

# North Carolina Smoothed Urban Boundaries - 2024 (Revised)- NC Department of Transportation

File Geodatabase Feature Class



## Tags

Urbanized Area, Urban Cluster, Boundaries, Roads, Major Roads, State Maintained Roads, Interstate, Highways, Streets, Centerline, Smooth Boundary, Functional Class, Urban, Rural, County, North Carolina, Division

## Summary

Polygon layer representing urban areas and clusters in North Carolina. The boundaries were originally generated by the US Census Bureau and have been adjusted (smoothed) by the North Carolina Department of Transportation, in cooperation with North Carolina's Metropolitan Planning Organizations.

## Description

The boundaries were originally generated by the US Census Bureau and have been adjusted (smoothed) by the North Carolina Department of Transportation, in cooperation with North Carolina's Metropolitan Planning Organizations. Data was republished in February 2024 as part of the GIS Unit 1st Quarter Publication. This is the first year the boundaries are based on the 2020 Census Bureau boundaries. Population estimates are based on 2020 Census data. Further adjustments will be made throughout 2024.

## Credits

Transportation Planning Division, NCDOT. 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.

## Extent

**West** -83.524014    **East** -75.533645

**North** 36.574755    **South** 33.448299

## 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, transportation, location, society

\* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-04-15 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS Polygon, Urbanized Area, Urban Cluster, Boundaries, Smooth Boundary, Urban, Rural

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-04-15 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE North Carolina Smoothed Urban Boundaries - 2024 (Revised)- NC Department of Transportation

ALTERNATE TITLES Urban Boundaries

PUBLICATION DATE 2024-04-15 00:00:00

CREATION DATE 2024-01-02 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 Department of Transportation, Transportation Planning Division

CONTACT'S POSITION TPD Data Manager

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-0900

ADDRESS

TYPE physical

DELIVERY POINT 1 South Wilmington Street

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27601

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 NC Planning Geodatabase. 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

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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

Transportation Planning Division, NCDOT. 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 BoundarySmoothUrban

\* SIZE 3.362

[Hide Resource Details ▲](#)

## Extents ►

#### EXTENT

##### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

WEST LONGITUDE -83.524014

EAST LONGITUDE -75.533645

SOUTH LATITUDE 33.448299

NORTH LATITUDE 36.574755

EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT

##### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -83.524014

\* EAST LONGITUDE -75.533645

\* NORTH LATITUDE 36.574755

\* SOUTH LATITUDE 33.448299

\* EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 670414.212742

- \* EAST LONGITUDE 3018453.431025
- \* SOUTH LATITUDE -80626.002267
- \* NORTH LATITUDE 1028149.584968
- \* 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

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POSTAL CODE 27610

COUNTRY US

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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

Transportation Planning Division, NCDOT. 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

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 Resource Maintenance ▲*

## Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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from which this data was compiled must be consulted for verification of information contained in this data.

#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

#### 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 0

Z SCALE 1

M ORIGIN 0

M SCALE 1

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 BoundarySmoothUrban

\* OBJECT TYPE composite

\* OBJECT COUNT 70

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BoundarySmoothUrban

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 70

\* 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

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**

CREATION DATE **2024-01-02 00:00:00**

PUBLICATION DATE **2024-04-15 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness commission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

MEASURE DESCRIPTION

This dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION 

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2024-01-02 00:00:00

PUBLICATION DATE 2024-04-15 00:00:00

*Hide Product specification ▲*

*Hide Data quality report - Conceptual consistency ▲*

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY 

MEASURE DESCRIPTION

The source data was checked using standard review procedures. Attributes were checked by using visual inspection as well as automated verification routines. Geometry checks were conducted using Esri's Data Reviewer tool.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION 

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2024-01-02 00:00:00

PUBLICATION DATE 2024-04-15 00:00:00

*Hide Product specification ▲*

*Hide Data quality report - Quantitative attribute accuracy ▲*

[Hide Data Quality ▲](#)

## Lineage ►

### LINEAGE STATEMENT

This dataset was originally created by the North Carolina Department of Transportation to provide a geographic representation of the urban areas and clusters in North Carolina. The data were then used by the NC Department of Transportation GIS Unit for further data processing

### PROCESS STEP ►

#### DESCRIPTION

Polygon layer representing the smoothed boundaries for the Census urban areas in North Carolina. The boundaries were originally generated by the US Census Bureau and have been adjusted (smoothed) by the North Carolina Department of Transportation, in cooperation with North Carolina's Metropolitan Planning Organizations.

### PROCESS CONTACT

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

**CONTACT'S POSITION** GIS Data and Services Consultant

**CONTACT'S ROLE** processor

### 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 ▲](#)

[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

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COUNTRY US

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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 [BoundarySmoothUrban ►](#)

\* TYPE Feature Class

\* ROW COUNT 70

DEFINITION

Urbanized Area or Urban Cluster

DEFINITION SOURCE

U.S. Census Bureau

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 POP\_EST\_YR ►

\* ALIAS POP\_EST\_YR

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Year of US Census population estimate for the area.

DESCRIPTION SOURCE

U.S. Census Bureau

DESCRIPTION OF VALUES

Values vary.

*Hide Field POP\_EST\_YR ▲*

FIELD POP\_EST ►

\* ALIAS POP\_EST

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

US Census population estimate for the area.

DESCRIPTION SOURCE

U.S. Census Bureau

DESCRIPTION OF VALUES

Values vary.

*Hide Field POP\_EST ▲*

FIELD SHAPE\_Leng ▶

\* ALIAS SHAPE\_Leng

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Length of polygon outline in feet.

DESCRIPTION SOURCE

Esri.

DESCRIPTION OF VALUES

Text.

*Hide Field SHAPE\_Leng ▲*

FIELD TYPE ▶

\* ALIAS TYPE

\* DATA TYPE String

\* WIDTH 15

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Urban boundary type.

DESCRIPTION SOURCE

U.S. Census Bureau

LIST OF VALUES

VALUE Urbanized Area

DESCRIPTION The polygon represents an urban area, the region surrounding the city.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUE Urban Cluster



**DESCRIPTION** The polygon represents an urban cluster. Areas defined based on the same criteria as urbanized areas, but represent areas containing at least 2,500 and less than 50,000 people.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** U.S. Census Bureau

*Hide Field TYPE ▲*

**FIELD FHWA\_5\_Dig ►**

\* **ALIAS** FHWA\_5\_Dig

\* **DATA TYPE** Integer

\* **WIDTH** 4

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

Federal Highway Administration five-digit ID.

**DESCRIPTION SOURCE**

FHWA

**DESCRIPTION OF VALUES**

Values vary.

*Hide Field FHWA\_5\_Dig ▲*

**FIELD NAME ►**

\* **ALIAS** NAME

\* **DATA TYPE** String

\* **WIDTH** 50

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

Urban area or cluster name.

**DESCRIPTION SOURCE**

U.S. Census Bureau

DESCRIPTION OF VALUES

Values vary.

*Hide Field NAME ▲*

FIELD FHWA\_5\_Txt ►

\* ALIAS FHWA\_5\_Txt

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Federal Highway Administration five-digit ID (text field).

DESCRIPTION SOURCE

FHWA

DESCRIPTION OF VALUES

Values vary.

*Hide Field FHWA\_5\_Txt ▲*

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 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 BoundarySmoothUrban ▲](#)

[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 2024-04-09

### 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 2024-01-09 13:08:41

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-04-09 11:25:56

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-04-09 11:25:56

[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

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*Hide Metadata Contacts ▲*

## Metadata Maintenance ►

#### MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

#### MAINTENANCE CONTACT

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CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ►

#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

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