Transportation Links US74 Resiliency Study, August 2024 - NC Department of Transportation

File Geodatabase Feature Class

Tags

Simulator, Modeling, Resiliency, Flooding, Infrastructure, Critical Facilities, Critical, US74, Resiliency, Transportation, NCDOT, biota, Environment, Location, North Carolina, ATLAS, North Carolina

Summary

This dataset was originally created in April 2024 as part of the Project ATLAS initiative at NCDOT to support the Hydraulics Unit with project delivery in the development phase.

This data layer lists critical facilities that are most at risk of being cut off from access through the transportation system and is summarized in a 2023 report titled "US 74 Resiliency Study" prepared by AtkinsRéalis. These data are provided to Project Atlas to allow for consideration of the findings during the typical project development process.

Description

The CriticalFacilitiesUS74 ResiliencyStudy layer is a points layer that lists critical facilities limited to a corridor surrounding US74 between Charlotte NC and Wilmington NC. It contains critical facilities (hospitals, emergency care, shops, schools, DOT facilities, fire stations, and police) that are most at risk of being cut off from access through the transportation system. These facilities encounter climate change impacts in the sense that the transportation paths providing access to them can become compromised as floods and heat events become more extreme. The rationale was similar to the approach taken that assessed disadvantaged populations. That is, an inaccessibility index was used to quantify redundant routes and their flood risk to each facility from surrounding streets. The climate change impact to the water crossing assets supporting the routes evaluated the degree to which the facilities will become even less accessible in the future.

Datasets developed under Project ATLAS do not replace any NRTR work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

The Hydraulics Unit and Transportation Planning Division (TPD) unit within NCDOT were tasked to create this dataset. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

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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supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Extent

West -80.809542 **East** -77.731922
North 35.218416 **South** 34.087097

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE society, biota, utilitiesCommunication, location, planningCadastre, transportation, structure, environment

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ▶
TITLE User
CREATION DATE 2024-04-24 00:00:00
PUBLICATION DATE 2024-08-08 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Simulator, Modeling, Resiliency, Flooding, Infrastructure, Critical Facilities, Critical, US74, Resiliency, Transportation, NCDOT, biota, Environment, Location, North Carolina, ATLAS

THESAURUS ▶
TITLE User
CREATION DATE 2024-04-24 00:00:00
PUBLICATION DATE 2024-08-08 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE Transportation Links US74 Resiliency Study, August 2024 - NC Department of Transportation
CREATION DATE 2024-04-24 00:00:00
PUBLICATION DATE 2024-08-08 00:00:00

PRESENTATION FORMATS digital map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   point of contact

CONTACT INFORMATION   ▶
PHONE
VOICE   919-707-6146

ADDRESS
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
CITY   Raleigh
ADMINISTRATIVE AREA   NC
POSTAL CODE   27610
COUNTRY   US
E-MAIL ADDRESS   ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Hide Contact information ▲

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CONTACT'S ROLE   originator

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ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   resource provider

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Hide Citation Contacts ▲

Resource Details ▶

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

STATUS   completed
SPATIAL REPRESENTATION TYPE   vector

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

CREDITS
    The Hydraulics Unit and Transportation Planning Division (TPD) unit within NCDOT were tasked to
    create this dataset. Support and maintenance of the enterprise spatial database where this data
    resides is handled by NCDIT's Transportation GIS Unit.

Hide Resource Details ▲

Extents ▶

EXTENT
  DESCRIPTION
    Data collection is complete.

  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      WEST LONGITUDE   -84.422109
      EAST LONGITUDE   -75.416032
      SOUTH LATITUDE   33.730554
      NORTH LATITUDE   36.617254
      EXTENT CONTAINS THE RESOURCE   Yes

  TEMPORAL EXTENT
    BEGINNING DATE   2022-04-25   00:00:00
    ENDING DATE   2022-04-25   00:00:00

EXTENT
  GEOGRAPHIC EXTENT

BOUNDING RECTANGLE
  EXTENT TYPE   Extent used for searching
  * WEST LONGITUDE   -80.809542
  * EAST LONGITUDE   -77.731922
  * NORTH LATITUDE   35.218416
  * SOUTH LATITUDE   34.087097
  * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   -8995677.114000
  * EAST LONGITUDE   -8653077.932300
  * SOUTH LATITUDE   4040503.066300
  * NORTH LATITUDE   4193602.746100
  * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Points of Contact ▶

POINT OF CONTACT
  ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
  CONTACT'S POSITION   Environmental Program Consultant
  CONTACT'S ROLE   originator

  CONTACT INFORMATION   ▶
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  Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ▶

RESOURCE MAINTENANCE
  UPDATE FREQUENCY   not planned

  SCOPE OF THE UPDATES   dataset

  OTHER MAINTENANCE REQUIREMENTS
    Updates are not planned unless the US 74 Resiliency Study is re-evaluated with new data. Support
    and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's
    Transportation GIS Unit.

