

North Carolina Rail Track - 1st Quarter 2026 - NC Department of Transportation

Geodatabase Feature Class



Tags Rail, Railroad, Transportation, Track, Rail Track, Rail Lines, NCDOT, NC, Official NCDOT, North Carolina, Railway, STRACNET

Summary

This dataset is made available to provide a representation of state maintained railroad track for mapping and planning purposes.

Description

The dataset provided includes line data for use in geographic information systems that represents all the standard gauge freight and passenger railroad track in North Carolina, and contains the following information: owner, operator, track type, branch, beginning milepost, ending milepost, and in service status. The linework was digitized based on the most recent statewide aerial photography provided by the State of North Carolina. Select segments representing out of service track have been added to the dataset to aid in preserved and future corridor analysis.

Note: The representation of rail lines in Western North Carolina may not reflect the actual alignment or conditions after Hurricane Helene.

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 -84.127195

East -76.089531

North 36.607291

South 33.839590

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

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Rail, Railroad, Transportation, Track, Rail Track, Rail Lines

Citation

Title North Carolina Rail Track - 1st Quarter 2026 - NC 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

The extents of this project are within the political boundaries of the state of North Carolina.

Temporal extent

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

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -84.127195

East longitude -76.089531

North latitude 36.607291

South latitude 33.839590

Extent contains the resource Yes

Extent in the item's coordinate system

westBL 493457.651630

eastBL 2854678.049915

southBL 70271.396725

northBL 1039996.546838

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

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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

Measure description

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

Conformance test results

Test passed Yes

Result explanation

Data conforms with NCDOT GIS Unit standards.

Lineage

Lineage statement

Linework digitized by Moffatt & Nichol Engineers based on latest available NC statewide aerial photography. Attribution accomplished by assessing several sources to determine the most recent and accurate records: North Carolina Statewide Authoritative Rail and Highway (SARAH) Crossing Database, Federal Railroad Administration Crossing Database, railroad company track charts, railroad company representatives, local municipal representatives, and internal Moffatt & Nichol databases. Data set updated by the NCDOT Rail Division and WGI. Line work is reviewed and updated to conform with the annual release of the North Carolina Orthoimagery Project. Resource made available on the web by NCDIT-Transportation GIS Unit.

Process step

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

Description

Metadata is updated for publication and placed on website.

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

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 e-mail.

Distribution

Distributor

Contact information - 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 e-mail.

Ordering process

Terms and fees None

Date of availability 2018-02-28 00:00:00

Distribution format

Version 10.3

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 RailroadTrack

Type Feature Class

Row count 10684

Definition

Linework representing all of the freight and passenger rail 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 OPERATOR

Alias Operator Code

Data type String

Width 20

Precision 0

Scale 0

Field description

FRA code for person or organization that operates the rail road track

Description source

FRA

List of values

Value AR

Description Aberdeen & Rockfish RR

Enumerated domain value definition source NCDOT

Value ACWR

Description Aberdeen Carolina & Western Railway

Enumerated domain value definition source NCDOT

Value ARC

Description Alexander RR

Enumerated domain value definition source NCDOT

Value ATW

Description Atlantic & Western Railway

Enumerated domain value definition source NCDOT

Value ATLR

Description Atlantic Railways Co. LLC

Enumerated domain value definition source NCDOT
Value BLU
Description Blue Ridge Southern Railway
Enumerated domain value definition source NCDOT
Value CWCY
Description Caldwell County RR
Enumerated domain value definition source NCDOT
Value CPLJ
Description Camp Lejeune Railroad Company
Enumerated domain value definition source NCDOT
Value CF
Description Cape Fear Railways
Enumerated domain value definition source NCDOT
Value CLNA
Description Carolina Coastal Railway
Enumerated domain value definition source NCDOT
Value CMIZ
Description Champion Mill
Enumerated domain value definition source NCDOT
Value CA
Description Chesapeake & Albemarle RR
Enumerated domain value definition source NCDOT
Value CTR
Description Clinton Terminal RR
Enumerated domain value definition source NCDOT
Value CMLX
Description Craggy Mountain Railroad
Enumerated domain value definition source NCDOT
Value CSX
Description CSX Transportation
Enumerated domain value definition source NCDOT
Value DER
Description Dunn Erwin Railway
Enumerated domain value definition source NCDOT
Value GSM
Description Great Smoky Mountains RR
Enumerated domain value definition source NCDOT
Value KNR
Description Kinston Railroad, LLC
Enumerated domain value definition source NCDOT
Value LRS
Description Laurinburg & Southern Railroad Company
Enumerated domain value definition source NCDOT
Value MRSX
Description Military Ocean Terminal Sunny Point
Enumerated domain value definition source NCDOT
Value NHVX

