Stormwater Node US74 Resiliency Study, August 2024 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Simulator, Stormwater, Node, 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 represents points identified as potentially vulnerable to flooding 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 StormwaterNodeUS74 ResiliencyStudy layer is a points layer that represents the location of all stormwater tracking points limited to a corridor surrounding US74 between Charlotte NC and Wilmington NC. These are point identified as potentially vulnerable to flooding. Locations include the intersection of culverts and pipes with the transportation network, bridges over water, and low points in each road segment in the network. There were 3,262 bridge, culvert, and pipe assets that were cost-modeled in the study. Additionally, there were 766 flood-prone road points modeled. This gave a total of 4,028 stormwater tracking points. The asset data was provided by the NCDOT from their GIS-based National Bridge Inventory System (NBIS) and non-NBIS databases. For the simulation, assets only above 54 inches in diameter were considered. Note that while flood modeling was included for all tracking points, cost modeling was only done for water-crossing transporting assets (culverts, bridges, and pipes). Road maintenance and installation costs were not modeled. The various assets went through condition decay and forecasted maintenance events during the model prediction cycle so that scenarios evaluating the overall cost of infrastructure improvements could be considered and compared.

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 predecisional.

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

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Extent

 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 EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION NO

PLACE KEYWORDS North Carolina

 THESAURUS
 TITLE

 TITLE
 User

 CREATION DATE
 2024-04-24
 00:00:00

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

Hide Thesaurus

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

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Hide Thesaurus

Hide Topics and Keywords

Citation **>**

TITLE Stormwater Node 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 originator

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 resource provider

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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 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 **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.

ARCGIS ITEM PROPERTIES

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 -80.847737 * EAST LONGITUDE -77.745222 * NORTH LATITUDE 35.242473 * SOUTH LATITUDE 34.090973 * EXTENT CONTAINS THE RESOURCE YES

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE -8999928.882300
- * EAST LONGITUDE -8654558.473600
- * SOUTH LATITUDE 4041024.033300
- * NORTH LATITUDE 4196881.267900
- * 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 PHONE VOICE 919-707-6146

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Hide Contact information **A**

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.

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 Resource Maintenance

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION UNCLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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CONSTRAINTS 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 MORIGIN -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 🕨

GEOMETRIC OBJECTS FEATURE CLASS NAME StormwaterNodeUS74

- * OBJECT TYPE composite
- * OBJECT COUNT 4718

Hide Vector

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME StormwaterNodeUS74

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 4718
- * 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

In general, QC was accomplished through a combination of:

• Reviewing charts of the stormwater nodes that showed the flood elevations superimposed on a profile (elevation drawing) of the structure including the top of deck and bed elevation. These charts helped to quickly spot discrepancies.

• Reviewing flood hotspot results: where flooding occurred in unexpected places – 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 cost to maintain the corridor to historical total cost helped 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 **A**

Hide Data quality report - Quantitative attribute accuracy

Hide Data Quality 🔺



LINEAGE STATEMENT

This layer contains locations that include the intersection of culverts and pipes with the transportation network, bridges over water, and low points in each road segment in the network. The data were imported into the City Simulator geodatabase primarily from the NCDOTStructureLocations layer provided by NCDOT at the start of the project. This layer contained all pipes, bridges, and culverts in the system. To find road low points, AtkinsRéalis used the City Simulator "find low road locations" tool (described in the final US74 report). Key attributes for each data point were added to prepare for simulation. These included:

• Top of the road deck elevation and the bed elevation: The top of road deck was estimated by using the so-called "ribbon," which is a digital elevation model providing elevations only for roadways in the NC system. This was provided by NCDOT. Bed elevations were estimated using a corridor-wide DEM as described in the final report.

• Replacement Cost: This was used in the lifecycle cost simulation portion of the simulation. The replacement costs estimates were derived from bid estimates for culverts and from SAP database estimates for bridges, using a custom query developed by NCDOT staff.

The AtkinsRéalis 2023 report will have the most details, but in general these data underwent collection and extraction from NCDOT NBIS and non-NBIS datasets, a cross walk of condition categorization between the two, modeling of condition decay, and modeling of maintenance requirements using different weather forecasting over the simulation period.

