

# Geometric Route and Boundary Intersections, 1st Quarter 2026 - NC Department of Transportation Geodatabase Feature Class



**Tags** Highways, US, County, State maintained roads, Primary, Transportation, NC, Local roads, Interstate, Secondary

## Summary

This dataset provides a subset of segment route information for intersections located on local and state-maintained routes in North Carolina. Intersections in this dataset are defined as junctions a route has with other routes or other boundaries (state/county/municipal). The data serves the web-enabled Geometric Reporter application built by the NCDIT-T GIS Unit Application Services Team, that enables users to return specified subsets of the data based on custom filters.

Production website : <https://gis11.services.ncdot.gov/geometricreport/index.html>

This dataset is a derivative product of NCRouteArcs, which is updated quarterly in support of Highway Performance Monitoring System (HPMS) reporting.

## Description

This dataset includes a subset of information for local and state-maintained route intersections where intersections are defined as junctions with other routes or with state/county/municipal boundaries. Specific information including the route or type of boundary the dominant route intersects with as well as the measurement between intersection points and respective routes/boundaries are included.

## Credits

Spatial Data Management Group - compile data.

## 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

There is no extent for this item.

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

## Topics and Keywords

**Themes or categories of the resource** Transportation

**Content type** Downloadable Data

**Theme keywords** Highways, US, County, State maintained roads, Primary, Transportation, NC, Local roads, Interstate, Secondary

## Citation

**Title** Geometric Route and Boundary Intersections, 1st Quarter 2026 - NC Department of Transportation

**Publication date** 2026-05-04 00:00:00

**Presentation formats** digital table

## Citation Contacts

### Responsible party - originator

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

#### Contact information

##### Phone

**Voice** 919.707.2165

**Fax** 919.707.2210

##### Address

**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

8am to 5pm, M-F

### Responsible party - point of contact

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

#### Contact information

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**Hours of service**  
8am to 5pm, M-F

## Responsible party - resource provider

**Organization's name** North Carolina Department of Transportation Geographic Information Systems 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

**Spatial representation type** text table

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

## Credits

Spatial Data Management Group - compile data.

## Resource Points of Contact

### Point of contact - point of contact

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit  
**Contact's position** GIS Help Desk

### Contact information

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## **Hours of service**

8am to 5pm, M-F

## **Resource Maintenance**

### **Resource maintenance**

**Update frequency** quarterly

### **Maintenance contact - point of contact**

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

### **Contact information**

#### **Phone**

**Voice** 919.707.2165

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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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## Data Quality

### Scope of quality information

**Resource level** dataset

### Lineage

### Process step

#### Description

Compile data and prep for application

### Process contact - processor

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

#### Contact information

##### Phone

**Voice** 919.707.2165

**Fax** 919.707.2210

##### Address

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**Country** US

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##### Hours of service

8am to 5pm, M-F

## Distribution

## Distribution format

**Version** 10.8.1

**Name** File Geodatabase Table

## Fields

### Details for object GeometricRteBndryIntersections

**Type** Table

**Row count** 2541348

#### Definition

Intersections

#### Definition source

NCDOT GIS

#### Field RouteName

**Alias** RouteName

**Data type** String

**Width** 41

**Precision** 0

**Scale** 0

#### Field description

Route, County or State identifier intersecting with RouteID

#### Description source

NCDOT GIS

#### Description of values

Values vary.

#### Field measure

**Alias** measure

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

#### Field description

RouteID Measure where intersection occurs

#### Description source

NCDOT GIS

#### Description of values

Values vary.

## Field intersection

**Alias** intersection

**Data type** String

**Width** 30

**Precision** 0

**Scale** 0

### Field description

Representation of Intersecting Route

### Description source

NCDOT GIS

### Description of values

Values vary.

## Field OrderNbr

**Alias** OrderNbr

**Data type** String

**Width** 5

**Precision** 0

**Scale** 0

### Field description

Dominance Rank of Intersections at a specific measure for a specific RouteID

### Description source

NCDOT GIS

### Description of values

Values vary.

## Field routeid

**Alias** routeid

**Data type** String

**Width** 11

**Precision** 0

**Scale** 0

### Field description

Route Identifier, dominant route.

### Description source

NCDOT GIS

### Description of values

Values vary.

## 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.

## Metadata Details

**Metadata language** English (UNITED STATES)

**Metadata character set** utf8 - 8 bit UCS Transfer Format

**Scope of the data described by the metadata** non-geographic dataset

**Scope name** dataset

**Last update** 2026-04-22

## 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** 2026-04-15 13:54:45

**Last modified in ArcGIS for the item** 2026-04-22 10:08:12

### Automatic updates

**Have been performed** Yes

**Last update** 2026-04-22 10:07:23

## Metadata Contacts

### Metadata contact - point of contact

**Organization's name** North Carolina Department of Transportation Geographic Information Systems Unit

**Contact's position** GIS Help Desk

### Contact information

#### Phone

**Voice** 919.707.2165

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## Metadata Maintenance

### Maintenance

**Update frequency** quarterly

## Metadata Constraints

### Legal constraints

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### Security constraints

**Classification** unclassified

**Classification system** None

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## Thumbnail and Enclosures

### Thumbnail

#### Thumbnail type

Image file