Critical Facilities 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

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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Extent

West -80.845807   **East** -77.750574
North 35.141253   **South** 34.089653

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   location, planningCadastre, transportation, society, structure, utilitiesCommunication

* CONTENT TYPE   Downloadable Data
   EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION   No

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
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   Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE   Critical Facilities 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
FGDC GEOSPATIAL PRESENTATION FORMAT   vector digital data

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   resource provider

    CONTACT INFORMATION   ►
    PHONE
      VOICE   919-707-6146

    ADDRESS
      TYPE
      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 ▲

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

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CONTACT'S ROLE   originator

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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   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

VERTICAL EXTENT
  * MINIMUM VALUE   0.000000
  * MAXIMUM VALUE   0.000000

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
      * WEST LONGITUDE   -80.845807
      * EAST LONGITUDE   -77.750574
      * NORTH LATITUDE   35.141253
      * SOUTH LATITUDE   34.089653
      * EXTENT CONTAINS THE RESOURCE   Yes

  EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE   -8999714.068000
    * EAST LONGITUDE   -8655154.335600
    * SOUTH LATITUDE   4040846.595700
    * NORTH LATITUDE   4183093.469400
    * 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 ▶

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.

MAINTENANCE 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 Maintenance ▲

Resource Constraints ▶

LEGAL CONSTRAINTS
LIMITATIONS OF USE
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in this data.

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

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  LIMITATIONS OF USE

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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],PARAMETER["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   CriticalFacilitiesUS74
    * OBJECT TYPE   point
    * OBJECT COUNT   1112

    Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
  FEATURE CLASS NAME   CriticalFacilitiesUS74
    * FEATURE TYPE   Simple
    * GEOMETRY TYPE   Point
    * HAS TOPOLOGY   FALSE
    * FEATURE COUNT   1112
    * SPATIAL INDEX   TRUE
    * LINEAR REFERENCING   TRUE

    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

• Reviewing charts and maps of the critical facilities that showed the service area of each facility, delineating flooding impacts and transportation disruption. These charts and maps helped to quickly spot discrepancies.
• Reviewing flood hotspot results: where flooding occurred in unexpected places in the critical facility service area – or did not occur in expected places – the attributes were reviewed carefully to ensure reasonable results. The NCDOT TIMS dataset was also used as a post-check to verify if flooding simulated is actually experienced.
• Reviewing overall corridor results: comparing total disruptions to remoteness redundancy and overtopping risk to ensure individual attributes were accurate.

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 - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Point locations were downloaded for the full corridor for each of the facility types. A crosswalk was developed to aggregate Open Street map (OSM)business and occupancy types to the target categories. In addition to the OSM data, NCDOT GIS data specifying the locations of police and fire stations, emergency care, and NCDOT facility and building assets was included.

The AtkinsRéalis 2023 report will have the most details, but in general these data underwent collection and extraction from Open Street Map Buildings layers.

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 ▶
PHONE
VOICE   919-707-6146

ADDRESS
TYPE
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
CITY   Raleigh
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Hide Contact information ▲

Hide Process step ▲

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

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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
DELIVERY POINT   Critical Facilities US74 Resiliency Study, August 2024 - NC Department of Transportation
CITY   Raleigh
ADMINISTRATIVE AREA   NC
POSTAL CODE   27610
COUNTRY   US
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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 CriticalFacilitiesUS74 ►
* **TYPE** Feature Class
* **ROW COUNT** 1112
DEFINITION
Critical facilities that are most at risk of being cut off from access through the transportation system

DEFINITION SOURCE
NCDOT

FIELD OBJECTID_1 ►
* **ALIAS** OBJECTID_1
* **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_1 ▲

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 Lon ▶
  * ALIAS   Lon
  * DATA TYPE   Single
  * WIDTH   4
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    Longitude of the point

  DESCRIPTION SOURCE
    NCDOT

  Hide Field Lon ▲

FIELD Lat ▶
  * ALIAS   Lat
  * DATA TYPE   Single
  * WIDTH   4
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    Latitude of the point

