North Carolina Smoothed Urban Boundaries - 2018 - 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 was republished in November 2021 as part of the GIS Unit 4th Quarter Publication to include updated population estimates for 2020.

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   2023-02-13   00:00:00

Hide Thesaurus ▲

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

THESAURUS   ▶
TITLE   User
PUBLICATION DATE   2023-02-13   00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE   North Carolina Smoothed Urban Boundaries - 2018 - NC Department of Transportation
ALTERNATE TITLES   Urban Boundaries
PUBLICATION DATE   2023-02-13   00:00:00
CREATION DATE   2021-11-01   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   4101 Capital Blvd.
     CITY   Raleigh
     ADMINISTRATIVE AREA   North Carolina
     POSTAL CODE   27604
     COUNTRY   US
     E-MAIL ADDRESS   gishelp@ncdot.gov

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  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   ▶
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     DELIVERY POINT   4101 Capital Blvd.
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     COUNTRY   US
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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   -83.524014
      * 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   4101 Capital Blvd.
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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

CONTACT INFORMATION   ▶
ADDRESS
TYPE   physical
DELIVERY POINT   4101 Capital Blvd.
CITY   Raleigh
ADMINISTRATIVE AREA   North Carolina
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Hide Contact information ▲

Hide Resource Maintenance ▲

Resource Constraints ▶

LEGAL CONSTRAINTS
LIMITATIONS OF USE
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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

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 SmoothUrbanBoundary
* **OBJECT TYPE** composite
* **OBJECT COUNT** 70

Hide Vector ▲

ArcGIS Feature Class Properties ▶
FEATURE CLASS NAME SmoothUrbanBoundary
* **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 2022-02-14 00:00:00
PUBLICATION DATE 2022-02-14 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   2022-02-14   00:00:00
PUBLICATION DATE   2022-02-14   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   2022-02-14   00:00:00
PUBLICATION DATE   2022-02-14   00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

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   4101 Capital Blvd.
CITY   Raleigh
ADMINISTRATIVE AREA   North Carolina
POSTAL CODE   27604
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   4101 Capital Blvd.
CITY   Raleigh
ADMINISTRATIVE AREA   North Carolina

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 SmoothUrbanBoundary ▶
  * 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 SmoothUrbanBoundary ▲

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   2023-01-05

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   2023-01-05   19:32:51
  Last modified in ArcGIS for the item   2023-01-05   20:48:23

  Automatic updates
    Have been performed   Yes
    Last update   2023-01-05   20:48:23

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
DELIVERY POINT   4101 Capital Blvd.
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Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY   as needed

SCOPE OF THE UPDATES   dataset

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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Metadata Constraints ▶

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

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Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE   JPG