

MS NHD Flowlines December 2023

Shapefile



Tags

Rankin, Neshoba, Jefferson Davis, HU16, ForeShore, dams, Marion, DeSoto, Subwatershed, Simpson, Subregion, ngda, Carroll, Area of Complex Channels, lakes, Lawrence, National Hydrography Dataset (NHD) Best Resolution, Watershed, Quitman, US, Hazard Zone, artificial path, Union, Reservoir, boundaries, drainage systems and characteristics, Submerged Stream, Leake, Hydrography, Boundary, Sub-region, Reef, Surface water systems, Underground Conduit, FileGDB, Marshall, Sub-basin, Basin, George, State, Well, Clarke, Yalobusha, Boundaries, Sounding Datum Line, Lamar, PointEvent, MS, Orthoimage, Holmes, Stone, HUC, HU8, HU14, Tippah, Tate, National Hydrography Dataset (NHD) Best Resolution, Wash, Copiah, Coastline, Spillway, Hydrography, Jasper, Waterfall, Stream/River, Marsh, Gaging Station, Lincoln, Drainageway, Line, Oktibbeha, Winston, HU6, Warren, National Hydrography Dataset (NHD), Hydrographic, Rock, HU2, Webster, United States, Coahoma, Leflore, Dam/Weir, Adams, Lauderdale, Wall, Jefferson, Inundation Area, Hydrologic Unit Code, Hydrologic Units, Connector, Estuary, Claiborne, Calhoun, Benton, Franklin, Pike, HU10, Grenada, Clay, Sea/Ocean, Scott, Madison, Ice mass, Lafayette, Swamp, Montgomery, Bridge, Washington, Bay/Inlet, Itawamba, Jackson, WBD, HU4, Pontotoc, Lowndes, Gate, Noxubee, Humphreys, Levee, Reach, Sharkey, Hancock, Reach code, Jones, rivers, Esri File GeoDatabase 10, Playa, Region, Bolivar, Choctaw, Subbasin, Watershed Boundaries, Hinds, Tallahatchie, HU12, State, Attala, Covington, Flow direction network, Newton, Canal/Ditch, Forrest, Lock Chamber, Amite, Downloadable Data, Chickasaw, Nonearthen Shore, Monroe, Pond, Sink/Rise, Special Use Zone, Panola, Mississippi, Point, Stream, Tunica, Water Intake Outflow, Harrison, Yazoo, Tunnel, Kemper, Drainage areas for surface water, Watershed Boundary Dataset, Walthall, Wayne, Smith, Wilkinson, Tishomingo, Greene, Topographic, Rapids, Alcorn, Administrative watershed units, Issaquena, Special Use Zone Limit, Lee, State_Mississippi, Flume, Perry, Pearl River, Prentiss, Area to be submerged, Hydrography, inlandWaters, Sunflower

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.

*** In March 2024, MARIS staff downloaded the December 27, 2023 version of this dataset in geodatabase format. The Flowlines layer was separated then clipped on a 100m state border. This shapefile was projected into MARIS' MSTM 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

USGS, MDEQ, MARIS

Use limitations

None. However, users should be aware that temporal changes may have occurred since this data set was collected and that some parts of this data may no longer represent actual surface conditions. Users should not use this data for critical applications without a full awareness of its limitations. Acknowledgment of the U.S. Geological Survey would be appreciated for products derived from these data.

Extent

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

Scale Range

Maximum (zoomed in) 1:24,000
Minimum (zoomed out) 1:24,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters, boundaries

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Rankin, Neshoba, Jefferson Davis, Marion, DeSoto, Simpson, Carroll, Lawrence, Quitman, US, Union, Leake, Marshall, George, Clarke, Yalobusha, Lamar, MS, Holmes, Stone, Tippah, Tate, Copiah, Jasper, Lincoln, Oktibbeha, Winston, Warren, Webster, United States, Coahoma, Leflore, Adams, Lauderdale, Jefferson, Claiborne, Calhoun, Benton, Franklin, Pike, Grenada, Clay, Scott, Madison, Lafayette, Montgomery, Washington, Itawamba, Jackson, Pontotoc, Lowndes, Noxubee, Humphreys, Sharkey, Hancock, Jones, Bolivar, Choctaw, Hinds, Tallahatchie, Attala, Covington, Newton, Forrest, Amite, Chickasaw, Monroe, Panola, Mississippi, Tunica, Harrison, Yazoo, Kemper, Walthall, Wayne, Smith, Wilkinson, Tishomingo, Greene, Alcorn, Issaquena, Lee, State_Mississippi, Perry, Pearl River, Prentiss, Sunflower

