North Carolina Smoothed Urban Boundaries - 2025 - NC Department of Transportation

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 has been republished in February, 2025 as part of the GIS Unit 2024 End of Year Quarter Publication to include updated 2023 population estimates.

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 -83.521805 East -75.533761
North 36.572079 South 33.438236

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

PLACE KEYWORDS North Carolina

```
THESAURUS

TITLE User

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

Hide Thesaurus
```

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

```
THESAURUS ►
TITLE User
PUBLICATION DATE 2025-02-17 00:00:00

Hide Thesaurus ▲
```

Hide Topics and Keywords ▲

Citation ▶

```
TITLE North Carolina Smoothed Urban Boundaries - 2025 - NC Department of Transportation ALTERNATE TITLES Urban Boundaries
PUBLICATION DATE 2025-02-17 00:00:00
CREATION DATE 2024-12-18 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

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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 10.5.1.7333

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.

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 -83.521805
- * EAST LONGITUDE -75.533761
- * NORTH LATITUDE 36.572079
- * SOUTH LATITUDE 33.438236
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 671019.978591
- * EAST LONGITUDE 3018453.431025
- * SOUTH LATITUDE -84319.281625
- * NORTH LATITUDE 1027175.165329
- * 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

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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 Resource Maintenance

Resource Constraints >

LEGAL CONSTRAINTS LIMITATIONS OF USE

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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.

SECURITY CONSTRAINTS

CLASSIFICATION unclassified CLASSIFICATION SYSTEM None

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CONSTRAINTS

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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 0.003280833333333333333

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".-

REFERENCE SYSTEM IDENTIFIER

VALUE 2264
CODESPACE EPSG
VERSION 6.12(9.0.0)

Spatial Data Properties ▶

VECTOR * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only **G**EOMETRIC OBJECTS FEATURE CLASS NAME BoundarySmoothUrban * OBJECT TYPE composite * OBJECT COUNT 86 Hide Vector ▲ ARCGIS FEATURE CLASS PROPERTIES FEATURE CLASS NAME BoundarySmoothUrban * FEATURE TYPE Simple * GEOMETRY TYPE Polygon * HAS TOPOLOGY FALSE * FEATURE COUNT 86 * SPATIAL INDEX TRUE * LINEAR REFERENCING FALSE Hide ArcGIS Feature Class Properties ▲ Hide Spatial Data Properties A **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 2023-12-11 00:00:00 PUBLICATION DATE 2024-02-12 00:00:00

Hide Product specification ▲

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 2023-12-11 00:00:00 PUBLICATION DATE 2024-02-12 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 2023-12-11 00:00:00
PUBLICATION DATE 2024-02-12 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality A

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

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CITY Raleigh

ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27610 COUNTRY US E-MAIL ADDRESS gishelp@ncdot.gov

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Hide Contact information ▲

Hide Distributor

DISTRIBUTION FORMAT NAME Feature Class **VERSION** 10.8.1

TRANSFER OPTIONS

* TRANSFER SIZE 3.362

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.

```
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
ESTI.

DESCRIPTION OF VALUES
```

Text.

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

Esri

* FIELD DESCRIPTION

* DESCRIPTION SOURCE

Length of feature in internal units.

* 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 ▲

FIELD FHWA UA >

- * ALIAS FHWA_UA
- * DATA TYPE String
- * WIDTH 11
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

FHWA defined Urban Area.

Hide Field FHWA_UA ▲

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 2025-02-13

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 2025-01-31 13:43:23 LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-02-13 10:06:17

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2025-02-13 10:06:17

Hide Metadata Details A

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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ADMINISTRATIVE AREA North Carolina

POSTAL CODE 27610

COUNTRY US

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Hide Contact information ▲

Hide Metadata Contacts A

Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

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Hide Metadata Maintenance ▲

Metadata Constraints ▶

SECURITY CONSTRAINTS
CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

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