

NHD_OthAreas_18

Shapefile



Tags

Stream / Water, Canal / Ditch, US, Hydrography, Lake / Pond, FWHydrography, Swamp / Marsh, Reach Code, Artificial Path, Reservoir, Spring / Seep

Summary

The NHD is a national framework for assigning reach addresses to water-related entities, such as industrial discharges, drinking water supplies, fish habitat areas, wild and scenic rivers. Reach addresses establish the locations of these entities relative to one another within the NHD surface water drainage network, much like addresses on streets. Once linked to the NHD by their reach addresses, the upstream/downstream relationships of these water-related entities--and any associated information about them--can be analyzed using software tools ranging from spreadsheets to geographic information systems (GIS). GIS can also be used to combine NHD-based network analysis with other data layers, such as soils, land use and population, to help understand and display their respective effects upon one another. Furthermore, because the NHD provides a nationally consistent framework for addressing and analysis, water-related information linked to reach addresses by one organization (national, state, local) can be shared with other organizations and easily integrated into many different types of applications to the benefit of all.

**** NOTE *** September 24, 2018, MARIS staff downloaded the statewide geodatabase for MS NHD. We clipped the data sets using a 100 meter buffer of the official MDEQ state border. Staff then projected from lat/long into the MSTM (3814) projection ***

Description

The National Hydrography Dataset (NHD) is a feature-based database that interconnects and uniquely identifies the stream segments or reaches that make up the nation's surface water drainage system. NHD data was originally developed at 1:100,000-scale and exists at that scale for the whole country. This high-resolution NHD, generally developed at 1:24,000/1:12,000 scale, adds detail to the original 1:100,000-scale NHD. (Data for Alaska, Puerto Rico and the Virgin Islands was developed at high-resolution, not 1:100,000 scale.) Local resolution NHD is being developed where partners and data exist. The NHD contains reach codes for networked features, flow direction, names, and centerline representations for areal water bodies. Reaches are also defined on waterbodies and the approximate shorelines of the Great Lakes, the Atlantic and Pacific Oceans and the Gulf of Mexico. The NHD also incorporates the National Spatial Data Infrastructure framework criteria established by the Federal Geographic Data Committee.

Credits

See dataset specific metadata.

Use limitations

None. Acknowledgment of the originating agencies would be appreciated in products derived from these data.

Extent

West -91.738454 **East** -88.094697
North 35.006345 **South** 30.097226

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

* **CONTENT TYPE** Downloadable Data

PLACE KEYWORDS US

THESAURUS ►

TITLE U.S. Department of Commerce, 1977, Countries, dependencies, areas of special sovereignty, and their principal administrative divisions (Federal Information Processing Standards 10-3): Washington, D.C., National Institute of Standards and Technology.

[Hide Thesaurus ▲](#)

THEME KEYWORDS Stream / Water, Canal / Ditch, Hydrography, Lake / Pond, FWHydrography, Swamp / Marsh, Reach Code, Artificial Path, Reservoir, Spring / Seep

THESAURUS ►

TITLE U.S. Department of the Interior, U.S. Geological Survey, 1999, Standards for National Hydrography Dataset (<http://mapping.usgs.gov/standards/>)

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

* **TITLE** NHD_OthAreas_18

PRESENTATION FORMATS * digital map

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners (see dataset specific metadata under Data_Set_Credit for details).

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey
CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT Reston, Virginia

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

STATUS under development

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.5.1.7333

CREDITS

See dataset specific metadata.

ARCGIS ITEM PROPERTIES

* NAME NHD_OthAreas_18

* SIZE 83.064

* LOCATION file:///\\DESKTOP-

TP9LNVL\F\$\DATA\00_HYDROLOGY\NHD_2018_High\mstm_shapefiles\NHD_OthAreas_18.
shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -200

EAST LONGITUDE -56.8344239

SOUTH LATITUDE 0

NORTH LATITUDE 143.165576

EXTENT

DESCRIPTION

See dataset specific metadata.

