

# SmoothedUrbanBoundary - 2017 - NC Department of Transportation

SDE Feature Class



## Tags

County, Boundaries, DOT Division, County, North Carolina, Division, Boundary

## Summary

2010 Census based smoothed Urbanized Areas and Urban Clusters polygons. This dataset is current as of July 2017 and corresponds to the 2010 Census boundary data release by the United States Census Bureau.

## Description

Polygon layer representing the smoothed boundaries for the 2010 Census urbanized areas in North Carolina. The boundaries were originally generated by the US Census Bureau and have been adjusted (smoothed) by the Transportation Planning Division of the North Carolina Department of Transportation. Roads within the Smooth Boundary are considered Urban; roads outside are considered rural.

Note: 2016 population estimate in the portion of Myrtle Beach that is within North Carolina is 27,301.

## Credits

Transportation Planning Branch, NCDOT

## 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 or positional accuracy of the data. This data cannot be constructed for use as a legal document. Primary sources from which this data was compiled must be consulted for verification of the information contained therein.

## Extent

**West** -83.524014    **East** -75.533645  
**North** 36.574755    **South** 33.448299

## Scale Range

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

[ArcGIS Metadata](#) ►

## Topics and Keywords

 ►

THEMES OR CATEGORIES OF THE RESOURCE    transportation, boundaries

\* CONTENT TYPE    Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION    No

THEME KEYWORDS County, North Carolina, Division

THESAURUS ▶

TITLE User

PUBLICATION DATE 2019-02-11 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Urbanized Area, Urban Cluster, Boundaries, Roads, Major Roads, State Maintained Roads, Interstate, Highways, Streets, Centerline, Smooth Boundary, Functional Class, Urban, Rural

THESAURUS ▶

TITLE User

PUBLICATION DATE 2019-02-11 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

## Citation ▶

TITLE SmoothedUrbanBoundary - 2017 - NC Department of Transportation

CREATION DATE 2014-06-24 21:00:00

PUBLICATION DATE 2019-02-11 00:00:00

PRESENTATION FORMATS \* digital map

[Hide Citation ▲](#)

## Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME NCDOT Transportation Planning Division

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-0959

ADDRESS

TYPE postal

DELIVERY POINT 1554 Mail Service Center

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27699

HOURS OF SERVICE

M-F 9am to 5pm

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ▶

DATASET LANGUAGES \* English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE \* vector

## SUPPLEMENTAL INFORMATION

This layer should be submitted to FHWA as part of the HPMS reporting process each year if there have been changes to the boundary since the previous year.

Roads within a polygon feature are considered urban. This layer should not be confused with municipal boundaries or MPO boundaries. Although they are similar and identical in some cases, the Smoothed Urban Boundary layer is officially changed by the Census every 10 years. The Municipal Boundaries layer is updated annually. There may be cases when a road is within a large city's limits, but still be considered rural because it is outside of the Smoothed Urban Boundary.

This layer is used by the Spatially Derived component of the ARID Maintenance Process. Any changes to this layer needs to be communicated to the owner of the program.

\* **PROCESSING ENVIRONMENT** Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.5.1.7333

### CREDITS

Transportation Planning Division, NCDOT

### ARCGIS ITEM PROPERTIES

\* **NAME** BoundarySmoothUrban

\* **SIZE** 3.362

[Hide Resource Details ▲](#)

## Extents ►

### 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** NCDOT Transportation Planning Division

**CONTACT'S ROLE** point of contact

### CONTACT INFORMATION ►

#### PHONE

**VOICE** 919-707-0959

#### ADDRESS

**TYPE** postal

**DELIVERY POINT** 1554 Mail Service Center

**CITY** Raleigh

ADMINISTRATIVE AREA NC  
POSTAL CODE 27699

HOURS OF SERVICE  
M-F 9am to 5pm

[Hide Contact information ▲](#)

#### POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit  
CONTACT'S POSITION GIS Help Desk  
CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

PHONE  
VOICE 919.707.2165  
FAX 919.707.2210

#### ADDRESS

TYPE  
DELIVERY POINT 4101 Capital Boulevard  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27604  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE  
8 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

### Resource Maintenance ►

RESOURCE MAINTENANCE  
UPDATE FREQUENCY as needed  
[Hide Resource Maintenance ▲](#)

### Resource Constraints ►

CONSTRAINTS  
LIMITATIONS OF USE

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 or positional accuracy of the data. This data cannot be constructed for use as a legal document. Primary sources from which this data was compiled must be consulted for verification of the information contained therein.

LEGAL CONSTRAINTS  
LIMITATIONS OF USE

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## 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 - 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 ▲](#)

#### DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

##### MEASURE DESCRIPTION

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

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

#### DATA QUALITY REPORT - COMPLETENESS OMISSION ►

##### EVALUATION METHOD

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

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

#### DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION horizontal

##### MEASURE DESCRIPTION

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

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

## DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION vertical

### MEASURE DESCRIPTION

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

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

[Hide Data Quality ▲](#)

## Lineage ►

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2007-08-01 00:00:00

#### DESCRIPTION

Smooth boundary lines were translated into coverage format and built as polygons. Labels were generated and polygons were checked for errors.

### PROCESS CONTACT

ORGANIZATION'S NAME NCDOT Transportation Planning Division

CONTACT'S POSITION

CONTACT'S ROLE point of contact

### CONTACT INFORMATION ►

#### PHONE

VOICE 919-707-0959

#### ADDRESS

##### TYPE

DELIVERY POINT 1554 Mail Service Center

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27699

COUNTRY US

E-MAIL ADDRESS [rgishelp@ncdot.gov](mailto:rgishelp@ncdot.gov)

#### HOURS OF SERVICE

9 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2008-03-03 00:00:00

#### DESCRIPTION

Metadata imported and revised.