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

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

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Hide Contact information

Hide 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

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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 Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov
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Hide Contact information **A**

Hide Distributor

```
DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5
```

Hide Distribution **A**

Fields **>**

```
DETAILS FOR OBJECT StormwaterNodeUS74 
* Type Feature Class
```

* Row COUNT 4718

DEFINITION

Points identified as potentially vulnerable to flooding

DEFINITION SOURCE

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 SWID ▶
* ALIAS SWID
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Unique stormwater ID assigned by City Simulator.
DESCRIPTION SOURCE
NCDOT
Hide Field SWID ▲

FIELD Type ▶
* ALIAS Type
* DATA TYPE String
```

- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Type of stormwater feature - can be either stormwater tracking node or stormwater control node.

DESCRIPTION SOURCE

Hide Field Type ▲

FIELD ReplacementCost

- * ALIAS ReplacementCost
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Cost to replace the asset in base year dollars. Calculated in various ways on a study-by-study basis.

DESCRIPTION SOURCE

Hide Field ReplacementCost ▲

FIELD DateInstalled ►

- * ALIAS DateInstalled
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Date asset was first installed.

DESCRIPTION SOURCE

Hide Field DateInstalled

FIELD Description ►

- * ALIAS Description
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Text description of the asset.

DESCRIPTION SOURCE

Hide Field Description

FIELD DecayParameters ►

- * ALIAS DecayParameters
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

A text blob describing the type of decay model and parameters for that model.

DESCRIPTION SOURCE

Hide Field DecayParameters

FIELD RelatedRoadID ►

- * ALIAS RelatedRoadID
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

OID of the transportationLink that the asset is related to.

DESCRIPTION SOURCE

FIELD OvertopCurve

- * ALIAS OvertopCurve
- * DATA TYPE String
- * WIDTH 1028

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

A text blob that contains a series of triplets of return period, rain depth, and flood depth. Collectively describes the riverine flood response to rain events of set probabilities.

DESCRIPTION SOURCE

Hide Field OvertopCurve ▲

FIELD SubType ►

- * ALIAS SubType
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Works with the Type attribute. Further specifies the type of asset (eg. culvert, bridge, pipe).

DESCRIPTION SOURCE

Hide Field SubType ▲

FIELD SourceID ►

- * ALIAS SourceID
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

An alphanumeric ID that is used in the database(s) provided by the data source.

DESCRIPTION SOURCE

Hide Field SourceID

FIELD BaseYearCondition

- * ALIAS BaseYearCondition
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

The condition rating of the asset in the base year of the simulation run. Typically Good, Fair, Poor, Failing (or some other scheme defined by the source agency).

DESCRIPTION SOURCE

Hide Field BaseYearCondition ▲

FIELD LifeSpan

- * ALIAS LifeSpan
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Number of years the asset is expected to operate before replacement.

DESCRIPTION SOURCE

NCDOT

Hide Field LifeSpan ▲

FIELD PipeType

- * ALIAS PipeType
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

For culvert/pipe assets, this specifies the pipe material.

DESCRIPTION SOURCE

Hide Field PipeType ▲

FIELD PipeLength ►

- * ALIAS PipeLength
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

For culvert/pipe assets, this specifies the pipe length.

DESCRIPTION SOURCE

Hide Field PipeLength ▲

FIELD PipeDiameter

- * ALIAS PipeDiameter
- * DATA TYPE Double
- * WIDTH 8

 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION For culvert/pipe assets, this specifies the pipe diameter.