Hide Resource Maintenance ▲

Resource Constraints ▶

LEGAL CONSTRAINTS
  LIMITATIONS OF USE
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SECURITY CONSTRAINTS
  CLASSIFICATION   unclassified
  CLASSIFICATION SYSTEM   None

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      screening is merely pre-decisional.

Hide Resource Constraints ▲

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM
  * TYPE   Projected
  * GEOGRAPHIC COORDINATE REFERENCE   GCS_WGS_1984
  * PROJECTION   WGS_1984_Web_Mercator_Auxiliary_Sphere
  * COORDINATE REFERENCE DETAILS
    PROJECTED COORDINATE SYSTEM
      WELL-KNOWN IDENTIFIER   102100
      X ORIGIN   -20037700
      Y ORIGIN   -30241100
      XY SCALE   10000
      Z ORIGIN   -100000
      Z SCALE   10000
      M ORIGIN   -100000
      M SCALE   10000
      XY TOLERANCE   0.001
      Z TOLERANCE   0.001

M TOLERANCE   0.001
HIGH PRECISION   true
LATEST WELL-KNOWN IDENTIFIER   3857
WELL-KNOWN TEXT
PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_ 1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree", 0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER["False_Easting",0.0],P ARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER["Standard_Parallel_ 1",0.0],PARAMETER["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER
  VALUE   2264
  * CODESPACE   EPSG
  * VERSION   8.8(9.3.1.2)

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR   ►
  * LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

  GEOMETRIC OBJECTS
    FEATURE CLASS NAME   TransportationLinksUS74
    * OBJECT TYPE   composite
    * OBJECT COUNT   9056

  Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ►
  FEATURE CLASS NAME   TransportationLinksUS74
    * FEATURE TYPE   Simple
    * GEOMETRY TYPE   Polyline
    * HAS TOPOLOGY   FALSE
    * FEATURE COUNT   9056
    * 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 OMISSION   ►
  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   2019-01-01   00:00:00
  PUBLICATION DATE   2019-08-28   00:00:00

  Hide Product specification ▲

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY   ▶
  MEASURE DESCRIPTION
    The 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   2019-01-01   00:00:00
  PUBLICATION DATE   2019-08-28   00:00:00

  Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY   ▶
  MEASURE DESCRIPTION
    QC of this layer was carried out throughout the process of simulation with a primary focus on AADT Review. AADT is a key parameter in the simulation as it is used to estimate the total disrupted trips from hazards like flood and excess heat. AADT was allocated to the simplified road network from a query of the NC statewide AADT layer. Automated checks of the AADT were conducted using City Simulator tools to find locations of unexpectedly low or high AADT relative to joined segments in the nearby network. Also, manual spot-checks of the AADT were carried out. Finally, initial review of the results of the simulation revealed unexpectedly high/low disruption, where evaluated in terms of misallocation of AADT.

CONFORMANCE TEST RESULTS
  TEST PASSED   Yes
  RESULT EXPLANATION

Pass

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT
NCDOT provided the NCRoutes, NCRouteArcs, and NCRouteCharacteristics geodatabases for preparation of this layer. The TransportationLinks layer was derived through a series of steps that simplify the road network while maintaining sufficient detail to conduct the simulation. For example, many divided highways were merged into a single line, while many local roads were filtered out to reduce the complexity of the network. The process for doing this simplification is described in the final US74 report. Please refer to it for more detail.

PROCESS STEP ▶
DESCRIPTION
Data was reviewed in ESRI's Data Reviewer tool to verify geometry.

PROCESS CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ▶
PHONE
VOICE 919-707-6146

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
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Hide Contact information ▲

Hide Process step ▲

PROCESS STEP ►
DESCRIPTION
Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

PROCESS CONTACT
ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   originator

CONTACT INFORMATION   ►
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VOICE   919-707-6146

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Hide Contact information ▲

Hide Process step ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR   ►
CONTACT INFORMATION
ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   distributor

CONTACT INFORMATION   ►
PHONE
VOICE   919-707-6146

ADDRESS
TYPE

CITY   Raleigh
ADMINISTRATIVE AREA   NC
POSTAL CODE   27610
COUNTRY   US
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
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Hide Contact information ▲

Hide Distributor ▲

DISTRIBUTION FORMAT
  * NAME   File Geodatabase Feature Class
  VERSION   10.5

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT TransportationLinksUS74 ▶
  * TYPE   Feature Class
  * ROW COUNT   9056
  DEFINITION
      Critical facilities that are most at risk of being cut off from access through the transportation system

  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.

