

MS_NHDFlowline_Jun2020

Shapefile



Tags

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

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.

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.

**** MARIS staff clipped the June 5, 2020 Mississippi NHD geodatabase flowline feature with a 100 meter buffer around the state border to create this shapefile ****

Credits

Credits

See dataset specific metadata.

Use limitations

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

Extent

West -91.736542 **East** -88.094807
North 35.006344 **South** 30.162422

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

* CONTENT TYPE Downloadable Data

Hide Topics and Keywords ▲

Citation ►

* TITLE MS_NHDFlowline_Jun2020
PUBLICATION DATE 2020-10-27 00:00:00

PRESENTATION FORMATS * digital map

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY
INDIVIDUAL'S NAME USGS
ORGANIZATION'S NAME USGS NHD
CONTACT'S ROLE originator

Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ;
Esri ArcGIS 10.7.1.11595

CREDITS

See dataset specific metadata.

ARCGIS ITEM PROPERTIES

* NAME MS_NHDFlowline_Jun2020

* SIZE 1156.302

* LOCATION file:///\\DESKTOP-

TP9LNVL\F\$\DATA\00_HYDROLOGY\NHD_2020_High_
Jun\MS_NHDFlowline_Jun2020.shp

* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT

VERTICAL EXTENT

* MINIMUM VALUE -1.640400

* MAXIMUM VALUE 0.000000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -91.736542

* EAST LONGITUDE -88.094807

- * NORTH LATITUDE 35.006344
- * SOUTH LATITUDE 30.162422
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 318648.001824
- * EAST LONGITUDE 651090.732528
- * SOUTH LATITUDE 1042361.125120
- * NORTH LATITUDE 1577952.340621
- * EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

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 -1074.5620235000019
Z SCALE 4194304001953.124
M ORIGIN -1023.5810235000022
M SCALE 4194304001953.124
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_America
n_1983",SPHEROID["GRS_1980",6378137.0,298.25
7222101]],PRIMEM["Greenwich",0.0],UNIT["Degree
",0.0174532925199433]],PROJECTION["Transverse
_Mercator"],PARAMETER["False_Easting",500000.0],
PARAMETER["False_Northing",1300000.0],PARAMET
ER["Central_Meridian",-
89.75],PARAMETER["Scale_Factor",0.9998335],PAR
AMETER["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 MS_NHDFlowline_Jun2020

* OBJECT TYPE composite

* OBJECT COUNT 974666

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS_NHDFlowline_Jun2020

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 974666

* SPATIAL INDEX TRUE

* LINEAR REFERENCING TRUE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2020-10-26 19:11:07

