

North Carolina Municipal Boundaries, Fiscal year 2024 - 2025 - NC Department of Transportation Geodatabase Feature Class



Tags Powell Bill, Boundaries, Boundary, Incorporated, Towns, Cities, Municipal

Summary

This data was created to assist governmental agencies and others in making resource management decisions through the use of a Geospatial Information System (GIS). Municipal boundaries are recognized as base cartographic layers used for location analysis. This data is current for the fiscal year 2024 - 2025. Municipal boundaries updated this year were based on towns that reported annexation changes to the NC Office of Secretary of State. This may not be representative of all towns with boundary changes this year.

Description

These Municipal Boundaries datasets are based on the Powell Bill Program maps for the 2024-2025 fiscal year. Municipalities in North Carolina participating in the Powell Bill Program are required to submit to NCDOT on a regular basis. These datasets include incorporated municipalities in North Carolina that participate in the Powell Bill Program, and boundaries of municipalities which do not participate in the Powell Bill Program. Sources for the boundaries vary in scale and format as provided by the individual Municipalities.

Credits

The Spatial Data Operations Group of the North Carolina Department of Information Technology-Transportation, GIS Unit serves as the data steward of this spatial polygon data, on behalf of the Powell Bill, Office of the North Carolina Department of Transportation.

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 -84.131259
East -75.534219
North 36.562719
South 33.741705

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Boundaries, Location, Society

Content type Downloadable Data

Theme keywords Polygon, Powell Bill, Boundaries, Boundary, Incorporated, Towns, Cities, Municipal

Thesaurus

Title User

Publication date 2026-02-23 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Publication date 2026-02-23 00:00:00

Citation

Title North Carolina Municipal Boundaries, Fiscal year 2024 - 2025 - NC Department of Transportation

Alternate titles Municipal Boundaries

Publication date 2026-02-23 00:00:00

Edition date 2024-02-12

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - originator

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

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.

Responsible party - resource provider

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

Contact information

Address

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Responsible party - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

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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

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ArcGIS item properties

Name BoundaryMunicipal

Location file://\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Maintenance\QuarterlyDataRefresh\Boundary\2025Q4\FinalFGDB\BoundaryPublicationData.gdb

Access protocol Local Area Network

Extents

Extent

Geographic extent

Bounding rectangle

West longitude -84.130377

East longitude -75.534219

South latitude 33.74174

North latitude 36.562719

Extent contains the resource Yes

Extent

Geographic extent

Bounding rectangle

West longitude -84.130377

East longitude -75.534219

South latitude 33.74174

North latitude 36.562719

Extent contains the resource Yes

Extent

Geographic extent

Bounding rectangle

Extent type

Extent used for searching

West longitude -84.131259
East longitude -75.534219
North latitude 36.562719
South latitude 33.741705
Extent contains the resource Yes

Extent in the item's coordinate system

westBL 491421.770704
eastBL 3018437.650048
southBL 34700.650528
northBL 1023766.729936
exTypeCode Yes

Resource Points of Contact

Point of contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Help Desk

Contact information

Address

Type physical
Delivery point Century Center Building B, 1020 Birch Ridge Drive
City Raleigh
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Resource Maintenance

Resource maintenance

Update frequency annually

Scope of the updates dataset

Other maintenance requirements

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Maintenance contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

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

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Resource Constraints

Legal constraints

Limitations of use

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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 1893.9393939393938

