

## onemap\_prod.SDEADMIN.nwi\_arc

**Data format:** SDE Feature Class

**File or table name:** SDV\_PUBLIC.HQR\_NTNL\_WTLND\_INV\_ARC

**Coordinate system:** Lambert Conformal Conic

**Theme keywords:** wetlands, hydrologic, land cover, swamps

**Abstract:** NWI digital data files are records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Base map dates Range from Oct. 1981 to present. CGIA has compiled the 7.5 minute quadrangle extent digital files into river basin map extent files. These extents are stored as tiles in a GIS library. The NWI identifier is in in the condensed format in the polygon (area) attributes, and in a parsed format in the arc (line) attributes. Other wetland classification exist for North Carolina.

### FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (\*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

### Identification Information:

**Citation:**

**Citation information:**

**Originators:** U.S. Fish & Wildlife Service, National Wetlands Inventory

**Title:**

onemap\_prod.SDEADMIN.nwi\_arc

\***File or table name:** SDV\_PUBLIC.HQR\_NTNL\_WTLND\_INV\_ARC

**Publication date:** 19990518

**Geospatial data presentation form:** vector digital data

**Publication information:**

**Publication place:** St.Petersburg, Florida

**Publisher:** U.S. Fish & Wildlife Service, National Wetlands Inventory

**Other citation details:**

NCCGIA distributes this dataset

**Online linkage:** [Server=cgiapdb; Service=5151; Database=onemap\\_prod; User=sdeadmin; Version=sde.DEFAULT](#)

**Description:**

**Abstract:**

NWI digital data files are records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Base map dates Range from Oct. 1981 to present. CGIA has compiled the 7.5 minute quadrangle extent digital files into river basin map extent files. These extents are stored as tiles in a GIS library. The NWI identifier is in in the condensed format in the polygon (area) attributes, and in a parsed format in the arc (line) attributes. Other wetland classification exist for North Carolina.

**Purpose:**

The data provide consultants, planners, and resource managers with information on wetland location and type. The data were collected to meet U.S. Fish & Wildlife Service's mandate to map the wetland and deepwater habitats of the United States.

**Supplemental information:**

24,000-scale NWI files were joined to create 1:100,000-scale tiles which were then joined to created river basin tiles. The tile names, abbreviations and approximate file sizes are list here.

>River Basin	ABBREV	MB
>Broad	brd	2
>Cape Fear	cpf	60
>Catawba	ctb	8
>Chowan	cho	8
>French Broad	frb	2
>Hiwassee	hiw	1
>Little Tennessee	ltn	1
>Lumber	lbr	24
>Neuse	neu	39
>New	new	2
>Pasquotank	pas	13

```

>Roanoke          roa      19
>Savannah        sav      no digital data
>Tar-Pamlico      tar      31
>Watauga          wat      1
>White Oak        wok      10
>Yadkin           yad      19

