



U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration

Metadata for Commercially Navigable Waterways, Version 6

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Army Corps of Engineers, Navigational Data Center, Waterborne Commerce Statistics Center, NDC WCSC Webmaster

Publication_Date: 20240212

Title: Commercially Navigable Waterways, Version 6

Geospatial_Data_Presentation_Form: Vector digital data

Larger_Work_Citation:

Citation_Information:

Publication_Date: 20230426

Title: National Transportation Atlas Database

Description:

Abstract: The Commercially Navigable Waterways (CNW) data is a subset of the National Waterway Network (NWN) as distributed by the US Army Corps of Engineers (available for download at <https://www.iwr.usace.army.mil/About/Technical-Centers/NDC-Navigation-and-Civil-Works-Decision-Support/>; for purposes of this data preparation NPMS used data available from the Bureau of Transportation Statistics (BTS) at <https://data-usdot.opendata.arcgis.com/datasets/navigable-waterway-network-lines/explore>). Lines in the NWN with a FUNC_CLASS attribute value equal to S, B, or D were extracted from the NWN and are considered by PHMSA to be commercially navigable. The data set covers the 48 contiguous states plus the District of Columbia, Hawaii, Alaska, Puerto Rico and water links between. The nominal scale of the dataset varies with the source material. The majority of the information is at 1:100,000 with larger scales used in harbor/bay/port areas and smaller scales used in open waters.

High Consequence Area (HCA) data, including CNWs, are updated every two years. This CNW data layer was sourced and compiled in January 2024. As of January 2026 no updates had been made to the source data, therefore it was determined that a new GIS data layer did not need to be published as Version 6 remains the most up-to-date.

Purpose: The CNW data set is a geographic database of commercially navigable waterways in and around the United States as defined in the Office of Pipeline Safety Pipeline Integrity Management in High Consequence Areas rulemaking for hazardous liquid operators.

Supplemental_Information: Links in the waterway network represent actual shipping lanes or serve as representative paths in open water where no defined shipping lanes exist.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20240212

Currentness_Reference: Publication Date

Status:

Progress: In work

Maintenance_and_Update_Frequency: Biannually

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -171.5

East_Bounding_Coordinate: -67

North_Bounding_Coordinate: 71.5

South_Bounding_Coordinate: 18.5

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: commercially navigable waterway, CNW

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Marine

Theme_Keyword: NTAD

Theme_Keyword: National Transportation Atlas Database

Theme_Keyword: Transportation

Theme_Keyword: Atlas

Theme_Keyword: Database

Theme_Keyword: Water

Theme_Keyword: Waterway

Theme_Keyword: Navigable

Theme:

Theme_Keyword_Thesaurus: NGDA Portfolio Themes

Theme_Keyword: NGDA

Theme_Keyword: National Geospatial Data Asset

Theme_Keyword: Transportation

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: USA

Place_Keyword: National

Place_Keyword: United States

Place_Keyword: Puerto Rico

Place_Keyword: Gulf of Mexico

Place_Keyword: Great Lakes

Place_Keyword: Intracoastal Waterway

Temporal:

Temporal_Keyword_Thesaurus: None

Temporal_Keyword: 2024

Access_Constraints: unrestricted

Use_Constraints: None. Refer to the USACE and BTS websites mentioned elsewhere in this metadata for any access constraints related to the source data.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Army Corps of Engineers, Navigational Data Center, Waterborne Commerce Statistics Center

Contact_Position: NDC WCSC Webmaster

Contact_Address:

Address_Type: mailing

Address: P.O. Box 61280

City: New Orleans

State_or_Province: LA

Postal_Code: 70161-1280

Country: US

Contact_Voice_Telephone: 504-862-1453

Contact_Facsimile_Telephone: 504-862-1423

Contact_Electronic_Mail_Address: CEIWR-NDCWCSC.WEBMASTER@usace.army.mil

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA)

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave., S.E.