THESAURUS ▶

TITLE Geographic Names Information System

[Hide Thesaurus ▲](#)

THEME KEYWORDS ngda, Hydrography

THESAURUS ▶

TITLE Geospatial Platform

[Hide Thesaurus ▲](#)

THEME KEYWORDS State

THESAURUS ▶

TITLE The National Map Product Extent Thesaurus

[Hide Thesaurus ▲](#)

THEME KEYWORDS Hydrography

THESAURUS ▶

TITLE The National Map Theme Thesaurus

[Hide Thesaurus ▲](#)

THEME KEYWORDS FileGDB

THESAURUS ▶

TITLE The National Map Product Format Thesaurus

[Hide Thesaurus ▲](#)

THEME KEYWORDS National Hydrography Dataset (NHD) Best Resolution, National Hydrography Dataset (NHD)

THESAURUS ▶

TITLE The National Map Collection Thesaurus

[Hide Thesaurus ▲](#)

THEME KEYWORDS Downloadable Data

THESAURUS ►

TITLE The National Map Type Thesaurus

[Hide Thesaurus ▲](#)

THEME KEYWORDS HU16, ForeShore, dams, Subwatershed, Subregion, Area of Complex Channels, lakes, Watershed, Hazard Zone, artificial path, Reservoir, boundaries, drainage systems and characteristics, Submerged Stream, Boundary, Sub-region, Reef, Surface water systems, Underground Conduit, Sub-basin, Basin, State, Well, Boundaries, Sounding Datum Line, PointEvent, Orthoimage, HUC, HU8, HU14, National Hydrography Dataset (NHD) Best Resolution, Wash, Coastline, Spillway, Waterfall, Stream/River, Marsh, Gaging Station, Drainageway, Line, HU6, Hydrographic, Rock, HU2, Dam/Weir, Wall, Inundation Area, Hydrologic Unit Code, Hydrologic Units, Connector, Estuary, HU10, Sea/Ocean, Ice mass, Swamp, Bridge, Bay/Inlet, WBD, HU4, Gate, Levee, Reach, Reach code, rivers, Esri File GeoDatabase 10, Playa, Region, Subbasin, Watershed Boundaries, HU12, Flow direction network, Canal/Ditch, Lock Chamber, Nonearthen Shore, Pond, Sink/Rise, Special Use Zone, Point, Stream, Water Intake Outflow, Tunnel, Drainage areas for surface water, Watershed Boundary Dataset, Topographic, Rapids, Administrative watershed units, Special Use Zone Limit, Flume, Area to be submerged, Hydrography

THEME KEYWORDS inlandWaters

THESAURUS ►

TITLE ISO 19115 Topic Category

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE MS NHD Flowlines December 2023

PUBLICATION DATE 2023-12-27

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

COLLECTION TITLE National Hydrography Dataset (NHD) Best Resolution

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey, National Geospatial Program

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT Reston, VA

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

GRAPHIC OVERVIEW

FILE NAME [https://prd-](https://prd-tnm.s3.amazonaws.com/StagedProducts/Hydrography/NHD/State/GDB/NHD_H_Mississippi_State_GDB.jpg)

[tnm.s3.amazonaws.com/StagedProducts/Hydrography/NHD/State/GDB/NHD_H_Mississippi_State_GDB.jpg](https://prd-tnm.s3.amazonaws.com/StagedProducts/Hydrography/NHD/State/GDB/NHD_H_Mississippi_State_GDB.jpg)

FILE DESCRIPTION Thumbnail JPG image

FILE TYPE JPEG

SUPPLEMENTAL INFORMATION

This data comprises hydrological data, including flow lines, water bodies and water features.; {"inventory":"04aefd58-e926-34ab-0dcd-daeec1d1d032"}

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.9.1.28388

CREDITS

USGS, MDEQ, MARIS

ARCGIS ITEM PROPERTIES

* NAME MS_NHDFlowlines_Dec23

* SIZE 1428.783

* LOCATION file:///DESKTOP-

TP9LNVL\F\$\DATA\00_HYDROLOGY\NHD_2023_High_Dec\MS_NHDFlowlines_Dec23.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