Hide Field OBJECTID ▲

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 FromNODE ▶
* ALIAS   FROM_NODE
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    ID of the from node at the start of the link.

DESCRIPTION SOURCE
    NCDOT

Hide Field FromNODE ▲

FIELD ToNODE ▶
* ALIAS   TO_NODE
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    ID of the to node at the end of the link.

DESCRIPTION SOURCE
    NCDOT

Hide Field ToNODE ▲

FIELD FNodeX ▶
* ALIAS   FNodeX
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0

FIELD DESCRIPTION
Web Mercator X value of the from node.

DESCRIPTION SOURCE
NCDOT

Hide Field FNodeX ▲

FIELD **FNodeY** ►
* ALIAS   FNodeY
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Web Mercator Y value of the from node.

DESCRIPTION SOURCE
NCDOT

Hide Field FNodeY ▲

FIELD **TNodeX** ►
* ALIAS   TNodeX
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Web Mercator X value of the to node.

DESCRIPTION SOURCE
NCDOT

Hide Field TNodeX ▲

FIELD **TNodeY** ►
* ALIAS   TNodeY
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Web Mercator Y value of the to node.

DESCRIPTION SOURCE
NCDOT

Hide Field TNodeY ▲

FIELD **NumTrips** ►
* ALIAS   NumTrips
* DATA TYPE   Double
* WIDTH   8

* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  Number of trips taken in simulation on road segment. Used by City Simulator to map road usage in results page.

DESCRIPTION SOURCE
  NCDOT

Hide Field NumTrips ▲

FIELD Congestion ►
* ALIAS   Congestion
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  Congestion rate. Calculated by City Simulator to map road congestion rates. Defined as number of trips per lane during rush hour. Assumes rush hour lasts 2 hours and all trips are taken uniformly over rush hour, and that 920 vehicles per hour is the acceptable limit (FDOT, Arterial Acceptable Limit, 2013)

DESCRIPTION SOURCE
  NCDOT

Hide Field Congestion ▲

FIELD AADT ►
* ALIAS   AADT
* DATA TYPE   Single
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  Average Annual Daily Trips. Provided by NCDOT.

DESCRIPTION SOURCE
  NCDOT

Hide Field AADT ▲

FIELD AADTTruck ►
* ALIAS   AADTTruck
* DATA TYPE   Single
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  Average Annual Daily Trips by large trucks. Provided by NCDOT.

DESCRIPTION SOURCE
  NCDOT

Hide Field AADTTruck ▲

FIELD **StreetName** ▶
* ALIAS StreetName
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Name of the street.

DESCRIPTION SOURCE
NCDOT

Hide Field StreetName ▲

FIELD **MinElev** ▶
* ALIAS MinElev
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Minimum elevation of sampled points every 30ft along the road. Calculated by City Simulator using the "ribbon" DEM provided by NCDOT.

DESCRIPTION SOURCE
NCDOT

Hide Field MinElev ▲

FIELD **MaxElev** ▶
* ALIAS MaxElev
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Maximum elevation of sampled points every 30ft along the road. Calculated by City Simulator using the "ribbon" DEM provided by NCDOT.

DESCRIPTION SOURCE
NCDOT

Hide Field MaxElev ▲

FIELD **LowPointX** ▶
* ALIAS LowPointX
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Web Mercator X value of lowest point along road segment.

DESCRIPTION SOURCE
NCDOT

Hide Field LowPointX ▲

FIELD LowPointY ►
* **ALIAS** LowPointY
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Web Mercator Y value of lowest point along road segment.

DESCRIPTION SOURCE
NCDOT

Hide Field LowPointY ▲

FIELD HighPointX ►
* **ALIAS** HighPointX
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Web Mercator X value of highest point along road segment.

DESCRIPTION SOURCE
NCDOT

Hide Field HighPointX ▲

FIELD HighPointY ►
* **ALIAS** HighPointY
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Web Mercator Y value of highest point along road segment.

