

# North Carolina Rail Crossings – 1st Quarter 2026 - North Carolina Department of Transportation Geodatabase Feature Class



**Tags** NC, North Carolina, NCDOT, Official NCDOT, Transportation, Railroad, Rail, Crossing, Railway

## Summary

This dataset is made available to provide a representation of state maintained railroad crossings for mapping, planning and modeling purposes. Locations are approximate and data is not guaranteed to be complete.

## Description

The dataset provided includes point data for use in GIS that represents public crossings and private crossings with public access in North Carolina. Only open and inactive crossings are included; closed crossings have been omitted. Attributes for each crossing include the crossing's FRA identification number and the latitude and longitude of the crossing. Crossing location and status were verified by cross-referencing Federal Railroad Administration public crossing database with North Carolina Department of Transportation Rail Division's crossing database, railroad company track charts and aerial imagery. Where in doubt, crossing status has been investigated by contacting the rail company, land owner, or municipality within whose jurisdiction the crossing falls. The attributes are derived directly from NCDOT's Statewide Authoritative Railroad and Highway (SARAH) database.

## Credits

North Carolina Department of Transportation Rail Division, Moffatt & Nichol Engineers, WGI

## 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** -84.124533

**East** -76.090847

**North** 36.572504

**South** 33.846568

## Scale Range

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

**Minimum (zoomed out)** 1:625,000

## Topics and Keywords

**Themes or categories of the resource** Transportation

**Content type** Downloadable Data

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

**Theme keywords** Transportation, Railways, Rail Crossings

## Citation

**Title** North Carolina Rail Crossings – 1st Quarter 2026 - North Carolina Department of Transportation

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

**Creation date** 2013-08-01 00:00:00

**Revision date** 2026-04-20 00:00:00

**Presentation formats** digital map

## Citation Contacts

### Responsible party - custodian

**Individual's name** Todd Meyer

**Organization's name** NCDOT Rail Division

**Contact's position** Inventory & Data Analysis Manager

#### Contact information

##### Phone

**Voice** 9197074121

##### Address

**Type** postal

**Delivery point** 1556 Mail Service Center

**City** Raleigh

**Administrative area** NC

**Postal code** 27699

**Country** US

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

## 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

## Extents

### Extent

#### Description

Date data was obtained from State Authoritative Rail and Highway (SARAH) database.

#### Temporal extent

**Date and time** 2026-04-20 00:00:00

### Extent

#### Geographic extent

##### Bounding rectangle

**Extent type** Extent used for searching

**West longitude** -84.124533

**East longitude** -76.090847

**North latitude** 36.572504

**South latitude** 33.846568

**Extent contains the resource** Yes

#### Extent in the item's coordinate system

**westBL** 493586.790479

**eastBL** 2854662.538463

**southBL** 72807.773870

**northBL** 1027329.782473

**exTypeCode** Yes

## Resource Points of Contact

### Point of contact - custodian

**Individual's name** Todd Meyer

**Organization's name** NCDOT Rail Division

**Contact's position** Inventory & Data Analysis Manager

#### Contact information

##### Phone

**Voice** 9197074121

##### Address

**Type** postal

**Delivery point** 1556 Mail Service Center

**City** Raleigh

**Administrative area** NC

**Postal code** 27699

**Country** US

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

## Resource Maintenance

### Resource maintenance

**Date of next update** 2026-05-01 00:00:00

**Update frequency** quarterly

## Resource Constraints

### Constraints

#### Limitations of use

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## Legal constraints

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## Security constraints

**Classification** unclassified

**Classification system** None

#### Additional restrictions

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



There are no measurement, precision, or spatial standards assigned to this data set.

### Quantitative test results

**Value** Shape\_Length

**Units**

**Symbol** [ft\_us]

### Data quality report - Completeness omission

#### Data quality measure reference

**Measure description**

There are no measurement, precision, or spatial standards assigned to this data set.

