NC Milepost End Point Marker for Routes with Hatching at 1.00 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation

File Geodatabase Feature Class

Tags

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

Summary

This layer provides points representing the end point milepost for routes with hatch lines generated that represent whole-mile intervals along the NCDOT Road Network. Each hatch line contains the whole-mile Milepost value measured from the beginning point of a route. The Route ID attribute value is also included.

Description

This data provides the display for end point milepost values along public roads, excluding non-system/local roads, in North Carolina.This can accompany the whole-mile interval hatch lines data. The end point milepost points and 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

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This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

Extent

West -84.412892   **East** -75.422328
North 36.579087   **South** 33.783836

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   Point, Roads, NCDOT, State Highway Network, Measure, Hatch Interval, Milepost, Route End Point, Route Beginning Point 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 End Point Marker for Routes with Hatching at 1.00 Mile Intervals, 3rd Quarter 2024 - NC Department of Transportation
ALTERNATE TITLES   Milepost_EndPoint_Marker_100
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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TYPE   physical
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   -84.412892
    * EAST LONGITUDE   -75.422328
    * NORTH LATITUDE   36.579087
    * SOUTH LATITUDE   33.783836
    * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   408787.669264
  * EAST LONGITUDE   3051130.660288
  * SOUTH LATITUDE   54305.507536
  * NORTH LATITUDE   1029726.732688
  * 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   ▶
ADDRESS
TYPE   physical
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
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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   ▶
ADDRESS
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Hide Contact information ▲

Hide Resource Maintenance ▲

Resource Constraints ►

CONSTRAINTS
  LIMITATIONS OF USE
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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   0.20000000000000004
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_19
83",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM[
"Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],P
ARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Cen
tral_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]],V
ERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertic
al_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_EndPoint_Marker_100
  * OBJECT TYPE   point
  * OBJECT COUNT   3347

  Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
  FEATURE CLASS NAME   Milepost_EndPoint_Marker_100
  * FEATURE TYPE   Simple
  * GEOMETRY TYPE   Point
  * HAS TOPOLOGY   FALSE
  * FEATURE COUNT   3347
  * 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 points representing the end point milepost on the NCDOT Road Network of routes. The publication product NC Public Road Arcs is used as the input for the application to generate the end point 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 end point mileposts 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
      CITY   Raleigh
      ADMINISTRATIVE AREA   NC
      POSTAL CODE   27610
      COUNTRY   US
      E-MAIL ADDRESS   gishelp@ncdot.gov

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    9:00am - 5:00pm Monday – Friday

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    immediate need, please indicate as such in the subject line in an email.

      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
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        COUNTRY   US
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      immediate need, please indicate as such in the subject line in an email.

        Hide Contact information ▲

  Hide Distributor ▲

DISTRIBUTION FORMAT
  VERSION   10.8.1
  * NAME   File Geodatabase Feature Class

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT Milepost_EndPoint_Marker_100 ▶
  * TYPE   Feature Class
  * ROW COUNT   3347
  DEFINITION
       NC Milepost End Point Marker for Routes with Hatching at 1.00 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
  FIELD DESCRIPTION
     The NCDOT route class code for dominant route.

  DESCRIPTION SOURCE
     NCDOT

  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 end point of the route.

DESCRIPTION SOURCE

    NCDOT

DESCRIPTION OF VALUES

    Zero.

    Hide Field Milepost ▲

FIELD RoadAngle ▶

  * ALIAS   RoadAngle
  * DATA TYPE   SmallInteger
  * WIDTH   2
  * PRECISION   0
  * SCALE   0

FIELD DESCRIPTION

    Angle of the route at the end point milepost.

DESCRIPTION SOURCE

    NCDOT

RANGE OF VALUES

  MINIMUM VALUE   -180
  MAXIMUM VALUE   180

    Hide Field RoadAngle ▲

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 ▲

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   10:31:16
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2024-08-05   13:12:27

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2024-08-05   13:12:27

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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      TYPE   physical
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Metadata Constraints ▶

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