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -91.738454

* EAST LONGITUDE -88.094697

- * NORTH LATITUDE 35.006345
- * SOUTH LATITUDE 30.097226
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 318473.323374
- * EAST LONGITUDE 651100.732498
- * SOUTH LATITUDE 1035133.983477
- * NORTH LATITUDE 1577952.499235
- * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME Earth Science Information Center, U.S. Geological Survey
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 1 888 ASK USGS

ADDRESS

TYPE postal
DELIVERY POINT 507 National Center
CITY Reston
ADMINISTRATIVE AREA VA
POSTAL CODE 20192
COUNTRY US
E-MAIL ADDRESS ask@usgs.gov

HOURS OF SERVICE

0800-1600 Eastern Time

CONTACT INSTRUCTIONS

In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at URL: http://mapping.usgs.gov/esic/esic_index.html

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY irregular

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

None. Acknowledgment of the originating agencies would be appreciated in products derived from these data.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_Mississippi_TM
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102609

X ORIGIN -5122200

Y ORIGIN -12297100

XY SCALE 450339697.45066422

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3814

WELL-KNOWN TEXT

PROJCS["NAD_1983_Mississippi_TM",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["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 3814
- * CODESPACE EPSG
- * VERSION 6.17.1(10.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME NHD_OthAreas_18

- * OBJECT TYPE composite
- * OBJECT COUNT 2085

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME NHD_OthAreas_18

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 2085
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING TRUE

[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 - TOPOLOGICAL CONSISTENCY ►

EVALUATION METHOD

Points, nodes, lines, and areas conform to topological rules. Lines intersect only at nodes, and all nodes anchor the ends of lines. Lines do not overshoot or undershoot other lines where they are supposed to meet. There are no duplicate lines. Lines bound areas and lines identify the areas to the left and right of the lines. Gaps and overlaps among areas do not exist. All areas close.

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

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

Points, nodes, lines, and areas conform to topological rules. Lines intersect only at nodes, and all nodes anchor the ends of lines. Lines do not overshoot or undershoot other lines where they are supposed to meet. There are no duplicate lines. Lines bound areas and lines identify the areas to the left and right of the lines. Gaps and overlaps among areas do not exist. All areas close.

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

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

The completeness of the data reflects the content of the sources, which most often are the published USGS topographic quadrangle and/or the USDA Forest Service Primary Base Series (PBS) map. The USGS topographic quadrangle is usually supplemented by Digital Orthophoto Quadrangles (DOQs). Features found on the ground may have been eliminated or generalized on the source map because of scale and legibility constraints. In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of their length. Only definite channels were collected so not all swamp/marsh features have stream/rivers delineated through them. Lake/ponds having an area greater than 6 acres were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Reaches codes are defined on all features of type stream/river, canal/ditch, artificial path, coastline, and connector. Waterbody reach codes are defined on all lake/pond and most reservoir features. Names were applied from the GNIS database. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset available online through <http://mapping.usgs.gov/standards/>. This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

The completeness of the data reflects the content of the sources, which most often are the published USGS topographic quadrangle and/or the USDA Forest Service Primary Base Series (PBS) map. The USGS topographic quadrangle is usually supplemented by Digital Orthophoto Quadrangles (DOQs). Features found on the ground may have been eliminated or generalized on the source map because of scale and legibility constraints. In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of their length. Only definite channels were collected so not all swamp/marsh features have stream/rivers delineated through them. Lake/ponds having an area greater than 6 acres were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Reaches codes are defined on all features of type stream/river, canal/ditch, artificial path, coastline, and connector. Waterbody reach codes are defined on all lake/pond and most reservoir features. Names were applied from the GNIS database. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset available online through <http://mapping.usgs.gov/standards/>. This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

Hide Data quality report - Quantitative attribute accuracy ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►
DIMENSION horizontal

