

NCDOT Road Inundation Points, March 2022 - NC Department of Transportation

File Geodatabase Feature Class



Tags

interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, NCDOT, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in February 2022 as part of the Project ATLAS initiative at NCDOT to support the Hydraulics Unit with project delivery in the development phase.

This dataset visualizes road flooding potential along North Carolina primary and secondary roads for various flood recurrence intervals, measured as depth levels above 0 ft (NAVD88).

Description

The NCDOT Road Inundation Points dataset is a statewide point layer containing road flooding potential along North Carolina primary and secondary roads. This is measured for various flood recurrence intervals measured as depth levels above 0 ft.

The layer is used to help understand road elevations in relation to flood events/inundation to help with planning, mitigation and emergency response. Allowing ATLAS users to understand road elevations in relation to any tasks they are working on including screenings.

The dataset comprises points every 50 feet along primary roads.

A given point location may have multiple co-located point features, each representing a different recurrence interval. It is highly recommended that users filter the dataset to display only one recurrence interval at a time. The data are structured this way to enhance performance within a web application (<https://fiman.nc.gov/About.aspx>).

Datasets developed under Project ATLAS do not replace any Hydraulics Unit field 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 within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Hydraulics Unit. 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 -84.385099 **East** -75.418397
North 36.614970 **South** 33.734997

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 boundaries, inlandWaters, location, transportation, environment

CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2022-02-08 00:00:00

PUBLICATION DATE 2022-03-31 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, NCDOT, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2022-02-08 00:00:00

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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE NCDOT Road Inundation Points, March 2022 - NC Department of Transportation

CREATION DATE 2022-02-08 00:00:00

PUBLICATION DATE 2022-03-31 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 919-707-6136

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

CONTACT INFORMATION ▶

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RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit
CONTACT'S POSITION State Hydraulics Engineer
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE
VOICE 919-707-6700

ADDRESS

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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 10.5.1.7333

CREDITS

The Hydraulics Unit within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Hydraulics Unit. 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

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
WEST LONGITUDE -84.330352
EAST LONGITUDE -75.419514
SOUTH LATITUDE 33.744722
NORTH LATITUDE 36.589925
EXTENT CONTAINS THE RESOURCE Yes

EXTENT

DESCRIPTION
Data collection is complete.

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE

WEST LONGITUDE -84.125201
EAST LONGITUDE -75.426058
SOUTH LATITUDE 33.829738
NORTH LATITUDE 36.556356
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2022-02-08 00:00:00
ENDING DATE 2022-02-08 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -84.385099
* EAST LONGITUDE -75.418397
* NORTH LATITUDE 36.614970
* SOUTH LATITUDE 33.734997
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 417683.306788
* EAST LONGITUDE 3051815.071978
* SOUTH LATITUDE 36035.924842
* NORTH LATITUDE 1042792.817164
* 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 point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The Hydraulics Unit within NCDOT was tasked to create this dataset.

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MAINTENANCE 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 ►

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

LIMITATIONS OF USE

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CONSTRAINTS

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 3048.0060960121918
Z ORIGIN -100000
Z SCALE 3048.0060960121918
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.0032808333333333331
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
VCSWKID 105703
LATESTVCSWKID 6360

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192]],VERTCS["NAVD_1988_Foot_US",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

REFERENCE SYSTEM IDENTIFIER

VALUE 2264
CODESPACE EPSG
VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME RoadInundationPoints

* OBJECT TYPE point

* OBJECT COUNT 1366702

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME RoadInundationPoints

* FEATURE TYPE Simple

* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1366702

* 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

A contractor created the layer using numerous manual and automated checks as well as QA/QC of the layers used in creation and the final product by NCDOT personnel. The original layers had gone through the normal process from NC Emergency Management to assure quality.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Points were generated every 50 feet along primary and secondary roads.

Each point was assigned a road elevation from a LiDAR-based road elevation dataset provided by NC Emergency Management.

