

# National Hydrography Dataset (NHD) Model

(v2.2.1)

## The Catalog View



## FEATURE CLASSES

Simple feature class	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDPoint	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
NHDFlowline	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					

## Model Changes

Model Change	Comid field deleted from all feature classes/tables	Dauid field deleted from metadata tables
New element		
Update		
Delete		

## FCode (Feature) Domains

## Definitions of features

Barrier constructed to control the flow, or raise the level of water. Can be of various materials. Includes structures such as weirs, locks, dams, and culverts. Includes structures that are used to control the flow of water, such as weirs, locks, dams, and culverts. Includes structures that are used to control the flow of water, such as weirs, locks, dams, and culverts.

## Definitions of features

Area where a stream or river flows. Includes streams, rivers, and creeks. Includes streams, rivers, and creeks. Includes streams, rivers, and creeks. Includes streams, rivers, and creeks.

## Attribute Tables

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDFlow	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Detail

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDFlowlineVAA	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Processing

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDProcessingParameters	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Event Feature Classes

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDPointEventFC	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Processing Domains

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDProcessingParameters	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Event Feature Classes

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDFlowlineEventFC	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Processing Domains

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDProcessingParameters	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDFlowlineMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Non-FCode Domains

## Processing Domains

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDProcessingParameters	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDFlowlineMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

## Feature Metadata

Table	Field name	Data type	Allow nulls	Default value	Domain	Proj.	Scale	Length
NHDMetadata	OBJECTID	Integer	No					
	PERMANT_IDENTIFIER	String	No					
	DATE	Date	No					
	SHAPE_LENGTH	Double	Yes					
	SHAPE_AREA	Double	Yes					
	...	...	...	...	...	...	...	...

For more information on the National Hydrography Dataset (NHD) and the Watershed Boundary Dataset (WBD), including the latest news, user resources, tools, tutorials and webinars, and to download NHD and WBD datasets, please visit:

<http://nhd.usgs.gov>

To learn about NHDPlus, an integrated suite of geospatial products that builds upon and extends the capabilities of the NHD, and the WBD, and the National Elevation Dataset (NED) data, please visit:

<http://www.epa.gov/waterdata/>