MEASURE DESCRIPTION

Statements of horizontal positional accuracy are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of the true position. Additional offsets to positions may have been introduced where feature density is high to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003 inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic) and plots or digital displays of points, lines, and areas, is used as control to assess the positional accuracy of digital data. Digital map elements along the adjoining edges of data sets are aligned if they are within a 0.02 inch tolerance (at map scale). Features with like dimensionality (for example, features that all are delineated with lines), with or without like characteristics, that are within the tolerance are aligned by moving the features equally to a common point. Features outside the tolerance are not moved; instead, a feature of type connector is added to join the features. This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

Hide Data quality report - Absolute external positional accuracy ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►
DIMENSION vertical

MEASURE DESCRIPTION

Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map. This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

Hide Data quality report - Absolute external positional accuracy ▲

Hide Data Quality ▲

Lineage ▶

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED

INDETERMINATE DATE unknown

DESCRIPTION

The processes used to create and maintain high-resolution NHD data can be found in the table called "NHDMetadata". Because NHD data can be downloaded using several user-defined areas, the process descriptions can vary for each download. The NHDMetadata table contains a list of all the process descriptions that apply to a particular download. These process descriptions are linked using the DuuID to the NHDFeatureToMetadata table which contains the com_ids of all the features within the download. In addition, another table, the NHDSourceCitation, can also be linked through the DuuID to determine the sources used to create or update NHD data.

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Geoprocessing history ▶

PROCESS

PROCESS NAME

DATE 2018-09-25 14:00:45

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.5\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

Clip NHDArea stbnd_100_buff

F:\DATA\00_HYDROLOGY\NHD_2018_High\MS_NHD_OthAreas_18.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ▶

DISTRIBUTOR ▶

CONTACT INFORMATION

ORGANIZATION'S NAME Earth Science Information Center, U.S. Geological Survey

CONTACT'S ROLE distributor

CONTACT INFORMATION ▶

PHONE

VOICE 1 888 ASK USGS

ADDRESS

E-MAIL ADDRESS ask@usgs.gov

HOURS OF SERVICE

0800-1600 Eastern Time

CONTACT INSTRUCTIONS

In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at URL: http://mapping.usgs.gov/esic/esic_index.html

Hide Contact information ▲

AVAILABLE FORMAT

NAME ArcGIS Geodatabase

VERSION 8.3

FILE DECOMPRESSION TECHNIQUE tar and uncompress

Hide Distributor ▲

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 83.064

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT NHD_OthAreas_18 ►

* TYPE Feature Class

* ROW COUNT 2085

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 FDate ►

* ALIAS FDate

* DATA TYPE Date

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

Hide Field FDate ▲

FIELD Resolution ►

- * ALIAS Resolution
- * DATA TYPE Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

CanalDitch (336)

2

Levee (568)

2

Spillway (455)

2

Lock Chamber (398)

2

Inundation Area (403)

2

Submerged Stream (461)

2

SeaOcean (445)

2

BayInlet (312)

2

StreamRiver (460)

2

Foreshore (364)

2

Wash (484)

2

Water IntakeOutflow (485)

| |
|--------------------------------|
| 2 |
| Area of Complex Channels (537) |
| 2 |
| DamWeir (343) |
| 2 |
| Area to be Submerged (307) |
| 2 |
| Rapids (431) |
| 2 |
| Bridge (318) |
| 2 |
| Flume (362) |
| 2 |
| Water IntakeOutflow (485) |
| 2 |
| Area to be Submerged (307) |
| 2 |

- * DOMAIN NAME Resolution
- * DESCRIPTION
- * TYPE Coded Value
- * MERGE RULE Default value
- * SPLIT RULE Duplicate

Hide Field Resolution ▲

FIELD GNIS_ID ►

- * ALIAS GNIS_ID
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

Hide Field GNIS_ID ▲

FIELD GNIS_Name ►

- * ALIAS GNIS_Name
- * DATA TYPE String
- * WIDTH 65
- * PRECISION 0
- * SCALE 0

[Hide Field GNIS_Name ▲](#)

FIELD AreaSqKm ►

- * ALIAS AreaSqKm
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

[Hide Field AreaSqKm ▲](#)

FIELD Elevation ►

- * ALIAS Elevation
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

CanalDitch (336)