```

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>Revisions and updates to this layer include:
>system filename: /library/librb/tiles/(rivbasabbrev)/nwi
>file sizes range from 1 - 60 mb per tile
>4.) directory: nwi_599 filenames: (rivbas)nwi599
>The May 1999 updates to this layer consisted of combining the
>100k tiles into river basin files and stripping out the quadrangle
>neatlines. During this update the data was also projected from NAD27
>datum, State Plane projection, units of measure feet TO: NAD83 DATUM,
>State Plane PROJECTION, UNITS OF MEASURE METERS. This was done to
>comply with the NC Geographic Information Coordinating Council's
>"Statement of Direction for North Carolina Corporate Geographic Database
>Horizontal Reference, Datum and Unit of Measure". This reprojecting
>was done in various ways depending on the data type and content.
>Vector data was projected using the 'project' command in ESRI's Arc
>software and topology was cleaned and built based on coverage needs.
>Raster data was projected using ESRI's Grid module and various steps
>as applicable.
>3.) directory: nwi_1097 filenames: nwi(100kabbr)1097
>In October 1997, additional 24k tiles were being combined into 100k
>tiles. If the 24 k source changed at any time, these updates
>were also added to the 100k. The following tiles were edited or
>added: Asheville, Gastonia, Lancaster.
>2.) directory: nwi_1995 filenames: nwi(100kabbr)(month)95
>In 1995, additional 24k tiles were being combined into 100k
>tiles. If the 24 k source changed at any time, these updates
>were also added to the 100k.
>During the year, 29 tiles were created or updated as follows:
>October 1995 - Bayboro
>September 1995 - Norfolk, Plymouth, Whiteville
>August 1995 - Raleigh, Roanoke Rapids
>July 1995 - Asheville, Charlotte, Florence, Fontana Lake,
>Gaston, Hendersonville, Johnson City, Knoxville, Laurinburg
>June 1995 - Morehead City
>May 1995 - Boone, Cleveland, Kinston, Salisbury
>April 1995 - Fayetteville, Henderson
>March 1995 - Chapel Hill, Greensboro
>February 1995 - Rocky Mount
>January 1995 - Danville, Galax, Southern Pines, Wytheville
>1.) directory: nwi_1994 filenames: nwi(100kabbr)(month)94
>In 1994, the 24k tiles were being combined into 100k tiles.
>If the 24 k source changed at any time, these updates were
>also added to the 100k.
>During the year, 14 tiles were created as follows:
>November 1994 - Winston-Salem, New River, Manteo, Hickory
>October 1994 - South Boston
>September 1994 - Wilmington, Myrtle Beach, Elizabethtown
>August 1994 - Virginia Beach, Cape Fear
>June 1994 - Emporia, Elizabeth City, Currituck Sound
>May 1994 - Cape Hatteras

```

**\*Language of dataset:** en

**Time period of content:**

**Time period information:**

**Single date/time:**

**Calendar date:** REQUIRED: The year (and optionally month, or month and day) for which the data set corresponds to the ground.

**Range of dates/times:**

**Beginning date:** 199102

**Ending date:** 199212

**Currentness reference:**

source photography dates

**Status:**

**Progress:** Complete

**Maintenance and update frequency:** Irregular

**Spatial domain:**

**Bounding coordinates:**

**West bounding coordinate:** -84.413160

**East bounding coordinate:** -75.426461

**North bounding coordinate:** 36.614506

**South bounding coordinate:** 33.723735

**Local bounding coordinates:**

**\*Left bounding coordinate:** 402224.972322

**\*Right bounding coordinate:** 3047601.724353

**\*Top bounding coordinate:** 1047707.590574

**\*Bottom bounding coordinate:** 33847.319550

**Keywords:**

**Theme:**

**Theme keywords:** wetlands, hydrologic, land cover, swamps

**Theme keyword thesaurus:** None

**Place:**

**Place keywords:** North Carolina

**Place keyword thesaurus:** William S. Powell, The North Carolina GAZETTEER, A Dictionary of Tar Heel Places, (Chapel Hill: University of North Carolina Press), August 1984.

**Access constraints:** none

**Use constraints:**

Federal, State, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Acknowledgement of products derived from this data set should cite the following: The source of the National Wetlands Inventory data is the North Carolina Corporate Geographic Database. Earlier versions of this dataset may exist. The user must be sure to use the appropriate data set for the time period of interest. While efforts have been made to ensure that these data are accurate and reliable within the state of the art, CGIA cannot assume liability for any damages or misrepresentation caused by any inaccuracies in the data or as a result of changes to the data caused by system transfers.

Although every effort has been made to ensure the accuracy of information, errors and conditions originating from physical sources used to develop the corporate database

may be reflected in the data supplied. The requesting agency, corporation, or person(s) must be aware of data conditions and ultimately bear responsibility for the appropriate use of the information with respect to possible errors, original map scale, collection methodology, currency of data, and other conditions specific to certain data.

**Point of contact:**

**Contact information:**

**Contact organization primary:**

**Contact organization:** U.S. Fish & Wildlife Service, National Wetlands Inventory

**Contact position:** Chief Cartographer

**Contact address:**

**Address type:** Mailing and physical address

**Address:**

9720 Executive Center Drive

**City:** St.Petersburg

**State or province:** Florida

**Postal code:** 33702

**Country:** U.S.A.

**Contact voice telephone:** Unknown

**Browse graphic:**

**Browse graphic file name:** <http://www.cgia.state.nc.us/graphics/nwi.gif>

**Browse graphic file description:**

Status Map for NC

**Browse graphic file type:** Gif

**Data set credit:**

