

North Carolina County Boundary Polygons, 2022 - NC Department of Transportation / NC Geodetic Survey

File Geodatabase Feature Class



Tags

NC, North Carolina, NC OneMap, Department of Public Safety, DPS, North Carolina Emergency Management, NCEM, North Carolina Geodetic Survey, NC Geodetic Survey, NCGS, boundaries, location, County Boundary, State Boundary, State, County, Boundary

Summary

Vector polygon dataset defining the official boundaries of the counties within North Carolina as well as the boundaries between North Carolina and the states which border North Carolina.

Description

The North Carolina State and County Boundary vector polygon data provides location information for North Carolina State and County Boundary lines derived from the best available survey and/or Geographic Information System (GIS) data. Sources for information are the North Carolina Geodetic Survey (NCGS), NC Department of Transportation (NCDOT), United States Geological Survey (USGS), and field surveys conducted by licensed surveyors in North Carolina and neighboring states that have been approved and recorded in their respective counties. North Carolina Geodetic Survey assists counties on a cooperative basis (NC General Statute 153A-18) in defining and monumenting the location of uncertain or disputed boundaries as established by law. Some counties have completed boundary surveys for at least a portion of their county boundary. However, the majority of county boundaries have not been surveyed and are represented by the best currently available data from GIS sources, including NCDOT county maps (which originally came from the USGS) and updated county parcel maps.

Credits

North Carolina Geodetic Survey (NCGS), North Carolina Department of Transportation.

Support and maintenance of the 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.

Extent

West -84.422109 **East** -75.416032

North 36.617254 **South** 33.730554

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 boundaries, location

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2023-02-13 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Polygon, Boundaries, location, County Boundary, State Boundary, State, County, Boundary

THESAURUS ▶

TITLE User

PUBLICATION DATE 2023-02-13 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE North Carolina County Boundary Polygons, 2022 - NC Department of Transportation / NC Geodetic Survey

ALTERNATE TITLES BoundaryCountyPolygon

PUBLICATION DATE 2023-02-13 00:00:00

REVISION DATE 2020-08-19 00:00:00

CREATION DATE 2011-11-30 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 Geodetic Survey

CONTACT'S POSITION GIS Manager

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-733-3836

ADDRESS

TYPE physical

DELIVERY POINT 4105 Reedy Creek Rd

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27607

COUNTRY US

E-MAIL ADDRESS watson.ross@ncdps.gov

HOURS OF SERVICE

Hours: 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.

Hide Contact information ▲

RESPONSIBLE PARTY

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Blvd.

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

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

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CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[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

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

North Carolina Geodetic Survey (NCGS), North Carolina Department of Transportation.

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[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2020-08-19 00:00:00

EXTENT

DESCRIPTION

geographic extent

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422111

EAST LONGITUDE -75.416034

SOUTH LATITUDE 33.730557

NORTH LATITUDE 36.617257

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.422109

* EAST LONGITUDE -75.416032

* NORTH LATITUDE 36.617254

* SOUTH LATITUDE 33.730554

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 406832.628358

* EAST LONGITUDE 3052480.022092

* SOUTH LATITUDE 34987.950232

* NORTH LATITUDE 1043624.415895

* 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 Help Desk

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Blvd.

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

Updated August 2020 to correct minor error in Orange-Chatham boundary, and to update portion of Burke-McDowell boundary.

Updated March 2022 to correct county District numbers.

OTHER MAINTENANCE REQUIREMENTS

North Carolina Geodetic Survey (NCGS), North Carolina Department of Transportation.

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MAINTENANCE CONTACT

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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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

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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 3048.0060960121918

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.0032808333333333331

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2264

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],AUTHORITY["EPSG",2264]]

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 BoundaryCountyPolygon

* OBJECT TYPE composite

* OBJECT COUNT 100

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BoundaryCountyPolygon

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 100

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

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 - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

Tests for integrity have not been performed.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2022-03-22 00:00:00

PUBLICATION DATE 2022-03-22 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

MEASURE DESCRIPTION

North Carolina Geodetic Survey verified and updated any of the lines that have been surveyed and approved by the respective counties.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2022-03-22 00:00:00

PUBLICATION DATE 2022-03-22 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Absolute external positional accuracy ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

There are no measurement, precision, spatial, or data schema standards assigned to this data set.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**

CREATION DATE **2022-03-22 00:00:00**

PUBLICATION DATE **2022-03-22 00:00:00**

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

DATA QUALITY REPORT - COMPLETENESS COMMISSION ▶

MEASURE DESCRIPTION

Features have been checked for completeness. There are no measurement, precision, spatial, or data schema standards assigned to this data set.

Hide Data quality report - Completeness commission ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Some counties have completed boundary surveys for at least a portion of their county boundary. However, the majority of county boundaries have not been surveyed and are represented by the best currently available data from GIS sources, including NCDOT county maps (which originally came from the USGS) and updated county parcel maps.