If a road point fell within the greatest floodplain extent (100-yr or 500-yr), the water surface elevation was subtracted from the road elevation to determine whether the road flooded and, if so, to what degree.

Bridges, overpasses, and areas of open water are not included in this dataset.

Roads that were analyzed but did not have inundation impacts are not included in this dataset.

Analysis is based on NCDOT's 2021 Q2 road network and 2014-2018 LiDAR.

PROCESS STEP ►

DESCRIPTION

Personnel and interns studied the investigation documents and found the proper locations. These locations were then added to the data as coordinate fields inside of a spreadsheet. The spreadsheet points were then turned into a hosted layer using ArcGIS Online. This hosted layer was downloaded using ArcGIS Pro and imported to a GDB.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit

CONTACT'S POSITION State Hydraulics Engineer

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6700

ADDRESS

DELIVERY POINT 1000 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

The features in this dataset are linked to the Hydraulics Reservoir on the NCDOT Connect Sharepoint Site. Please contact the Hydraulics Unit for access to the associated document or any other questions related to this dataset.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Data was reviewed in ESRI's Data Reviewer tool to verify geometry. No legitimate errors were found.

PROCESS 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 919-707-6136

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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 point of contact

CONTACT INFORMATION ►

PHONE

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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 919-707-6136

ADDRESS

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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 [RoadInundationPoints](#) ►

* TYPE Feature Class
* ROW COUNT 1366702

DEFINITION

road flooding potential along North Carolina's primary and secondary roads

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 Division ►

* ALIAS division

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The NCDOT highway division number.

DESCRIPTION SOURCE

NCDOT

[Hide Field Division ▲](#)

FIELD [RouteClass ▶](#)

ALIAS **RouteClass**

* DATA TYPE **String**

* WIDTH **5**

* PRECISION **0**

* SCALE **0**

FIELD DESCRIPTION

The route classification, derived from NCDOT's NCRoutes feature class. A value of 1 is an interstate. A value of 2 is a U.S. route. A value of 3 is an NC route. Larger values are secondary routes.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE **1**

DESCRIPTION **Interstate**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **2**

DESCRIPTION **US Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **3**

DESCRIPTION **NC Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **4**

DESCRIPTION **Secondary Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **5**

DESCRIPTION **Non-System**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **6**

DESCRIPTION **Other State Agency Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **7**

DESCRIPTION **Federal Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

VALUE **80**

DESCRIPTION **Ramp**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **NCDOT**

[Hide Field RouteClass ▲](#)

FIELD [RouteName ▶](#)

ALIAS **RouteName**

* DATA TYPE **String**

* WIDTH **20**

* PRECISION **0**

* SCALE **0**

FIELD DESCRIPTION

The route name, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE

NCDOT

[Hide Field RouteName ▲](#)

FIELD RouteID ►

ALIAS routeID

* DATA TYPE String

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

An 11-digit route identifier, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE

NCDOT

[Hide Field RouteID ▲](#)

FIELD County ►

* ALIAS County

* DATA TYPE String

* WIDTH 20

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The name of the North Carolina county the point is located in.

DESCRIPTION SOURCE

NCDOT

[Hide Field County ▲](#)

FIELD RoadElev ►

ALIAS RoadElevation

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The LiDAR-based elevation of the road at the point location. Values are rounded to one decimal point.

DESCRIPTION SOURCE

NCDOT

[Hide Field RoadElev ▲](#)

FIELD WSE ►

* ALIAS wse

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The water surface elevation (WSE) associated with the inundation profile, relative to 0 ft (NAVD88). Units are in NAVD88 feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSE ▲](#)

FIELD Depth ►

* ALIAS depth

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The depth of flooding on top of the road, in feet. If the road elevation is 2 ft and the inundation profile is 5 ft, then the depth of water on the road would be 3 ft. Values are rounded to one decimal point.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth ▲](#)

FIELD ReccurInt ►

ALIAS RecurrenceInterval

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The flood recurrence interval (10-, 25-, 50-, 100- or 500-year). A given point location may have multiple co-located points, each representing a different recurrence interval for the same location. It is highly recommended that users filter the dataset to display only one recurrence interval at a time.