City: Washington

State_or_Province: DC

Postal_Code: 20590

Contact_Voice_Telephone: 202-441-9086

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Leigha Gooding

Contact_Position: GIS Manager

Contact_Address:

Address_Type: mailing and physical

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd floor, 1200 New Jersey Ave., SE

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-441-9086

Contact_Electronic_Mail_Address: leigha.gooding@dot.gov

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd floor, 1200 New Jersey Ave., SE

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-843-3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Data_Set_Credit: The Commercially Navigable Waterways (CNW) dataset was derived from the National Waterway Network (NWN). The NWN databases were developed by Oak Ridge National

Laboratory (ORNL) and Vanderbilt University, with input from the National Waterway GIS Design Committee (NWGISDC). The NWGISDC contains members from several agencies, including the U.S. Army Corps of Engineers (USACE), USDOT Bureau of Transportation Statistics (BTS), Volpe National Transportation Systems Center (VNTSC), Maritime Administration (MARAD), Military Traffic Management Command (MTMC), Tennessee Valley Authority (TVA), U.S. Environmental Protection Agency (EPA), U.S. Bureau of Census, U.S. Coast Guard, and the Federal Railroad Administration (FRA).

Native_Data_Set_Environment: Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Attribute accuracy is tested by manual comparison of the source with hard copy printouts and/or symbolized display of digital line graphs on an interactive computer graphic system; selected attributes that cannot be visually verified on plots or on screen, are interactively queried and verified on screen.

Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Explanation: See accuracy report

Logical_Consistency_Report: BTS quality checks were completed to cross reference the dataset with the state dataset to determine if the spatial data and attribute data were accurate within each state

Completeness_Report: Data set is considered complete for the information presented, as described in the abstract. Users are advised to read the rest of the metadata record carefully for additional details.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: The "shape source" field in the link database indicates the data sources used to derive link placements. The accuracy of each network element is correlated to the data source used to derive that element. For example, links and nodes derived from 1:100,000 scale DLGs are more accurate than links and nodes derived from 1:500,000 scale NOAA Navigational Charts. Links with unknown/missing sources are usually schematic representations of USACE links. Off-Shore: NOAA Charts vary in scale. Larger scale charts were used in harbor/port areas, while smaller scale charts were used in open water. For channels, sea lanes, and Intracoastal Waterways, shape points were placed as needed to ensure that link segments fall within waterway boundaries. Inland: Links digitized from 1:100,000 DLG files, or large scale NOAA charts are the most accurate representations. Shape points were placed as needed to ensure that link segments fall between waterway shorelines. Links derived from Corps milepoints have shape points approximately one mile apart. The Corps milepoints were mainly derived from 1:24,000 and 1:100,000 scale maps. Therefore, the shape points derived from Corps milepoints are often as accurate as shape points derived from 1:100,000 DLG files. However, line segments connecting the shape points may not accurately represent the curvature of the waterway.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Explanation: See accuracy report

Positional_Accuracy:

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: Unknown

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Explanation: See description

Lineage:

Process_Step:

Process_Description:

The US Army Corps of Engineers National Waterway Network (NWN) data was downloaded from <https://data-usdot.opendata.arcgis.com/datasets/navigable-waterway-network-lines/explore>. Portions of this polyline dataset that do not appear to represent waterways but rather appear to be projection-related were removed from the data.

Then only lines from the NWN data with a FUNC_CLASS value of "S", "B", or "D" were retained for the CNW data; these are the lines considered by PHMSA to be "commercially navigable". All other lines were removed.

Process_Date: 20240212

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd floor, 1200 New Jersey Ave., SE

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: 202-843-3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 0

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CNW_V6_2024

Entity_Type_Definition: National Waterway Network (line)

Entity_Type_Definition_Source: USACE

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: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Internal feature number.

