

# Hydrography, North Carolina Department of Transportation, Prioritization 7.0, July, 2023

## File Geodatabase Feature Class



### Tags

NC, North Carolina, Hydro, Hydrography, NC Hydro, NC Hydrography, Strategic Prioritization Office of Transportation (SPOT), P7, Department of Transportation, North Carolina Department of Transportation (NCDOT), Rivers, Streams, Lakes, Reservoirs, National Hydrography Dataset (NHD), Water bodies

### Summary

Feature class to be utilized with the Strategic Planning Office of Transportation's (SPOT) P.7 cost-estimation tool. This feature class helps to determine the amount of square footage for bridge crossings over hydrography features, which leads to an estimated cost of new bridges.

### Description

This feature class is a compilation of selected Federal Emergency Management Agency floodways, National Hydrography Data Set polygons and selected streams from an existing layer. Streams were selected based on if they are named with the assumption that if the stream is large enough to have a name, it is large enough for a bridge structure. A thirty foot buffer (fifteen feet on each side) was placed on the streams allowing it to become a polygon. The data from the Federal Emergency Management Agency, National Hydrography Data Set, and buffered streams was then merged together to create a new polygon feature class to be utilized in the cost estimation tool.

For the purposes of the Strategic Planning Office of Transportation Prioritization 7.0 project, data is not updated after May 2023.

For further information about domains and fields used in SPOT see the SPOT P7 Domains document here:

<https://xfer.services.ncdot.gov/gisdot/metadata/spot/NCDOT%20SPOT%20Prioritization%207%20Online%20Domain%20Reference.pdf>

### Credits

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

### 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** -84.414758 **East** -75.416082

**North** 36.616180 **South** 33.733370

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ▶

## Topics and Keywords ▶

**THEMES OR CATEGORIES OF THE RESOURCE** inlandWaters, transportation

**\* CONTENT TYPE** Downloadable Data

**PLACE KEYWORDS** North Carolina

**THEME KEYWORDS** NC, North Carolina, Hydro, Hydrography, NC Hydro, NC Hydrography, Strategic Prioritization Office of Transportation (SPOT) , P7, Department of Transportation, North Carolina Department of Transportation (NCDOT), Rivers, Streams, Lakes, Reservoirs, National Hydrography Dataset (NHD), Water bodies

*Hide Topics and Keywords ▲*

## Citation ▶

**TITLE** Hydrography, North Carolina Department of Transportation, Prioritization 7.0, July, 2023

**PUBLICATION DATE** 2023-07-17 00:00:00

**PRESENTATION FORMATS** digital map

*Hide Citation ▲*

## Citation Contacts ▶

### RESPONSIBLE PARTY

**ORGANIZATION'S NAME** North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

**CONTACT'S ROLE** originator

### CONTACT INFORMATION ▶

#### PHONE

**VOICE** 919.707.4742

#### ADDRESS

**TYPE** postal

**DELIVERY POINT** 4101

**CITY** Raleigh

**ADMINISTRATIVE AREA** NC

**POSTAL CODE** 27610

**E-MAIL ADDRESS** spot@ncdot.gov

#### HOURS OF SERVICE

8am-5pm, M-F

#### CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit  
CONTACT'S POSITION GIS Help Desk  
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

PHONE

VOICE 919.707.2165  
FAX 919.707.2210

ADDRESS

TYPE postal  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

8am-9pm, M-F

CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

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

SPATIAL REPRESENTATION TYPE vector

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

CREDITS

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.414758  
EAST LONGITUDE -75.416082  
SOUTH LATITUDE 33.73337  
NORTH LATITUDE 36.61618  
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

DATE AND TIME 2019-09-01 00:00:00

## EXTENT

### GEOGRAPHIC EXTENT

#### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -84.414758

\* EAST LONGITUDE -75.416082

\* NORTH LATITUDE 36.616180

\* SOUTH LATITUDE 33.733370

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 408975.412458

\* EAST LONGITUDE 3052479.573930

\* SOUTH LATITUDE 35901.487775

\* NORTH LATITUDE 1043233.364183

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

### POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE point of contact

### CONTACT INFORMATION ►

#### PHONE

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[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

### RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

#### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Geographic Information Systems Unit

CONTACT'S POSITION GIS Help Desk

CONTACT'S ROLE resource provider

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## Resource Constraints ►

### LEGAL CONSTRAINTS

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### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM none

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet
- \* COORDINATE REFERENCE DETAILS

#### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719  
X ORIGIN -121841900  
Y ORIGIN -93659000  
XY SCALE 3048.0060960121928  
Z ORIGIN 0  
Z SCALE 1  
M ORIGIN 0  
M SCALE 1  
XY TOLERANCE 0.0032808333333333331  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2264

#### 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],AUTHORITY["EPSG",2264]]

#### 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 CombinedHydro

\* OBJECT TYPE composite

\* OBJECT COUNT 104183

[Hide Vector ▲](#)

## ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME CombinedHydro

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 104183

\* 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 - CONCEPTUAL CONSISTENCY ▶

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. Quality checks were performed by the Strategic Prioritization Office of Transportation (SPOT) and the North Carolina Department of Transportation Geographic Information Systems Unit and errors were accepted as within business range or identified as exceptions.

### PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

PUBLICATION DATE 2023-07-17 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

## Lineage ▶

#### LINEAGE STATEMENT

Source data was acquired from multiple sources - FEMA floodzones, National Hydrography Dataset polygons, and Hydro Arcs. Various processes were performed in order to create a new feature class for the cost estimation tool to be utilized for new projects in the P7 project of the SPOT office at the NC Department of Transportation.

#### PROCESS STEP ►

##### DESCRIPTION

All of the polygons were merged to create one state-wide layer for use in the cost estimation tool

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE processor

#### CONTACT INFORMATION ►

##### PHONE

VOICE 919.707.4742

##### ADDRESS

TYPE postal

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [spot@ncdot.gov](mailto:spot@ncdot.gov)

##### HOURS OF SERVICE

8am-5pm, M-F

##### CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

#### PROCESS STEP ►

##### DESCRIPTION

Streams were selected based on if they are named.

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE processor

#### CONTACT INFORMATION ►

##### PHONE

VOICE 919.707.4742

##### ADDRESS

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HOURS OF SERVICE  
8am-5pm, M-F

CONTACT INSTRUCTIONS  
Phone or email

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

A 15 foot buffer (30 feet total) was applied to the streams to create polygons.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)  
CONTACT'S ROLE processor

CONTACT INFORMATION ►

PHONE

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[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Data obtained from different sources - FEMA flood zones, NHD Polygons, and Hydro 24k Arcs.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)  
CONTACT'S ROLE processor

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.4742

ADDRESS

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COUNTRY US

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HOURS OF SERVICE

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CONTACT INSTRUCTIONS

Phone or email

*Hide Contact information ▲*

*Hide Process step ▲*

PROCESS STEP ▶

DESCRIPTION

Applicable floodways and NHD polygons were selected for use.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)  
CONTACT'S ROLE processor

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.4742

ADDRESS

TYPE postal

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HOURS OF SERVICE

8am-5pm, M-F

CONTACT INSTRUCTIONS

Phone or email

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[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Metadata uploaded for publication

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE processor

CONTACT INFORMATION ▶

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VOICE 919.707.4742

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CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

SOURCE DATA ▶

DESCRIPTION

National Hydrography Dataset polygons

[Hide Source data ▲](#)

SOURCE DATA ▶

DESCRIPTION

Federal Emergency Management Agency Floodzones

[Hide Source data ▲](#)

SOURCE DATA ▶

DESCRIPTION

Hydro 24k Arcs

*Hide Source data ▲*

*Hide Lineage ▲*

## Distribution ▶

DISTRIBUTOR ▶

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE distributor

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.4742

ADDRESS

TYPE postal

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [spot@ncdot.gov](mailto:spot@ncdot.gov)

HOURS OF SERVICE

8am-5pm, M-F

CONTACT INSTRUCTIONS

Phone or email

*Hide Contact information ▲*

*Hide Distributor ▲*

DISTRIBUTION FORMAT

VERSION ArcGIS 10.3

\* NAME File Geodatabase Feature Class

*Hide Distribution ▲*

## Fields ▶

DETAILS FOR OBJECT [CombinedHydro](#) ▶

\* TYPE Feature Class

\* ROW COUNT 104183

DEFINITION

This feature class helps to determine the amount of square footage for bridge crossings over hydrography features, which leads to an estimated cost of new bridges.

DEFINITION SOURCE

NCDOT

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 ▲*

FIELD **ORIG\_FID** ▶

- \* ALIAS ORIG\_FID
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature ID for each individual feature

DESCRIPTION SOURCE

NCDOT GIS

DESCRIPTION OF VALUES

No domain

*Hide Field ORIG\_FID ▲*

FIELD **SHAPE\_Length** ▶

- \* ALIAS Shape\_Length
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Length of feature in internal units.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

*Hide Field SHAPE\_Length ▲*

FIELD **HydroFeature** ▶

- \* ALIAS HydroFeature
- \* DATA TYPE String
- \* WIDTH 1
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature marker to determine if Hydro Feature

DESCRIPTION SOURCE

NCDOT GIS

DESCRIPTION OF VALUES

No domain

*Hide Field HydroFeature ▲*

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 ▲](#)

[Hide Details for object CombinedHydro ▲](#)

[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 2024-02-26

#### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-12-06 09:04:31  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-26 16:26:17

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2024-02-26 16:26:17

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)  
CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

PHONE  
VOICE 919.707.4742

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TYPE postal  
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## Metadata Maintenance ►

#### MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

#### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE point of contact

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## Metadata Constraints ►

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM none

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