2

Levee (568)

2

Spillway (455)

2

Lock Chamber (398)

2

Inundation Area (403)

2

Submerged Stream (461)

2

SeaOcean (445)

2

BayInlet (312)

2

StreamRiver (460)

2

Foreshore (364)

| |
|--------------------------------|
| 2 |
| Wash (484) |
| 2 |
| Water IntakeOutflow (485) |
| 2 |
| Area of Complex Channels (537) |
| 2 |
| DamWeir (343) |
| 2 |
| Area to be Submerged (307) |
| 2 |
| Rapids (431) |
| 2 |
| Bridge (318) |
| 2 |
| Flume (362) |
| 2 |
| Water IntakeOutflow (485) |
| no default value |
| Area to be Submerged (307) |
| no default value |
| * DOMAIN NAME ElevationRange |
| * DESCRIPTION |
| * TYPE Range |
| * MERGE RULE Default value |
| * SPLIT RULE Default value |

Hide Field Elevation ▲

FIELD FType ►

- * ALIAS FType
- * DATA TYPE Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

CanalDitch (336)

336

Levee (568)

568

Spillway (455)

455

Lock Chamber (398)

398

Inundation Area (403)

403

Submerged Stream (461)

461

SeaOcean (445)

445

BayInlet (312)

312

StreamRiver (460)

460

Foreshore (364)

364

Wash (484)

484

Water IntakeOutflow (485)

485

Area of Complex Channels (537)

537

DamWeir (343)

343

Area to be Submerged (307)

307

Rapids (431)

431

Bridge (318)

318

Flume (362)

362

Water IntakeOutflow (485)

485

Area to be Submerged (307)

307

[Hide Field FType ▲](#)

FIELD FCode ►

- * ALIAS FCode
- * DATA TYPE Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

CanalDitch (336)

33600

Levee (568)

56800

Spillway (455)

45500

Lock Chamber (398)

39800

Inundation Area (403)

40308

Submerged Stream (461)

46100

SeaOcean (445)

44500

BayInlet (312)

31200

StreamRiver (460)

46006

Foreshore (364)

36400

Wash (484)

48400

Water IntakeOutflow (485)

48500

Area of Complex Channels (537)

53700

DamWeir (343)

34305

Area to be Submerged (307)

30700

Rapids (431)

43100

Bridge (318)

31800

Flume (362)

36200

Water IntakeOutflow (485)

48500

Area to be Submerged (307)

30700

- * DOMAIN NAME Area to be Submerged FCode
- * DESCRIPTION
- * TYPE Coded Value
- * MERGE RULE Default value
- * SPLIT RULE Duplicate

[Hide Field FCode ▲](#)

FIELD [Shape_Area ►](#)

- * ALIAS Shape_Area
- * DATA TYPE Double
- * WIDTH 19
- * 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 FID ►

- * ALIAS FID
- * 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 FID ▲

FIELD Permanent_ ►

- * ALIAS Permanent_
- * DATA TYPE String
- * WIDTH 40
- * PRECISION 0
- * SCALE 0

Hide Field Permanent_ ▲

FIELD Visibility ►

- * ALIAS Visibility
- * DATA TYPE Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0

Hide Field Visibility ▲

FIELD Shape_Leng ►

- * ALIAS Shape_Leng
- * DATA TYPE Double
- * WIDTH 19

- * PRECISION 0
- * SCALE 0

[Hide Field Shape_Leng ▲](#)

[Hide Details for object NHD_OthAreas_18 ▲](#)

DETAILS FOR OBJECT NHDAreaToMeta

- * TYPE Relationship

OVERVIEW DESCRIPTION ►

ENTITY AND ATTRIBUTE OVERVIEW

The National Hydrography Dataset is a comprehensive set of digital spatial data that encodes information about naturally occurring and constructed bodies of water, paths through which water flows, and related entities. The information encoded about features includes a feature date, classification by type, other characteristics, a unique common identifier, the feature length or area, and (rarely) elevation of the surface of water pools and a description of the stage of the elevation. For reaches, encoded information includes a reach code. Names and their identifiers in the Geographic Names Information System, are assigned to most feature types. The direction of flow is encoded for networked features. The data also contains relations that encode metadata, and information that supports the exchange of future updates and improvements to the data. The names and definitions of all feature types, characteristics, and values are in the Standards for National Hydrography Dataset: Reston, Virginia, U.S. Geological Survey, 1999. The document is available online through <http://mapping.usgs.gov/standards/>.