  DESCRIPTION SOURCE
    NCDOT

  Hide Field Lat ▲

FIELD LnkGmap ▶
  ALIAS   LnkGmap
  * DATA TYPE   String
  * WIDTH   254
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    Google Maps Link to the latitude/longitude

  DESCRIPTION SOURCE
    NCDOT

  Hide Field LnkGmap ▲

FIELD Name ▶
  * ALIAS   Name
  * DATA TYPE   String

* **WIDTH**   254
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
  Name of the Facility when the record came from NCDOT Lands

DESCRIPTION SOURCE
  NCDOT

Hide Field Name ▲

FIELD **Address** ▶
* **ALIAS**   Address
* **DATA TYPE**   String
* **WIDTH**   254
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
  Address of the facility

DESCRIPTION SOURCE
  NCDOT

Hide Field Address ▲

FIELD **City** ▶
* **ALIAS**   City
* **DATA TYPE**   String
* **WIDTH**   254
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
  City

DESCRIPTION SOURCE
  NCDOT

Hide Field City ▲

FIELD **County** ▶
* **ALIAS**   County
* **DATA TYPE**   String
* **WIDTH**   254
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
  County

DESCRIPTION SOURCE
  NCDOT

Hide Field County ▲

FIELD **Shape__Are** ▶
* **ALIAS**   Shape__Are

* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0

Hide Field Shape___Are ▲

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

Hide Field Shape___Len ▲

FIELD CritFacTyp ▶
* **ALIAS** CriticalFacilityType
* **DATA TYPE** String
* **WIDTH** 255
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
   Created during merge of critical facilities to differentiate by type

DESCRIPTION SOURCE
   NCDOT

Hide Field CritFacTyp ▲

FIELD AssetNo ▶
* **ALIAS** AssetNo
* **DATA TYPE** String
* **WIDTH** 50
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
   Asset Number

DESCRIPTION SOURCE
   NCDOT

Hide Field AssetNo ▲

FIELD DivNo ▶
* **ALIAS** DivNo
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
   Division Number

DESCRIPTION SOURCE

NCDOT

Hide Field DivNo ▲

FIELD CountyNo ▶
* **ALIAS**   CountyNo
* **DATA TYPE**   Double
* **WIDTH**   8
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
County Number based upon FIPS code

DESCRIPTION SOURCE
NCDOT

Hide Field CountyNo ▲

FIELD ComplexNo ▶
* **ALIAS**   ComplexNo
* **DATA TYPE**   Double
* **WIDTH**   8
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
Building Complex Number

DESCRIPTION SOURCE
NCDOT

Hide Field ComplexNo ▲

FIELD BuildingNo ▶
* **ALIAS**   BuildingNo
* **DATA TYPE**   Double
* **WIDTH**   8
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
Building Number

DESCRIPTION SOURCE
NCDOT

Hide Field BuildingNo ▲

FIELD DivName ▶
* **ALIAS**   DivName
* **DATA TYPE**   String
* **WIDTH**   254
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
Division Name

DESCRIPTION SOURCE
   NCDOT

Hide Field DivName ▲

FIELD ConsYear ▶
   * ALIAS   ConsYear
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Construction Year

DESCRIPTION SOURCE
   NCDOT

Hide Field ConsYear ▲

FIELD Buildings ▶
   * ALIAS   Buildings
   * DATA TYPE   String
   * WIDTH   10000
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      List of buildings (Building Object IDs) that are served by this critical facility

DESCRIPTION SOURCE
   NCDOT

Hide Field Buildings ▲

FIELD BuildInSA ▶
   * ALIAS   BuildingsInServiceArea
   * DATA TYPE   Integer
   * WIDTH   4
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Number of buildings in critical facility service area

DESCRIPTION SOURCE
   NCDOT

Hide Field BuildInSA ▲

FIELD BuildInSS ▶
   * ALIAS   BuildingsInServiceSize
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION

Number of residents of buildings in critical facility service area

DESCRIPTION SOURCE
NCDOT

Hide Field BuildInSS ▲

FIELD ServHH ►
ALIAS ServiceHouseHolds
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Number of residents of buildings in critical facility service area (initial estimate)

DESCRIPTION SOURCE
NCDOT

Hide Field ServHH ▲

FIELD RoadLen ►
ALIAS RoadLength
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Length of road in service area

DESCRIPTION SOURCE
NCDOT

Hide Field RoadLen ▲

FIELD SWNodes ►
* ALIAS SWNodes
* DATA TYPE String
* WIDTH 25000
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
List of stormwater nodes (by Object ID) within the critical facility service area that have known flooding.

