

# MS\_NHDOthAreas\_Dec2022

## Shapefile

Thumbnail Not Available

## Tags

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

## Summary

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

## 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** -91.738454    **East** -88.094697

**North** 35.006345    **South** 30.097226

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

ArcGIS Metadata ►

## Topics and Keywords ►

\* CONTENT TYPE Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS US

### THESAURUS ►

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

[Hide Thesaurus ▲](#)

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

### THESAURUS ►

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

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

## Citation ►

\* TITLE MS\_NHDOthAreas\_Dec2022  
PUBLICATION DATE 2022-12-05 00:00:00

PRESENTATION FORMATS \* digital map

[Hide Citation ▲](#)

## Citation Contacts ►

### RESPONSIBLE PARTY

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

CONTACT'S ROLE originator

### RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE publisher

### CONTACT INFORMATION ►

#### ADDRESS

DELIVERY POINT Reston, Virginia

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

STATUS under development

SPATIAL REPRESENTATION TYPE \* vector

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

CREDITS

USGS, MARIS

ARCGIS ITEM PROPERTIES

\* NAME MS\_NHDOthAreas\_Dec2022

\* SIZE 112.923

\* LOCATION file:///\\DESKTOP-

TP9LNVL\F\$\DATA\00\_HYDROLOGY\NHD\_2022\_High\_Dec\MS\_NHDOthAreas\_Dec2022.shp

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -200

EAST LONGITUDE -56.8344239

SOUTH LATITUDE 0

NORTH LATITUDE 143.165576

EXTENT

DESCRIPTION

See dataset specific metadata.

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -91.738454

\* EAST LONGITUDE -88.094697

\* NORTH LATITUDE 35.006345

\* SOUTH LATITUDE 30.097226

\* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 318473.323374

\* EAST LONGITUDE 651100.732498

\* SOUTH LATITUDE 1035133.983477

\* NORTH LATITUDE 1577952.499235

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

### POINT OF CONTACT

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

### CONTACT INFORMATION ►

#### PHONE

VOICE 1 888 ASK USGS

#### ADDRESS

TYPE postal  
DELIVERY POINT 507 National Center  
CITY Reston  
ADMINISTRATIVE AREA VA  
POSTAL CODE 20192  
COUNTRY US  
E-MAIL ADDRESS [ask@usgs.gov](mailto: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](http://mapping.usgs.gov/esic/esic_index.html)

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

### RESOURCE MAINTENANCE

UPDATE FREQUENCY irregular

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

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

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_Mississippi\_TM
- \* COORDINATE REFERENCE DETAILS

### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102609

X ORIGIN -5122200

Y ORIGIN -12297100

XY SCALE 450339697.45066422

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3814

### WELL-KNOWN TEXT

PROJCS["NAD\_1983\_Mississippi\_TM",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",1300000.0],PARAMETER["Central\_Meridian",-89.75],PARAMETER["Scale\_Factor",0.9998335],PARAMETER["Latitude\_Of\_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

### REFERENCE SYSTEM IDENTIFIER

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

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME MS\_NHDOthAreas\_Dec2022

\* OBJECT TYPE composite

\* OBJECT COUNT 1759

[Hide Vector ▲](#)

### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS\_NHDOthAreas\_Dec2022

\* FEATURE TYPE Simple

- \* GEOMETRY TYPE Polygon
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 1759
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING TRUE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ►

SCOPE OF QUALITY INFORMATION ►  
RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - TOPOLOGICAL CONSISTENCY ►  
EVALUATION METHOD

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

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

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►  
MEASURE DESCRIPTION

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

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

DATA QUALITY REPORT - COMPLETENESS OMISSION ►  
MEASURE DESCRIPTION

The completeness of the data reflects the content of the sources, which most often are the published USGS topographic quadrangle and/or the USDA Forest Service Primary Base Series (PBS) map. The USGS topographic quadrangle is usually supplemented by Digital Orthophoto Quadrangles (DOQs). Features found on the ground may have been eliminated or generalized on the source map because of scale and legibility constraints.

