

MS_NHDFlowlines_May2022

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 May 7, 2022 Mississippi NHD geodatabase flowline feature with a 100 meter buffer around the state border to create this shapefile **

Credits

USGS, MARIS

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_NHDFlowlines_May2022

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 10.9.1.28388

CREDITS

USGS, MARIS

ARCGIS ITEM PROPERTIES

* NAME MS_NHDFlowlines_May2022

* SIZE 1354.737

* LOCATION file:///\\DESKTOP-

TP9LNVL\F\$\DATA\00_HYDROLOGY\NHD_2022_High_May\MS_NHDFlowlines_May2022.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 651090.739593
- * 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 -1023.5809734999998
 - 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_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 MS_NHDFlowlines_May2022

* OBJECT TYPE composite

* OBJECT COUNT 1182391

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS_NHDFlowlines_May2022

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1182391

* SPATIAL INDEX TRUE

* LINEAR REFERENCING TRUE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2022-05-07 01:03:51

TOOL LOCATION c:\program files\arcgis\server\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append

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"InNetwork" true true false 4 Long 0 0
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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No
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PROCESS

PROCESS NAME

DATE 2022-05-09 13:38:41

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.8\ArcToolbox\Toolboxes\Analysis
Tools.tbx\Clip

COMMAND ISSUED

Clip NHDFlowline stbnd_100m buff

F:\DATA\00_HYDROLOGY\NHD_2022_High_May\MS_NHDFlowline_May2022.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 1354.737

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT MS_NHDFlowlines_May2022 ►

* TYPE Feature Class

* ROW COUNT 1182391

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
- * 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
- * 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
- * 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
- * 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
- * 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

* 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_NHDFlowlines_May2022 ▲](#)

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)

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2022-05-10

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2022-05-09 14:30:22
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-05-10 75:31:20

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2022-05-10 07:51:39

[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) ▼

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL MS_NHDFlowlines_May2022

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>.

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