BEGINNING DATE 2023-12-26

ENDING DATE 2023-12-27

VERTICAL EXTENT

* MINIMUM VALUE -2.626300
* MAXIMUM VALUE 377.910100

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -91.65501
EAST LONGITUDE -88.09789
SOUTH LATITUDE 30.13985
NORTH LATITUDE 34.9961

VERTICAL EXTENT

* MINIMUM VALUE -2.626300
* MAXIMUM VALUE 377.910100

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 Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY irregular

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

No liability for content or accuracy is presumed by USGS for data.

CONSTRAINTS

LIMITATIONS OF USE

None. However, users should be aware that temporal changes may have occurred since this data set was collected and that some parts of this data may no longer represent actual surface conditions. Users should not use this data for critical applications without a full awareness of its limitations. Acknowledgment of the U.S. Geological Survey would be appreciated for 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 -886.09992350000493

Z SCALE 4194304001953.124

M ORIGIN -1023.7418235

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_Dec23

* OBJECT TYPE composite

* OBJECT COUNT 1354798

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME MS_NHDFlowlines_Dec23

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 1354798
- * 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. Reach 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 <https://prd-wret.s3-us-west-2.amazonaws.com/assets/palladium/production/atoms/files/NHD%201999%20Draft%20Standards%20-%20Capture%20conditions.PDF>.

[Hide Data quality report - Completeness omission ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►
MEASURE DESCRIPTION

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.

[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.

[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.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2012-11-05

DESCRIPTION

New reaches were assigned reach code values that are sequentially ordered to 2-D and then 1-D reaches. New high-res reach codes are larger than any existing med-res reach code in the associated Catalog Unit. Additional Geographic Names that exist in the Geographic Names Information System (GNIS) were added to reaches in the high-res dataset. Names for the high-res drainage network were interactively transferred from the vector GNIS coverage. Additional GNIS names for point and water body features were also added.

[Hide Process step ▲](#)

SOURCE DATA ►
DESCRIPTION

Hydrography features and feature names

RESOLUTION OF THE SOURCE DATA
SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Hydrography
ALTERNATE TITLES Hydrography
PUBLICATION DATE 2010-08-20

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

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. The high-resolution NHD was originally created using 1:24,000-scale data. State and Local Stewards are improving the data by incorporating local updates based on more current and more accurate source data. Water features in the real world are relatively dynamic and the differences at the time of data collection mean that water features may not register exactly to other layers. The hydrographic feature names contained in and displayed by the NHD are extracted and validated from the Geographic Names Information System (GNIS). Spatial objects may be filtered or generalized to achieve a 1:24,000-scale representation.

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. National Hydrography Dataset is a component of a comprehensive base geospatial data model.

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION https://www.usgs.gov/core-science-systems/ngp/national-hydrography/national-hydrography-dataset?qt-science_support_page_related_con=0#qt-science_support_page_related_con

RESOURCE LOCATION ONLINE

LOCATION <https://www.usgs.gov/core-science-systems/ngp/board-on-geographic-names>

RESOURCE LOCATION ONLINE

LOCATION <https://www.usgs.gov/core-science-systems/ngp/national-hydrography>

Hide Source citation ▲

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

BEGINNING DATE 2010-08-20

ENDING DATE 2010-08-20

Hide Source data ▲

SOURCE DATA ►

DESCRIPTION

U.S. Geological Survey

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Watershed Boundary Dataset (WBD)

ALTERNATE TITLES Watershed Boundary Dataset

PUBLICATION DATE 2012-01-01

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

The Watershed Boundary Dataset (WBD) defines the areal extent of surface water drainage to a point, accounting for all land and surface areas. Watershed Boundaries are determined solely upon science-based hydrologic principles, not favoring any administrative boundaries or special projects, nor particular program or agency. The intent of defining Hydrologic Units (HU) for the Watershed Boundary Dataset is to establish a base-line drainage boundary framework, accounting for all land and surface areas. Hydrologic units are given a Hydrologic Unit Code (HUC). For example, a hydrologic region has a 2-digit HUC. A HUC describes where the unit is in the country and the level of the unit.

