RouteQualifier ▲

FIELD RouteClass ►

* **ALIAS** RouteClass

* **DATA TYPE** String

* **WIDTH** 5

* **PRECISION** 0

* **SCALE** 0

FIELD DESCRIPTION

Route class code - dominant route classification

DESCRIPTION SOURCE

Federal Highway Administration/NCDOT GIS

LIST OF VALUES

VALUE 4

DESCRIPTION Secondary Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 9

DESCRIPTION Projected Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 3

DESCRIPTION NC Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 7
DESCRIPTION Federal Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 81
DESCRIPTION Rest Area
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 6
DESCRIPTION Other State Agency Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 89
DESCRIPTION Non-Mainline
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 82
DESCRIPTION Non-System Ramp
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 2
DESCRIPTION US Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 80
DESCRIPTION Ramp
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 5
DESCRIPTION Non-System
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

VALUE 1
DESCRIPTION Interstate
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

Hide Field RouteClass ▲

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 008
DESCRIPTION Bertie
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 067

DESCRIPTION Onslow
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 017
DESCRIPTION Caswell
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 069
DESCRIPTION Pamlico
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 039
DESCRIPTION Granville
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 060
DESCRIPTION Mecklenburg
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 093
DESCRIPTION Warren
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 051
DESCRIPTION Johnston
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 086
DESCRIPTION Surry
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 098
DESCRIPTION Wilson
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 084
DESCRIPTION Stanly
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 029
DESCRIPTION Davidson
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 048
DESCRIPTION Hyde
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 032
DESCRIPTION Durham
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 006
DESCRIPTION Avery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 004
DESCRIPTION Anson
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 090
DESCRIPTION Union
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 066
DESCRIPTION Northampton
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 003
DESCRIPTION Alleghany
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 092
DESCRIPTION Wake
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 047
DESCRIPTION Hoke
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 031
DESCRIPTION Duplin
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 081
DESCRIPTION Rutherford
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 023
DESCRIPTION Cleveland
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 065
DESCRIPTION New Hanover
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 094
DESCRIPTION Washington
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 052
DESCRIPTION Jones
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 096
DESCRIPTION Wayne
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 100
DESCRIPTION Yancey
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 074
DESCRIPTION Pitt
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 024

DESCRIPTION	Columbus	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	033	
DESCRIPTION	Edgecombe	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	099	
DESCRIPTION	Yadkin	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	018	
DESCRIPTION	Catawba	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	062	
DESCRIPTION	Montgomery	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	002	
DESCRIPTION	Alexander	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	019	
DESCRIPTION	Chatham	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	063	
DESCRIPTION	Moore	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	025	
DESCRIPTION	Craven	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	030	
DESCRIPTION	Davie	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	079	
DESCRIPTION	Rockingham	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	095	
DESCRIPTION	Watauga	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	038	
DESCRIPTION	Graham	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	007	
DESCRIPTION	Beaufort	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	034	
DESCRIPTION	Forsyth	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code
VALUE	014	
DESCRIPTION	Caldwell	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE		Valid Sap County Code

VALUE 020
DESCRIPTION Cherokee
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 027
DESCRIPTION Currituck
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 049
DESCRIPTION Iredell
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 021
DESCRIPTION Chowan
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 028
DESCRIPTION Dare
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 064
DESCRIPTION Nash
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 043
DESCRIPTION Harnett
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 058
DESCRIPTION Martin
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 057
DESCRIPTION Madison
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 037
DESCRIPTION Gates
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 056
DESCRIPTION Macon
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 005
DESCRIPTION Ashe
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 068
DESCRIPTION Orange
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 045
DESCRIPTION Henderson
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 036
DESCRIPTION Gaston
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 071