ENTITY AND ATTRIBUTE DETAIL CITATION

The names and definitions of all feature types, characteristics, and values are in U.S. Geological Survey, 1999, Standards for National Hydrography Dataset High Resolution: Reston, Virginia, U.S. Geological Survey. The document is available online through <http://mapping.usgs.gov/standards/>. Information about tables and fields in the data are available from the user documentation for the National Hydrography Dataset at <http://nhd.usgs.gov>. The National Map - Hydrography Fact Sheet is also available at: <http://erg.usgs.gov/isb/pubs/factsheets/fs06002.html>.

[Hide Overview Description ▲](#)

[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 2018-09-26

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2018-09-25 14:14:40

LAST MODIFIED IN ARCGIS FOR THE ITEM 2018-09-26 07:20:57

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2018-09-26 07:20:57

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME Earth Science Information Center, U.S. Geological Survey

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 1 888 ASK USGS

ADDRESS

TYPE postal

DELIVERY POINT 507 National Center

CITY Reston

ADMINISTRATIVE AREA VA

POSTAL CODE 20192.

COUNTRY US

E-MAIL ADDRESS nhd@usgs.gov

HOURS OF SERVICE

0800-1600 Eastern Time

CONTACT INSTRUCTIONS

In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at URL: http://mapping.usgs.gov/esic/esic_index.html

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

ENCLOSURE

ENCLOSURE TYPE **File**
DESCRIPTION OF ENCLOSURE **original metadata**
ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED **yes**
SOURCE METADATA FORMAT **fgdc**

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼

CITATION

CITATION INFORMATION

ORIGINATOR U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners (see dataset specific metadata under Data_Set_Credit for details).

PUBLICATION DATE See dataset specific metadata.

PUBLICATION TIME Unknown

TITLE

NHDArea

GEOSPATIAL DATA PRESENTATION FORM **vector digital data**

PUBLICATION INFORMATION

PUBLICATION PLACE **Reston, Virginia**

PUBLISHER **U.S. Geological Survey**

ONLINE LINKAGE

\\igskbthisusy01\nhdgeo\oracle_export\GDBExtractServer\Template\NHD_File_Template_High_92v210.gdb

DESCRIPTION

ABSTRACT

The National Hydrography Dataset (NHD) is a feature-based database that interconnects and uniquely identifies the stream segments or reaches that make up the nation's surface water drainage system. NHD data was originally developed at 1:100,000-scale and exists at that scale for the whole country. This high-resolution NHD, generally developed at 1:24,000/1:12,000 scale, adds detail to the original 1:100,000-scale NHD. (Data for Alaska, Puerto Rico and the Virgin Islands was developed at high-resolution, not 1:100,000 scale.) Local resolution NHD is being developed where partners and data exist. The NHD contains reach codes for networked features, flow direction, names, and centerline representations for areal water bodies. Reaches are also defined on waterbodies and the approximate shorelines of the Great Lakes, the Atlantic and Pacific Oceans and the Gulf of Mexico. The NHD also incorporates the National Spatial Data Infrastructure framework criteria established by the Federal Geographic Data Committee.

PURPOSE

The NHD is a national framework for assigning reach addresses to water-related entities, such as industrial discharges, drinking water supplies, fish habitat areas, wild and scenic rivers. Reach addresses establish the locations of these entities relative to one another within the NHD surface water drainage network, much like addresses on streets. Once linked to the NHD by their reach addresses, the upstream/downstream relationships of these water-related entities--and any associated information about them--can be analyzed using software tools ranging from spreadsheets to geographic information systems (GIS). GIS can also be used to combine NHD-based network analysis with other data layers, such as soils, land use and population, to help understand and display their respective effects upon one another. Furthermore, because the NHD provides a nationally consistent framework for addressing and analysis, water-related information linked to reach addresses by one organization

(national, state, local) can be shared with other organizations and easily integrated into many different types of applications to the benefit of all.