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey, National Geospatial Technical Operations Center

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <http://nhd.usgs.gov/wbd.html>

Hide Source citation ▲

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

BEGINNING DATE 1972-01-01

ENDING DATE 2012-01-01

[Hide Source data ▲](#)

SOURCE DATA ►

DESCRIPTION

Hydrography features and gaging stations

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Gaging Stations

ALTERNATE TITLES Hydrography - Gaging Stations

PUBLICATION DATE 2011-01-01

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

This dataset, termed "GAGES II", an acronym for Geospatial Attributes of Gages for Evaluating Streamflow, version II, provides geospatial data and classifications for 9,322 stream gages maintained by the U.S. Geological Survey (USGS). It is an update to the original GAGES in 2010. The GAGES II dataset consists of gages which have had either 20+ complete years (not necessarily continuous) of discharge record since 1950, or are currently active, as of water year 2009, and whose watersheds lie within the United States, including Alaska, Hawaii, and Puerto Rico. Only active stations, as identified by the GAGES II dataset, are symbolized.

RESPONSIBLE PARTY

ORGANIZATION'S NAME Global Land Ice Measurements from Space initiative (GLIMS)

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION http://water.usgs.gov/lookup/getspatial?gagesII_Sept2011

RESOURCE LOCATION ONLINE

LOCATION http://water.usgs.gov/GIS/metadata/usgswrd/XML/gagesII_Sept2011.xml

[Hide Source citation ▲](#)

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2024-03-26 13:11:06

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_2023_High_Dec\MS_NHDFlowlines_Dec23LL.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME U.S. Geological Survey, National Geospatial Technical Operations Center

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

VOICE 1-888-ASK-USGS (1-888-275-8747)

ADDRESS

TYPE both

DELIVERY POINT Box 25046 Denver Federal Center

CITY Lakewood

ADMINISTRATIVE AREA CO

POSTAL CODE 80225

E-MAIL ADDRESS <https://answers.usgs.gov/>

HOURS OF SERVICE

Monday through Friday 8:00 AM to 4:00 PM

CONTACT INSTRUCTIONS

Metadata information can also be obtained through online services using The National Map Viewer, at <https://apps.nationalmap.gov/viewer/> or EarthExplorer, at <http://earthexplorer.usgs.gov> or Ask USGS at <https://answers.usgs.gov/>.

[Hide Contact information ▲](#)

AVAILABLE FORMAT

NAME Esri File GeoDatabase

VERSION 10

FILE DECOMPRESSION TECHNIQUE ZIP lossless data compression has been applied using a DEFLATE algorithm.
FORMAT INFORMATION CONTENT Spatial objects with unique identifiers and coordinate data.

ORDERING PROCESS

TERMS AND FEES None

TRANSFER OPTIONS

TRANSFER SIZE 831.13

ONLINE SOURCE

LOCATION https://prd-tnm.s3.amazonaws.com/StagedProducts/Hydrography/NHD/State/GDB/NHD_H_Mississippi_State_GDB.zip

Hide Distributor ▲

DISTRIBUTION FORMAT

* **NAME** Shapefile

VERSION 10.8.1

TRANSFER OPTIONS

* **TRANSFER SIZE** 1428.783

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT [MS_NHDFlowlines_Dec23](#) ►

* **TYPE** Feature Class

* **ROW COUNT** 1354798

DEFINITION

flowlines

DEFINITION SOURCE

USGS

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 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 permanent_ ►

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

Hide Field permanent_ ▲

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

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

FIELD DESCRIPTION
name of feature

DESCRIPTION SOURCE
USGS

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 flowdir ►

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

Hide Field flowdir ▲

FIELD wbarea_per ►

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

Hide Field wbarea_per ▲

FIELD ftype ►

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

Hide Field ftype ▲

FIELD fcode ►

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

Hide Field fcode ▲

FIELD mainpath ►

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

Hide Field mainpath ▲

FIELD innetwork ▶

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

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_Dec23 ▲

OVERVIEW DESCRIPTION ▶

ENTITY AND ATTRIBUTE OVERVIEW

All feature types, characteristics, and values are in U.S. Geological Survey, 1999, Standards for National Hydrography Dataset: Reston, Virginia, U.S. Geological Survey. The document is available online through <https://prd-wret.s3-us-west-2.amazonaws.com/assets/palladium/production/atoms/files/NHD%201999%20Draft%20Standards%20-%20Capture%20conditions.PDF>. Information about tables and fields in the data are available from the user documentation for the National Hydrography Dataset available online through https://nhd.usgs.gov/userGuide/Robohelpfiles/index.htm#NHD_User_Guide.