Description	New Hope Valley Railroad	
Enumerated domain value definition source		NCDOT
Value	NS	
Description	Norfolk Southern	
Enumerated domain value definition source		NCDOT
Value	NCVA	
Description	North Carolina & Virginia RR	
Enumerated domain value definition source		NCDOT
Value	CER	
Description	Charlotte Western Railroad	
Enumerated domain value definition source		NCDOT
Value	RJCS	
Description	R J Corman Railroad Co / Carolina Lines, LLC	
Enumerated domain value definition source		NCDOT
Value	RSNR	
Description	Red Springs & Northern RR	
Enumerated domain value definition source		NCDOT
Value	TBRY	
Description	Thermal Belt Railway	
Enumerated domain value definition source		NCDOT
Value	UNK	
Description	No Operator	
Enumerated domain value definition source		NCDOT
Value	WTRY	
Description	Wilmington Terminal RR	
Enumerated domain value definition source		NCDOT
Value	WSS	
Description	Winston-Salem Southbound Railway	
Enumerated domain value definition source		NCDOT
Value	YVRR	
Description	Yadkin Valley RR	
Enumerated domain value definition source		NCDOT

Field Branch

Alias Branch

Data type String

Width 25

Precision 0

Scale 0

Field description

The Branch, Milepost Prefix, or Milepost Suffix assigned to the segment of rail line by the operator

Description source

NCDOT

Description of values

The Branch, Milepost Prefix, or Milepost Suffix assigned to the segment of rail line by the operator

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 TRACK_STAT

Alias Track Status

Data type String

Width 50

Precision 0

Scale 0

Field description

Specifies the status of the track

Description source

NCDOT Rail Division

List of values

Value Active

Description Rail track currently operated by rail cars

Enumerated domain value definition source NCDOT Rail Division

Value Inactive

Description Rail track has no rail traffic at time of publication, but operation could resume at any time

Enumerated domain value definition source NCDOT Rail Division

Value Preserved Corridor

Description Rail track is not able to run trains at this time

Enumerated domain value definition source NCDOT Rail Division

Field PASSSERVIC

Alias Passenger Service

Data type String

Width 5

Precision 0

Scale 0

Field description

Indicates whether the rail track is operated by Amtrak

Description source

NCDOT Rail Division

List of values

Value Yes

Description Rail track is operated by Amtrak

Enumerated domain value definition source NCDOT Rail Division

Value No

Description Rail track is not operated by Amtrak

Enumerated domain value definition source NCDOT Rail Division

Field BEGMP

Alias Beginning MP

Data type Double

Width 8

Precision 0

Scale 0

Field description

The lowest beginning milepost on the main line track. Mileposts derived from crossing data reported to the Federal Railroad Administration.

Description source

NCDOT

Range of values

Minimum value 0

Maximum value 418.73

Field ENDMP

Alias Ending MP

Data type Double

Width 8

Precision 0

Scale 0

Field description

The highest ending milepost on the main line track. Mileposts derived from crossing data reported to the Federal Railroad Administration.

Description source

NCDOT

Range of values

Minimum value 0

Maximum value 418.99

Field OWNERLONG

Alias Owner

Data type String

Width 50

Precision 0

Scale 0

Field description

Full name of person or organization that owns the railroad track

Description source

NCDOT

List of values

Value Laurinburg & Southern Company, Inc.

Description Laurinburg & Southern Company, Inc.

Enumerated domain value definition source NCDOT

Value Thermal Belt Railway

Description Thermal Belt Railway

Enumerated domain value definition source NCDOT

Value Department of Defense

Description Department of Defense

Enumerated domain value definition source NCDOT

Value Charlotte Area Transit System

Description Charlotte Area Transit System

Enumerated domain value definition source NCDOT

Value North Carolina & Virginia Railroad

Description North Carolina & Virginia Railroad

Enumerated domain value definition source NCDOT

Value Clinton Terminal Railroad

Description Clinton Terminal Railroad

Enumerated domain value definition source NCDOT

Value Aberdeen Carolina & Western Railway

Description Aberdeen Carolina & Western Railway

Enumerated domain value definition source NCDOT

Value Norfolk Southern Corporation

Description Norfolk Southern Corporation

Enumerated domain value definition source NCDOT

Value Carolina Coastal Railway

Description Carolina Coastal Railway

Enumerated domain value definition source NCDOT

Value Camp Lejuene Railroad

Description Camp Lejuene Railroad

Enumerated domain value definition source NCDOT

Value Great Smoky Mountains Railroad

Description Great Smoky Mountains Railroad

Enumerated domain value definition source NCDOT

Value Caldwell County Railroad

Description Caldwell County Railroad

Enumerated domain value definition source NCDOT
Value Carolina Southern Railroad
Description Carolina Southern Railroad

Enumerated domain value definition source NCDOT
Value Alexander Railroad
Description Alexander Railroad

Enumerated domain value definition source NCDOT
Value Yadkin Valley Railroad
Description Yadkin Valley Railroad

Enumerated domain value definition source NCDOT
Value High Point, Thomasville & Denton Railroad
Description High Point, Thomasville & Denton Railroad

Enumerated domain value definition source NCDOT
Value Atlantic & Western Railway, LP
Description Atlantic & Western Railway, LP

Enumerated domain value definition source NCDOT
Value Wilmington Terminal Railroad, Inc.
Description Wilmington Terminal Railroad, Inc.