In general, streams longer than one mile (approximately 1.6 kilometers) were collected. Most streams that flow from a lake were collected regardless of their length. Only definite channels were collected so not all swamp/marsh features have stream/rivers delineated through them. Lake/ponds having an area greater than 6 acres were collected. Note, however, that these general rules were applied unevenly among maps during compilation. Reaches codes are defined on all features of type stream/river, canal/ditch, artificial path, coastline, and connector. Waterbody reach codes are defined on all lake/pond and most reservoir features. Names were applied from the GNIS database. Detailed capture conditions are provided for every feature type in the Standards for National Hydrography Dataset available online through <http://mapping.usgs.gov/standards/>. This statement is generally true for the most common sources of NHD data. Other sources and methods may have been used to create or update NHD data. In some cases, additional information may be found in the NHDMetadata table.

*Hide Data quality report - Completeness omission ▲*

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

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

*Hide Data quality report - Quantitative attribute accuracy ▲*

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION horizontal

MEASURE DESCRIPTION

Statements of horizontal positional accuracy are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is

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

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

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►  
DIMENSION vertical

MEASURE DESCRIPTION

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

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

[Hide Data Quality ▲](#)

## Lineage ►

PROCESS STEP ►  
WHEN THE PROCESS OCCURRED  
INDETERMINATE DATE unknown  
DESCRIPTION

The processes used to create and maintain high-resolution NHD data can be found in the table called "NHDMetadata". Because NHD data can be downloaded using several user-defined areas, the process descriptions can vary for each download. The



NHDMetadata table contains a list of all the process descriptions that apply to a particular download. These process descriptions are linked using the DuuID to the NHDFeatureToMetadata table which contains the com\_ids of all the features within the download. In addition, another table, the NHDSourceCitation, can also be linked through the DuuID to determine the sources used to create or update NHD data.

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ►

### PROCESS

#### PROCESS NAME

DATE 2022-12-05 15:18:45

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

#### COMMAND ISSUED

Append

```
D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GPKG.gpkg\main.NHDArea
D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea NO_TEST "permanent_identifier"
"Permanent_Identifier" true false false 40 Text 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,permanent_identifier,-1,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,permanent_identifier,-1,-1;fdate "FDate" true false false 8 Date 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,fdate,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,fdate,-1,-1;resolution "Resolution" true false false 4 Long 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,resolution,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,resolution,-1,-1;gnis_id "GNIS_ID" true true false 10 Text 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,gnis_id,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,gnis_id,-1,-1;gnis_name "GNIS_Name" true true false 65 Text 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,gnis_name,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,gnis_name,-1,-1;areasqkm "AreaSqKm" true true false 8 Double 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,areasqkm,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,areasqkm,-1,-1;elevation "Elevation" true true false 8 Double 0 0
```

```

,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,elevation,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,elevation,-1,-1;ftype "FType" true false false 4 Long 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,ftype,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,ftype,-1,-1;fcode "FCode" true true false 4 Long 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,fcode,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,fcode,-1,-1;visibilityfilter "VisibilityFilter" true false false 4 Long 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,visibilityfilter,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,visibilityfilter,-1,-1;SHAPE_Length "SHAPE_Length" false true true 8 Double 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,SHAPE_Length,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,SHAPE_Length,-1,-1;SHAPE_Area "SHAPE_Area" false true true 8 Double 0 0
,First,#,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,SHAPE_Area,-1,-1,D:\SPGExtract\Output\SPG_17024_20221205_125242\Hydrography\NHD\State\NHD_H_Mississippi_State_GDB.gdb\Hydrography\NHDArea,SHAPE_Area,-1,-1" #

```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

#### PROCESS

##### PROCESS NAME

DATE 2022-12-13 07:24:03

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

##### COMMAND ISSUED

Clip NHDArea stbnd\_100m\_buff

F:\DATA\00\_HYDROLOGY\NHD\_2022\_High\_Dec\Clipped\NHD0thAreas\_Dec2022\_LLClipped.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

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

CONTACT'S ROLE distributor

##### CONTACT INFORMATION ►

###### PHONE

VOICE 1 888 ASK USGS

###### ADDRESS

E-MAIL ADDRESS [ask@usgs.gov](mailto: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](http://mapping.usgs.gov/esic/esic_index.html)

*Hide Contact information ▲*

AVAILABLE FORMAT  
NAME ArcGIS Geodatabase  
VERSION 8.3  
FILE DECOMPRESSION TECHNIQUE tar and uncompress

*Hide Distributor ▲*

DISTRIBUTION FORMAT  
\* NAME Shapefile

TRANSFER OPTIONS  
\* TRANSFER SIZE 112.923

*Hide Distribution ▲*

## Fields ►

DETAILS FOR OBJECT [MS\\_NHDOthAreas\\_Dec2022](#) ►  
\* TYPE Feature Class  
\* ROW COUNT 1759

FIELD Shape ►  
\* ALIAS Shape  
\* DATA TYPE Geometry  
\* WIDTH 0  
\* PRECISION 0  
\* SCALE 0  
\* FIELD DESCRIPTION  
Feature geometry.  
  