```
>U.S. Fish & Wildlife Service, National Wetlands Inventory
>Chief Cartographer
>9720 Executive Center Drive
>St.Petersburg
>Florida
>
>NCCGIA Director
>Database Administration, Zsolt Nagy
>Database Management, Ken Shaffer
>Project Manager, David Giordano
>North Carolina Center for Geographic Information and Analysis
>Governor's Office
>Office of State Planning
>301 North Wilmington Street, Suite 700
>Raleigh, NC 27601-2825
```

**\*Native dataset format:** SDE Feature Class

**Native data set environment:**

Microsoft Windows 2000 Version 5.2 (Build 3790) Service Pack 1; ESRI ArcCatalog 9.1.0.722

[Back to Top](#)

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**Data Quality Information:**

**Attribute accuracy:****Attribute accuracy report:**

Accuracy is tested by manual comparison of the source with hard copy printouts and/or symbolized display of the digital wetlands data on an interactive computer graphic system. In addition, WAMS software (USFWS-NWI) tests the attributes against a master set of valid wetland attributes.

**Logical consistency report:**

Polygons intersecting the neatline are closed along the border. Segments making up the outer and inner boundaries of a polygon tie end-to-end to completely enclose the area. Line segments are a set of sequentially numbered coordinate pairs. No duplicate features exist nor duplicate points in a data string. Intersecting lines are separated into individual line segments at the point of intersection. Point data are represented by two sets of coordinate pairs, each with the same coordinate values. All nodes are represented by a single coordinate pair which indicates the beginning or end of a line segment. The neatline is generated by connecting the four corners of the digital file, as established during initialization of the digital file. All data crossing the neatline are clipped to the neatline and data within a specified tolerance of the neatline are snapped to the neatline. Tests for logical consistency are performed by WAMS verification software (USFWS-NWI). Once the 7.5 minute extents are map joined into river basin extents, the data is built for topology. No edits have been made since the last build or clean.

**Completeness report:**

All photo-interpretable wetlands are mapped. In the treeless prairies, 1/4 acre wetlands are mapped. In forested areas, small open water and emergent wetlands are mapped. In general, the minimum mapping unit is from 1 to 3 acres depending on the wetland type and the scale and emulsion of the source aerial photography. In regions of the country where evergreen forested wetlands predominate, wetlands smaller than 3 acres may not be mapped. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included in this dataset.

**Positional accuracy:****Horizontal positional accuracy:****Horizontal positional accuracy report:**

The positional accuracy of the data delivered by the NWI program is significantly altered at CGIA. This data was reprojected to NAD83, State Plane, Meters using ESRI's projection routine in ARC/INFO version 7.2.

**Lineage:****Source information:****Source citation:****Citation information:**

**Originators:** U.S. Geological Survey; U.S. Department of Agriculture; National Aeronautics and Space Administration (NASA)

**Title:**

National Aerial Photography Program (NAPP); National High Altitude Photography (NHAP); Agricultural and Stabilization Conservation Service (ASCS); NASA or special project photography.

**Publication date:** 1992

**Type of source media:** Transparency

**Source citation abbreviation:**

None

**Source contribution:**

Wetlands spatial and attribute information. Scales range from 1:20,000 to 1:132,000 and includes black and white, color infrared, or natural color aerial photograph film transparency. Sources vary by quadrangle.

**Source time period of content:**

**Time period information:**

**Range of dates/times:**

**Beginning date:** 197102

**Ending date:** 19921

**Source currentness reference:**

Photography dates

**Source information:**

**Source citation:**

**Citation information:**

**Originators:** U.S. Geological Survey

**Title:**

USGS 7.5 Minute series quadrangles