ZOrigin -100000

ZScale 3048.0060960121918

MOrigin -100000

MScale 10000

XYTolerance 0.00528

ZTolerance 0.0032808333333333331

MTolerance 0.001

HighPrecision true

LatestWKID 2264

VCSWKID 105703

LatestVCSWKID 6360

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]],VERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]
```

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

Geometric objects

Feature class name BoundaryMunicipal

Object type composite

Object count 550

ArcGIS Feature Class Properties

Feature class name BoundaryMunicipal

Feature type Simple

Geometry type Polygon

Has topology FALSE

Feature count 550

Spatial index TRUE

Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness commission

Data quality measure reference

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 2024-02-12 00:00:00

Publication date 2024-02-12 00:00:00

Data quality report - Conceptual consistency

Data quality measure reference

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 2024-02-12 00:00:00

Publication date 2024-02-12 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

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 2024-02-12 00:00:00

Publication date 2024-02-12 00:00:00

Lineage

Lineage statement

This dataset was originally created by the North Carolina Department of Information Technology-Transportation, GIS Unit to provide a geographic representation of the Municipal Boundaries in North Carolina.

Process step

Description

Prep data for web site.

Process contact - processor

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

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.

Process step

Description

Data updates are processed by the Spatial Data Operations Group in an enterprise editing system,

Process contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

Contact information

Address

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Delivery point Century Center Building B, 1020 Birch Ridge Drive

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Contact instructions

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

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

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Transfer options

Online source

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

Distribution format

Version 10.8.1

Name File Geodatabase Feature Class

Fields

Details for object BoundaryMunicipal

Type Feature Class

Row count 550

Definition

Multi-part polygons

Definition source

ESRI

Field PercentGrowth

Alias PctGrowth

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Percent population difference from the 2020 Census Population to the Population field value.

Description source

U.S. Census Bureau

Description of values

Values vary.

Field CensusType

Alias CensusType

Data type String

Width 8
Precision 0
Scale 0

Field description

Incorporated place type as defined by the U.S. Census Bureau.

Description source

U.S. Census Bureau

List of values

Value City

Description A large or important town.

Enumerated domain value definition source U.S. Census Bureau

Value Town

Description A populated area with fixed boundaries and local government.

Enumerated domain value definition source U.S. Census Bureau

Value Village

Description A small community in a rural area.

Enumerated domain value definition source U.S. Census Bureau

Field FromDate

Alias FromDate

Data type Date

Width 8

Precision 0

Scale 0

Field description

The date the data becomes active.

Description source

NCDOT

Description of values

Dates will vary.

Field PowellBillParticipate

Alias PBParticipate

Data type String

Width 2

Precision 0

Scale 0

Field description

Municipality participates in the Powell Bill.
See <https://www.ncpedia.org/powell-bill>.

Description source

NCDOT

List of values

Value Yes

Description Municipality participates in the Powell Bill.

Enumerated domain value definition source NCDOT

Value No

Description Municipality does not participate in the Powell Bill.

Enumerated domain value definition source NCDOT

Field IncorporatedDate

Alias IncprtdDate

Data type Date

Width 8

Precision 0

Scale 0

Field description

Specific mm/dd/yyyy municipal incorporation date, if available.

Description source

NCDOT

Description of values

Dates vary.

Field Division

Alias Division

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

NCDOT Division location of the municipal boundary.

Description source

NCDOT

Range of values

Minimum value 1

Maximum value 14

Field PopulationGrowth

Alias PopGrowth

Data type Integer

Width 4

Precision 0

Scale 0

Field description

Population difference from the 2020 Census Population to the Population field value.

Description source

U.S. Census Bureau

Field CountyName4

Alias County4

Data type String

Width 20

Precision 0

Scale 0

Field description

Third additional county intersected by a portion of the municipal boundary.

Description source

NCDOT

Description of values

Text.

Field MunicipalBoundaryNameUpperCase

Alias NmUpprCase

Data type String

Width 30

Precision 0

Scale 0

Field description

Municipal boundary name in all upper case lettering.

Description source

NCDOT

Description of values

Text.

Field PopulationEstimate

Alias PopEstimate

Data type Integer

Width 4

Precision 0

Scale 0

Field description

Updated municipality population figure.

Description source

U.S. Census

Description of values

Values vary.

Field ChangeYear

Alias ChangeYear

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Year of latest change, if any, to the municipal boundary.

Description source

NCDOT

Field CensusPopulation

Alias CensusPop

Data type Integer

Width 4

Precision 0

Scale 0

Field description

Municipality population.

Description source

U.S. Census

Field ToDate

Alias ToDate

Data type Date

Width 8

Precision 0

Scale 0

Field description

The date the data is retired.

Description source

NCDOT

Description of values

Dates vary.

Field IntersectFeatureID

Alias IntersectID

Data type String

Width 10

Precision 0

Scale 0

Field description

An identifier created by the concatenation of "BM00" and the TownCode field value.

Description source

NCDOT

Description of values

Text.

Field MunicipalBoundaryName

Alias MunName

Data type String

Width 30

Precision 0

Scale 0

Field description

Municipal Name

Description source

NCDOT

Description of values

Text

Field PopulationEstimateYear

Alias PopEstYear

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Population year for the value in the PopulationEstimate field.

Description source

U.S. Census

Description of values

Values vary.

Field Changed

Alias Changed

Data type String

Width 15

Precision 0

Scale 0

Field description

Boundary change category.

Description source

NCDOT

List of values

Value Changed

Description Municipal boundary has changed.

Enumerated domain value definition source NCDOT

Value Not Changed

Description Municipal boundary has not changed.

Enumerated domain value definition source NCDOT

Value Updated

Description Municipal boundary has been updated.

Enumerated domain value definition source NCDOT

Value Verified

Description Municipal boundary has been verified.

Enumerated domain value definition source NCDOT

Field CensusYear

Alias CensusYear

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Year noting an update or change to the municipal boundary.

Description source

U.S. Census Bureau

Description of values

Values vary.

Field CountyName1

Alias County1

Data type String

Width 20

Precision 0

Scale 0

Field description

County containing the municipal boundary. If the municipal boundary crosses county line(s), this is the county where containing the greatest area of that municipality.

Description source

NCDOT

Description of values

Text.

Field CountyName2

Alias County2

Data type String

Width 20

Precision 0

Scale 0

Field description

First additional county intersected by a portion of the municipal boundary.

Description source

NCDOT

Description of values

Text.

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 TownCode

Alias TownCode

Data type String

Width 4

Precision 0

Scale 0

Field description

Municipal ID.

Description source

NCDOT

Description of values

Values vary.

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.

Field IncorporatedYear

Alias IncprtdYear

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Municipal incorporation year.

Description source

NCDOT

Description of values

Values vary.

Field CountyName3

Alias County3

Data type String

Width 20

Precision 0

Scale 0

Field description

Second additional county intersected by a portion of the municipal boundary.

Description source

NCDOT

Description of values

Text.

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_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.

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 2026-01-21

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Metadata style ISO 19139 Metadata Implementation Specification

Standard or profile used to edit metadata ISO19139

Created in ArcGIS for the item 2026-01-21 14:49:44

Last modified in ArcGIS for the item 2026-01-21 16:53:37

Automatic updates

Have been performed Yes

Last update 2026-01-21 16:53:37

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

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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Metadata Maintenance

Maintenance

Update frequency annually

Scope of the updates dataset

Maintenance contact - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Help Desk

Contact information

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

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Hours of service

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Metadata Constraints

Security constraints

Classification unclassified

Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file