MS_NHDWaterbody_Dec2022

Shapefile

Thumbnail Not Available

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 December 5, 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	-91.715243	**East**	-88.094651
North	35.006345	**South**	30.162710

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_NHDWaterbody_Dec2022
PUBLICATION DATE 2022-12-05 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_NHDWaterbody_Dec2022
* SIZE 408.048
* LOCATION file://\\DESKTOP-TP9LNVL\F$\DATA\00_HYDROLOGY\NHD_2022_High_Dec\MS_NHDWaterbody_Dec2022.shp
* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -91.715243
* EAST LONGITUDE -88.094651
* NORTH LATITUDE 35.006345

* SOUTH LATITUDE 30.162710
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 320593.435860
* EAST LONGITUDE 651104.983935
* SOUTH LATITUDE 1042361.125120
* NORTH LATITUDE 1577952.499235
* 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 -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 MS_NHDWaterbody_Dec2022
* OBJECT TYPE composite
* OBJECT COUNT 200811

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME MS_NHDWaterbody_Dec2022
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 200811
* SPATIAL INDEX TRUE
* LINEAR REFERENCING TRUE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Geoprocessing history ►

PROCESS
PROCESS NAME
DATE 2022-12-05 15:11:01
TOOL LOCATION c:\program files\arcgis\server\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append
COMMAND ISSUED

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1;reachcode "ReachCode" true true false 14 Text 0 0
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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS
PROCESS NAME
DATE 2022-12-13 07:35:21
TOOL LOCATION c:\program files (x86)\arcgis\desktop10.8\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip
COMMAND ISSUED

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Clip NHDWaterbody stbnd_100m_buff
F:\DATA\00_HYDROLOGY\NHD_2022_High_Dec\Clipped\NHDWaterbody_Dec2022_LLClippe
d.shp #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

Hide Geoprocessing history ▲

Distribution ►

DISTRIBUTION FORMAT
* NAME Shapefile

TRANSFER OPTIONS
* TRANSFER SIZE 408.048

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT MS_NHDWaterbody_Dec2022 ►
* TYPE Feature Class
* ROW COUNT 200811

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)

Ice Mass (378)

0

SwampMarsh (466)

0

Estuary (493)

0

Playa (361)

0

LakePond (390)

0

Reservoir (436)

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 AreaSqKm ►
* ALIAS areasqkm
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

Hide Field AreaSqKm ▲

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 Elevation ►
* ALIAS elevation
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

SUBTYPE INFORMATION

* SUBTYPE NAME (SUBTYPE CODE)

Ice Mass (378)

no default value

SwampMarsh (466)

no default value

Estuary (493)

no default value

Playa (361)

no default value

LakePond (390)

no default value

Reservoir (436)

no default value

* DOMAIN NAME ElevationRange
* TYPE Range
* MERGE RULE Default value
* SPLIT RULE Default value

Hide Field Elevation ▲

FIELD Permanent_ ►
* ALIAS permanent_
* DATA TYPE String
* WIDTH 40
* PRECISION 0
* SCALE 0

Hide Field Permanent_ ▲

FIELD ReachCode ►
* ALIAS reachcode
* DATA TYPE String
* WIDTH 14
* PRECISION 0
* SCALE 0

Hide Field ReachCode ▲

FIELD FType ►
* ALIAS ftype
* DATA TYPE Integer

* WIDTH 10
* PRECISION 10
* SCALE 0

SUBTYPE INFORMATION

* SUBTYPE NAME (SUBTYPE CODE)

Ice Mass (378)

378

SwampMarsh (466)

466

Estuary (493)

493

Playa (361)

361

LakePond (390)

390

Reservoir (436)

436

* DOMAIN NAME ElevationRange
* TYPE Range
* MERGE RULE Default value
* SPLIT RULE Default value

Hide Field FType ▲

FIELD FCode ►
* ALIAS fcode
* DATA TYPE Integer
* WIDTH 10
* PRECISION 10
* SCALE 0

SUBTYPE INFORMATION

* SUBTYPE NAME (SUBTYPE CODE)

Ice Mass (378)

37800

SwampMarsh (466)

46600

Estuary (493)

49300

Playa (361)

36100

LakePond (390)

39004

Reservoir (436)

43600

* DOMAIN NAME Reservoir FCode
* 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 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_NHDWaterbody_Dec2022 ▲

DETAILS FOR OBJECT NHDWaterbodyToMeta
* 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 2022-12-13

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

CREATED IN ARCGIS FOR THE ITEM 2022-12-13 08:14:55
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-12-13 08:16:07

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2022-12-13 08:16:07

Hide Metadata Details ▲

FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL MS_NHDWaterbody_Dec2022

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 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 Elevation

ATTRIBUTE
ATTRIBUTE LABEL Permanent_

ATTRIBUTE
ATTRIBUTE LABEL ReachCode

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 Visibility

ATTRIBUTE
ATTRIBUTE LABEL Shape_Leng

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL NHDWaterbodyToMeta

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 ▲