Attribute:

Attribute_Label: ID

Attribute_Definition: Unique Link identification number

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Link length in Miles

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Real

Enumerated_Domain_Value_Definition: With one explicit decimal place

Enumerated_Domain_Value_Definition_Source: Calculated

Attribute:

Attribute_Label: DIR

Attribute_Definition: Check with USACE

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Numeric

Attribute:

Attribute_Label: LINKNUM

Attribute_Definition: Unique Identifier

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Numeric

Attribute:

Attribute_Label: ANODE

Attribute_Definition: Identifies a record (NODEID) in the node file that corresponds to the starting position of the link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Positive integer

Attribute:

Attribute_Label: BNODE

Attribute_Definition: Identifies a record (NODEID) in the node file that corresponds to the ending position of the link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Positive integer

Attribute:

Attribute_Label: LINKNAME

Attribute_Definition: USACE link description

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Description

Attribute:

Attribute_Label: RIVERNAME

Attribute_Definition: Name of the waterway/water body that the object belongs to.

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Description

Attribute:

Attribute_Label: AMILE

Attribute_Definition: Milepost at the ANODE, inland Corps links, only

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: real, with one explicit decimal place

Attribute:

Attribute_Label: BMILE

Attribute_Definition: Milepost at the BNODE, inland Corps links, only

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: real, with one explicit decimal place

Attribute:

Attribute_Label: LENGTH1

Attribute_Definition: Line length, in miles

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: real, with one explicit decimal place

Attribute:

Attribute_Label: LENGTH_SRC

Attribute_Definition: Indication of how the length was calculated

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: V

Enumerated_Domain_Value_Definition: Vanderbilt; length was calculated using GIS

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: M

Enumerated_Domain_Value_Definition: Milepoints; length was calculated by subtracting 'B' milepoint from 'A' milepoint

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: SHAPE_SRC

Attribute_Definition: Indicates the data source used for each link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CM

Enumerated_Domain_Value_Definition: Corps Milepoints

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: DD

Enumerated_Domain_Value_Definition: 1:100K DLGs (CD-ROM)

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: DN

Enumerated_Domain_Value_Definition: Digitized from NOAA Charts

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: DQ

Enumerated_Domain_Value_Definition: 1:100K USGS Quads

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: J

Enumerated_Domain_Value_Definition: Rough shape (guessed)

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: JR

Enumerated_Domain_Value_Definition: Original shape modified by ORNL

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: JV

Enumerated_Domain_Value_Definition: Original shape modified by Vanderbilt

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: M

Enumerated_Domain_Value_Definition: Missing / Unknown

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: NA

Enumerated_Domain_Value_Definition: Digitized from 1:2M National Atlas Points

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: RR

Enumerated_Domain_Value_Definition: ORNL link modified by ORNL

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: RV

Enumerated_Domain_Value_Definition: ORNL link modified by Vanderbilt

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: VR

Enumerated_Domain_Value_Definition: Vanderbilt link modified by ORNL

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: LINKTYPE

Attribute_Definition: Indicates the originator of the link or the type of feature represented by the link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CORPS

Enumerated_Domain_Value_Definition: Corps of Engineers original link

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: CWIS

Enumerated_Domain_Value_Definition: Corps of Engineers civil works improvement addition

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: ORNL

Enumerated_Domain_Value_Definition: Oak Ridge National Laboratory

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: VANDERBUILT

Enumerated_Domain_Value_Definition: Vanderbilt University

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: LOCK

Enumerated_Domain_Value_Definition: Corps of Engineers lock

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: CTRL_DEPTH

Attribute_Definition: Control depth of link, in feet, Corps links only

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Measured Value

Attribute:

Attribute_Label: WATERWAY

Attribute_Definition: 4-digit waterway code from Corps Master_port_waterway

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Corps Master_port_waterway

Codeset_Source: USACE

Attribute:

Attribute_Label: GEO_CLASS

Attribute_Definition: Geographic Class

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: G

Enumerated_Domain_Value_Definition: Great Lakes

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: O

Enumerated_Domain_Value_Definition: Ocean / Offshore

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: I

Enumerated_Domain_Value_Definition: Inland

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: FUNC_CLASS

Attribute_Definition: Functional Class

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: S

Enumerated_Domain_Value_Definition: shallow draft (i.e., no deep draft ocean vessels)