#### Conformance test results

**Test passed** Yes

**Result explanation**

Complies with SARAH data.

### Data quality report - Absolute external positional accuracy

**dimension** horizontal

#### Data quality measure reference

**Measure description**

Various sources with varying degree of accuracy have been used over time to create/update this dataset. NCDOT used best available information at the time of editing.

#### Conformance test results

**Test passed** Yes

**Result explanation**

Complies with current SARAH data.

## Lineage

### Lineage statement

Moffatt & Nichol Engineers initially performed analysis to verify the location of every open public crossing in the state of North Carolina. Subsequent updates added all pedestrian and inactive crossings to the dataset. Dataset is updated by NCDOT Rail Division and offered as an online resource by the NCDIT-Transportation GIS Unit. Crossing locations from several sources were compared and the probable location of each crossing was determined. Sources include NCDOT Rail Division's Statewide Authoritative Rail and Highway (SARAH) database, Federal Railroad Administration's crossing database, NCDOT State Route LRS dataset. Where study of these resources was unable to positively locate a crossing, each crossing was individually investigated by contacting the land owner, controlling municipality, or the relevant railroad company. Additional crossing attributes have been ported from the NCDOT SARAH Database by WGI. These attributes are maintained as a separate data source and have been imported without any additional processing or analysis.

## Process step

**When the process occurred** 2019-10-10 00:00:00

### Description

Review Metadata and process for publication.

## Process contact - distributor

**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

**Type** both

**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

#### Contact instructions

phone or email

## Distribution

### Distributor

## Contact information - distributor

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

**Contact's position** GIS Help Desk

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

**Contact instructions**  
phone or email

## Distribution format

**Version** 10.5  
**Name** File Geodatabase Feature Class

## Transfer options

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

## Fields

### Details for object RailroadCrossings

**Type** Feature Class  
**Row count** 5153  
**Definition**  
Point data representing all open/inactive, public crossing points in North Carolina

**Definition source**  
NCDOT

#### 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 CrossingId**

**Alias** Crossing ID

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

**Field description**

The US DOT Crossing Inventory Number contains six digits followed by an alpha check character. The alpha character is a check to ensure that the number is valid and provides a unique identifying number which was designed to prevent the possibility of error by ensuring that the crossing information is recorded for the correct location.

**Description source**

U.S. DOT - FRA

**Description of values**

Six digits followed by an alpha check character

**Field PrfxMilePost**

**Alias** Milepost Prefix

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

**Field description**

Prefix to the railroad milepost.

**Description source**

NCDOT Rail Division

**Description of values**

3 digit-maximum code chosen by the operating railroad company

## Field PosXing

**Alias** Crossing Position

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

### Field description

Position of the railroad relative to the crossing.

### Description source

NCDOT

### List of values

**Value** AT GRADE

**Description** Railroad intersects roadway

**Enumerated domain value definition source** NCDOT

**Value** RR OVER

**Description** Railroad is grade separated over roadway

**Enumerated domain value definition source** NCDOT

**Value** RR UNDER

**Description** Railroad is grade separated under roadway

**Enumerated domain value definition source** NCDOT

## Field XPurpose

**Alias** Crossing Purpose

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

### Field description

Purpose of the crossing.

### Description source

NCDOT Rail Division

### List of values

**Value** HIGHWAY

**Description** Highway use

**Enumerated domain value definition source** NCDOT

**Value** PATHWAY, PED.

**Description** Pedestrian use, not within a passenger station

**Enumerated domain value definition source** NCDOT

**Value** STATION, PED.

**Description** Pedestrian use within a passenger station

**Enumerated domain value definition source** NCDOT

## Field SfxMilePost

**Alias** Milepost Suffix

**Data type** String

**Width** 10

**Precision** 0

**Scale** 0

### Field description

Suffix to the railroad milepost.

### Description source

NCDOT Rail Division

### Description of values

3 digit-maximum code chosen by the operating railroad company

## Field TypeXing

**Alias** Crossing Type

**Data type** String

**Width** 10

**Precision** 0

**Scale** 0

### Field description

The type of crossing. Based on the maintainer of crossing or roadway.

