

Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) boundaries, 2026 – NC Department of Transportation

Geodatabase Feature Class



Tags Polygon, North Carolina, NCDOT, CTP, Comprehensive Transportation Plan, TPD, Transportation Planning, Transportation, Planning Division, Location, Metropolitan Planning Organization, MPO, Rural Planning Organization, RPO, Boundary, Boundaries.

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.

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. Datasets developed under the CTP Process Improvement initiative are system-wide data and require verification prior to use. These datasets are compiled and grouped from numerous authoritative sources previously verified by the NCDOT Atlas initiative, to be used in long-range planning and project development in the State of North Carolina by its planning partners and resource agencies.

Extent

West -84.422109
East -75.416032
North 36.617254

South 33.730554

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

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

Content type Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Polygon, NCDOT, CTP, Comprehensive Transportation Plan, TPD, Transportation Planning, Transportation, Planning Division, Location, Metropolitan Planning Organization, MPO, Rural Planning Organization, RPO, Boundary, Boundaries.

Thesaurus

Title User

Creation date 2026-02-18 00:00:00

Publication date 2026-08-03 00:00:00

Place keywords Census, 2010 Census, Metropolitan Planning Organization, MPO, Rural Planning Organization, RPO

Thesaurus

Title User

Publication date 2026-08-03 00:00:00

Creation date 2026-02-18 00:00:00

Citation

Title Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO) boundaries, 2026 – NC Department of Transportation

Alternate titles MPO and RPO Boundaries

Publication date 2026-08-03 00:00:00

Creation date 2026-02-18 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - originator

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

Contact's position TPD Data Manager

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.

Responsible party - resource provider

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

Contact's position TPD Data Manager

Contact information

Phone

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Responsible party - point of contact

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

Contact's position TPD Data Manager

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Resource Details

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

Status completed
Spatial representation type vector

Processing environment Esri ArcGIS 10.3.1.4959

Credits

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

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ArcGIS item properties

Name BoundaryMpoRpo
Size 6.638
Location file://\\DOT\DFSROOT01\GROUPS-GISCC\GIS-SpatialDataMgmt\Maintenance\QuarterlyDataRefresh\Boundary\2026Q2\Final\MPO_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
Extent contains the resource Yes

Temporal extent

Date and time 2020-02-14 00:00:00

Vertical extent

Minimum value -0.000300

Maximum value 0.000000

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

Vertical extent

Minimum value -0.000300

Maximum value 0.000000

Extent in the item's coordinate system

westBL 406832.617203

eastBL 3052480.011593

southBL 34987.933500

northBL 1043624.399490

exTypeCode Yes

Resource Points of Contact

Point of contact - point of contact

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

Contact's position TPD Data Manager

Contact information

Phone

Voice 919-707-0900

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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 TPD Data Manager

Contact information

Phone

Voice 919-707-0900

Address

Type physical

Delivery point 1 South Wilmington Street

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Resource Constraints

Constraints

Limitations of use

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prior to use. These datasets are compiled and grouped from numerous authoritative sources previously verified by the NCDOT Atlas initiative, to be used in long-range planning and project development in the State of North Carolina by its planning partners and resource agencies.

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

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 3048.0060960121928

ZOrigin -100000

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 2026-02-18 00:00:00

Publication date 2026-08-03 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 2026-02-18 00:00:00

Publication date 2026-08-03 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 2026-02-18 00:00:00

Publication date 2026-08-03 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 2026-02-04 00:00:00

Description

The North Carolina Department of Transportation created 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 that is 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 TPD Data Manager

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.

Process step

When the process occurred 2026-02-18 00:00:00

Description

The dataset is downloaded from NCDOT's geographic data portal. A feature class is created and included in the CTP File Geodatabase by the North Carolina Department of Information Technology-Transportation, GIS Unit utilizing an automated process.

Process contact - point of contact

Organization's name North Carolina Department of Transportation, Transportation Planning Division
Contact's position TPD Data Manager

Contact information

Phone

Voice 919-707-0900

Address

Type physical

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City Raleigh

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Source data

Relationship to the process step produced

Source medium name online link

Source citation

Title State MPO/RPO Boundaries

Creation date 2025-02-17 00:00:00

Publication date 2025-02-17 00:00:00

Revision date 2025-02-17 00:00:00

Resource location online

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

Function performed download

Distribution

Distributor

Contact information - distributor

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

Contact's position TPD Data Manager

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

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is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Distribution format

Name File Geodatabase Feature Class

Version ArcGIS Pro 3.4.3

Fields

Details for object BoundaryMpoRpo

Type Feature Class

Row count 38

Definition

NC MPO and RPO Boundaries

Definition source

North Carolina Department of Transportation, Transportation Planning Division

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 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.

References

Aggregate Information

Association type source

Initiative type project

Aggregate resource name

Title MPO and RPO Boundaries

Publication date 2013-11-12 00:00:00

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 2026-07-27

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 2026-07-27 14:51:17

Last modified in ArcGIS for the item 2026-07-27 13:55:58

Automatic updates

Have been performed Yes

Last update 2026-07-27 13:55:58

Metadata Contacts

Metadata contact - point of contact

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

Contact's position TPD Data Manager

Contact information

Phone

Voice 919-707-0900

Address

Type physical

Delivery point 1 South Wilmington Street

City Raleigh

Administrative area NC

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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 Transportation, Transportation Planning Division

Contact's position TPD Data Manager

Contact information

Phone

Voice 919-707-0900

Address

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Delivery point 1 South Wilmington Street
City Raleigh
Administrative area NC
Postal code 27601
Country US
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Hours of service
9:00am - 5:00pm Monday – Friday

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Metadata Constraints

Constraints

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Security constraints

Classification unclassified

Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file