

# Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) Boundaries, 2025 (Revised) – NC Department of Transportation

## Geodatabase Feature Class



**Tags** Polygon, North Carolina, NCDOT, Metropolitan Planning Organization, Rural Planning Organization, transportation, MPO, RPO, Census, Boundary, Boundaries, Transportation Planning, Transportation

### Summary

Polygons depicting the various MPO and RPO planning area boundaries, covering the entire state of North Carolina.

### Description

Polygons depicting the various MPO and RPO planning area boundaries, covering the entire state of North Carolina. The MPOs are responsible for establishing and maintaining MPA boundaries to include the entire urban area (UA) boundary identified in the latest decennial Census and contiguous geographic area likely to become urbanized within 20 years. All boundary adjustments are approved by the NCDOT and submitted to the FHWA Division Office(s). RPOs are responsible for establishing and maintain planning area boundaries for transportation planning in rural North Carolina areas not within an MPO.

This revised version addresses and corrects errors identified in the prior Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) boundaries, 2025 (Revised) publication.

### Credits

North Carolina Department of Transportation, Transportation Planning Division,  
North Carolina Department of Information Technology-Transportation, GIS Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation, Transportation Planning Division.

### 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. This dataset does not replace locally verified data.

### Extent

**West** -84.422109  
**East** -75.416032  
**North** 36.617254  
**South** 33.730554

## Scale Range

**Maximum (zoomed in)** 1:500,000  
**Minimum (zoomed out)** 1:150,000,000

## Topics and Keywords

**Themes or categories of the resource** Boundaries, Planning & Cadastral, Society, Transportation

**Content type** Downloadable Data

**Export to FGDC CSDGM XML format as Resource Description** No

**Theme keywords** Polygon, NCDOT, Transportation Planning, Transportation, Planning Division, Location, Metropolitan Planning Organization, MPO, Rural Planning Organization, RPO, Boundary, Boundaries.

### Thesaurus

**Title** User

**Publication date** 2026-02-26 00:00:00

**Creation date** 2021-08-10 00:00:00

**Revision date** 2025-08-11 00:00:00

**Place keywords** North Carolina

### Thesaurus

**Title** User

**Creation date** 2021-08-10 00:00:00

**Publication date** 2026-02-26 00:00:00

**Revision date** 2025-08-11 00:00:00

## Citation

**Title** Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) boundaries, 2025 (Revised) – NC Department of Transportation

**Alternate titles** MPO and RPO Boundaries

**Publication date** 2026-02-26 00:00:00

**Creation date** 2021-08-10 00:00:00

**Revision date** 2025-08-11 00:00:00

**Presentation formats** digital map

**FGDC geospatial presentation format** vector digital data

## Citation Contacts

### Responsible party - originator

**Organization's name** North Carolina Geodetic Survey

**Contact's position** NCGS Chief

### Contact information

#### Phone

**Voice** 919-948-7844

**Fax** 919-733-4407

## Address

**Type** postal  
**Delivery point** 4298 Mail Service Center  
**City** Raleigh  
**Administrative area** NC  
**Postal code** 27699-428  
**Country** US  
**e-mail address** gary.thompson@ncdps.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.

## Responsible party - resource provider

**Organization's name** North Carolina Department of Transportation, Transportation Planning Division  
**Contact's position** Transportation Engineer

## 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** hlu@ncdot.gov

## Hours of service

9:00am - 5:00pm Monday - Friday

## Contact instructions

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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 Data and Services Consultant

## Contact information

### Address

**Type** physical  
**Delivery point** Century Center Building B, 1020 Birch Ridge Drive  
**City** Raleigh  
**Administrative area** NC

**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 CTP Geodatabase. If it is an immediate need, indicate as such in the subject line in an email.

## Resource Details

**Dataset languages** English (UNITED STATES)  
**Dataset character set** utf8 - 8 bit UCS Transfer Format

**Status** completed  
**Spatial representation type** vector

**Processing environment** Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

### Credits

North Carolina Department of Transportation, Transportation Planning Division,  
North Carolina Department of Information Technology-Transportation, GIS Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation, Transportation Planning Division.

### ArcGIS item properties

**Name** BoundaryMpoRpo  
**Size** 0.000  
**Location** file://\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Maintenance\QuarterlyDataRefresh\Distribution\WebUpdate\2025Q4\DataGoingToWeb\MP  
O\_RPO\_Boundary.gdb  
**Access protocol** Local Area Network

## Extents

### Extent

**Geographic extent**  
**Bounding rectangle**  
**West longitude** -84.422111  
**East longitude** -75.416034  
**South latitude** 33.730557  
**North latitude** 36.617257

**Vertical extent**  
**Minimum value** -0.000273  
**Maximum value** 0.000027

### Extent

## Geographic extent

### Bounding rectangle

#### Extent type

Extent used for searching

**West longitude** -84.422109

**East longitude** -75.416032

**North latitude** 36.617254

**South latitude** 33.730554

**Extent contains the resource** Yes

## Extent in the item's coordinate system

**westBL** 406832.617203

**eastBL** 3052480.011593

**southBL** 34987.933500

**northBL** 1043624.399491

**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 Data and Services Consultant

### Contact information

#### Address

**Type** physical

**Delivery point** Century Center Building B, 1020 Birch Ridge Drive

**City** Raleigh

**Administrative area** NC

**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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## Resource Maintenance

### Resource maintenance

**Update frequency** quarterly

**Scope of the updates** dataset

### Other maintenance requirements

North Carolina Department of Transportation, Transportation Planning Division,

North Carolina Department of Information Technology-Transportation, GIS Unit.