 DESCRIPTION SOURCE NCDOT

Hide Field PipeDiameter

FIELD BarrelHeight ►

- * ALIAS BarrelHeight
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

For culvert assets, this specifies the barrel height.

DESCRIPTION SOURCE

Hide Field BarrelHeight

FIELD BarrelWidth ►

- * ALIAS BarrelWidth
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

For culvert assets, this specifies the barrel width.

DESCRIPTION SOURCE

Hide Field BarrelWidth ▲

FIELD HydraulicOpeningSqFt >

- * ALIAS HydraulicOpeningSqFt
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
 - Area of flow for a culvert/pipe asset, manually calculated from the diameter and/or barrel height and width.

DESCRIPTION SOURCE

NCDOT

Hide Field HydraulicOpeningSqFt 🔺

* DATA TYPE String * WIDTH 255 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Specifies the group of assets this asset belongs to. **DESCRIPTION SOURCE** NCDOT Hide Field SuperStructure FIELD SubStructure * ALIAS SubStructure * DATA TYPE String * WIDTH 255 * PRECISION 0 * SCALE 0 Hide Field SubStructure FIELD BridgeDeckArea 🕨 * ALIAS BridgeDeckArea * DATA TYPE Double * WIDTH 8 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION For bridges, the area of the deck in square feet. **DESCRIPTION SOURCE** NCDOT Hide Field BridgeDeckArea FIELD MajorRefurbishmentSpan * ALIAS MajorRefurbSpan * DATA TYPE Double * WIDTH 8 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Number of years between major refurbishments **DESCRIPTION SOURCE** NCDOT Hide Field MajorRefurbishmentSpan

FIELD MinorRefurbishmentSpan

- * ALIAS MinorRefurbSpan
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0

* SCALE 0 FIELD DESCRIPTION Number of years between minor refurbishments

DESCRIPTION SOURCE

Hide Field MinorRefurbishmentSpan

FIELD DeckElevation ►

- * ALIAS DeckElevation
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Elevation of the deck in feet.

DESCRIPTION SOURCE

Hide Field DeckElevation

FIELD MaxOTDepth

- * ALIAS MaxOTDepth
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Maximum overtopping depth from riverine flood model (ft) - calculated by City Sim.

DESCRIPTION SOURCE

Hide Field MaxOTDepth

FIELD MaxOTDepthPluvial

- * ALIAS MaxOTDepthPluvial
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Maximum overtopping depth from pluvial flood model (ft) - calculated by City Sim.

DESCRIPTION SOURCE

Hide Field MaxOTDepthPluvial

FIELD MaxFloodDepthOverall

- * ALIAS MaxFloodDepth_Overall
- * DATA TYPE Double
- * WIDTH 8

* PRECISION 0 * SCALE 0 FIELD DESCRIPTION Maximum flood depth from any model (ft) - calculated by City Sim.

DESCRIPTION SOURCE

Hide Field MaxFloodDepthOverall

FIELD HydraulicDeckWidth ►

- * ALIAS BridgeDeckWidth
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Width of the bridge deck (ft) that conveys water - ie. in direction of flow, approach not included.

DESCRIPTION SOURCE

Hide Field HydraulicDeckWidth

FIELD HydraulicLength ►

- * ALIAS BridgeLength
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Length of the bridge deck (ft) that conveys water - ie. across direction of flow, approach not included.

DESCRIPTION SOURCE

Hide Field HydraulicLength

FIELD HydDeckWidthUsed ►

- * ALIAS HydDeckWidthUsed
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Width used to calculate the bridge deck area - used to record final value used, if width parameter is subject to change.

DESCRIPTION SOURCE

NCDOT

Hide Field HydDeckWidthUsed

FIELD NumBarrels
* ALIAS NumBarrels

* DATA TYPE SmallInteger * WIDTH 2 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION For culverts/pipes, number of barrels/pipes included in a single asset. **DESCRIPTION SOURCE** NCDOT Hide Field NumBarrels FIELD Temp * ALIAS Temp * DATA TYPE String * WIDTH 50 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Temporary field - used for storing data temporarily. **DESCRIPTION SOURCE** NCDOT Hide Field Temp ▲ FIELD HydVolume ► * ALIAS HydVolume * DATA TYPE Single * WIDTH 4 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Calculated maximum volume asset provides for water conveyance. **DESCRIPTION SOURCE** NCDOT Hide Field HydVolume ▲ FIELD RelatedTransportLinkOID * ALIAS RelatedTransportLinkOID * DATA TYPE Integer * WIDTH 4 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION OID of the transportationLink that the asset is related to. DESCRIPTION SOURCE NCDOT

