

NC Milepost Hatching at 1 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Roads, North Carolina, NCDOT, State Highway Network, Measure, Hatch Interval, Milepost, Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

Summary

This layer provides short hatch lines representing hundredth-mile intervals along NCDOT System routes. Each hatch line contains the hundredth-of-a-mile Milepost value from the beginning point of a route. Route ID and Route Class attribute values are also included.

Description

This data provides the display for milepost values along public roads, excluding non-system/local roads, in North Carolina. Based on the data the hatch lines are 25 feet in length and positioned perpendicular to the road centerline. The hatch intervals are created off the NC Public Road Arcs publication product. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System (LRS).

NCDOT adopted the road centerline based LRS Network as its official Enterprise LRS, to which multiple road inventory attributes are referenced along measured routes throughout North Carolina. These routes are classified as either System or Non-System routes. System routes are routes within the state-maintained road network, and are comprised of Interstates, US Routes, NC Routes, Secondary Routes, Ramps, and Non-System Routes. Non-System routes are routes that are typically not maintained by NCDOT, but instead by a local agency (county, city or MPO/RPO). The local agency is the source for updating these Non-System routes in NCDOT's LRS. The route classification is recorded in the RteClass field in this data set; see field values and descriptions in the metadata Fields Section.

Credits

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group - System geometry, mileage.

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.

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Extent

West -84.327953 East -76.451883

North 36.565132 South 33.948461

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:50,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, society, transportation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-08-12 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Line, Roads, NCDOT, State Highway Network, Measure, Hatch Interval, Milepost, Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

THESAURUS ▶

TITLE User

PUBLICATION DATE 2024-08-12 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE NC Milepost Hatching at 1 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation

ALTERNATE TITLES Milepost_Hatch_001

CREATION DATE 2024-08-02 00:00:00

PUBLICATION DATE 2024-08-12 00:00:00

PRESENTATION FORMATS * digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
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 data. If it is an immediate need, please indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
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CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going
SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

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* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.327953

* EAST LONGITUDE -76.451883

* NORTH LATITUDE 36.565132

* SOUTH LATITUDE 33.948461

EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 433532.419360

* EAST LONGITUDE 2748614.901952

* SOUTH LATITUDE 113008.162096

* NORTH LATITUDE 1024645.693648

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

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Resource Constraints ►

CONSTRAINTS

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LEGAL CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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[Hide Resource Constraints ▲](#)

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

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719

X ORIGIN -121841900

Y ORIGIN -93659000

XY SCALE 1893.9393939393938

Z ORIGIN -100000

Z SCALE 9.9999999999999982

M ORIGIN -100000

M SCALE 10000000

XY TOLERANCE 0.00528
Z TOLERANCE 0.200000000000000004
M TOLERANCE 9.9999999999999995e-07
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
VCSWKID 105703
LATESTVCSWKID 6360
WELL-KNOWN TEXT

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]],VERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 2264
- * CODESPACE EPSG
- * VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

- FEATURE CLASS NAME Milepost_Hatch_100
- * OBJECT TYPE composite
 - * OBJECT COUNT 1908

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME Milepost_Hatch_100
- * FEATURE TYPE Simple
 - * GEOMETRY TYPE Polyline
 - * HAS TOPOLOGY FALSE
 - * FEATURE COUNT 1908
 - * SPATIAL INDEX TRUE
 - * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

- RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - COMPLETENESS COMMISSION ▶

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 2024-08-02 00:00:00

PUBLICATION DATE 2024-08-12 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness commission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

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 2024-08-02 00:00:00

PUBLICATION DATE 2024-08-12 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

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 **2024-08-02 00:00:00**
PUBLICATION DATE **2024-08-12 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage

LINEAGE STATEMENT

This data is created using an automated process designed to generate feature classes with short hatch lines at specific milepost intervals along routes. The publication product NC Public Road Arcs is used as the input for the application to generate hatchmarks at specific milepost intervals from the beginning point (milepost zero) of a route. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System maintained by the Spatial Data Operations Group within the North Carolina Department of Information Technology- Transportation, GIS Unit.

PROCESS STEP

WHEN THE PROCESS OCCURRED **2024-01-20 00:00:00**
DESCRIPTION

Data Conversion Group maintains the NCDOT LRS in a geodatabase.

PROCESS CONTACT

ORGANIZATION'S NAME **North Carolina Department of Information Technology -Transportation, GIS Unit**
CONTACT'S POSITION **GIS Data and Services Consultant**
CONTACT'S ROLE **originator**

CONTACT INFORMATION

ADDRESS

TYPE **physical**
DELIVERY POINT **Century Center Building B, 1020 Birch Ridge Drive**
CITY **Raleigh**
ADMINISTRATIVE AREA **NC**
POSTAL CODE **27610**
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 data. If it is an immediate need, please indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2024-01-29 00:00:00

DESCRIPTION

Run internal program to create NC Public Road Arcs product.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2024-02-08 00:00:00

DESCRIPTION

Run internal, automated process to generate feature classes of hatch lines at specific milepost intervals along routes.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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POSTAL CODE 27610

COUNTRY US

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.8.1

* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ▶

DETAILS FOR OBJECT Milepost_Hatch_100 ▶

* TYPE Feature Class

* ROW COUNT 1908

DEFINITION

NC Milepost Hatching at 0.01 Mile Intervals

DEFINITION SOURCE

North Carolina Department of Transportation

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.

Hide Field OBJECTID ▲

FIELD RteClass ▶

* ALIAS RteClass

* DATA TYPE String

* WIDTH 3

* PRECISION 0

* SCALE 0

DESCRIPTION SOURCE

NCDOT

FIELD DESCRIPTION

The NCDOT route class code for dominant route.

LIST OF VALUES

VALUE 1

DESCRIPTION Interstate (I)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2

DESCRIPTION US Route (US)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 3

DESCRIPTION NC Route (NC)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4

DESCRIPTION Secondary Route (SR)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 5
DESCRIPTION Non-System (NS)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 6
DESCRIPTION Other State Agency Route (SA)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 7
DESCRIPTION Federal Route (FED)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 80
DESCRIPTION Ramp (RMP)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 81
DESCRIPTION Rest Areas (RST)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 82
DESCRIPTION Non-System Ramp
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 9
DESCRIPTION Projected (PRJ)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field RteClass ▲

FIELD RteId ►

- * ALIAS RteId
- * DATA TYPE String
- * WIDTH 11
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The NCDOT eleven-digit number for each route in the network. More information explaining this route naming convention used by NCDOT is available here:
<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field RteId ▲

FIELD Milepost ►

- * ALIAS Milepost
- * DATA TYPE String

- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Milepost of the hatch line measured in hundredths of a mile from the beginning point (milepost 0) of the route.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field Milepost ▲

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.

Hide Field Shape ▲

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.

Hide Field Shape_Length ▲

Hide Details for object Milepost_Hatch_100 ▲

[Hide Fields ▲](#)

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 2024-08-05

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-07-31 10:31:07
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-08-05 13:21:56

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-08-05 13:21:56

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
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CONTACT'S ROLE point of contact

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Metadata Constraints ►

CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

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