**Publication date:** 1992

**Geospatial data presentation form:** map

**Publication information:**

**Publication place:** Reston,VA

**Publisher:** U.S. Geological Survey

**Other citation details:**

Maps vary in scale from 20,000, 24000. 25000, 30000, and 62500 and varies for each 7.5' quad.

**Type of source media:** paper

**Source citation abbreviation:**

NWI2

**Source contribution:**

Base cartographic data

**Source time period of content:**

**Time period information:**

**Range of dates/times:****Beginning date:** 1902**Ending date:** 1992.**Source currentness reference:**

Publication dates

**Source information:****Source citation:****Citation information:****Originators:** U.S. Fish & Wildlife Service, National Wetlands Inventory**Title:**

Wetlands delineations

**Publication date:** 1994.**Geospatial data presentation form:** map**Publication information:****Publication place:** St.Petersburg,Florida**Publisher:** U.S. Fish & Wildlife Service, National Wetlands Inventory**Other citation details:**

Base map scale ranges from 20,000, 24000, 25000, 30000, and 62500 and varies for each 7.5' quad

**Type of source media:** stable-base material**Source citation abbreviation:**

NW13

**Source contribution:**

Wetlands locations and classification

**Source time period of content:****Time period information:****Range of dates/times:****Beginning date:** 1979**Ending date:** 1994.**Source currentness reference:**

Publication dates

**Source information:****Source citation:****Citation information:****Originators:** NC Center for Geographic Information and Analysis**Title:**

NWI maps map joined and projected

**Publication date:** 1999**Geospatial data presentation form:** Map**Publication information:****Publication place:** Raleigh, North Carolina



**Publisher:** NC Center for Geographic Information and Analysis

**Other citation details:**

Projected to NAD83, stateplane, meters

**Source scale denominator:** 24000

**Type of source media:** Digital files

**Source citation abbreviation:**

None

**Source contribution:**

Digital files were converted in projection, datum, and measurement units, and map joined to river basin map extents and are stored as a map library.

**Source time period of content:**

**Time period information:**

**Range of dates/times:**

**Beginning date:** 199411

**Ending date:** 1999

**Source currentness reference:**

Data conversion dates

**Process step:**

**Process description:**

NWI maps are compiled through manual photointerpretation of NHAP or NAPP aerial photography supplemented by Soil Surveys and field checking of wetland photo signatures. Delineated wetland boundaries are manually transferred from interpreted photos to USGS 7.5 minute topographic quadrangle maps and then manually labelled. Quality control steps occur throughout the photointerpretation, map compilation, and map reproduction processes. NWI1 and NWI2 data were used in this 1994 process. Digital wetlands data are either manually digitized or scanned from stable-base copies of the 1:24,000 scale wetlands overlays registered to the standard U.S. Geological Survey (USGS) 7.5 minute quadrangles into topologically correct data files using Wetlands Analytical Mapping System (WAMS) software. Files contain ground planimetric coordinates and wetland attributes. The quadrangles were referenced to the North American Datum of 1927 (NAD27) horizontal datum. The scanning process captured the digital data at a scanning resolution of at least 0.001 inches; the resulting raster data were vectorized and then attributed on an interactive editing station. Manual digitizing used a digitizing table to capture the digital data at a resolution of at least 0.005 inches; attribution was performed as the data were digitized. The determination of scanning versus manual digitizing production method was based on feature density, source map quality, feature symbology, and availability of production systems. The data were checked for position by comparing plots of the digital data to the source material.

**Process date:** Unknown

**Process contact:**

**Contact information:**

**Contact organization primary:**

**Contact organization:** U.S. Fish & Wildlife Service, National Wetlands Inventory

**Contact position:** Chief Cartographer

**Contact address:**

**Address type:** Mailing and physical address

**Address:**

9720 Executive Center Drive