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.

CURRENTNESS REFERENCE

See dataset specific metadata.

STATUS

PROGRESS In work

MAINTENANCE AND UPDATE FREQUENCY Irregular

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE -200

EAST BOUNDING COORDINATE -56.8344239

NORTH BOUNDING COORDINATE 143.165576

SOUTH BOUNDING COORDINATE 0

KEYWORDS

THEME

THEME KEYWORD THESAURUS U.S. Department of the Interior, U.S. Geological Survey, 1999, Standards for National Hydrography Dataset (<http://mapping.usgs.gov/standards/>)

THEME KEYWORD FWHydrography

THEME KEYWORD Hydrography

THEME KEYWORD Stream / Water

THEME KEYWORD Lake / Pond

THEME KEYWORD Canal / Ditch

THEME KEYWORD Reservoir

THEME KEYWORD Spring / Seep

THEME KEYWORD Swamp / Marsh

THEME KEYWORD Artificial Path

THEME KEYWORD Reach Code

PLACE

PLACE KEYWORD THESAURUS U.S. Department of Commerce, 1977, Countries, dependencies, areas of special sovereignty, and their principal administrative divisions (Federal Information Processing Standards 10-3): Washington, D.C., National Institute of Standards and Technology.

PLACE KEYWORD US

ACCESS CONSTRAINTS

None

USE CONSTRAINTS

None. Acknowledgment of the originating agencies would be appreciated in products derived from these data.

POINT OF CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Earth Science Information Center, U.S. Geological Survey

CONTACT ADDRESS

ADDRESS TYPE mailing address

ADDRESS 507 National Center

CITY Reston

STATE OR PROVINCE VA

POSTAL CODE 20192
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1 888 ASK USGS
CONTACT ELECTRONIC MAIL ADDRESS ask@usgs.gov
HOURS OF SERVICE 0800-1600 Eastern Time
CONTACT INSTRUCTIONS

In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at URL: http://mapping.usgs.gov/esic/esic_index.html

DATA SET CREDIT

See dataset specific metadata.

NATIVE DATA SET ENVIRONMENT

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.3.1.1850

Hide Identification ▲

ATTRIBUTE ACCURACY

ATTRIBUTE ACCURACY REPORT

The completeness of the data reflects the content of the sources, which most often are the published USGS topographic quadrangle and/or the USDA Forest Service Primary Base Series (PBS) map. The USGS topographic quadrangle is usually supplemented by Digital Orthophoto Quadrangles (DOQs). Features found on the ground may have been eliminated or generalized on the source map because of scale and legibility constraints. In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of their length. Only definite channels were collected so not all swamp/marsh features have stream/rivers delineated through them. Lake/ponds having an area greater than 6 acres were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Reaches codes are defined on all features of type stream/river, canal/ditch, artificial path, coastline, and connector. Waterbody reach codes are defined on all lake/pond and most reservoir features. Names were applied from the GNIS database. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset available online through <http://mapping.usgs.gov/standards/>.

This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

LOGICAL CONSISTENCY REPORT

Points, nodes, lines, and areas conform to topological rules. Lines intersect only at nodes, and all nodes anchor the ends of lines. Lines do not overshoot or undershoot other lines where they are supposed to meet. There are no duplicate lines. Lines bound areas and lines identify the areas to the left and right of the lines. Gaps and overlaps among areas do not exist. All areas close.