TOOL LOCATION c:\program files

(x86)\arcgis\desktop10.7\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

```
Clip NHDFlowline stbnd_100_buff  
F:\DATA\00_HYDROLOGY\NHD_2020_High_Jun\LatLon  
gVersions\MS_NHD_Flowlines_Jun2020_11.shp #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA **No**

Hide Geoprocessing history ▲

Distribution ►

DISTRIBUTOR ►

AVAILABLE FORMAT

* **NAME** Personal GeoDatabase Feature Class

TRANSFER OPTIONS

ONLINE SOURCE

* **LOCATION**

file:///\\igskbthisusy01\nhdgeo\oracle_export\GDBEx
tractServer\Template\NHD_File_Template_High_92v
210.gdb

* **ACCESS PROTOCOL** Local Area Network

* **DESCRIPTION** Downloadable Data

Hide Distributor ▲

DISTRIBUTION FORMAT

* **NAME** Shapefile

TRANSFER OPTIONS

* **TRANSFER SIZE** 1156.302

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT MS_NHDFlowline_Jun2020 ►

- * TYPE Feature Class
- * ROW COUNT 974666

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)

ArtificialPath (558)

0

CanalDitch (336)

0

Pipeline (428)

0

Underground Conduit (420)

0

StreamRiver (460)

0

Connector (334)

0

Coastline (566)

0

- * 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 LengthKM ►

- * ALIAS LengthKM

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

Hide Field LengthKM ▲

FIELD ReachCode ►

- * ALIAS ReachCode
- * DATA TYPE String
- * WIDTH 14
- * PRECISION 0
- * SCALE 0

Hide Field ReachCode ▲

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 FlowDir ►

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

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

ArtificialPath (558)

0

CanalDitch (336)

0

Pipeline (428)

0

Underground Conduit (420)

0

StreamRiver (460)

0

Connector (334)

0

Coastline (566)

0

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

Hide Field FlowDir ▲

FIELD Permanent_ ►

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

Hide Field Permanent_ ▲

FIELD FType ►

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

SUBTYPE INFORMATION

* SUBTYPE NAME (SUBTYPE CODE)

ArtificialPath (558)

558

CanalDitch (336)

336

Pipeline (428)

428

Underground Conduit (420)

420

StreamRiver (460)

460

Connector (334)

334

Coastline (566)

566

* DOMAIN NAME HydroFlowDirections

* DESCRIPTION

* TYPE Coded Value

* MERGE RULE Default value

* SPLIT RULE Duplicate

Hide Field FType ▲

FIELD FCode ►

* ALIAS FCode

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

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

ArtificialPath (558)

55800

CanalDitch (336)

33600

Pipeline (428)

42805

Underground Conduit (420)

42000

StreamRiver (460)

46006

Connector (334)

33400

Coastline (566)

56600

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

Hide Field FCode ▲

FIELD WBArea_Per ►

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

Hide Field WBArea_Per ▲

FIELD MainPath ►

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

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

ArtificialPath (558)

0

CanalDitch (336)

0

Pipeline (428)

0

Underground Conduit (420)

0

StreamRiver (460)

0

Connector (334)

0

Coastline (566)

0

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

Hide Field MainPath ▲

FIELD InNetwork ►

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

SUBTYPE INFORMATION

- * SUBTYPE NAME (SUBTYPE CODE)

ArtificialPath (558)

1
CanalDitch (336)
1
Pipeline (428)
1
Underground Conduit (420)
1
StreamRiver (460)
1
Connector (334)
1
Coastline (566)
1

- * DOMAIN NAME NoYes Domain
- * DESCRIPTION
- * TYPE Coded Value
- * MERGE RULE Default value
- * SPLIT RULE Default value

Hide Field InNetwork ▲

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 MS_NHDFlowline_Jun2020 ▲

DETAILS FOR OBJECT NHDFlowlineToMeta

* 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 2020-10-27

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 2020-10-26 19:16:57
LAST MODIFIED IN ARCGIS FOR THE ITEM 2020-10-27
94:50:60

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2020-10-27 09:42:17

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME USGS
ORGANIZATION'S NAME USGS NHD
CONTACT'S ROLE originator

Hide Metadata Contacts ▲

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

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

MS_NHDFlowline_Jun2020

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.** MARIS staff clipped the June 5, 2020 Mississippi NHD geodatabase flowline feature with a 100 meter buffer around the state border to create this shapefile ** *** Credits

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 / River

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 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

Statements of attribute accuracy are based on accuracy statements made for U.S. Geological Survey Digital Line Graph (DLG) data, which is estimated to be 98.5 percent. One or more of the following methods were used to test attribute accuracy: manual comparison of the source with hardcopy plots; symbolized display of the DLG on an interactive computer graphic system; selected attributes that could not be visually verified on plots or on screen were interactively queried and verified on screen. In addition, software validated feature types and characteristics against a master set of types and characteristics, checked that combinations of types and characteristics were valid, and that types and characteristics were valid for the delineation of the feature. Feature types, characteristics, and other attributes conform to the Standards for National Hydrography Dataset (USGS, 1999) as of the date they were loaded into the database. All names were validated against a current extract from the Geographic Names Information System (GNIS). The entry and identifier for the names match those in the GNIS. The association of each name to reaches has been interactively checked, however, operator error could in some cases apply a name to a wrong reach.

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/river 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\nhdflowline.xml

PROCESS DATE 2010-04-21

PROCESS TIME 16:52:09

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 16:12:19

PROCESS STEP

PROCESS DESCRIPTION

Dataset copied.

SOURCE USED CITATION ABBREVIATION

\\igskbthisusy01\nhdgeo\oracle_export\GDBExtractServer\Template\NHD_Template_High_92v210.mdb

PROCESS DATE 2012-02-21

PROCESS TIME 13:58:25

Hide Data Quality ▲

HORIZONTAL COORDINATE SYSTEM DEFINITION

GEODETTIC 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 MS_NHDFlowline_Jun2020

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 LengthKM

ATTRIBUTE

ATTRIBUTE LABEL ReachCode

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 FlowDir

ATTRIBUTE

ATTRIBUTE LABEL Permanent_

ATTRIBUTE

ATTRIBUTE LABEL FType

ATTRIBUTE

ATTRIBUTE LABEL FCode

ATTRIBUTE

ATTRIBUTE LABEL WBArea_Per

ATTRIBUTE

ATTRIBUTE LABEL MainPath

ATTRIBUTE

ATTRIBUTE LABEL InNetwork

ATTRIBUTE

ATTRIBUTE LABEL Visibility

ATTRIBUTE

ATTRIBUTE LABEL Shape_Leng

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL NHDFlowlineToMeta

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 ▲

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 2010-05-20

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

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

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](#) ▲