Hide Field RelatedTransportLinkOID ▲

* ALIAS AADTTemp

- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Used in manual calculations.

DESCRIPTION SOURCE

Hide Field AADTTemp

FIELD AADTTruckTemp

- * ALIAS AADTTruckTemp
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Used in manual calculations.

DESCRIPTION SOURCE

Hide Field AADTTruckTemp

FIELD AATDEst ►

- * ALIAS AATDEst
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Estimate of Average Annual Trips Disrupted - calculated by City Simulator.

DESCRIPTION SOURCE

Hide Field AATDEst

FIELD AADaysDisrupted ►

- * ALIAS AADaysDisrupted
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Estimate of Average Annual Days Disrupted - calculated by City Simulator.

DESCRIPTION SOURCE

Hide Field AADaysDisrupted

FIELD AADTTruckEst

- * ALIAS AADTTruckEst
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Populated in TransportationLinks layer.

DESCRIPTION SOURCE

Hide Field AADTTruckEst

FIELD AAFreightDisrupted

- * ALIAS AAFreightDisrupted
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Populated in TransportationLinks layer.

DESCRIPTION SOURCE

Hide Field AAFreightDisrupted

FIELD OTCurveSource ►

- * ALIAS OTCurveSource
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate riverine overtopping curve (file path).

DESCRIPTION SOURCE

Hide Field OTCurveSource

FIELD OvertopCurvePluvial ►

- * ALIAS OvertopCurvePluvial
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A text blob that contains a series of triplets of return period, rain depth, and flood depth. Collectively describes the pluvial flood response to rain events of set probabilities. Typically source is Atkins Pluvial Model Run.

DESCRIPTION SOURCE NCDOT

Hide Field OvertopCurvePluvial

FIELD OvertopCurvePluvialSourceFile

- * ALIAS OvertopCurvePluvialSourceFile
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate riverine overtopping curve (file path).

DESCRIPTION SOURCE

Hide Field OvertopCurvePluvialSourceFile

FIELD OvertopCurvePluvialSourceTitle

* ALIAS OvertopCurvePluvialSourceTitle

- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate riverine overtopping curve (title of model).

DESCRIPTION SOURCE

Hide Field OvertopCurvePluvialSourceTitle

FIELD QCResult ►

- * ALIAS QCResult
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Result populated by City Simulator QC algorithm when it is run, primarily targeted at checking flood response curves.

DESCRIPTION SOURCE

Hide Field QCResult

FIELD RegionalPrecipitationAdjustmentFactor

- * ALIAS Regional Precipitation Adjustment Factor
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Used to adjust rain totals across a large region - calculated with tools in City Simulator - not typically used for small to medium sized cities.

Hide Field RegionalPrecipitationAdjustmentFactor

FIELD OvertopCurveCoastal ►

- * ALIAS OvertopCurveCoastal
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

A text blob that contains a series of triplets of return period, rain depth, and flood depth. Collectively describes the coastal flood response to rain events of set probabilities. Typically source is a hydrodynamic surge model.

DESCRIPTION SOURCE

NCDOT

Hide Field OvertopCurveCoastal

FIELD OvertopCurveCoastalSourceFile

* ALIAS OvertopCurveCoastalSourceFile

- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate coastal overtopping curve (file path).

DESCRIPTION SOURCE

Hide Field OvertopCurveCoastalSourceFile

FIELD OvertopCurveCoastalSourceTitle

- * ALIAS OvertopCurveCoastalSourceTitle
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate coastal overtopping curve (title of model).

DESCRIPTION SOURCE

Hide Field OvertopCurveCoastalSourceTitle

FIELD OvertopCurveROG ►

- * ALIAS OvertopCurveROG
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0

* SCALE 0

FIELD DESCRIPTION