\* DESCRIPTION SOURCE  
ESRI  
  
\* DESCRIPTION OF VALUES  
Coordinates defining the features.

*Hide Field Shape ▲*

FIELD FDate ▶

- \* ALIAS fdate
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field FDate ▲*

FIELD Resolution ▶

- \* ALIAS resolution
- \* DATA TYPE Integer
- \* WIDTH 10
- \* PRECISION 10
- \* SCALE 0

SUBTYPE INFORMATION

- \* SUBTYPE NAME (SUBTYPE CODE)

---

CanalDitch (336)

---

2

---

Levee (568)

---

2

---

Spillway (455)

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2

---

Lock Chamber (398)

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2

---

Inundation Area (403)

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2

---

Submerged Stream (461)

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2

---

SeaOcean (445)

---

2

---

BayInlet (312)

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2

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StreamRiver (460)

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2

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Foreshore (364)

2
Wash (484)
2
Water IntakeOutflow (485)
2
Area of Complex Channels (537)
2
DamWeir (343)
2
Area to be Submerged (307)
2
Rapids (431)
2
Bridge (318)
2
Flume (362)
2
Water IntakeOutflow (485)
2
Area to be Submerged (307)
2
* DOMAIN NAME Resolution
* TYPE Coded Value
* MERGE RULE Default value
* SPLIT RULE Duplicate

*Hide Field Resolution ▲*

FIELD GNIS\_ID ►  
 \* ALIAS gnis\_id  
 \* DATA TYPE String  
 \* WIDTH 10  
 \* PRECISION 0  
 \* SCALE 0

*Hide Field GNIS\_ID ▲*

FIELD GNIS\_Name ►

- \* ALIAS gnis\_name
- \* DATA TYPE String
- \* WIDTH 65
- \* PRECISION 0
- \* SCALE 0

*Hide Field GNIS\_Name ▲*

FIELD AreaSqKm ►

- \* ALIAS areasqkm
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field AreaSqKm ▲*

FIELD Elevation ►

- \* ALIAS elevation
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

SUBTYPE INFORMATION

- \* SUBTYPE NAME (SUBTYPE CODE)

---

CanalDitch (336)

---

2

---

Levee (568)

---

2

---

Spillway (455)

---

2

---

Lock Chamber (398)

---

2

---

Inundation Area (403)

---

2

---

Submerged Stream (461)

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2

---

SeaOcean (445)

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2

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BayInlet (312)

2
StreamRiver (460)
2
Foreshore (364)
2
Wash (484)
2
Water IntakeOutflow (485)
2
Area of Complex Channels (537)
2
DamWeir (343)
2
Area to be Submerged (307)
2
Rapids (431)
2
Bridge (318)
2
Flume (362)
2
Water IntakeOutflow (485)
no default value
Area to be Submerged (307)
no default value
* DOMAIN NAME ElevationRange
* TYPE Range
* MERGE RULE Default value
* SPLIT RULE Default value

*Hide Field Elevation ▲*

FIELD FType ►  
 \* ALIAS ftype  
 \* DATA TYPE Integer  
 \* WIDTH 10  
 \* PRECISION 10  
 \* SCALE 0

SUBTYPE INFORMATION

\* SUBTYPE NAME (SUBTYPE CODE)

---

CanalDitch (336)

---

336

---

Levee (568)

---

568

---

Spillway (455)

---

455

---

Lock Chamber (398)

---

398

---

Inundation Area (403)

---

403

---

Submerged Stream (461)

---

461

---

SeaOcean (445)

---

445

---

BayInlet (312)

---

312

---

StreamRiver (460)

---

460

---

Foreshore (364)

---

364

---

Wash (484)

---

484

---

Water IntakeOutflow (485)

---

485

---

Area of Complex Channels (537)

---

537

---

DamWeir (343)

---

343

---

Area to be Submerged (307)

---

307

---

Rapids (431)

---

431

---

Bridge (318)