**City:** St.Petersburg

**State or province:** Florida

**Postal code:** 33702

**Country:** U.S.A.

**Contact voice telephone:** Unknown

**Contact instructions:**

US Fish and Wildlife Homepage functional

**Process step:****Process description:**

NWI quads were downloaded through ftp to CGIA and converted to NAD 27, stateplane, feet. They were then map joined into USGS 100 k map extent files. These had the neatlines dissolved, and the data was joined into a statewide file. This file was clipped to river basin extents and the files projected to nad83, state plane, meters. The data is stored by river basin tile in a GIS data library.

**Process date:** 199905

**Process contact:****Contact information:****Contact person primary:**

**Contact person:** David Giordano

**Contact organization:** NCCGIA

**Contact position:** GIS Analyst

**Contact address:**

**Address type:** Mailing and physical address

**Address:**

301 North Wilmington Street, Suite 700

**City:** Raleigh

**State or province:** North Carolina

**Postal code:** 27601-2825

**Country:** U.S.A.

**Contact voice telephone:** (919) 733-2090

**Contact facsimile telephone:** (919)715-0725

**Contact electronic mail address:** data@cgia.state.nc.us

**Hours of service:** 8:30AM - 5:30PM

**Contact instructions:**

Phone and electronic mail preferred

**Process step:****Process description:**

Metadata imported.

**Source used citation abbreviation:**

C:\DOCUME~1\david\LOCALS~1\Temp\2\xml2B.tmp

**Process step:****Process description:**

Metadata imported.

**Process date:** 20101029**Process time:** 14445200**Source used citation abbreviation:**

C:\DOCUME~1\sbwray\LOCALS~1\Temp\xml1B5.tmp

**Process step:****Process description:**

Metadata imported.

**Process date:** 20101101**Process time:** 11420400**Source used citation abbreviation:**

C:\DOCUME~1\DDJOHN~1\LOCALS~1\Temp\xml2A6.tmp

[Back to Top](#)**Spatial Data Organization Information:****Indirect spatial reference method:**

None

**Direct spatial reference method:** Vector**Point and vector object information:****SDTS terms description:****\*Name:** SDV\_PUBLIC.HQR\_NTNL\_WTLND\_INV\_ARC**SDTS point and vector object type:** String**Point and vector object count:** 485302**SDTS terms description:****SDTS point and vector object type:** GT-polygon composed of chains**ESRI terms description:****\*Name:** SDV\_PUBLIC.HQR\_NTNL\_WTLND\_INV\_ARC**\*ESRI feature type:** Simple**\*ESRI feature geometry:** Polyline**\*ESRI topology:** FALSE**\*ESRI feature count:** 48248**\*Spatial index:** TRUE**\*Linear referencing:** FALSE

[Back to Top](#)

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## Spatial Reference Information:

### Horizontal coordinate system definition:

#### Coordinate system name:

##### \*Projected coordinate system name:

NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet

##### \*Geographic coordinate system name: GCS\_North\_American\_1983

### Planar:

#### Map projection:

\*Map projection name: Lambert Conformal Conic

#### Lambert conformal conic:

\*Standard parallel: 34.333333

\*Standard parallel: 36.166667

\*Longitude of central meridian: -79.000000

\*Latitude of projection origin: 33.750000

\*False easting: 2000000.002617

\*False northing: 0.000000

### Planar coordinate information:

Planar coordinate encoding method: coordinate pair

#### Coordinate representation:

Abscissa resolution: 0.002020

Ordinate resolution: 0.002020

Planar distance units: meters

### Geodetic model:

Horizontal datum name: North American Datum of 1983

Ellipsoid name: Geodetic Reference System 80

Semi-major axis: 6378137.000000

Denominator of flattening ratio: 298.257222

### Vertical coordinate system definition:

#### Altitude system definition:

Altitude resolution: 1.000000

Altitude encoding method: Explicit elevation coordinate included with horizontal coordinates

[Back to Top](#)

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## Entity and Attribute Information:

### Detailed description:

\*Name: SDV\_PUBLIC.HQR\_NTNL\_WTLND\_INV\_ARC

### Entity type:

Entity type label: onemap\_prod.SDEADMIN.nwi\_arc

\*Entity type type: Feature Class

\*Entity type count: 48248

#### Entity type definition:

Wetlands are lands transitional between terrestrial and aquatic systems