PROCESS STEP ▶

DESCRIPTION

Review and Prep data for publication

PROCESS CONTACT

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE processor

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Blvd.

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

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

CONTACT INSTRUCTIONS

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Hide Contact information ▲

Hide Process step ▲

PROCESS STEP ►

DESCRIPTION

Data was downloaded from NCGS and converted to a Feature Class using Python code. Code is not provided but it basically builds polygons and joins basic attributes for all county.

PROCESS CONTACT

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

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Hide Process step ▲

PROCESS STEP ▶

DESCRIPTION

SHPName field was added

RATIONALE

To facilitate information needed by the NC State Highway Patrol

PROCESS CONTACT

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

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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 Help Desk

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Blvd.

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

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CONTACT INSTRUCTIONS

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Hide Contact information ▲

Hide Distributor ▲

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.8.1

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT [BoundaryCountyPolygon ►](#)

* TYPE Feature Class

* ROW COUNT 100

DEFINITION SOURCE

NCGS

DEFINITION

Vector polygon data describing the boundaries of all 100 counties in North Carolina

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 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 FIPS ►

* ALIAS FIPS

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Federal Information Processing Standard (FIPS) code from 1 to 199 for each county but not the same order as the DOT-CODE because it puts McDowell County before 4 counties (Macon, Madison, Martin, & Mecklenburg)

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Integers from 1 to 199 representing the FIPS code for the 100 counties in North Carolina

Hide Field FIPS ▲

FIELD CountyName ►

* ALIAS CountyName

* DATA TYPE String

* WIDTH 15

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

County name.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Text.

Hide Field CountyName ▲

FIELD UpperCountyName ►

* ALIAS UpperCountyName

* DATA TYPE String

* WIDTH 15

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

County name in all upper case lettering.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Text.

Hide Field UpperCountyName ▲

FIELD SapCountyId ►

* ALIAS SapCountyId

* DATA TYPE String

* WIDTH 3

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The SAP County code. Starts at 001 for Alamance County and 100 for Yancey County.
See <https://slph.dph.ncdhhs.gov/doc/NorthCarolinaCountyCodes.pdf>.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 001

MAXIMUM VALUE 100

Hide Field SapCountyId ▲

FIELD DOTDistrictID ►

* ALIAS DOTDistrictID

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The NCDOT District ID. Districts make up an NCDOT Division.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field DOTDistrictID ▲

FIELD DOTDivisionID ►

* ALIAS DOTDivisionID

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

NCDOT Division number.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 14

Hide Field DOTDivisionID ▲

FIELD SAP_CNTY_NBR ►

* ALIAS SAP_CNTY_NBR

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The SAP County code. Starts at 1 for Alamance County and 100 for Yancey County. See <https://slph.dph.ncdhhs.gov/doc/NorthCarolinaCountyCodes.pdf>.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 100

Hide Field SAP_CNTY_NBR ▲

FIELD CNTY_NBR ►

* ALIAS CNTY_NBR

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The County Number using the 0-99 range. Starts at 0 for Alamance County and ends at 99 for Yancey County.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 0

MAXIMUM VALUE 99

Hide Field CNTY_NBR ▲

FIELD **DSTRCT_NBR** ▶

- * ALIAS **DSTRCT_NBR**
- * DATA TYPE **SmallInteger**
- * WIDTH **2**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

The NCDOT District ID. Districts make up an NCDOT Division.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

*Hide Field **DSTRCT_NBR** ▲*

FIELD **DIV_NBR** ▶

- * ALIAS **DIV_NBR**
- * DATA TYPE **SmallInteger**
- * WIDTH **2**
- * PRECISION **0**
- * SCALE **0**

FIELD DESCRIPTION

NCDOT Division number.

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE **1**

MAXIMUM VALUE **14**

*Hide Field **DIV_NBR** ▲*

FIELD NAME ►

* ALIAS NAME

* DATA TYPE String

* WIDTH 15

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

County name

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Text.

Hide Field NAME ▲

FIELD SHPNumber ►

* ALIAS SHPNumber

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The values reflect those in the SAP County Number field.

DESCRIPTION SOURCE

NCDOT

Hide Field SHPNumber ▲

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 ▲](#)

FIELD Shape_Area ►

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape_Area ▲](#)

[Hide Details for object BoundaryCountyPolygon ▲](#)

OVERVIEW DESCRIPTION ▶

ENTITY AND ATTRIBUTE OVERVIEW

County boundary polygons

ENTITY AND ATTRIBUTE DETAIL CITATION

North Carolina Geodetic Survey

[Hide Overview Description ▲](#)

[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 2023-01-25

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2023-01-25 12:40:53

LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-01-25 13:04:32

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2023-01-25 13:04:32

[Hide Metadata Details ▲](#)

Metadata Contacts ▶

METADATA CONTACT

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

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

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Hide Metadata Contacts ▲

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

Hide Metadata Maintenance ▲

Metadata Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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Hide Metadata Constraints ▲

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

Hide Thumbnail and Enclosures ▲