### PROCESS CONTACT

ORGANIZATION'S NAME NCDOT Transportation Planning Division

CONTACT'S POSITION

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-0959

ADDRESS

TYPE

DELIVERY POINT 1554 Mail Service Center

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27699

COUNTRY US

E-MAIL ADDRESS [rgishelp@ncdot.gov](mailto:rgishelp@ncdot.gov)

HOURS OF SERVICE

9 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2008-03-03 00:00:00

DESCRIPTION

The coverage format was converted to a shapefile for customer distribution

PROCESS CONTACT

ORGANIZATION'S NAME NCDOT Transportation Planning Division

CONTACT'S POSITION

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-0959

ADDRESS

TYPE

DELIVERY POINT 1554 Mail Service Center

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27699

COUNTRY US

E-MAIL ADDRESS [rgishelp@ncdot.gov](mailto:rgishelp@ncdot.gov)

HOURS OF SERVICE

9 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Process step ▲](#)



PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2010-12-01 00:00:00

DESCRIPTION

Boundaries were adjusted by the Transportation Planning Division so that federal-aid roads were not weaving in and out of the boundary. Edits were reviewed by the NCDOT Management Systems and Assessment Unit.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Management Systems and Assessment Unit

CONTACT'S POSITION Faith Johnson

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 919-835-8451

ADDRESS

TYPE

DELIVERY POINT 4809 Beryl Rd

CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27606

COUNTRY US

E-MAIL ADDRESS [fbstuart@ncdot.gov](mailto:fbstuart@ncdot.gov)

HOURS OF SERVICE

8 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2019-02-11 00:00:00

DESCRIPTION

process metadata for publication

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.2165

FAX 919.707.2210

ADDRESS

TYPE

DELIVERY POINT 4101 Capital Boulevard

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

8 am to 5 pm, M-F

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

## Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

VOICE 919.707.2165

FAX 919.707.2210

ADDRESS

TYPE

DELIVERY POINT 4101 Capital Boulevard

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

8 am to 5 pm, M-F

[Hide Contact information ▲](#)

AVAILABLE FORMAT

NAME Shape File

VERSION 10.5.1

TRANSFER OPTIONS

ONLINE SOURCE

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

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

\* NAME Shape File

VERSION 10.5.1

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT **BoundarySmoothUrban** ▶

\* TYPE **Feature Class**

ROW COUNT **70**

DEFINITION

**Urbanized Area or Urban Cluster**

DEFINITION SOURCE

**Census**

FIELD **OBJECTID** ▶

\* ALIAS **OBJECTID**

\* DATA TYPE **OID**

\* WIDTH **4**

\* PRECISION **10**

\* 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 **4**

\* PRECISION **0**

\* SCALE **0**

\* FIELD DESCRIPTION

**Feature geometry.**

\* DESCRIPTION SOURCE

**Esri**

\* DESCRIPTION OF VALUES

**Coordinates defining the features.**

*Hide Field Shape* ▲

FIELD **TYPE** ▶

\* ALIAS **TYPE**

\* DATA TYPE **String**

\* WIDTH **15**

\* PRECISION **0**

\* SCALE **0**

*Hide Field TYPE* ▲

FIELD **NAME** ▶

\* ALIAS **NAME**

- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field NAME ▲*

FIELD POP\_EST ►

- \* ALIAS POP\_EST
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0

*Hide Field POP\_EST ▲*

FIELD POP\_EST\_YR ►

- \* ALIAS POP\_EST\_YR
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0

*Hide Field POP\_EST\_YR ▲*

FIELD FHWA\_5\_Dig ►

- \* ALIAS FHWA\_5\_Dig
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0

*Hide Field FHWA\_5\_Dig ▲*

FIELD SHAPE\_Leng ►

- \* ALIAS SHAPE\_Leng
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 38
- \* SCALE 8

*Hide Field SHAPE\_Leng ▲*

FIELD Shape.STArea() ►

- \* ALIAS Shape.STArea()
- \* DATA TYPE Double
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0

[Hide Field Shape.STArea\(\) ▲](#)

FIELD Shape.STLength() ►

- \* ALIAS Shape.STLength()
- \* DATA TYPE Double
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0

[Hide Field Shape.STLength\(\) ▲](#)

[Hide Details for object BoundarySmoothUrban ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

- \* METADATA LANGUAGE English (UNITED STATES)
- \* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format
- METADATA IDENTIFIER AD7A344E-767B-4173-A591-576EEDB25E3D
- SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset
- SCOPE NAME \* dataset
- \* LAST UPDATE 2019-01-14
- 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 2019-01-08 14:52:18
  - LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-01-14 12:54:02
- AUTOMATIC UPDATES
  - HAVE BEEN PERFORMED Yes
  - LAST UPDATE 2019-01-10 16:41:20

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

- METADATA CONTACT
  - ORGANIZATION'S NAME NCDOT Transportation Planning Branch
  - CONTACT'S ROLE originator

CONTACT INFORMATION ►

- PHONE
  - VOICE 919-707-0959

ADDRESS

- TYPE postal
- DELIVERY POINT 1554 Mail Service Center
- CITY Raleigh
- ADMINISTRATIVE AREA NC
- POSTAL CODE 27699

HOURS OF SERVICE

- M-F 9am to 5pm

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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[Hide Metadata Constraints ▲](#)

## Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)