

Road Characteristics - Access Control, 2nd Quarter 2026 - NC

Department of Transportation

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

Topics and Keywords

Themes or categories of the resource Transportation, Location, Society

Content type Downloadable Data

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 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 - Access Control, 2nd Quarter 2026 - NC Department of Transportation
Alternate titles Route Access Control
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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Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
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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 RoadAccessControl
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 -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

westBL 503740.254640
eastBL 3000433.659472
southBL 53044.609744
northBL 1029537.737200
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
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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indicate as such in the subject line in an email.

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

9:00am - 5:00pm Monday - Friday

Contact instructions

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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",34.3333333333334],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 RoadAccessControl

Object type composite

Object count 1724

ArcGIS Feature Class Properties

Feature class name RoadAccessControl

Feature type Simple

Geometry type Polyline

Has topology FALSE

Feature count 1724

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

Data quality measure reference

Measure description

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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 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 - originator

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address gishelp@ncdot.gov

Hours of service

9:00am - 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

Process step

Description

Routes are created, edited, and/or retired based on official change notification from various NCDOT sources. Road attribute-only information is also provided to the GIS Unit. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation.

Process contact - resource provider

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

Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical

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Process step

Description

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 - processor

Organization's name North Carolina Department of Transportation, Operations Program Management

Contact's position Road Inventory Engineer

Contact information

Phone

Voice 919-733-3725

Address

Type physical

Delivery point 4809 Beryl Road

City Raleigh

Administrative area NC

Postal code 27606

e-mail address jtdavis@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, 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

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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

9:00am - 5:00pm Monday - Friday

Contact instructions

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Distribution format

Version 10.8.1

Name File Geodatabase Feature Class

Fields

Details for object RoadAccessControl

Type Feature Class

Row count 1724

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

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	

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

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

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 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 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 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.

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

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 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.

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

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 10:09:24

Last modified in ArcGIS for the item 2026-07-21 15:04:36

Automatic updates

Have been performed Yes

Last update 2026-07-21 15:04:17

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

Metadata Constraints

Security constraints

Classification unclassified
Classification system None

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type
Image file