where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification wetlands must have one or more of the following three attributes: 1) at least periodically, the land supports predominantly hydrophytes; 2) the substrate is predominantly undrained hydric soil; and 3) the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year.

**Entity type definition source:**

Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.

**Attribute:**

**Attribute label:** OBJECTID

\***Attribute alias:** OBJECTID

**Attribute definition:**

Internal feature number.

**Attribute definition source:**

ESRI

\***Attribute type:** OID

\***Attribute width:** 4

\***Attribute precision:** 10

\***Attribute scale:** 0

**Attribute domain values:**

**Unrepresentable domain:**

Sequential unique whole numbers that are automatically generated.

**Attribute:**

**Attribute label:** SHAPE

\***Attribute alias:** Shape

**Attribute definition:**

Feature geometry.

**Attribute definition source:**

ESRI

\***Attribute type:** Geometry

\***Attribute width:** 4

\***Attribute precision:** 0

\***Attribute scale:** 0

**Attribute domain values:**

**Unrepresentable domain:**

Coordinates defining the features.

**Attribute:**

**Attribute label:** ATTRIBUTE

\***Attribute alias:** ATTRIBUTE

\***Attribute type:** String

\***Attribute width:** 20

\***Attribute precision:** 0

\***Attribute scale:** 0

**Attribute:**

**Attribute label:** QAQC\_CODE  
**\*Attribute alias:** QAQC\_CODE

**\*Attribute type:** String  
**\*Attribute width:** 9  
**\*Attribute precision:** 0  
**\*Attribute scale:** 0

**Attribute:**

**Attribute label:** HGM\_CODE  
**\*Attribute alias:** HGM\_CODE

**\*Attribute type:** String  
**\*Attribute width:** 10  
**\*Attribute precision:** 0  
**\*Attribute scale:** 0

**Attribute:**

**Attribute label:** SHAPE\_Leng  
**\*Attribute alias:** SHAPE\_LENG

**\*Attribute type:** Double  
**\*Attribute width:** 8  
**\*Attribute precision:** 38  
**\*Attribute scale:** 8

**Attribute:**

**\*Attribute label:** SHAPE.LEN  
**\*Attribute alias:** SHAPE.LEN

**\*Attribute type:** Double  
**\*Attribute width:** 0  
**\*Attribute precision:** 0  
**\*Attribute scale:** 0

**Detailed description:**

**Entity type:**

**Entity type label:** Wetlands

**Entity type definition:**

Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification wetlands must have one or more of the following three attributes: 1) at least periodically, the land supports predominantly hydrophytes; 2) the substrate is predominantly undrained hydric soil; and 3) the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year. Drainage area defined by ridgelines or maximum distance from intake.

**Entity type definition source:**

Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.

**Attribute:**

**Attribute label:** FNODE#  
**Attribute definition:**

From-node identifier of linear feature

**Attribute definition source:**

Software computed

**Attribute domain values:**

**Range domain:**

**Range domain minimum:** varies by tile

**Range domain maximum:** varies by tile

**Attribute measurement frequency:**

None planned

**Attribute:**

**Attribute label:** TNODE#

**Attribute definition:**

To-node identifier of linear feature

**Attribute definition source:**

Software computed

**Attribute domain values:**

**Range domain:**

**Range domain minimum:** varies by tile

**Range domain maximum:** varies by tile

**Attribute measurement frequency:**

None planned

**Attribute:**

**Attribute label:** LPOLY#

**Attribute definition:**

Internal number of poly to left of arc

**Attribute definition source:**

Software computed

**Attribute domain values:**

**Range domain:**

**Range domain minimum:** varies by tile

**Range domain maximum:** varies by tile

**Attribute measurement frequency:**

None planned

**Attribute:**

**Attribute label:** RPOLY#

**Attribute definition:**

Internal number of poly to right of arc

**Attribute definition source:**

Software computed

**Attribute domain values:**

**Range domain:**

**Range domain minimum:** varies by tile

**Range domain maximum:** varies by tile

**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** LENGTH**Attribute definition:**

Length of arc in coverage units

**Attribute definition source:**

Software computed

