

Stream / River



Tags

United States, Puerto Rico, line, hydrography, inlandWaters, aqueducts, streams, rivers, water, canals, artificial paths, intracoastal waterways, 2012

Summary

U.S. National Atlas Water Feature Lines provides the linear water features for geographic display and analysis at regional and national levels.

Description

U.S. National Atlas Water Feature Lines represents the linear water features (for example, aqueducts, canals, intracoastal waterways, and streams) of the United States.

Credits

There are no credits for this item.

Use limitations

See Resource Constraints > legal constraints.

Extent

West -172.784559 **East** -65.387566
North 71.225350 **South** 17.959606

Scale Range

Maximum (zoomed in) 1:500,000
Minimum (zoomed out) 1:50,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS United States, Puerto Rico

TEMPORAL KEYWORDS 2012

THEME KEYWORDS line, hydrography, inlandWaters, aqueducts, streams, rivers, water, canals, artificial paths, intracoastal waterways

Citation

TITLE Stream / River

PUBLICATION DATE 2015-12-30

EDITION 2015

PRESENTATION FORMATS * digital map

SERIES

NAME Data and Maps for ArcGIS®

ISSUE 2015 - World, Europe, and United States

OTHER CITATION DETAILS

Location: \usa\hydro

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME National Atlas of the United States

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Esri

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Redlands, California, USA

RESPONSIBLE PARTY

ORGANIZATION'S NAME Esri

CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

ARCgis ITEM PROPERTIES

* NAME surface_water_course_centerline_v2

Extents

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2012-07-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -172.784559

* EAST LONGITUDE -65.387566

* NORTH LATITUDE 71.225350

* SOUTH LATITUDE 17.959606

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -19234289.115435

* EAST LONGITUDE -7278910.577012

* SOUTH LATITUDE 2032821.064034

* NORTH LATITUDE 11479768.226406

* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT

INDIVIDUAL'S NAME ArcGIS Content Team

ORGANIZATION'S NAME Esri

CONTACT'S ROLE point of contact

CONTACT INFORMATION

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TYPE both

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Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

Resource Constraints

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS license

USE CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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CONSTRAINTS

LIMITATIONS OF USE

See Resource Constraints > legal constraints.

Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041545.367140558
Y ORIGIN -33272760.666300893
XY SCALE 135368852.55357128
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 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]
REFERENCE SYSTEM IDENTIFIER
* VALUE 3857
* CODESPACE EPSG
* VERSION 8.2.6

```

Spatial Data Properties

```

VECTOR
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only
GEOMETRIC OBJECTS
FEATURE CLASS NAME surface_water_course_centerline_v2
* OBJECT TYPE composite
* OBJECT COUNT 112968
ARCGIS FEATURE CLASS PROPERTIES
FEATURE CLASS NAME surface_water_course_centerline_v2
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 112968
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

```

Data Quality

```

SCOPE OF QUALITY INFORMATION
RESOURCE LEVEL dataset
DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY
MEASURE DESCRIPTION
The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The
geometry is checked, and if needed repaired.

```

```

DATA QUALITY REPORT - COMPLETENESS OMISSION
MEASURE DESCRIPTION
After processing, the data set is checked for drawing display and number of records and
file sizes compared with source materials.

```

This map layer contains streams of the United States and Puerto Rico. Only streams appropriate for a 1:1,000,000-scale data set are included. Preference was given to natural waterways, although a limited number of canals and aqueducts are included. Boundaries for the map layer are generally the 1:1,000,000-scale national boundaries and coastlines. The Intracoastal Waterway is the exception to this, in that it is outside the coastline.

```

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY
DIMENSION horizontal

```

```

MEASURE DESCRIPTION
Streams are in approximately the same locations as in the Medium- Resolution National
Hydrography Dataset NHDFlowline feature class used as a source. However, many
processes and editing tasks resulted in the movement of streams from their original
positions, including: extending or trimming streams to intersect the coastline or
international boundaries; moving streams to follow county, state, and international
boundaries where the boundary is coincident with the stream; moving streams 300
meters from transportation features if the two were parallel; increasing the gap between

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headwater streams in neighboring watersheds; adjusting streams to their proper route through water bodies; splitting streams at water body boundaries; snapping streams to streams in neighboring hydrologic subregions and regions; moving streams to ensure network connectivity; and moving streams to match imagery.

Horizontal positions are specified in geographic coordinates in decimal degrees. Latitudes are given to the nearest 0.000150. Longitudes are given to the nearest 0.000150. The positional accuracy is unknown.

DATA QUALITY REPORT - TOPOLOGICAL CONSISTENCY

MEASURE DESCRIPTION

Streams were checked for topological consistency using ArcGIS, to ensure there were no overlapping, intersecting, or multi-part features. ArcGIS topological checks were also used to verify correct spatial relationships between streams and county, state, and national boundaries. Streams were checked at coastlines to ensure their endpoints intersected the coastline. Selections by attribute and location were used to verify feature types based on their relationship to water bodies. A geometric network of streams was built and connectivity was checked through upstream and downstream traces.

Lineage

PROCESS STEP

WHEN THE PROCESS OCCURRED 2013-11-05 00:00:00

DESCRIPTION

The following steps were performed by Esri: Downloaded the compressed file from the National Atlas of the United States® and extracted it. Removed unneeded fields. Renamed some fields. Combined all fields but MILES and then summarized and dissolved on it to reduce the number of features. Projected the dataset into WGS 1984. Converted the dataset into a file geodatabase.