### Description source

FRA

### List of values

**Value** PUBLIC

**Description** The crossing is located where a public highway, road, or street crosses one or more railroad tracks either at grade or grade-separated. The crossing is a public pathway explicitly authorized by a public authority that is dedicated for the use of non-vehicular traffic, including pedestrians, bicyclists, and others, which is not associated with a public highway, road, or street. The crossing is a pathway explicitly authorized by a public authority or a railroad carrier that is dedicated for the use of non-vehicular traffic and is located within a railway station.

**Enumerated domain value definition source** FRA

**Value** PRIVATE

**Description** The crossing is a location where a private roadway crosses one or more railroad tracks either at grade or grade-separated. The crossing is a private pathway, either at grade or grade-separated, explicitly authorized by a railroad carrier that is dedicated for the use of non-vehicular traffic, including pedestrians, bicyclists, and others, which is not associated with a private roadway.

**Enumerated domain value definition source** FRA

## Field Street

**Alias** Street

**Data type** String

**Width** 255

**Precision** 0

**Scale** 0

### Field description

Values represent the name of the highway or street. If multiple street names exist at a crossing then each is separated by a slash “ / ”.

### Description source

NCDOT

### Description of values

Street name spelled without abbreviations.

## Field Nearest

**Alias** In or Near

**Data type** String

**Width** 25

**Precision** 0

**Scale** 0

### Field description

In or Near municipal boundaries.

### Description source

NCDOT

## List of values

**Value** In

**Description** Crossing falls within municipal boundaries

**Enumerated domain value definition source** NCDOT

**Value** Near

**Description** Crossing does not fall within any municipal boundaries

**Enumerated domain value definition source** NCDOT

## Field Highway

**Alias** Highway

**Data type** String

**Width** 15

**Precision** 0

**Scale** 0

### Field description

The Highway Type, Number and Designation.

### Description source

NCDOT

## List of values

**Value** US

<b>Description</b>	US Route	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	NC	
<b>Description</b>	NC Route	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	I	
<b>Description</b>	Interstate	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	SR	
<b>Description</b>	Secondary Route	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	LS	
<b>Description</b>	Local Street	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	NON	
<b>Description</b>	Pedestrian Path, not a roadway	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	BYP	
<b>Description</b>	Bypass	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	BUS	
<b>Description</b>	Business	
<b>Enumerated domain value definition source</b>		NCDOT
<b>Value</b>	ALT	
<b>Description</b>	Alternate	
<b>Enumerated domain value definition source</b>		NCDOT

## Field CityCD

**Alias** City

**Data type** String

**Width** 255

**Precision** 0

**Scale** 0

### Field description

Values represent the name of the city, town, or village where the crossing is located (maximum of 32 characters) which must be a valid location within the state.

### Description source

NCDOT

### Description of values

The City name must be recognized on the Geographic Locator Code list for North Carolina. The Geographic Locator Codes with updated city names and codes are available at <https://www.gsa.gov/reference/geographic-locator-codes-glcs-overview>.

## Field CntyCD

**Alias** County

**Data type** String

**Width** 50

**Precision** 0

**Scale** 0

### Field description

Values represent the county where the crossing is located. When a crossing is located on a county line, it is suggested that the crossing be inventoried in the county that is south or east geographically.

### Description source

NCDOT

### Description of values

North Carolina Counties

## Field Railroad

**Alias** Railroad

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

### Field description

Values represent the valid railroad code (up to 4 letters) for the "Primary Operating Railroad" company, i.e., the railroad that operates train movements over the crossing. The primary operating railroad will normally be the reporting railroad, but may or may not own and maintain the roadbed, tracks, and signal system controlling the crossing.

### Description source

NCDOT

### Description of values

See FRA accepted RR codes

## Field MilePost

**Alias** Milepost

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

### Field description

Values represent the railroad milepost number in miles and thousandths of miles.