Support and maintenance of the spatial database where this data resides is handled by the North Carolina Department of Transportation, Transportation Planning Division.

## Maintenance contact - point of contact

**Organization's name** North Carolina Department of Transportation, Transportation Planning Division

**Contact's position** Transportation Engineer

### 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** hlu@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.

## Resource Constraints

### Legal constraints

#### Limitations of use

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### Security constraints

**Classification** unclassified

**Classification system** None

#### Limitations of use

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## Constraints

### Limitations of use

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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** 3048.0060960121918

**ZOrigin** -1073.7419734999996

**ZScale** 10000

**MOrigin** -100000

**MScale** 10000

**XYTolerance** 0.0032808333333333331

**ZTolerance** 0.001

**MTolerance** 0.001

**HighPrecision** true

**LatestWKID** 2264

#### 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],AUTHORITY["EPSG",2264]]
```

### 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** BoundaryMpoRpo

**Object type** composite

**Object count** 38

## ArcGIS Feature Class Properties

**Feature class name** BoundaryMpoRpo

**Feature type** Simple

**Geometry type** Polygon

**Has topology** FALSE

**Feature count** 38

**Spatial index** TRUE

**Linear referencing** TRUE

## 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** 2022-10-14 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** 2022-10-14 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** 2022-10-14 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 Transportation to provide a geographic representation of the Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) in North Carolina. MPO boundaries are created from 2010 Census data. RPO boundaries are the non-MPO group of counties. The data were then used by the NC Department of Transportation GIS Unit for further data processing. The final product was utilized by the NC Transportation Planning Division.

### Process step

**When the process occurred** 2011-11-28 00:00:00

#### Description

The North Carolina Department of Transportation created the polygons depicting the various MPO and RPO boundaries, covering the entire state of North Carolina. Existing MPOs expanded their Metropolitan Planning Areas (MPAs) to include all territory in Census 2010 UZAs (Urbanized Areas). All boundary adjustments are approved by the Governor(s) and submitted to the FHWA Division Office(s). The MPA boundaries include the entire UZA boundary identified in the 2010 decennial Census and the contiguous geographic area likely to become urbanized within 20 years. RPOs were created for transportation planning in rural North Carolina areas not within an MPO.

### Process contact - originator

**Organization's name** North Carolina Department of Transportation, Transportation Planning Division

**Contact's position** Transportation Engineer

### 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** hlu@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.

## Process step

**When the process occurred** 2016-02-08 00:00:00

### Description

Data provided to NCDOT-GIS for publication.

## Process contact - point of contact

**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** NC  
**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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## Distribution

### Distributor

#### Contact information - distributor

**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** NC

**Postal code** 27610

**Country** US

**e-mail address** gishelp@ncdot.gov

## Hours of service

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## Contact instructions

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## Distribution format

**Version** 10.5.1

**Name** File Geodatabase Feature Class

## Transfer options

**Transfer size** 9.615

## Online source

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

## Fields

### Details for object BoundaryMpoRpo

**Type** Feature Class

**Row count** 38

#### Definition source

North Carolina Department of Transportation, Transportation Planning Division

#### Definition

NC MPO and RPO Boundaries

#### 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 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 Type

**Alias** Type

**Data type** String

**Width** 9

**Precision** 0

**Scale** 0

### Field description

Indicator if polygon is an MPO or RPO.

### Description source

NCDOT

### List of values

**Value** MPO

**Description** Metropolitan Planning Organization

**Enumerated domain value definition source** NCDOT

**Value** RPO

**Description** Rural Planning Organization

**Enumerated domain value definition source** NCDOT

### Field Name

**Alias** Name

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

### **Field description**

Name of Metropolitan Planning Organization or Rural Planning Organization.

### **Description source**

NCDOT

### **Description of values**

Text.

## **Field Lengths**

**Alias** Lengths

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

### **Field description**

Total MPO or RPO boundary length in miles.

### **Description source**

NCDOT

### **Description of values**

Values vary.

## **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** 2026-02-26

### 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** 2026-02-26 16:40:40

**Last modified in ArcGIS for the item** 2026-02-26 16:35:29

### Automatic updates

**Have been performed** Yes

**Last update** 2026-02-26 16:35:29

## Metadata Contacts

### Metadata contact - point of contact

**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** NC

**Postal code** 27610

**Country** US

**e-mail address** gishelp@ncdot.gov

**Hours of service**

9:00am - 5:00pm Monday - Friday

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**Metadata Maintenance**

**Maintenance**

**Update frequency** quarterly

**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 Data and Services Consultant

**Contact information**

**Address**

**Type** physical

**Delivery point** Century Center Building B, 1020 Birch Ridge Drive

**City** Raleigh

**Administrative area** NC

**Postal code** 27610

**Country** US

**e-mail address** gishelp@ncdot.gov

**Hours of service**

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**Contact instructions**

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**Metadata Constraints**

**Constraints**

**Limitations of use**

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**Security constraints**

**Classification** unclassified

**Classification system** None

**Limitations of use**

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**Thumbnail and Enclosures**

**Thumbnail**

**Thumbnail type**

Image file