

# North Carolina County Boundaries, North Carolina Department of Transportation, Prioritization 7.0, July 2023

## Geodatabase Feature Class



**Tags** County Boundary, North Carolina, State Boundary, Prioritization 7.0 (P7), North Carolina Department of Transportation (NCDOT), Strategic Prioritization Office of Transportation (SPOT), Counties

### Summary

Provides polygon location information for the North Carolina State and County Boundary lines. This feature class allows 100 county polygons to be symbolized.

### Description

The NC State County Boundary GIS data set is to provide location information for the North Carolina State and County Boundary lines with best available information to facilitate at planning, siting, and impact analysis in the 100 counties of NC. Sources for information are NC Division of Transportation, United States Geological Survey and actual field surveys conducted by North Carolina and South Carolina Licensed Surveyors that have been approved and recorded in their respective counties. This file shows some of the boundaries of counties which have a completed boundary survey but the majority of lines have not been surveyed. Also, some boundaries cannot be surveyed in cases where boundaries are coincident with river centers. Most of the current boundaries in this feature class are based on DOT county maps derived from USGS maps; some have been updated by county parcel maps.

For further information about domains and fields used in SPOT see the SPOT P7 Domains document here:

<https://xfer.services.ncdot.gov/gisdot/metadata/spot/NCDOT%20SPOT%20Prioritization%207%20Online%20Domain%20Reference.pdf>

### Credits

North Carolina Geodetic Survey, North Carolina Department of Transportation (NCDOT), Strategic Prioritization Office of Transportation (SPOT)

### Use limitations

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## Extent

**West** -84.422109  
**East** -75.416032  
**North** 36.617254  
**South** 33.730554

## Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## Topics and Keywords

**Themes or categories of the resource** Planning & Cadastral, Boundaries

**Content type** Downloadable Data

**Theme keywords** County Boundary, North Carolina, State Boundary, Prioritization 7.0 (P7), North Carolina Department of Transportation, Strategic Prioritization Office of Transportation (SPOT), Counties

### Thesaurus

**Title** User  
**Publication date** 2023-07-17 00:00:00

**Place keywords** North Carolina

### Thesaurus

**Title** User  
**Publication date** 2023-07-17 00:00:00

## Citation

**Title** North Carolina County Boundaries, North Carolina Department of Transportation, Prioritization 7.0, July 2023  
**Publication date** 2023-07-17 00:00:00

**Presentation formats** digital map

## Citation Contacts

### Responsible party - originator

**Organization's name** North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

### Contact information

#### Phone

**Voice** 919.707.4742

#### Address

**Type** postal

**Delivery point** Century Center Building B, 1020 Birch Ridge Drive

**City** Raleigh

**Administrative area** NC  
**Postal code** 27610  
**Country** US  
**e-mail address** spot@ncdot.gov  
**Hours of service**  
8am-5pm, M-F

### Contact instructions

Phone or email

## Responsible party - resource provider

**Individual's name** North Carolina Department of Transportation  
**Organization's name** Geographic Information Systems Unit  
**Contact's position** GIS Help Desk

### Contact information

#### Phone

**Voice** 919.707.2165

**Fax** 919.707.2210

#### Address

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## Resource Details

**Dataset languages** English (UNITED STATES)

**Dataset character set** utf8 - 8 bit UCS Transfer Format

**Spatial representation type** vector

**Processing environment** Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

### Credits

North Carolina Geodetic Survey, North Carolina Department of Transportation (NCDOT), Strategic Prioritization Office of Transportation (SPOT)

## ArcGIS item properties

**Name** CountyBoundary

**Size** 0.000

**Location** file://\\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Metadata\Spot\BackupSchemaProd20231218\P7\_Data.gdb

**Access protocol** Local Area Network

## Extents

### Extent

#### Geographic extent

##### Bounding rectangle

**West longitude** -84.422111

**East longitude** -75.416034

**South latitude** 33.730557

**North latitude** 36.617257

**Extent contains the resource** Yes

#### Temporal extent

**Date and time** 2019-09-01 00:00:00

### 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

**westBL** 406832.628358

**eastBL** 3052480.022092

**southBL** 34987.950232

**northBL** 1043624.415895

**exTypeCode** Yes

## Resource Points of Contact

### Point of contact - point of contact

**Organization's name** North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

#### Contact information

##### Phone

**Voice** 919.707.4742

##### Address

**Type** postal

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**e-mail address** spot@ncdot.gov  
**Hours of service**  
8am-5pm, M-F

### Contact instructions

Phone or email

## Resource Maintenance

### Resource maintenance

**Update frequency** annually

**Scope of the updates** dataset

### Maintenance contact - point of contact

**Organization's name** North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

### Contact information

#### Phone

**Voice** 919.707.4742

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**Type** postal

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**Administrative area** NC

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**e-mail address** spot@ncdot.gov

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### Contact instructions

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## Resource Constraints

### Constraints

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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** 3048.0060960121918

**ZOrigin** 0

**ZScale** 1  
**MOrigin** 0  
**MScale** 1  
**XYTolerance** 0.0032808333333333331  
**ZTolerance** 0.001  
**MTolerance** 0.001  
**HighPrecision** true  
**LatestWKID** 2264