318
Flume (362)
362
Water IntakeOutflow (485)
485
Area to be Submerged (307)
307

[Hide Field FType ▲](#)

FIELD FCode ►

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

SUBTYPE INFORMATION

- \* SUBTYPE NAME (SUBTYPE CODE)

CanalDitch (336)
33600
Levee (568)
56800
Spillway (455)
45500
Lock Chamber (398)
39800
Inundation Area (403)
40308
Submerged Stream (461)
46100
SeaOcean (445)
44500
BayInlet (312)
31200
StreamRiver (460)
46006

---

Foreshore (364)

---

36400

---

Wash (484)

---

48400

---

Water IntakeOutflow (485)

---

48500

---

Area of Complex Channels (537)

---

53700

---

DamWeir (343)

---

34305

---

Area to be Submerged (307)

---

30700

---

Rapids (431)

---

43100

---

Bridge (318)

---

31800

---

Flume (362)

---

36200

---

Water IntakeOutflow (485)

---

48500

---

Area to be Submerged (307)

---

30700

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

[Hide Field FCode ▲](#)

FIELD [Shape\\_Area ▶](#)

- \* ALIAS SHAPE\_Area
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Area of feature in internal units squared.
- \* DESCRIPTION SOURCE  
ESRI

\* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

*Hide Field Shape\_Area ▲*

FIELD FID ►

\* ALIAS FID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field FID ▲*

FIELD Permanent\_ ►

\* ALIAS permanent\_

\* DATA TYPE String

\* WIDTH 40

\* PRECISION 0

\* SCALE 0

*Hide Field Permanent\_ ▲*

FIELD Visibility ►

\* ALIAS visibility

\* DATA TYPE Integer

\* WIDTH 10

\* PRECISION 10

\* SCALE 0

*Hide Field Visibility ▲*

FIELD Shape\_Leng ►

\* ALIAS SHAPE\_Leng

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

[Hide Field Shape\\_Leng ▲](#)

[Hide Details for object MS\\_NHDOthAreas\\_Dec2022 ▲](#)

#### DETAILS FOR OBJECT NHDAreaToMeta

- \* TYPE Relationship

#### OVERVIEW DESCRIPTION ►

##### ENTITY AND ATTRIBUTE OVERVIEW

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

##### ENTITY AND ATTRIBUTE DETAIL CITATION

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

[Hide Overview Description ▲](#)

[Hide Fields ▲](#)

#### Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)  
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset  
SCOPE NAME \* dataset

\* LAST UPDATE 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 08:20:42  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-12-13 08:21:43

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2022-12-13 08:21:43

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA CONTACT

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

#### CONTACT INFORMATION ►

PHONE  
VOICE 1 888 ASK USGS

#### ADDRESS

TYPE postal  
DELIVERY POINT 507 National Center  
CITY Reston  
ADMINISTRATIVE AREA VA  
POSTAL CODE 20192.  
COUNTRY US  
E-MAIL ADDRESS [nhd@usgs.gov](mailto:nhd@usgs.gov)

#### HOURS OF SERVICE

0800-1600 Eastern Time

#### CONTACT INSTRUCTIONS

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

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION

ENTITY TYPE  
ENTITY TYPE LABEL MS\_NHDOthAreas\_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 Elevation

ATTRIBUTE  
ATTRIBUTE LABEL FType

ATTRIBUTE  
ATTRIBUTE LABEL FCode

ATTRIBUTE  
ATTRIBUTE LABEL Shape\_Area  
ATTRIBUTE DEFINITION  
Area of feature in internal units squared.  
ATTRIBUTE DEFINITION SOURCE ESRI  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
Positive real numbers that are automatically generated.

ATTRIBUTE  
ATTRIBUTE LABEL FID  
ATTRIBUTE DEFINITION  
Internal feature number.  
ATTRIBUTE DEFINITION SOURCE Esri  
ATTRIBUTE DOMAIN VALUES  
UNREPRESENTABLE DOMAIN  
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE  
ATTRIBUTE LABEL Permanent\_

ATTRIBUTE

ATTRIBUTE LABEL Visibility

ATTRIBUTE

ATTRIBUTE LABEL Shape\_Leng

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL NHDAreaToMeta

OVERVIEW DESCRIPTION

ENTITY AND ATTRIBUTE OVERVIEW

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

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[Hide Entities and Attributes ▲](#)