A text blob that contains a series of triplets of return period, rain depth, and flood depth. Collectively describes the Rain on Grid flood response to rain events of set probabilities. Typically source is a HECRAS 2D model.

DESCRIPTION SOURCE

Hide Field OvertopCurveROG

FIELD OvertopCurveROGSourceFile

- * ALIAS OvertopCurveROGSourceFile
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate rain on grid overtopping curve (file path).

DESCRIPTION SOURCE

NCDOT

Hide Field OvertopCurveROGSourceFile

FIELD OvertopCurveROGSourceTitle

- * ALIAS OvertopCurveROGSourceTitle
- * DATA TYPE String
- * WIDTH 1024
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Specifies model or model set used to estimate rain on grid overtopping curve (title of model).

DESCRIPTION SOURCE

Hide Field OvertopCurveROGSourceTitle

FIELD MaxOTDepthCoastal

- * ALIAS MaxOTDepthCoastal
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Maximum flood depth over the road deck based on coastal flood model (ft).

DESCRIPTION SOURCE

Hide Field MaxOTDepthCoastal

FIELD MaxOTDepthROG ► * ALIAS MaxOTDepthROG * DATA TYPE Double

- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Maximum flood depth over the road deck based on ROG flood model (ft).

DESCRIPTION SOURCE

Hide Field MaxOTDepthROG ▲

FIELD OvertopCurveArchive ►

- * ALIAS OvertopCurveArchive
- * DATA TYPE String
- * WIDTH 2048
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Used to store obsolete riverine overtop curves.

DESCRIPTION SOURCE

Hide Field OvertopCurveArchive

FIELD OvertopCurveSourceFolder

- * ALIAS OvertopCurveSourceFolder
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Source folder/file path of archived riverine overtop curve.

DESCRIPTION SOURCE

Hide Field OvertopCurveSourceFolder

FIELD OvertopCurveSourceTitle

- * ALIAS OvertopCurveSourceTitle
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Title of archived riverine overtop curve.

DESCRIPTION SOURCE

Hide Field OvertopCurveSourceTitle

- * ALIAS OverTopCurveOnlyNonZero
- * DATA TYPE String
- * WIDTH 2048
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Riverine overtop curve with zero flooding triplets removed.

DESCRIPTION SOURCE

NCDOT

Hide Field OverTopCurveOnlyNonZero

FIELD SubAreaID ►

- * ALIAS SubAreaID
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

The OID of the sub area that the asset lies in. Typically, subareas are census block groups or traffic analysis zones (TAZ). Depends on the study.

DESCRIPTION SOURCE

Hide Field SubAreaID

FIELD ResultAATDBaserun 🕨

- * ALIAS ResultAATDBaserun
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Average annual trips disrupted by the asset in the baserun - used to compare to other scenarios.

DESCRIPTION SOURCE

Hide Field ResultAATDBaserun

FIELD DOTDivision

- * ALIAS DOTDivision
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Division Number of the division that the asset falls into.

DESCRIPTION SOURCE

Hide Field DOTDivision

FIELD ReplacementCostTIP

- * ALIAS ReplacementCostTIP
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Replacement cost as estimated in the NCDOT transportation improvement plan.

DESCRIPTION SOURCE

Hide Field ReplacementCostTIP ▲

FIELD BridgeDeckWidthFile00001

* ALIAS BridgeDeckWidthFile00001

- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Width of Bridge Deck from file provided by NCDOT.

DESCRIPTION SOURCE

Hide Field BridgeDeckWidthFile00001

FIELD BridgeDeckLengthFile00001

- * ALIAS BridgeDeckLengthFile00001
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Length of Bridge Deck from file provided by NCDOT.

DESCRIPTION SOURCE

Hide Field BridgeDeckLengthFile00001 ▲

FIELD BridgeDeckAreaFile00001

- * ALIAS BridgeDeckAreaFile00001
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Area of Bridge Deck from file provided by NCDOT.

DESCRIPTION SOURCE

FIELD ReplacementCostBasedOnFile00001 * ALIAS ReplacementCostBasedOnFile00001 * DATA TYPE Double * WIDTH 8 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Replacement Cost from file provide by NCDOT. **DESCRIPTION SOURCE** NCDOT Hide Field ReplacementCostBasedOnFile00001 FIELD Label1 * ALIAS Label1 * DATA TYPE String * WIDTH 255 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Temporary field - not used in City Simulator Runs. **DESCRIPTION SOURCE** NCDOT Hide Field Label1 ▲ FIELD SFHAplus50ft ► * ALIAS SFHAplus50ft * DATA TYPE SmallInteger * WIDTH 2 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Zero or One field indicating if the asset/tracking point is within the NFHL SFHA plus a 50ft buffer (not used in NCDOT resiliency studies) **DESCRIPTION SOURCE** NCDOT Hide Field SFHAplus50ft ▲