**Attribute domain values:****Range domain:****Range domain minimum:** varies by tile**Range domain maximum:** varies by tile**Attribute units of measure:** meters**Attribute measurement resolution:** 10.0**Attribute measurement frequency:**

As needed

**Attribute:****Attribute label:** NWI#**Attribute definition:**

Internal feature number

**Attribute definition source:**

Software computed

**Attribute domain values:****Range domain:****Range domain minimum:** varies by tile**Range domain maximum:** varies by tile**Attribute measurement frequency:**

As needed

**Attribute:****Attribute label:** NWI-ID**Attribute definition:**

Internal identification number

**Attribute definition source:**

User defined

**Attribute domain values:****Range domain:****Range domain minimum:** varies by tile**Range domain maximum:** varies by tile**Attribute measurement frequency:**

As needed

**Attribute:****Attribute label:** NWI-NAME**Attribute definition:**

Classification of the wetland

**Attribute definition source:**

Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.



**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code list**Codeset source:** Photointerpretation Conventions for the National Wetlands Inventory, March 1990**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-SYSTEM**Attribute definition:**

Classification of the wetland system.

These include Marine, open ocean and associated coastline;

Estuarine, salt marshes and brackish tidal water;

Riverine, rivers, creeks, and streams;

Lacustrine, lakes and deep ponds;

Palustrine, shallow ponds, marshes, swamps, sloughs

Systems are further subdivided into subsystems which select hydrologic conditions.

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-CLASS**Attribute definition:**

Classification of the wetland by

appearance of the wetland in terms of vegetation or substrate.

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-REGIME**Attribute definition:**

Additional subclassification see citation below

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:**

**Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-TITAL**Attribute definition:**

Additional subclassification see citation below

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-CHEMISTRY**Attribute definition:**

Additional subclassification see citation below

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-SOIL**Attribute definition:**

Additional subclassification see citation below

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** NWI-SPECIAL**Attribute definition:**

Additional subclassification see citation below

**Attribute definition source:**

United States. U.S. Fish Wildlife Service

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Valid wetland classification code**Codeset source:** United States. U.S. Fish Wildlife Service**Attribute measurement frequency:**

None planned

**Attribute:****Attribute label:** FIPS**Attribute definition:**

County Federal Information Processing Standards Code

**Attribute definition source:**

U.S. Department of the Interior, U.S. Geological Survey

**Attribute domain values:****Codeset Ddomain:****Codeset name:** Federal Information Processing Standard Codes**Codeset source:** U.S. Dept. of the Interior, U.S. Geological Survey**Attribute measurement frequency:**

None planned

**Overview description:****Entity and attribute overview:**

The wetland

classification system is hierarchical, with wetlands and deepwater habitats divided among five major systems at the broadest level. The five systems include Marine (open ocean and associated coastline), Estuarine (salt marshes and brackish tidal water), Riverine (rivers, creeks, and streams), Lacustrine (lakes and deep ponds), and Palustrine (shallow ponds, marshes, swamps, sloughs). Systems are further subdivided into subsystems which reflect hydrologic conditions. Below the subsystem is the class which describes the appearance of the wetland in terms of vegetation or substrate. Each class is further subdivided into subclasses; vegetated subclasses are described in terms of life form and substrate subclasses in terms of composition. The classification system also includes modifiers to describe hydrology (water regime), soils, water chemistry (pH, salinity), and special modifiers relating to man's activities (e.g., impounded, partly drained).