SOURCE DATA

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION

ALTERNATE TITLES National Atlas

SOURCE DATA

DESCRIPTION

Attribute and geospatial data

SOURCE MEDIUM NAME online link

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 1000000

SOURCE CITATION

TITLE 1:1,000,000-Scale Streams of the United States

ALTERNATE TITLES National Atlas

PUBLICATION DATE 2012-07-01 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

RESPONSIBLE PARTY

ORGANIZATION'S NAME National Atlas of the United States

CONTACT'S ROLE originator

CONTACT INFORMATION

ADDRESS

TYPE

DELIVERY POINT Rolla, Missouri, USA

ONLINE RESOURCE

LOCATION <http://nationalatlas.gov/metadata/streaml010.faq.html>

RESPONSIBLE PARTY

ORGANIZATION'S NAME United States Geological Survey

CONTACT'S ROLE publisher

CONTACT INFORMATION

ADDRESS

TYPE

DELIVERY POINT Reston, Virginia, USA

RESOURCE LOCATION ONLINE

LOCATION <http://nationalatlas.gov/atlasftp-1m.html>

FUNCTION PERFORMED download

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2012-07-01 00:00:00

Distribution

DISTRIBUTOR

CONTACT INFORMATION

ORGANIZATION'S NAME Esri; Esri Offices

CONTACT'S ROLE distributor

CONTACT INFORMATION

PHONE

VOICE 800-447-9778

ADDRESS

TYPE both

DELIVERY POINT 380 New York Street

CITY Redlands

ADMINISTRATIVE AREA California

POSTAL CODE 92373-8100

COUNTRY US

CONTACT INSTRUCTIONS

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AVAILABLE FORMAT

NAME File Geodatabase Feature Class

FILE DECOMPRESSION TECHNIQUE ArcGIS® software

FORMAT INFORMATION CONTENT To use this data requires software that supports FGDB files.

ORDERING PROCESS

TERMS AND FEES Software purchase price

INSTRUCTIONS

Data and Maps is available only as part of Esri® software.

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION <http://www.ArcGIS.com>

DESCRIPTION Downloadable Data

TRANSFER OPTIONS

MEDIUM OF DISTRIBUTION

MEDIUM NAME DVD-ROM

HOW DATA IS WRITTEN Universal Disk Format file system

RECORDING DENSITY 4.38 or 7.95

DENSITY UNITS OF MEASURE GB (gigabytes)

LIMITATIONS FOR USING THE MEDIUM

Offline Data

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT [surface_water_course_centerline_v2](#)

* TYPE Feature Class

* ROW COUNT 112968

DEFINITION

The lines represent the linear water features within the United States.

DEFINITION SOURCE

National Atlas of the United States

FIELD [ObjectID](#)

* ALIAS OBJECTID

* 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.

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.

FIELD [NAME](#)

- * [ALIAS Name](#)
- * [DATA TYPE String](#)
- * [WIDTH 150](#)
- * [PRECISION 0](#)
- * [SCALE 0](#)

[FIELD DESCRIPTION](#)

The proper name of the water feature.

[DESCRIPTION SOURCE](#)

National Atlas of the United States

[DESCRIPTION OF VALUES](#)

Names for the features.

FIELD [FEATURE](#)

- * [ALIAS Feature](#)
- * [DATA TYPE String](#)
- * [WIDTH 50](#)
- * [PRECISION 0](#)
- * [SCALE 0](#)

[FIELD DESCRIPTION](#)

The type of water feature.

[DESCRIPTION SOURCE](#)

National Atlas of the United States

[LIST OF VALUES](#)

[VALUE](#) Aqueduct

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) A structure designed to transport domestic or industrial water from a supply source to a distribution point, often by gravity.

[VALUE](#) Artificial Path

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) A connector that allows flow to be networked through water bodies.

[VALUE](#) Canal

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) An artificial open waterway constructed to transport water, to irrigate or drain land, to connect two or more bodies of water, or to serve as a waterway for water craft.

[VALUE](#) Intracoastal Waterway

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) A system of rivers, canals, and designated channels along the Atlantic and Gulf Coasts of the United States.

[VALUE](#) Stream

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) A body of flowing water.

[VALUE](#) Stream Intermittent

[ENUMERATED DOMAIN VALUE DEFINITION SOURCE](#) National Atlas of the United States

[DESCRIPTION](#) A body of flowing water that contains water for only part of the year.

FIELD [STATE](#)

- * ALIAS State
- * DATA TYPE String
- * WIDTH 30
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The two-letter abbreviation for each state where the water feature is located. If the water feature falls in two States, both codes are listed, separated by a dash.

DESCRIPTION SOURCE

Department of Commerce, National Institute of Standards and Technology

CODED VALUES

NAME OF CODELIST Federal Information Processing Standards 5–2

SOURCE National Institute of Standards and Technology

FIELD Region

- * ALIAS Region
- * DATA TYPE SmallInteger
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The two-digit Hydrologic Unit Code for major river basins. Leading zeroes are not shown.

DESCRIPTION SOURCE

National Atlas of the United States

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 21

FIELD MILES

- * ALIAS Miles
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The length of the water feature in miles, calculated using the North America Albers Equal Area Conic projection.

DESCRIPTION SOURCE

National Atlas of the United States

DESCRIPTION OF VALUES

Calculated lengths for the features.

FIELD Shape_Length

- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

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 2016-09-01

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

METADATA STYLE FGDC CSDGM Metadata
CREATED IN ARCGIS FOR THE ITEM 2016-08-04 15:30:11
LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-09-01 75:84:90
AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2016-09-01 07:57:40

Metadata Contacts

METADATA CONTACT

INDIVIDUAL'S NAME ArcGIS Content Team

ORGANIZATION'S NAME Esri

CONTACT'S ROLE point of contact

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