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: D

Enumerated_Domain_Value_Definition: deep draft

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: B

Enumerated_Domain_Value_Definition: Both

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: WTWY_TYPE

Attribute_Definition: Waterway Type

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Harbor (including harbor channels), Bay

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Intracoastal Waterway

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition: Sealane

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 4

Enumerated_Domain_Value_Definition: Sealane with separation zone

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 5

Enumerated_Domain_Value_Definition: Open water

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 6

Enumerated_Domain_Value_Definition: River, creek, thoroughfare, lake

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 7

Enumerated_Domain_Value_Definition: Estuary

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 8

Enumerated_Domain_Value_Definition: Channel (not including harbor channels)

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 9

Enumerated_Domain_Value_Definition: Canal

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 10

Enumerated_Domain_Value_Definition: Great Lakes direct link (major ports)

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 11

Enumerated_Domain_Value_Definition: Great Lakes indirect link

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 12

Enumerated_Domain_Value_Definition: Corps of Engineers Lock

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: CHART_ID

Attribute_Definition: 4 or 5 digit NOAA chart number or 15 character 1:100K USGS Quad Map ID

Attribute_Definition_Source: NOAA

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Official NOAA Chart Index

Codeset_Source: NOAA

Attribute:

Attribute_Label: NUM_PAIRS

Attribute_Definition: Number of coordinate pairs that make up the link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Calculated Value

Attribute:

Attribute_Label: WHO_MOD

Attribute_Definition: Composite code designating what organization modified the link

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: V

Enumerated_Domain_Value_Definition: Vanderbilt addition

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: R

Enumerated_Domain_Value_Definition: Oak Ridge addition

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: J

Enumerated_Domain_Value_Definition: guessed

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: H

Enumerated_Domain_Value_Definition: screen digitization from DLGs or TIGER

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: 94 May

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: 94 June

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: R

Enumerated_Domain_Value_Definition: attributes modified by ORNL

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: DATE_MOD

Attribute_Definition: The MODDATE (or modification date) indicates when each record in the database was last changed. As changes are made to a record, the modification date is entered in the format 'mmddyyyy'.

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Date Value

Attribute:

Attribute_Label: HEADING

Attribute_Definition: Compass Direction

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: N

Enumerated_Domain_Value_Definition: North

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: S

Enumerated_Domain_Value_Definition: South

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: E

Enumerated_Domain_Value_Definition: East

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: W

Enumerated_Domain_Value_Definition: West

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: STATE

Attribute_Definition: State Postal Abbreviation

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Official List of State Postal Abbreviations

Codeset_Source: USACE

Attribute:

Attribute_Label: FIPS

Attribute_Definition: Primary State FIPS Code

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Federal Information Processing Standard- FIPS Pub 6-4

Codeset_Source: National Institute for Standards and Technology (NIST)

Attribute:

Attribute_Label: FIPS2

Attribute_Definition: State FIPS Code

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Federal Information Processing Standard- FIPS Pub 6-4

Codeset_Source: National Institute for Standards and Technology (NIST)

Attribute:

Attribute_Label: NON_US

Attribute_Definition: Abbreviation for non-US areas

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: AC

Enumerated_Domain_Value_Definition: Arctic Ocean
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: AT
Enumerated_Domain_Value_Definition: Atlantic Ocean
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: BS
Enumerated_Domain_Value_Definition: Bering Sea
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: CB
Enumerated_Domain_Value_Definition: Caribbean Sea
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: CD
Enumerated_Domain_Value_Definition: Canada
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: GM
Enumerated_Domain_Value_Definition: Gulf of Mexico
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: PC
Enumerated_Domain_Value_Definition: Pacific Ocean
Enumerated_Domain_Value_Definition_Source: USACE
Enumerated_Domain:
Enumerated_Domain_Value: PM
Enumerated_Domain_Value_Definition: Panama

Enumerated_Domain_Value_Definition_Source: USACE

Enumerated_Domain:

Enumerated_Domain_Value: XX

Enumerated_Domain_Value_Definition: Unidentified Area

Enumerated_Domain_Value_Definition_Source: USACE

Attribute:

Attribute_Label: KEY_ID

Attribute_Definition: Check with USACE

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Check with USACE

Attribute:

Attribute_Label: WTWY_UNIQ

Attribute_Definition: Check with USACE

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Check with USACE

Attribute:

Attribute_Label: MIN_MEAS

Attribute_Definition: Check with USACE

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Check with USACE

Attribute:

Attribute_Label: MAX_MEAS

Attribute_Definition: Check with USACE

Attribute_Definition_Source: USACE

Attribute_Domain_Values:

Unrepresentable_Domain: Check with USACE

Attribute:

Attribute_Label: SHAPE_Leng

Attribute_Definition: Shape length

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: geometric measurement of spatial feature

Overview_Description:

Entity_and_Attribute_Overview: The National Waterway Network (Lines) is a comprehensive network database of the Nation's navigable waterways. The dataset covers the 48 contiguous states plus the District of Columbia, Hawaii, Alaska, Puerto Rico and water links between. It consists of a line feature class of the National Waterway Network (NWN), which is based on a route feature class for the NWN update regions ("1" through "7", as well as the open ocean region "0") and route event table with linear referencing system measures for NWN links. This dataset is a feature class with associated measures (in miles) that are used for finding distances, locating features, and displaying route event layers. It was exported from this route event layer. The nominal scale of the dataset varies with the source material. The majority of the information is at 1:100,000 with larger scales used in harbor/bay/port areas and smaller scales used in open waters. These data could be used for analytical studies of waterway performance, for compiling commodity flow statistics, and for mapping purposes.

Entity_and_Attribute_Detail_Citation: <https://doi.org/10.21949/1529053>

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Bureau of Transportation Statistics

Contact_Position: NTAD Program Manager

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave. SE

City: Washington

State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: none

Contact_Electronic_Mail_Address: ntad@dot.gov

Distribution_Liability: Distribution Liability

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: ESRI Shapefile

Format_Version_Number: 1.0

Format_Specification: download

File-Decompression_Technique: ZIP

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <https://doi.org/10.21949/1522176>

Fees: None. No fees are applicable for obtaining the dataset.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Bureau of Transportation Statistics

Contact_Position: NTAD Program Manager

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave. SE

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State_or_Province: DC

Postal_Code: 20590

Country: US

Contact_Voice_Telephone: none

Contact_Electronic_Mail_Address: ntad@dot.gov

Distribution_Liability: Distribution Liability

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: AZURE Cloud ArcGIS Server (OGC WMS)

Format_Version_Number: 1.3.0

Format_Specification: <https://www.ogc.org/standards/wms>

Format_Information_Content: OGC WMS Map Service for visualizing geospatial information

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <https://doi.org/10.21949/1522177>

Fees: None. No fees are applicable for obtaining the dataset.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Bureau of Transportation Statistics

Contact_Position: NTAD Program Manager

Contact_Address:

Address_Type: mailing and physical

Address: 1200 New Jersey Ave. SE

City: Washington

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Postal_Code: 20590

Country: US

Contact_Voice_Telephone: none

Contact_Electronic_Mail_Address: ntad@dot.gov

Distribution_Liability: Distribution Liability

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: AZURE Cloud ArcGIS Server (OGC WFS)

Format_Version_Number: 1.0.0

Format_Specification: <https://www.ogc.org/standards/wfs>

Format_Information_Content: OGC WFS Map Service for visualizing geospatial information

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <https://doi.org/10.21949/1522178>

Fees: None. No fees are applicable for obtaining the dataset.

Metadata_Reference_Information:

Metadata_Date: 20240212

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

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Address_Type: mailing

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd floor, 1200 New Jersey Ave., SE

City: Washington

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Country: US

Contact_Voice_Telephone: 202-843-3818

Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time