```
>NWI.PAT Polygon Attribute Table
>COL ITEM NAME          WIDTH OPUT TYP N.DEC ALTERNATE NAME
>1 AREA                  4    12 F    3
>5 PERIMETER             4    12 F    3
>9 NWI#                   4     5 B    -
>13 NWI-ID                4     5 B    -
>17 NWI-NAME             20    20 C    -
>37 FIPS                  3     3 I    -
>
>NWI.AAT Arc Attribute Table
>COL ITEM NAME          WIDTH OPUT TYP N.DEC ALTERNATE NAME
>1 FNODE#                 4     5 B    -
```

>5	TNODE#	4	5	B	-
>9	LPOLY#	4	5	B	-
>13	RPOLY#	4	5	B	-
>17	LENGTH	4	12	F	3
>21	NWI#	4	5	B	-
>25	NWI-ID	4	5	B	-
>29	NWI-NAME	20	20	C	-
>49	NWI-SYSTEM	2	2	C	-
>51	NWI-CLASS	7	7	C	-
>58	NWI-REGIME	3	3	C	-
>61	NWI-TITAL	1	1	C	-
>62	NWI-CHEMISTRY	1	1	C	-
>63	NWI-SOIL	1	1	C	-
>64	NWI-SPECIAL	1	1	C	-
>65	FIPS	3	3	I	-

**Entity and attribute detail citation:**

Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp. Photointerpretation Conventions for the National Wetlands Inventory, March 1990

[Back to Top](#)

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**Distribution Information:****Distributor:****Contact information:****Contact organization primary:**

**Contact organization:** NC Center for Geographic Information and Analysis

**Contact position:** Production Services

**Contact address:**

**Address type:** Mailing and physical address

**Address:**

301 North Wilmington Street, Suite 700

**City:** Raleigh

**State or province:** North Carolina

**Postal code:** 27601-2825

**Country:** USA

**Contact voice telephone:** (919) 733-2090

**Contact facsimile telephone:** (919) 715-0725

**Contact electronic mail address:** [dataq@cgia.state.nc.us](mailto:dataq@cgia.state.nc.us)

**Hours of service:** 8:30AM - 5:30PM

**Contact instructions:**

Phone and electronic mail preferred

For current price information use a web browser:

COST INFORMATION - <http://www.cgia.state.nc.us/cost.html>

**Resource description:** National Wetland Inventory

**Distribution liability:**

NCCGIA is charged with the development and maintenance of the State's corporate geographic database and, in

cooperation with other mapping organizations, is committed to offering its users accurate, useful, and current information about the state. Although every effort has been made to ensure the accuracy of information, errors and conditions originating from physical sources used to develop the corporate database may be reflected in the data supplied. The client must be aware of data conditions and bear responsibility for the appropriate use of the information with respect to possible errors, original map scale, collection methodology, currency of data, and other conditions specific to certain data. NCCGIA does not support secondary distribution of this data. The use of trade names or commercial products does not constitute their endorsement by the NCCGIA or North Carolina State Government.

**Standard order process:**

**Non-digital form:**

FOR DIGITAL OR NON-DIGITAL DATA, Contact NC CGIA, Data Distribution to order data, Phone 919.733.2090 ... Email [dataq@cgia.state.nc.us](mailto:dataq@cgia.state.nc.us) ... Web Page order form <http://www.cgia.state.nc.us/cgdb/index.html>

**Fees:** For current FORMAT/MEDIA INFORMATION, use a web browser: <http://www.cgia.state.nc.us/cost.html> or phone NC CGIA Data Distribution 919.733.2090

**Custom order process:**

Data creation and large data analysis jobs contact Database Administration P:(919)733-2090. All data is available through standard ordering procedures on a cost recovery basis.

**Technical prerequisites:**

All formats supplied are created using ARC/INFO GIS software on Unix workstations. Other formats are available. Format compatibility is the user's responsibility. For more information on formats and media, use a web browser: FORMAT/MEDIA INFORMATION - <http://www.cgia.state.nc.us/cost.html>

**Available time period:**

**Time period information:**

**Range of dates/times:**

**Beginning date:** 199405

**Ending date:** Present

[Back to Top](#)

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**Metadata Reference Information:**

**Metadata date:** 20060316

**\*Language of metadata:** en

**Metadata contact:**

**Contact information:**

**Contact organization primary:**

**Contact person:** REQUIRED: The person responsible for the metadata information.

**Contact organization:** North Carolina Center for Geographic Information and Analysis

**Contact position:** Database Management

**Contact address:**

**Address type:** Mailing and physical address

**Address:**

301 North Wilmington Street, Suite 700

**City:** Raleigh

**State or province:** North Carolina

**Postal code:** 27601-2825

**Country:** USA

**Contact voice telephone:** (919) 733-2090

**Contact facsimile telephone:** (919) 715-0725

**Contact electronic mail address:** dataq@cgia.state.nc.us

**Hours of service:** 8:30AM - 5:30PM

**Contact instructions:**

Phone and electronic mail preferred

**Metadata standard name:** FGDC Content Standards for Digital Geospatial Metadata

**Metadata standard version:** FGDC-STD-001-1998

**Metadata time convention:** local time

**Metadata access constraints:** None

**Metadata use constraints:**

This metadata file is to accompany the data set identified and received from NCCGIA. NCCGIA does not support secondary distribution. If this data file was received from anyone besides NCCGIA, this metadata file and the data set it describes may contain discrepancies.

**Metadata extensions:**

**Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

**Profile name:** ESRI Metadata Profile

**Metadata extensions:**

**Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

**Profile name:** ESRI Metadata Profile

**Metadata extensions:**

\***Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

\***Profile name:** ESRI Metadata Profile

[Back to Top](#)