### Description source

NCDOT

### Range of values

**Minimum value** 0  
**Maximum value** 999

### Field DIVISION

**Alias** NCDOT Division  
**Data type** SmallInteger  
**Width** 2  
**Precision** 0  
**Scale** 0

#### Field description

The NCDOT Division number the crossing is in.

#### Description source

NCDOT

### Range of values

**Minimum value** 1  
**Maximum value** 14

### Field Latitude

**Alias** Latitude  
**Data type** Double  
**Width** 8  
**Precision** 0  
**Scale** 0

#### Field description

Latitude coordinate of the crossing

#### Description source

NCDOT

### Range of values

**Minimum value** 33.945853  
**Maximum value** 36.540988  
**Units of measure** Decimal Degrees

### Field Photo\_N

**Alias** Photo North  
**Data type** String  
**Width** 200  
**Precision** 0  
**Scale** 0

#### Field description

Link to a picture of the crossing, facing North

#### Description source

NCDOT

## Description of values

Uniform Resource Locator for Crossing photos

### Field Photo\_S

**Alias** Photo South

**Data type** String

**Width** 200

**Precision** 0

**Scale** 0

#### Field description

Link to a picture of the crossing, facing South

#### Description source

NCDOT

## Description of values

Uniform Resource Locator for Crossing photos

### Field Photo\_E

**Alias** Photo East

**Data type** String

**Width** 200

**Precision** 0

**Scale** 0

#### Field description

Link to a picture of the crossing, facing East

#### Description source

NCDOT

## Description of values

Uniform Resource Locator for Crossing photos

### Field Photo\_W

**Alias** Photo West

**Data type** String

**Width** 200

**Precision** 0

**Scale** 0

#### Field description

Link to a picture of the crossing, facing West

#### Description source

NCDOT

## Description of values

Uniform Resource Locator for Crossing photos

### Field Longitude

**Alias** Longitude

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

#### Field description

Longitude coordinate of the crossing

### Description source

NCDOT

### Range of values

**Minimum value** -84.038128

**Maximum value** -76.095401

**Units of measure** Decimal Degrees

### Field PolCont

**Alias** Emergency Contact

**Data type** String

**Width** 100

**Precision** 0

**Scale** 0

#### Field description

Value represents the telephone number (area code and phone number) for the Emergency Notification System Contact (e.g., Law Enforcement, Railroad Emergency Contact or State Emergency Contact) associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line. This should be a 24-hour number that can be called to speak with an Emergency Notification Center who can send emergency responder(s) to the crossing in the event of problems, signal malfunctions, or other emergencies at the crossing. Note: 911 cannot be used as the Emergency Notification Telephone No.

### Description source

NCDOT

### Description of values

Any 10-digit phone number

### Field WARNING\_TYPE

**Alias** Warning Type

**Data type** String

**Width** 50

**Precision** 0

**Scale** 0

### Field description

The type of device installed at the railroad crossing which provides the highest level of warning regarding possible rail activity to a highway user.

### Description source

NCDOT

### List of values

**Value** 00 - NONE

**Description** No warning devices installed at crossing

**Enumerated domain value definition source** NCDOT

**Value** 01 - CROSSBUCKS

**Description** Crossbuck signs (MUTCD R15-1) installed at crossing

**Enumerated domain value definition source** NCDOT

**Value** 02 - TRAFFIC SIGNAL

**Description** Highway traffic signal installed at nearby highway intersection which controls traffic over crossing but does not detect approaching trains, with no other rail-related warning devices present

**Enumerated domain value definition source** NCDOT

**Value** 03 - T. SIGNAL PRE.

**Description** Highway traffic signal installed at nearby highway intersection which controls traffic over crossing and does detect approaching trains, reacting to preempt normal operations and clear highway traffic off the crossing; might include train activated blank-out signs with the highway traffic signals, but no other train-activated warning devices present.