Hide Overview Description ▲

Hide Fields ▲

References ▶

AGGREGATE INFORMATION

ASSOCIATION TYPE larger work citation

AGGREGATE RESOURCE NAME ▶

TITLE National Hydrography Dataset (NHD) Best Resolution

PUBLICATION DATE 2021-01-01

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <https://www.sciencebase.gov/catalog/item/5136012ce4b03b8ec4025bf7>

[Hide Aggregate resource name ▲](#)

[Hide References ▲](#)

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 2024-03-27

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 2024-03-26 13:37:02

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-03-27 81:71:40

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-03-27 08:17:04

[Hide Metadata Details ▲](#)

Metadata Contacts ▶

METADATA CONTACT

ORGANIZATION'S NAME U.S. Geological Survey, National Geospatial Technical Operations Center

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 1-888-ASK-USGS (1-888-275-8747)

ADDRESS

TYPE both
DELIVERY POINT Box 25046 Denver Federal Center
CITY Lakewood
ADMINISTRATIVE AREA CO
POSTAL CODE 80225
E-MAIL ADDRESS <https://answers.usgs.gov/>

HOURS OF SERVICE

Monday through Friday 8:00 AM to 4:00 PM

CONTACT INSTRUCTIONS

Metadata information can also be obtained through online services using The National Map Viewer, at <https://apps.nationalmap.gov/viewer/> or EarthExplorer, at <http://earthexplorer.usgs.gov> or Ask USGS at <https://answers.usgs.gov/>.

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

DATE OF NEXT UPDATE 2014-02-16
UPDATE FREQUENCY unknown

OTHER MAINTENANCE REQUIREMENTS

Last metadata review date: 20130216

[Hide Metadata Maintenance ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL MS_NHDFlowlines_Dec23

ENTITY TYPE DEFINITION

flowlines

ENTITY TYPE DEFINITION SOURCE USGS

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 Shape

ATTRIBUTE DEFINITION

Feature geometry.

ATTRIBUTE DEFINITION SOURCE Esri

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN

Coordinates defining the features.

ATTRIBUTE

ATTRIBUTE LABEL permanent_

ATTRIBUTE

ATTRIBUTE LABEL fdate

ATTRIBUTE

ATTRIBUTE LABEL resolution

ATTRIBUTE

ATTRIBUTE LABEL gnis_id

ATTRIBUTE

ATTRIBUTE LABEL gnis_name

ATTRIBUTE DEFINITION

name of feature

ATTRIBUTE DEFINITION SOURCE USGS

ATTRIBUTE

ATTRIBUTE LABEL lengthkm

ATTRIBUTE

ATTRIBUTE LABEL reachcode

ATTRIBUTE

ATTRIBUTE LABEL flowdir

ATTRIBUTE

ATTRIBUTE LABEL wbarea_per

ATTRIBUTE

ATTRIBUTE LABEL ftype

ATTRIBUTE

ATTRIBUTE LABEL fcode

ATTRIBUTE

ATTRIBUTE LABEL mainpath

ATTRIBUTE

ATTRIBUTE LABEL innetwork

ATTRIBUTE

ATTRIBUTE LABEL visibility

ATTRIBUTE

ATTRIBUTE LABEL SHAPE_Leng

OVERVIEW DESCRIPTION

ENTITY AND ATTRIBUTE OVERVIEW

All feature types, characteristics, and values are in U.S. Geological Survey, 1999, Standards for National Hydrography Dataset: Reston, Virginia, U.S. Geological Survey. The document is available online through <https://prd-wret.s3-us-west-2.amazonaws.com/assets/palladium/production/atoms/files/NHD%201999%20Draft%20Standards%20-%20Capture%20conditions.PDF>. Information about tables and fields in the data are available from the user documentation for the National Hydrography Dataset available online through https://nhd.usgs.gov/userGuide/Robohelpfiles/index.htm#NHD_User_Guide.

[Hide Entities and Attributes ▲](#)