DESCRIPTION SOURCE

NCDOT

[Hide Field ReccurInt ▲](#)

FIELD MissingDt ►

ALIAS MissingData

* DATA TYPE String

* WIDTH 5

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Data availability was subject to NCFMP flood study status per county. In rare cases, gaps may exist. For example, if a given location had inundation impacts for the 100-year recurrence interval but no data for the 500-year recurrence interval, then its 500-year point would have a MissingDt value of 'Y' for Yes. Its 100-year point would have a value of 'N' for No. In the web app, this field is referred to as Potential Impacts.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Y

DESCRIPTION Data Exists

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N

DESCRIPTION Data does not exist

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field MissingDt ▲](#)

FIELD [DepthCat ▶](#)

ALIAS DepthCategory

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Categorizes depth values based on their severity, ranging from 1 to 4. A value of 1 represents minimal flooding, 0.1 to 0.5 ft, which may permit continued use of the road. A value of 2, for 0.5 to 2 ft of flooding, represents severe flooding that would bar passage for most vehicles. A value of 3, for 2 to 5 ft of flooding, denotes roads impassable to all but military and emergency response vehicles. A value of 4 represents heavy flooding, over 5 ft, which renders the road impassable for all vehicles.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Minimal flooding, 0.1 to 0.5 ft of flooding, may permit continued use of the road.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2

DESCRIPTION 0.5 to 2 ft of flooding, severe flooding that would bar passage for most vehicles.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 3

DESCRIPTION 2 to 5 ft of flooding, roads impassable to all but military and emergency response vehicles.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4

DESCRIPTION Heavy flooding, over 5 ft, renders the road impassable for all vehicles.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field DepthCat ▲](#)

FIELD [StreetNm ▶](#)

ALIAS StreetName

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The common name for the road, based on NCDOT's Route Characteristics dataset.

DESCRIPTION SOURCE

NCDOT

[Hide Field StreetNm ▲](#)

FIELD RdElevUnround ▶

ALIAS RoadElevationUnrounded

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Same as the RoadElev field, but the original unrounded value.

DESCRIPTION SOURCE

NCDOT

Hide Field RdElevUnround ▲

FIELD WSEUnround ▶

ALIAS WSEUnrounded

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Same as the wse field, but the original unrounded value.

DESCRIPTION SOURCE

NCDOT

Hide Field WSEUnround ▲

FIELD DepthUnround ▶

ALIAS DepthUnrounded

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Same as the depth field, but the original unrounded value.

DESCRIPTION SOURCE

NCDOT

Hide Field DepthUnround ▲

FIELD RouteGp ▶

* ALIAS RouteGroup

* DATA TYPE String

* WIDTH 30

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Categorizes the road as primary or secondary, based on the value of its RouteClass field.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Primary
DESCRIPTION Primary Road
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Secondary
DESCRIPTION Secondary Road
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field RouteGp ▲

FIELD EvacRt ►

* ALIAS EvacuationRoute
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Whether the route is an established evacuation route. Evacuation routes can accommodate heavy traffic volumes and higher speeds.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Y
DESCRIPTION Yes, Evacuation Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION No, not an Evacuation Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field EvacRt ▲

FIELD PtID ►

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

FIELD DESCRIPTION

An ID unique to each road point. If a road point has inundation for all flood recurrence intervals, then the dataset will display five co-located points. Each will have different recurrence intervals, but the same PtID value.

DESCRIPTION SOURCE

NCDOT

Hide Field PtID ▲

Hide Details for object RoadInundationPoints ▲

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 2022-03-11

ARCGIS METADATA PROPERTIES

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

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 14:03:18
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 10:48:17

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-26 10:48:17

[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 919-707-6136

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 as needed

OTHER MAINTENANCE REQUIREMENTS

The Hydraulics Unit within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Hydraulics Unit. 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
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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. 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. 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 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.

CONSTRAINTS

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[Hide Metadata Constraints ▲](#)