DESCRIPTION	Pender	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	083	
DESCRIPTION	Scotland	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	042	
DESCRIPTION	Halifax	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	077	
DESCRIPTION	Richmond	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	085	
DESCRIPTION	Stokes	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	044	
DESCRIPTION	Haywood	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	050	
DESCRIPTION	Jackson	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	035	
DESCRIPTION	Franklin	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	076	
DESCRIPTION	Randolph	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	082	
DESCRIPTION	Sampson	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	070	
DESCRIPTION	Pasquotank	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	022	
DESCRIPTION	Clay	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	087	
DESCRIPTION	Swain	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	016	
DESCRIPTION	Carteret	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	089	
DESCRIPTION	Tyrrell	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	
VALUE	013	
DESCRIPTION	Cabarrus	
ENUMERATED DOMAIN VALUE DEFINITION SOURCE	Valid Sap County Code	

VALUE 001
DESCRIPTION Alamance
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 088
DESCRIPTION Transylvania
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 072
DESCRIPTION Perquimans
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 054
DESCRIPTION Lenoir
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 012
DESCRIPTION Burke
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 059
DESCRIPTION McDowell
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 073
DESCRIPTION Person
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 026
DESCRIPTION Cumberland
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 080
DESCRIPTION Rowan
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 040
DESCRIPTION Greene
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 055
DESCRIPTION Lincoln
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 053
DESCRIPTION Lee
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 015
DESCRIPTION Camden
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 041
DESCRIPTION Guilford
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 010
DESCRIPTION Brunswick
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 011

DESCRIPTION Buncombe
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 097
DESCRIPTION Wilkes
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 075
DESCRIPTION Polk
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 091
DESCRIPTION Vance
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 046
DESCRIPTION Hertford
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 078
DESCRIPTION Robeson
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

[Hide Field MaintCntyCode ▲](#)

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 9
DESCRIPTION Non-Inventory (Counter-Clockwise)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 6
DESCRIPTION Non-Inventory (Westbound)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 8
DESCRIPTION Inventory (Clockwise)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 0
DESCRIPTION Inventory
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

[Hide Field RouteInventory ▲](#)

FIELD **RouteId** ►

- * ALIAS RouteId
- * DATA TYPE String
- * WIDTH 15
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

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

DESCRIPTION SOURCE

NCDOT GIS

DESCRIPTION OF VALUES

Positive 11 digit numbers.

Hide Field RouteId ▲

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

Hide Field RouteNumber ▲

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.

[Hide Field OBJECTID ▲](#)

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 EB

DESCRIPTION Eastbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE CC

DESCRIPTION Counterclockwise

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE NB

DESCRIPTION Northbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE SB

DESCRIPTION Southbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE CW

DESCRIPTION Clockwise

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE WB

DESCRIPTION Westbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE BD

DESCRIPTION Bidirectional

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE OI

DESCRIPTION Oneway Inventory

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE OO

DESCRIPTION Oneway Opposite

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

[Hide Field Direction ▲](#)

FIELD **AccessControl** ►

* ALIAS AccessControl

* DATA TYPE String
* WIDTH 10
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Indicates degree of control of through traffic movements on a route. No data indicates that the section of road has no access control, meaning that traffic moves freely through intersecting roads and driveways.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Partial

DESCRIPTION Road has partial access control. Preference is given to through traffic movement. There may be a mix of interchanges, with at-grade crossings at public roads. There also may be no interchanges, but instead direct, private driveway connections have been minimized through the use of frontage roads or other local access restriction. Control of curb cuts is not access control.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Full

DESCRIPTION Road has complete access control. Preference has been given to through traffic movements by providing interchanges with selected roads. No at-grade intersections are allowed.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field AccessControl ▲

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.

Hide Field SHAPE ▲

FIELD BeginMp ►

* ALIAS BeginMp
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Beginning Milepost for Dominant Route.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field BeginMp ▲

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

DESCRIPTION OF VALUES

Numbers; six decimals

Hide Field EndMp ▲

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.

Hide Field SHAPE_Length ▲

Hide Details for object RoadAccessControl ▲

Hide Fields ▲

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 2025-07-21

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 2025-07-21 10:30:24

LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-07-21 14:40:57

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2025-07-21 14:40:57

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

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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

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.

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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CONSTRAINTS

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[Hide Metadata Constraints](#) ▲