COMPLETENESS REPORT

The completeness of the data reflects the content of the sources, which most often are the published USGS topographic quadrangle and/or the USDA Forest Service Primary Base Series (PBS) map. The USGS topographic quadrangle is usually supplemented by Digital Orthophoto Quadrangles (DOQs). Features found on the ground may have been eliminated or generalized on the source map because of scale and legibility constraints. In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of their length. Only definite channels were collected so not all swamp/marsh features have stream/rivers delineated through them. Lake/ponds having an area greater than 6 acres were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Reaches codes are defined on all features of type stream/river, canal/ditch, artificial path, coastline, and connector. Waterbody reach

codes are defined on all lake/pond and most reservoir features. Names were applied from the GNIS database. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset available online through <http://mapping.usgs.gov/standards/>.

This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY REPORT

Statements of horizontal positional accuracy are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of the true position. Additional offsets to positions may have been introduced where feature density is high to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003 inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic) and plots or digital displays of points, lines, and areas, is used as control to assess the positional accuracy of digital data. Digital map elements along the adjoining edges of data sets are aligned if they are within a 0.02 inch tolerance (at map scale). Features with like dimensionality (for example, features that all are delineated with lines), with or without like characteristics, that are within the tolerance are aligned by moving the features equally to a common point. Features outside the tolerance are not moved; instead, a feature of type connector is added to join the features.

This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

VERTICAL POSITIONAL ACCURACY

VERTICAL POSITIONAL ACCURACY REPORT

Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map.

This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

LINEAGE

PROCESS STEP

PROCESS DESCRIPTION

The processes used to create and maintain high-resolution NHD data can be found in the table called "NHDMetadata". Because NHD data can be downloaded using several user-defined areas, the process descriptions can vary for each download. The NHDMetadata table contains a list of all the process descriptions that apply to a particular download. These process descriptions are linked using the DuuID to the NHDFeatureToMetadata table which contains the com_ids of all the features within the download. In addition, another table, the NHDSourceCitation, can also be linked through the DuuID to determine the sources used to create or update NHD data.

PROCESS DATE Unknown

PROCESS STEP

PROCESS DESCRIPTION
Dataset copied.
SOURCE USED CITATION ABBREVIATION
\\F880\oracle_export\GDBExtractServer\Template\NHD_Template_High.mdb

PROCESS STEP
PROCESS DESCRIPTION
Metadata imported.
SOURCE USED CITATION ABBREVIATION
D:\Workspace\v107\Metadata\nhdarea.xml
PROCESS DATE 2010-04-21
PROCESS TIME 16:51:38

PROCESS STEP
PROCESS DESCRIPTION
Dataset copied.
SOURCE USED CITATION ABBREVIATION
\\IGSKBTHIWS531\D\ExtractTest\oracle_export\GDBExtractServer\Template\NHD_File
_Template_High_92v200.gdb
PROCESS DATE 2010-05-20
PROCESS TIME 16:12:20

PROCESS STEP
PROCESS DESCRIPTION
Dataset copied.
SOURCE USED CITATION ABBREVIATION
\\igskbthisusy01\nhdgeo\oracle_export\GDBExtractServer\Template\NHD_Template_H
igh_92v210.mdb
PROCESS DATE 2012-02-21
PROCESS TIME 13:58:26

Hide Data Quality ▲

HORIZONTAL COORDINATE SYSTEM DEFINITION
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 DATUM NAME National Geodetic Vertical Datum of 1929
ALTITUDE RESOLUTION 0.000025
ALTITUDE DISTANCE UNITS meters
ALTITUDE ENCODING METHOD Explicit elevation coordinate included with horizontal
coordinates

Hide Spatial Reference ▲

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL NHD_OthAreas_18

ATTRIBUTE
ATTRIBUTE LABEL Shape
ATTRIBUTE DEFINITION
Feature geometry.
ATTRIBUTE DEFINITION SOURCE ESRI
ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN
Coordinates defining the features.

