# North Carolina County Boundary Arcs, 2021 - 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 lines 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 lines 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 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) 1:500,000

Minimum (zoomed out) 1:20,000,000

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 2024-02-12 00:00:00
Hide Thesaurus

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

THESAURUS TITLE User
PUBLICATION DATE 2024-02-12 00:00:00

Hide Thesaurus 🔺

Hide Topics and Keywords

# Citation

TITLE North Carolina County Boundary Arcs, 2021 - NC Department of Transportation / NC Geodetic Survey

ALTERNATE TITLES BoundaryCountyArc

PUBLICATION DATE 2024-02-12 00:00:00

CREATION DATE 2011-11-30 00:00:00

PRESENTATION FORMATS digital map FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation **A** 

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

DELIVERY POINT 4105 Reedy Creek Rd

**CITY** Raleigh

TYPE physical

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 Century Center – Building B, 1020 Birch Ridge Drive

**CITY** Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

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CONTACT'S ROLE point of contact

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## Hide Contact information **A**

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

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

Hide Resource Details **A** 

# 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 406832.617203
- \* EAST LONGITUDE 3052480.011593
- \* SOUTH LATITUDE 34987.933500
- \* NORTH LATITUDE 1043624.399491
- \* 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 Century Center Building B, 1020 Birch Ridge Drive

**CITY** Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27610

COUNTRY US

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Hide Resource Points of Contact

# **Resource Maintenance** ►

**RESOURCE MAINTENANCE** 

UPDATE FREQUENCY annually

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

Support and maintenance of the 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 Help Desk

CONTACT'S ROLE point of contact

#### CONTACT INFORMATION

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

**CITY** Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

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Hide Contact information **A** 

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

### LIMITATIONS OF USE

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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 0.00328083333333333331

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["Gree nwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMET ER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridi an",-

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 CountyBoundary\_arcs

\* OBJECT TYPE composite

\* OBJECT COUNT 302

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME CountyBoundary\_arcs

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Polyline
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 302
- \* 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 - 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.

CONFORMANCE TEST RESULTS TEST PASSED Yes

**RESULT EXPLANATION** 

pass.

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2024-02-12 00:00:00

PUBLICATION DATE 2024-02-12 00:00:00

Hide Product specification **A** 

Hide Data quality report - Completeness commission 🔺

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 2024-02-12 00:00:00

PUBLICATION DATE 2024-02-12 00:00:00

Hide Product specification **A** 

Hide Data quality report - Conceptual consistency

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY

#### MEASURE DESCRIPTION

Data were collected using various methods of varying accuracy. Majority of data was obtained from NC Department of Transportation that inculded scaled data from USGS quadrangles as well as some ground survey information. North Carolina Geodetic Survey verified and updated any of the lines that have been surveyed and approved by the respective counties.

#### Pass.

PRODUCT SPECIFICATION 
TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2024-02-12 00:00:00

PUBLICATION DATE 2024-02-12 00:00:00

Hide Product specification **A** 

Hide Data quality report - Quantitative attribute accuracy

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY

#### MEASURE DESCRIPTION

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

Hide Data quality report - Quantitative attribute accuracy

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 process for publication

**PROCESS CONTACT** 

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

CONTACT'S POSITION GIS Help Desk

CONTACT INFORMATION

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

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 **A** 

Hide Process step ▲



DESCRIPTION

Data was converted from NCGS to a Feature Class using Python code.

**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 distributor

#### CONTACT INFORMATION

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

Administrative area North Carolina

POSTAL CODE 27610

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 VERSION 10.8.1

ERSION 10.8.1

\* NAME File Geodatabase Feature Class

Hide Distribution **A** 

# Fields **>**

DETAILS FOR OBJECT CountyBoundary\_arcs

\* TYPE Feature Class

\* ROW COUNT 302

**DEFINITION SOURCE** 

NC Geodetic Survey

DEFINITION

Vector line 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 CountyLef ►

- \* ALIAS CountyLef
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

County to the left of the arc segment

DESCRIPTION SOURCE

NCDOT

Hide Field CountyLef

# FIELD CountyRig ►

- \* ALIAS CountyRig
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

County to the right of the arc segement

DESCRIPTION SOURCE

NCDOT

Hide Field CountyRig

# 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 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 Details for object CountyBoundary\_arcs

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 2024-02-05

ARCGIS METADATA PROPERTIES METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2020-08-19 16:05:29 LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-05 20:42:05

AUTOMATIC UPDATES HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-02-05 20:42:05

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

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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Hide Contact information

Hide Metadata Contacts 🔺

# Metadata Maintenance 🕨

#### MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

#### 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

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# Metadata Constraints 🕨

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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