Enumerated domain value definition source NCDOT
Value Winston-Salem Southbound Railway
Description Winston-Salem Southbound Railway

Enumerated domain value definition source NCDOT
Value Aberdeen & Rockfish Railroad
Description Aberdeen & Rockfish Railroad

Enumerated domain value definition source NCDOT
Value Duke Energy
Description Duke Energy

Enumerated domain value definition source NCDOT
Value Piedmont & Northern Railway
Description Piedmont & Northern Railway

Enumerated domain value definition source NCDOT
Value North Carolina Department of Transportation
Description North Carolina Department of Transportation

Enumerated domain value definition source NCDOT
Value Cape Fear Railways
Description Cape Fear Railways

Enumerated domain value definition source NCDOT
Value Red Springs & Northern Railroad
Description Red Springs & Northern Railroad

Enumerated domain value definition source NCDOT
Value Chesapeake & Albemarle Railroad
Description Chesapeake & Albemarle Railroad

Enumerated domain value definition source NCDOT
Value CSX Transportation
Description CSX Transportation

Enumerated domain value definition source NCDOT

Field OPERATORLO

Alias Operator

Data type String

Width 50

Precision 0

Scale 0

Field description

Name of person or organization that operates the railroad track

Description source

NCDOT

Description of values

Name of person or organization that operates the railroad track

Field TRACKTYPE

Alias Track Type

Data type String

Width 20

Precision 0

Scale 0

Field description

The type of track based off railroad crossing track counts reported to the Federal Railroad Administration.

Description source

FRA, NCDOT

List of values

Value Main

Description A track extending through yards or between stations upon which trains are operated by a timetable, train order, or both, or the use of which is governed by a rail signal system.

Enumerated domain value definition source FRA

Value Siding

Description An auxiliary track used for passing, switching, and/or storage, but not through movements.

Enumerated domain value definition source FRA

Value Industry

Description A switching track or series of tracks, used primarily for access to one or more businesses for loading and unloading rolling stock. An industry track serves the needs of the industry rather than the railroad and will typically be located on the property of the industry.

Enumerated domain value definition source FRA

Value Yard

Description A system of tracks within defined limits used for making up or breaking up of trains, for storage of cars, and for other purposes over which movements not authorized by timetable or by train order may be made, subject to prescribed signals, rules or other special instructions. Spur track and lead track are included in this definition. Sidings and Industry track are not included, nor is main track within yard limits.

Enumerated domain value definition source FRA

Value Crossover

Description A track that allows trains to switch between parallel tracks.

Enumerated domain value definition source NCDOT

Field County

Alias County

Data type String

Width 100

Precision 0

Scale 0

Field description

The county the segment is physically located in. For rail lines that follow a county boundary, the county where the majority of the segment lies is used to minimize excessive segmentation.

Description source

NCDOT

Field Division

Alias NCDOT Division

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

The NCDOT Division the track is within.

Description source

NCDOT

Range of values

Minimum value 1

Maximum value 14

Field STRACNET

Alias STRACNET

Data type String

Width 50

Precision 0

Scale 0

Field description

Field designates specific civil rail lines that form the Strategic Rail Corridor Network (STRACNET) and Defense Connector Lines as determined by the Department of Defense (DOD). The DOD reevaluates the STRACNET every 5 years to confirm that these lines meet minimum defense readiness conditions. The last reevaluation occurred in 2023. This field only applies to Main track types. More information about the STRACNET can be found at

<https://www.sddc.army.mil/sites/TEA/Functions/SpecialAssistant/Pages/RailroadsNationalDefense.aspx>

Description source

Department of Defense

List of values

Value STRACNET

Description Civil rail lines that have been designated as part of the Department of Defense's Strategic Rail Corridor Network

Enumerated domain value definition source Department of Defense

Value Connector

Description Defense connector lines that connects defense installations with the STRACNET

Enumerated domain value definition source Department of Defense

Value Not Included

Description Civil rail lines that are not a part of the STRACNET or a Defense Connector

Enumerated domain value definition source Department of Defense

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.

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 2026-04-21

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 2019-07-02 10:49:50

Last modified in ArcGIS for the item 2026-04-21 10:14:12

Automatic updates

Have been performed Yes

Last update 2026-04-21 10:11:05

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 00:00:00

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