**Enumerated domain value definition source** NCDOT

**Value** 04 - FLASHERS

**Description** Train activated flashing lights and bells installed at crossing on a vertical mast, with no crossing gate arms present.

**Enumerated domain value definition source** NCDOT

**Value** 05 - CANTILEVERS

**Description** Train activated flashing lights and bells installed on a cantilevered structure over the traffic lanes, with no crossing gate arms present.

**Enumerated domain value definition source** NCDOT

**Value** 06 - GATES

**Description** Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to a crossing ("entrance gates" only) on a vertical mast.

**Enumerated domain value definition source** NCDOT

**Value** 07 - GATES AND CANT.

**Description** Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to a crossing ("entrance gates" only) on, or accompanying a cantilevered structure over the traffic lanes.

**Enumerated domain value definition source** NCDOT

**Value** 08 - 4-QUAD GATES

**Description** Train activated flashing lights, bells, and crossing gate arms installed along the highway approaches to, and departures from a crossing ("entrance gates" and "exit gates"). The equipment can be installed on vertical masts or cantilevered structures over the traffic lanes.

**Enumerated domain value definition source** NCDOT

**Value** 09 - VEHICLE DETECTION

**Description** 4-Quad Gates assembly with an additional vehicle detection system installed at the crossing which is capable of detecting and reporting in real-time the presence of a vehicle on the crossing and may adjust the lowering of the crossing "exit gates" as necessary to allow vehicles to clear the crossing.

**Enumerated domain value definition source** NCDOT

## Field LrsRouteid

**Alias** LRS Route ID

**Data type** String

**Width** 20

**Precision** 0

**Scale** 0

### Field description

The Route ID of the dominant route the crossing is located on, as defined by the Linear Referencing System (LRS) maintained by NCDIT-T's GIS Unit. When a route is represented by multiple lines (e.g. Divided Highways), the Route ID and Milepost are taken from the Highway Inventory Route (e.g. Northbound or Eastbound route) if the crossing number covers both travel directions.

### Description source

NCDOT

### Description of values

Positive 11-digit numbers (text field) used as a unique identifier for routes across the state.

## Field LrsMilePost

**Alias** LRS Milepost

**Data type** Double

**Width** 8

**Precision** 0

**Scale** 0

### Field description

The milepost the crossing is located on the dominant route of the Linear Referencing System (LRS) maintained by NCDIT-T's GIS Unit. When a route is represented by multiple lines (e.g. Divided Highways), the Route ID and Milepost are taken from the Highway Inventory Route (e.g. Northbound or Eastbound route) if the crossing number covers both travel directions.

### Description source

NCDOT

### Range of values

**Minimum value** 0

**Maximum value** 999

## 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** 2026-02-06

## ArcGIS metadata properties

**Metadata format** ArcGIS 1.0

**Metadata style** FGDC CSDGM Metadata

**Standard or profile used to edit metadata** ISO19139

**Created in ArcGIS for the item** 2026-04-13 10:18:11

**Last modified in ArcGIS for the item** 2026-04-27 10:53:38

### Automatic updates

**Have been performed** Yes

**Last update** 2026-04-27 10:53:38

## Metadata Contacts

### Metadata contact - custodian

**Individual's name** Todd Meyer

**Organization's name** NCDOT Rail Division

**Contact's position** Inventory & Data Analysis Manager

#### Contact information

##### Phone

**Voice** 9197074121

##### Address

**Type** postal

**Delivery point** 1556 Mail Service Center

**City** Raleigh

**Administrative area** NC

**Postal code** 27699

**Country** US

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

## Metadata Maintenance

### Maintenance

**Date of next update** 2026-05-01 01:00:00

**Update frequency** quarterly

## Metadata Constraints

### Constraints

#### Limitations of use

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## Security constraints

**Classification** unclassified

**Classification system** None

### Additional restrictions

None

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## Thumbnail and Enclosures

### Thumbnail

#### Thumbnail type

Image file