

Dwarf Wedgemussel - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Dwarf Wedgemussel, Alasmidonta heterodon, freshwater mussel, Neuse River, Tar River, Endangered Species Act, threatened, Eastern mussel programmatic, Division 1-8, mitigation payment, programmatic, bridges/culverts replacement, repair and rehabilitation, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was made available as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit with project delivery in the development phase. Data is current as of March 2019.

This dataset contains USFWS identified stream reaches for the Dwarf Wedgemussel. This dataset was created by USFWS to highlight areas of known or potential species occurrence that could trigger consultation under the ESA, as part of a programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

Please read the Practitioner's Guide for the Eastern Mussel Programmatic Opinion for applicability of bridge replacement, repair and rehabilitation projects and reference Appendix B for Section 7 Programmatic Process for bridge replacement/replacement/rehabilitation and culvert replacement and extension and bridge to culvert replacement.

https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Mussel%20Programmatic/Practitioner%20Guide%20to%20Eastern%20Mussel%20Programmatic_October%202020.pdf

Full programmatic opinion is located on EAU BSG website.

<https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Mussel%20Programmatic/PBO%20for%20Yellow%20Lance%20Tar%20River%20Spiny%20Dwarf%20Wedge%20Mussel%20Atlantic%20Pigtoe%20or%20Bridge-Culvert%20Replacements%2020190911.pdf>

Description

The Dwarf Wedgemussel Identified Stream Reaches dataset is a polyline layer depicting streams with historical / known / potential in the Neuse and Tar River basins for Dwarf Wedgemussel.

The Dwarf Wedgemussel is a small, freshwater mussel that rarely exceeds 1.5 inches in length. It is the only Atlantic Slope freshwater bivalve (two-shelled) mussel in North America that has two lateral teeth on the right valve, but only one tooth on the left. The outer shell is dark brown or yellowish brown and often exhibits greenish rays in young mussels. The inner shell is bluish or silvery white. Dwarf wedgemussels feed by filtering small particles from the water. The dwarf wedgemussel occurs on muddy sand, sand, and gravel bottoms in creeks and rivers of various sizes. In parts of the range, dwarf wedgemussels also occur in clay banks and small riffle areas. This species requires areas with a slow to moderate current, little silt deposition, and well-oxygenated, unpolluted water.

The dataset is linear stream features depicting historical/known/potential habitat for listed/proposed species, as of 2019. Use of these datasets is solely for the use as part of the decision process for the Programmatic

bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE. These datasets are intended to be updated annually and provided to NCDOT personnel for use in the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

These datasets were created for the sole purpose of informing the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE. These data sets do not replace Heritage element occurrence data, NCWRC PAWS data, nor other USFWS publicly available species occurrence or habitat data.

Credits

The USFWS Raleigh Ecological Service's Aquatic Biologist was tasked to create this dataset as part of the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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 -79.156565 **East** -77.748948
North 36.431668 **South** 35.496933

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, biota, 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 2019-03-29 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Dwarf Wedgemussel, Alasmidonta heterodon, freshwater mussel, Neuse River, Tar River, Endangered Species Act, threatened, Eastern mussel programmatic, Division 1-8, mitigation payment,

programmatic, bridges/culverts replacement, repair and rehabilitation, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User

CREATION DATE 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE Dwarf Wedgemussel - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

CREATION DATE 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 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 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 ▲](#)

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 USFWS Raleigh Ecological Service

CONTACT'S POSITION Aquatic Biologist

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-856-4520

ADDRESS

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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 10.5.1.7333**

CREDITS

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Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE **-84.422111**

EAST LONGITUDE **-75.416034**

SOUTH LATITUDE **33.730557**

NORTH LATITUDE **36.617257**

EXTENT CONTAINS THE RESOURCE **Yes**

TEMPORAL EXTENT

BEGINNING DATE **2019-03-29 00:00:00**

ENDING DATE **2019-03-29 00:00:00**

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE **Extent used for searching**

* WEST LONGITUDE **-79.156565**

* EAST LONGITUDE **-77.748948**

* NORTH LATITUDE **36.431668**

* SOUTH LATITUDE **35.496933**

* EXTENT CONTAINS THE RESOURCE **Yes**

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE **1953935.968528**

* EAST LONGITUDE **2368099.552929**

* SOUTH LATITUDE **638079.332958**

* NORTH LATITUDE **976050.068760**

* 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

ADDRESS

TYPE

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Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

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MAINTENANCE CONTACT

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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

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 3048.0060960121918

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000
M SCALE 10000
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 DwarfWedgemussel
* OBJECT TYPE composite
* OBJECT COUNT 662

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME DwarfWedgemussel
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 662
* 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 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 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 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

Geometry checks were conducted using ESRI's Data Reviewer tool.

CONFORMANCE TEST RESULTS

TEST PASSED Yes
RESULT EXPLANATION
Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications
CREATION DATE 2019-03-29 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Base data layers:

- major_hydro-1m (GCS_North American_1983)
- hydro24k_arc (GCS_North American_1983)
- HUC10 watersheds

major_hydro-1m (GCS_North American_1983) -- http://data-ncdenr.opendata.arcgis.com/datasets/2a5324f732bb44d9a1ca29f1c17370ee_0

hydro24k_arc (GCS_North American_1983) --
https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOTApp_ESM/NCDOT_24kHydro/MapServer

HUC10 watersheds -- <http://data-ncdenr.opendata.arcgis.com/datasets/dwr-10-digit-huc-watersheds>

Species data layer was created by initially selecting stream segments (hydrology) that overlapped NC Natural Heritage Element Occurrence (EO) polygons for each species, then connecting stream segments between EOs, and extending stream segments to headwaters. HUC10 watersheds were then selected based on whether they contained species stream segments.

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

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Linear 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 point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Data was downloaded as a shapefile. Features for NC were exported out and converted to a geodatabase.

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 ▶

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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

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ADMINISTRATIVE AREA NC

POSTAL CODE 27610

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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 DwarfWedgemussel ►](#)

* TYPE Feature Class
* ROW COUNT 662

[DEFINITION](#)

Areas of known occurrence for the Dwarf Wedgemussel

[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 DWQNAME ►

* ALIAS DWQName
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Name of DWQ Stream where Dwarf Wedgemussel is found

DESCRIPTION SOURCE
NCDOT

Hide Field DWQNAME ▲

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 StreamName ►

* ALIAS StreamName
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Name of Stream where Dwarf Wedgemussel is found

DESCRIPTION SOURCE
NCDOT

[Hide Field StreamName ▲](#)

[Hide Details for object DwarfWedgemussel ▲](#)

[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 2022-06-09

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 14:11:39
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-06-09 17:29:26

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2022-06-09 17:29:26

[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
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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY annually

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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