

North Carolina Rail Track - 2nd 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 - 2nd Quarter 2026 - NC Department of Transportation

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

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

Revision date 2026-04-17 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

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

ArcGIS item properties

Name RailroadTrack

Extents

Extent

Description

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

Temporal extent

Date and time 2026-02-06 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 2026-07-01 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

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

Dimension horizontal

Value SR-ORG:12

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 RailroadTrack

Object type composite

Object count 10730

ArcGIS Feature Class Properties

Feature class name RailroadTrack

Feature type Simple

Geometry type Polyline

Has topology FALSE

Feature count 10730

Spatial index TRUE

Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Conceptual consistency

dimension horizontal

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

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 4101 Capital Blvd.

City Raleigh

Administrative area North Carolina

Postal code 27604

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 4101 Capital Blvd.

City Raleigh

Administrative area North Carolina

Postal code 27604

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 10730

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 Milepost

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 Milepost

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 2026-07-20

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 2026-07-20 16:56:42

Automatic updates

Have been performed Yes
Last update 2026-07-20 16:56:27

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 2026-07-01 00:00:00
Update frequency quarterly

Metadata Constraints

Constraints

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Security constraints

Classification unclassified

Classification system None

Additional restrictions

None

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file