DESCRIPTION SOURCE
NCDOT

Hide Field SWNodes ▲

FIELD TransLinks ►
ALIAS TransportLinks
* DATA TYPE String
* WIDTH 25000

* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    List of road segments (TransportLink Object IDs) that are served by this critical facility

DESCRIPTION SOURCE
    NCDOT

   Hide Field TransLinks ▲

FIELD AvgRdLen ▶
ALIAS   AvgRoadLength
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Average road length of roads in service area (ft)

DESCRIPTION SOURCE
    NCDOT

   Hide Field AvgRdLen ▲

FIELD NumRoads ▶
* ALIAS   NumRoads
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Number of roads segments in service area

DESCRIPTION SOURCE
    NCDOT

   Hide Field NumRoads ▲

FIELD CFInaccesIndex ▶
* ALIAS   CFInaccesIndex
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Critical Facility Inaccessibility Index - (total road length / num road segments) * (average overtopping depth / 10) for all roads in service area

DESCRIPTION SOURCE
    NCDOT

   Hide Field CFInaccesIndex ▲

FIELD AvgMaxOTDepth2 ▶
* ALIAS   AvgMaxOTDepth2

* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Average max overtopping depth of flooded location on road segments in service area

DESCRIPTION SOURCE
    NCDOT

Hide Field AvgMaxOTDepth2 ▲

FIELD CloseOTDepth ►
* ALIAS   CloseOTDepth
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Average overtopping depth of assets close to the critical facility (within 500m)

DESCRIPTION SOURCE
    NCDOT

Hide Field CloseOTDepth ▲

FIELD RemoRed ►
ALIAS   RemotenessRedundancy
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    RemotenessRedundancy Index - Density of roads in the service area (road ft per sq dec. deg.)

DESCRIPTION SOURCE
    NCDOT

Hide Field RemoRed ▲

FIELD RemRedCat ►
* ALIAS   RemRedCategory
* DATA TYPE   SmallInteger
* WIDTH   2
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Normalized Remoteness Redundancy Index - remoteness redundancy index categorized to be 1 - 10, where 10 is highest remoteness.

DESCRIPTION SOURCE
    NCDOT

Hide Field RemRedCat ▲

FIELD InaccessIndexCat ▶

ALIAS InaccessibilityIndexCategory
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
   Normalized Inaccessibility Index within the category of critical facility type - Critical facility
   inaccessibility index categorized from 1-10, where 10 is highly inaccessible.

DESCRIPTION SOURCE
   NCDOT

Hide Field InaccessIndexCat ▲

FIELD OvrtpRisk ▶

ALIAS OvertoppingRisk
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
   Normalized Overtopping Risk Index - close overtopping depth normalized to 1 - 10, where 10 is
   highest overtopping risk.

DESCRIPTION SOURCE
   NCDOT

Hide Field OvrtpRisk ▲

FIELD InaccessIndex ▶

ALIAS InaccessibilityIndex
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
   Normalized Inaccessibility Index overall - Critical facility inaccessibility index categorized from 1-10,
   where 10 is highly inaccessible.

DESCRIPTION SOURCE
   NCDOT

Hide Field InaccessIndex ▲

Hide Details for object CriticalFacilitiesUS74 ▲

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   2024-09-16

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   16:46:27
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2024-09-16   23:24:15

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2024-09-16   22:48:46

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
      VOICE   919-707-6146

    ADDRESS
      TYPE
      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.

MAINTENANCE 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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Hide Contact information ▲

Hide Metadata Maintenance ▲

Metadata Constraints   ▶

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

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Hide Metadata Constraints ▲