DESCRIPTION SOURCE
NCDOT

Hide Field HighPointY ▲

FIELD MinElevNeighborhood ►
* **ALIAS** MinElevNeighborhood
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION

Minimum elevation of sampled points in a 30ft cirlcle around every point at 30ft interval along the
road. Aims to find locations for pooling along sides of road.

DESCRIPTION SOURCE
    NCDOT

Hide Field MinElevNeighborhood ▲

FIELD LowPointXNeighborhood ▶
* ALIAS LowPointXNeighborhood
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    Web Mercator X value of lowest point in road neighborhood.

DESCRIPTION SOURCE
    NCDOT

Hide Field LowPointXNeighborhood ▲

FIELD LowPointYNeighborhood ▶
* ALIAS LowPointYNeighborhood
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    Web Mercator Y value of lowest point in road neighborhood.

DESCRIPTION SOURCE
    NCDOT

Hide Field LowPointYNeighborhood ▲

FIELD FindElevation ▶
* ALIAS FindElevation
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    Zero or One flag used to determine if elevation finding routines in City Simulator will work on this
    road segment.

DESCRIPTION SOURCE
    NCDOT

Hide Field FindElevation ▲

FIELD IsMainCorridorRoad ▶
* ALIAS IsMainCorridorRoad
* DATA TYPE SmallInteger

* WIDTH   2
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Zero or One flag used to designate if the road segment is in the main corridor.

DESCRIPTION SOURCE
    NCDOT

   Hide Field IsMainCorridorRoad ▲

FIELD AADTTest ►
  * ALIAS   AADT_Test
  * DATA TYPE   Double
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    Temporary field to store AADT estimates.

  DESCRIPTION SOURCE
    NCDOT

   Hide Field AADTTest ▲

FIELD AADTOld ►
  * ALIAS   AADTOld
  * DATA TYPE   Double
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    Archive field to store obsolete AADT estimates.

  DESCRIPTION SOURCE
    NCDOT

   Hide Field AADTOld ▲

FIELD RouteClass ►
  * ALIAS   RouteClass
  * DATA TYPE   SmallInteger
  * WIDTH   2
  * PRECISION   0
  * SCALE   0
  DESCRIPTION SOURCE
    NCDOT

   Hide Field RouteClass ▲

FIELD DisruptedByTide ►

* **ALIAS** DisruptedByTide
  * **DATA TYPE** SmallInteger
  * **WIDTH** 2
  * **PRECISION** 0
  * **SCALE** 0
  FIELD DESCRIPTION
     Zero of One flag used to quickly show road segments disrupted by tide.

  DESCRIPTION SOURCE
     NCDOT

  Hide Field DisruptedByTide ▲

FIELD TdAA20212025 ▶
  * **ALIAS** TdAA20212025
  * **DATA TYPE** Integer
  * **WIDTH** 4
  * **PRECISION** 0
  * **SCALE** 0
  FIELD DESCRIPTION
     Trips disrupted, average annual, for the 2021-2025 five-year period. Note that this field was replaced
     by TD_AA_Total fields.

  DESCRIPTION SOURCE
     NCDOT

  Hide Field TdAA20212025 ▲

FIELD TdAA205559 ▶
  * **ALIAS** TdAA205559
  * **DATA TYPE** Integer
  * **WIDTH** 4
  * **PRECISION** 0
  * **SCALE** 0
  FIELD DESCRIPTION
     Trips disrupted, average annual, for the 2055-2059 five-year period. Note that this field was replaced
     by TD_AA_Total fields.

  DESCRIPTION SOURCE
     NCDOT

  Hide Field TdAA205559 ▲

FIELD TdAAFlood20212025 ▶
  * **ALIAS** TdAAFlood20212025
  * **DATA TYPE** Integer
  * **WIDTH** 4
  * **PRECISION** 0
  * **SCALE** 0
  FIELD DESCRIPTION
     Trips disrupted due to flood, average annual, for the 2021-2025 five-year period.

  DESCRIPTION SOURCE
     NCDOT

  Hide Field TdAAFlood20212025 ▲

FIELD **TdAAFlood205559** ►
* ALIAS TdAAFlood205559
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Trips disrupted due to flood, average annual, for the 2055-2059 five-year period.

DESCRIPTION SOURCE
  NCDOT

Hide Field TdAAFlood205559 ▲

FIELD **TdAAHeat202125** ►
* ALIAS TdAAHeat202125
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Trips disrupted due to heat, average annual, for the 2021-2025 five-year period.

