

# North Carolina County Boundary Polygons, 2025 - 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)

## Use limitations

None. Please check sources, scale, accuracy, currentness and other available information. Please confirm that you are using the most recent copy of both data and metadata. Although these data have been processed successfully on a computer system at the NC Geodetic Survey, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data to evaluate data set limitations, restrictions or intended use. The NC Geodetic Survey shall not be held liable for improper or incorrect use of the data described.

## 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

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE North Carolina County Boundary Polygons, 2025 - NC Department of Transportation / NC Geodetic Survey

PUBLICATION DATE 2025-02-17 00:00:00

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

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

PRESENTATION FORMATS digital map

*Hide Citation ▲*

## Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Geodetic Survey

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Geodetic Survey

CONTACT'S POSITION GIS Manager

CONTACT'S ROLE point of contact

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

CONTACT INSTRUCTIONS

More information at <https://ncgs.state.nc.us/>

*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 Esri ArcGIS 10.2.2.3552

CREDITS  
North Carolina Geodetic Survey (NCGS)

[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 406832.617203  
\* 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 Geodetic Survey  
CONTACT'S POSITION GIS Manager  
CONTACT'S ROLE point of contact

### 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

#### CONTACT INSTRUCTIONS

More information at <https://ncgs.state.nc.us/>

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

#### RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

#### OTHER MAINTENANCE REQUIREMENTS

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

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

#### LEGAL CONSTRAINTS

##### LIMITATIONS OF USE

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM FIPS Pub 199

#### ADDITIONAL RESTRICTIONS

Standard Technical Controls

#### 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 0.0032808333333333331  
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 3404  
CODESPACE EPSG  
VERSION 8.2.6

[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 ▲](#)

[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.

[Hide Lineage ▲](#)

## Distribution ►

DISTRIBUTION FORMAT  
\* NAME File Geodatabase Feature Class

TRANSFER OPTIONS  
\* TRANSFER SIZE 0.000

[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

*Hide Field CountyName ▲*

FIELD UpperCountyName ►

- \* ALIAS UpperCountyName
- \* DATA TYPE String
- \* WIDTH 15
- \* PRECISION 0
- \* SCALE 0

*Hide Field UpperCountyName ▲*

FIELD SapCountyId ►

- \* ALIAS SapCountyId
- \* DATA TYPE String
- \* WIDTH 3
- \* PRECISION 0
- \* SCALE 0

*Hide Field SapCountyId ▲*

FIELD DOTDistrictID ►

- \* ALIAS DOTDistrictID
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field DOTDistrictID ▲*

FIELD DOTDivisionID ►

- \* ALIAS DOTDivisionID
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field DOTDivisionID ▲*

FIELD SAP\_CNTY\_NBR ►

- \* ALIAS SAP\_CNTY\_NBR
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field SAP\_CNTY\_NBR ▲*

FIELD CNTY\_NBR ►

- \* ALIAS CNTY\_NBR



- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field CNTY\_NBR ▲*

FIELD DSTRCT\_NBR ►

- \* ALIAS DSTRCT\_NBR
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field DSTRCT\_NBR ▲*

FIELD DIV\_NBR ►

- \* ALIAS DIV\_NBR
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*Hide Field DIV\_NBR ▲*

FIELD NAME ►

- \* ALIAS NAME
- \* DATA TYPE String
- \* WIDTH 15
- \* PRECISION 0
- \* SCALE 0

*Hide Field NAME ▲*

FIELD SHPNumber ►

- \* ALIAS SHPNumber
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

*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 2020-06-11

#### 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 2025-02-13 09:39:04

LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-02-13 09:52:08

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2025-02-13 09:52:08

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA CONTACT

ORGANIZATION'S NAME North Carolina Geodetic Survey

CONTACT'S POSITION GIS Manager

CONTACT'S ROLE point of contact

#### 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

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

#### MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)