#### 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",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]
```

### Reference system identifier

**Value** 0  
**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** CountyBoundary  
**Object type** composite  
**Object count** 100

### ArcGIS Feature Class Properties

**Feature class name** CountyBoundary  
**Feature type** Simple  
**Geometry type** Polygon  
**Has topology** FALSE  
**Feature count** 100  
**Spatial index** TRUE  
**Linear referencing** FALSE

## Data Quality

### Scope of quality information

**Resource level** dataset

### Data quality report - Conceptual consistency

#### Conformance test results

**Test passed** Yes

## Result explanation

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. Quality checks were performed by the Strategic Prioritization Office of Transportation (SPOT) and the North Carolina Department of Transportation Geographic Information Systems Unit and errors were accepted as within business range or identified as exceptions.

## Product specification

**Title** NCDOT Geospatial Data Specifications

**Publication date** 2023-07-17 00:00:00

## Lineage

### Lineage statement

Original map provided by North Carolina Division of Transportation. The data were further manipulated by the North Carolina Department of Transportation Geographic Information Systems Unit and/or the North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT) to produce the required data for Prioritization 7.0.

## Process step

### Description

Metadata is updated to publication

## Process contact - processor

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

## Contact information

### Phone

**Voice** 919.707.2165

**Fax** 919.707.2210

### Address

**Type** postal

**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

8am-5pm, M-F

## Contact instructions

Phone or email

## Process step

### Description

Using the AutoCAD map file that had the most up to date linework a Topology was created that easily exports

into a polygon shapefile.

### Rationale

County survey data was drawn as lines in AutoCAD and they needed to be converted into polygons.

### Process contact - processor

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

#### Contact information

##### Phone

**Voice** 919.707.2165

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### Process step

**When the process occurred** 2023-07-17 00:00:00

#### Description

Added object data to county polygons.

### Rationale

County polygons needed to have attribute data.

### Process contact - processor

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

#### Contact information

##### Phone

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**Hours of service**  
8am-5pm, M-F

**Contact instructions**  
Phone or email

## Source data

### Description

North Carolina Division of Transportation

## Distribution

### Distributor

#### Contact information - distributor

**Organization's name** North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

#### Contact information

##### Phone

**Voice** 919.707.4742

##### Address

**Type** postal

**Delivery point** Century Center Building B, 1020 Birch Ridge Drive

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**Country** US

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##### Hours of service

8am-5pm, M-F

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Phone or email

## Distribution format

**Version** ArcGIS 10.3

**Name** File Geodatabase Feature Class

## Transfer options

**Transfer size** 9.911

## Online source

Online location (URL) <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

## Fields

### Details for object CountyBoundary

**Type** Feature Class

**Row count** 100

**Definition source**

NCDOT

### Definition

County Boundary Lines

### Field OBJECTID

**Alias** OBJECTID\_12

**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 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.

### Field DOT\_COUNTY

**Alias** DOT\_COUNTY  
**Data type** SmallInteger  
**Width** 2  
**Precision** 0  
**Scale** 0

### Field description

The naming convention used by NCDOT. Assigns a unique numeric code for each county.

### Description source

NCDOT

### Description of values

No domain

## Field COUNTY\_100

**Alias** COUNTY\_100  
**Data type** SmallInteger  
**Width** 2  
**Precision** 0  
**Scale** 0

### Field description

Unique numeric ID from 1-100

### Description source

NCDOT

### Description of values

No Domain

## Field NAME

**Alias** NAME  
**Data type** String  
**Width** 15  
**Precision** 0  
**Scale** 0

### Field description

County name

### Description source

NCDOT

### Description of values

No Domain

## 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.

## 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.

## Overview Description

### Entity and Attribute Overview

County boundary polygons

### Entity and Attribute Detail Citation

North Carolina Geodetic Survey

## 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** 2024-02-26

## ArcGIS metadata properties

**Metadata format** ArcGIS 1.0

**Standard or profile used to edit metadata** ISO19139

**Created in ArcGIS for the item** 2023-12-06 09:04:38

**Last modified in ArcGIS for the item** 2024-02-26 16:27:46

## Automatic updates

**Have been performed** Yes

**Last update** 2024-02-26 16:27:46

## Item location history

**Item copied or moved** 2014-03-06 10:19:01

**To** \\ncemjfhqfs01\Geodetic Survey\OFFICIAL BASE Map State-County\Published Maps\2013-11-21\NC\_State\_County\_Boundary\_NAD83-86

**From** Y:\OFFICIAL BASE Map State-County\Published Maps\2013-11-21\test  
harn\NC\_State\_County\_Boundary\_NAD83-86

## Metadata Contacts

### Metadata contact - originator

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

### Contact information

#### Phone

**Voice** 919.707.2165

**Fax** 919.707.2210

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#### Contact instructions

Phone or email

## Metadata Maintenance

### Maintenance

**Update frequency** annually

**Scope of the updates** dataset

## Maintenance contact - point of contact

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

### Contact information

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## Metadata Constraints

### Constraints

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**Classification** unclassified

**Classification system** none

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## Thumbnail and Enclosures

### Thumbnail

**Thumbnail type**

Image file