FIELD BedElevation ►

- * ALIAS BedElevation
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Elevation of the river/creek bed at the location of an asset (as pulled from bare earth DEM).

DESCRIPTION SOURCE

Hide Field BedElevation **A**

FIELD AATDEst2 >

- * ALIAS AATDEst2
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Copy of AATD, which is generated by City Simulator.

DESCRIPTION SOURCE

Hide Field AATDEst2

FIELD PluvialRaster100yrDepth

- * ALIAS PluvialRaster100yrDepth
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Depth of flooding for 100 year pluvial event, extracted from pluvial depth raster.

DESCRIPTION SOURCE

Hide Field PluvialRaster100yrDepth ▲

FIELD OTCurve100yearPluvial

- * ALIAS OTCurve100yearPluvial
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Overtopping curve for 100 year pluvial event; obsolete - the OvertopCurvePluvial attribute is used as of NCDOT resiliency studies

DESCRIPTION SOURCE

NCDOT

Hide Field OTCurve100yearPluvial

FIELD PluvialAdjust ►

- * ALIAS PluvialAdjust
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0

* SCALE 0 FIELD DESCRIPTION Adjustment to make to pluvial curve; Need further review

DESCRIPTION SOURCE

Hide Field PluvialAdjust

FIELD RemotenessIndex ►

- * ALIAS RemotenessIndex
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Remoteness Index of the road segment related to the asset/tracking point. The index is inversely proportional to the density of road segments in the subarea (usually census block group) in which the road segment lies.

DESCRIPTION SOURCE

NCDOT

Hide Field RemotenessIndex

FIELD TempIndex ►

- * ALIAS TempIndex
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Temporary field - not used in City Simulator Runs

DESCRIPTION SOURCE

Hide Field TempIndex

FIELD AATDRankInDivision ►

- * ALIAS AATDRankInDivision
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Numeric rank of asset/tracking point in terms of average annual trips disrupted across the division in which the asset/tracking point lies.

DESCRIPTION SOURCE

Hide Field AATDRankInDivision

* ALIAS DivisionOID * DATA TYPE SmallInteger * WIDTH 2 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION ObjectID of the division from the division boundary map. **DESCRIPTION SOURCE** NCDOT Hide Field DivisionOID FIELD IsRailCrossing * ALIAS IsRailCrossing * DATA TYPE SmallInteger * WIDTH 2 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Zero or One field indicating if the asset/tracking point is a rail crossing. DESCRIPTION SOURCE NCDOT Hide Field IsRailCrossing FIELD OnUS74 ► * ALIAS OnUS74 * DATA TYPE SmallInteger * WIDTH 2 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Zero of One field indicating if the asset/tracking point is directly on US74.

DESCRIPTION SOURCE

Hide Field OnUS74 ▲

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.

FIELD SHAPE_Area

- * ALIAS SHAPE_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE Esri

* DESCRIPTION OF VALUES Positive real numbers that are automatically generated.

Hide Field SHAPE_Area ▲

Hide Details for object StormwaterNodeUS74 ▲

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 2024-08-06 15:17:51 LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-09-17 00:43:52

AUTOMATIC UPDATES HAVE BEEN PERFORMED Yes LAST UPDATE 2024-09-17 00:43:52

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 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

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

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Hide Contact information **A**

Hide Metadata Maintenance 🔺

Metadata Constraints >

SECURITY CONSTRAINTS CLASSIFICATION Unclassified CLASSIFICATION SYSTEM None

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Hide Metadata Constraints