ATTRIBUTE
ATTRIBUTE LABEL FDate

ATTRIBUTE
ATTRIBUTE LABEL Resolution

ATTRIBUTE
ATTRIBUTE LABEL GNIS_ID

ATTRIBUTE
ATTRIBUTE LABEL GNIS_Name

ATTRIBUTE
ATTRIBUTE LABEL AreaSqKm

ATTRIBUTE
ATTRIBUTE LABEL Elevation

ATTRIBUTE
ATTRIBUTE LABEL FType

ATTRIBUTE
ATTRIBUTE LABEL FCode

ATTRIBUTE
ATTRIBUTE LABEL Shape_Area
ATTRIBUTE DEFINITION
Area of feature in internal units squared.

ATTRIBUTE DEFINITION SOURCE ESRI
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Positive real numbers that are automatically generated.

ATTRIBUTE
ATTRIBUTE LABEL FID
ATTRIBUTE DEFINITION
Internal feature number.

ATTRIBUTE DEFINITION SOURCE Esri
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE
ATTRIBUTE LABEL Permanent_

ATTRIBUTE
ATTRIBUTE LABEL Visibility

ATTRIBUTE
ATTRIBUTE LABEL Shape_Leng

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL NHDAreaToMeta

OVERVIEW DESCRIPTION

ENTITY AND ATTRIBUTE OVERVIEW

The National Hydrography Dataset is a comprehensive set of digital spatial data that encodes information about naturally occurring and constructed bodies of water, paths through which water flows, and related entities. The information encoded about features includes a feature date, classification by type, other characteristics, a unique common identifier, the feature length or area, and (rarely) elevation of the surface of water pools and a description of the stage of the elevation. For reaches, encoded information includes a reach code. Names and their identifiers in the Geographic Names Information System, are assigned to most feature types. The direction of flow is encoded for networked features. The data also contains relations that encode metadata, and information that supports the exchange of future updates and improvements to the data. The names and definitions of all feature types, characteristics, and values are in the Standards for National Hydrography Dataset: Reston, Virginia, U.S. Geological Survey, 1999. The document is available online through <http://mapping.usgs.gov/standards/>.

ENTITY AND ATTRIBUTE DETAIL CITATION

The names and definitions of all feature types, characteristics, and values are in U.S. Geological Survey, 1999, Standards for National Hydrography Dataset High Resolution: Reston, Virginia, U.S. Geological Survey. The document is available online through <http://mapping.usgs.gov/standards/>. Information about tables and fields in the data are available from the user documentation for the National Hydrography Dataset at <http://nhd.usgs.gov>. The National Map - Hydrography Fact Sheet is also available at: <http://erg.usgs.gov/isb/pubs/factsheets/fs06002.html>.

Hide Entities and Attributes ▲

DISTRIBUTOR

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Earth Science Information Center, U.S. Geological Survey

CONTACT VOICE TELEPHONE 1 888 ASK USGS

CONTACT ELECTRONIC MAIL ADDRESS ask@usgs.gov

HOURS OF SERVICE 0800-1600 Eastern Time

CONTACT INSTRUCTIONS

In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at URL: http://mapping.usgs.gov/esic/esic_index.html

RESOURCE DESCRIPTION Downloadable Data

STANDARD ORDER PROCESS

DIGITAL FORM

DIGITAL TRANSFER INFORMATION

FORMAT NAME ArcGIS Geodatabase

FORMAT VERSION NUMBER 8.3

FILE DECOMPRESSION TECHNIQUE tar and uncompress

Hide Distribution Information ▲

METADATA DATE 2010-05-21

METADATA CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Earth Science Information Center, U.S. Geological Survey

CONTACT PERSON REQUIRED: The person responsible for the metadata information.

CONTACT ADDRESS

ADDRESS TYPE mailing address

ADDRESS 507 National Center

CITY Reston

STATE OR PROVINCE VA

POSTAL CODE 20192.
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1 888 ASK USGS
CONTACT ELECTRONIC MAIL ADDRESS nhd@usgs.gov
HOURS OF SERVICE 0800-1600 Eastern Time
CONTACT INSTRUCTIONS

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METADATA STANDARD NAME FGDC Content Standards for Digital Geospatial Metadata
METADATA STANDARD VERSION FGDC-STD-001-1998
METADATA TIME CONVENTION local time

[Hide Metadata Reference](#) ▲