DESCRIPTION SOURCE
  NCDOT

Hide Field TdAAHeat202125 ▲

FIELD **TdAAHeat205559** ►
* ALIAS TdAAHeat205559
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Trips disrupted due to heat, average annual, for the 2055-2059 five-year period.

DESCRIPTION SOURCE
  NCDOT

Hide Field TdAAHeat205559 ▲

FIELD **TdAATotal205559** ►
* ALIAS TdAATotal205559
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Trips disrupted total, average annual, for the 2021-2025 five-year period.

DESCRIPTION SOURCE
  NCDOT

Hide Field TdAATotal205559 ▲

FIELD TdAATotal202125 ▶
* ALIAS   TdAATotal202125
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Trips disrupted total, average annual, for the 2055-2059 five-year period.

DESCRIPTION SOURCE
   NCDOT

Hide Field TdAATotal202125 ▲

FIELD TdAATide202125 ▶
* ALIAS   TdAATide202125
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Trips disrupted due to tide, average annual, for the 2021-2025 five-year period.

DESCRIPTION SOURCE
   NCDOT

Hide Field TdAATide202125 ▲

FIELD TdAATide205559 ▶
* ALIAS   TdAATide205559
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Trips disrupted due to tide, average annual, for the 2055-2059 five-year period.

DESCRIPTION SOURCE
   NCDOT

Hide Field TdAATide205559 ▲

FIELD MakeMegabuilding ▶
* ALIAS   MakeMegabuilding
* DATA TYPE   SmallInteger
* WIDTH   2
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Indicates whether or not for City Simulator to generate a megabuilding for this road segment

DESCRIPTION SOURCE

NCDOT

FIELD FromNodeToNode ▶
* ALIAS   FromNodeToNode
* DATA TYPE   String
* WIDTH   50
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    The two node IDs which each transportation link connects to

DESCRIPTION SOURCE
    NCDOT

FIELD InAccessRankDivision ▶
* ALIAS   InAccessRankDivision
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Rank of transportation link by accessibility within each division

DESCRIPTION SOURCE
    NCDOT

FIELD InAccessRankCounty ▶
* ALIAS   InAccessRankCounty
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Rank of transportation link by accessibility within each county

DESCRIPTION SOURCE
    NCDOT

FIELD InAccessRankDivisionDAPop ▶
* ALIAS   InAccessRankDivisionDAPop
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION

Rank of transportation link by accessibility within each division specifically for disadvantaged populations

DESCRIPTION SOURCE
NCDOT

Hide Field InAccessRankDivisionDAPop ▲

FIELD InAccessRankCountyDAPop ►
* ALIAS   InAccessRankCountyDAPop
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Rank of transportation link by accessibility within each county specifically for disadvantaged populations

DESCRIPTION SOURCE
NCDOT

Hide Field InAccessRankCountyDAPop ▲

FIELD IsDisadvantagedPop ►
* ALIAS   IsDisadvantagedPop
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Identifier that a link intersects a census block identified as disadvantaged population

DESCRIPTION SOURCE
NCDOT

Hide Field IsDisadvantagedPop ▲

FIELD Field ►
* ALIAS   Field
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
DESCRIPTION SOURCE
NCDOT

Hide Field Field ▲

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 TransportationLinksUS74 ▲

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   2024-09-17

ARCGIS METADATA PROPERTIES
  METADATA FORMAT   ArcGIS 1.0
  METADATA STYLE   ISO 19139 Metadata Implementation Specification
  STANDARD OR PROFILE USED TO EDIT METADATA   ISO19139

  CREATED IN ARCGIS FOR THE ITEM   2024-08-01   16:54:10
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2024-09-17   00:36:17

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2024-09-17   00:36:17

  ITEM LOCATION HISTORY
    ITEM COPIED OR MOVED   2015-10-27   11:07:50
      FROM   G:\Data\DR\roads\roads
      TO   \\FUSDVA1000\ATG\Data\DR\roads

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
  ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
  CONTACT'S POSITION   Environmental Program Consultant
  CONTACT'S ROLE   point of contact

    CONTACT INFORMATION   ►
      PHONE

ADDRESS
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
CITY   Raleigh
ADMINISTRATIVE AREA   NC
POSTAL CODE   27610
COUNTRY   US
E-MAIL ADDRESS   ATLAS@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 ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY   not planned

OTHER MAINTENANCE REQUIREMENTS
Updates are not planned unless the US 74 Resiliency Study is re-evaluated with new data. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Hide Metadata Maintenance ▲

Metadata Constraints ►

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

LIMITATIONS OF USE
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qualified professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Hide Metadata Constraints ▲