

National Watershed Boundary Dataset (WBD) Hydrologic Unit Code (HUC) Subwatershed (4-digit)

SDE Feature Class



Tags

Watershed Boundary Dataset, National Watershed Boundary Dataset (WBD), Boundary, Hydrologic Units, ngda, Sub-region, boundaries, Inland Waters, Subwatershed, PointEvent, WBD, Watershed Boundaries, Sub-basin, Topographic, US, Subbasin, Shapefile, topographic, Drainage areas for surface water, United States, Watershed, Watershed Boundaries, Line, drainage systems and characteristics, Boundaries, Basin, Subregion, HUC, Region, Downloadable Data, Hydrographic, Administrative watershed units, Hydrologic Unit Code, Hydrography, Hydrography, Point, boundaries, National, HU4

Summary

The Watershed and Subwatershed hydrologic unit boundaries provide a uniquely identified and uniform method of subdividing large drainage areas. The smaller sized 6th level sub-watersheds (up to 40,000 acres) are useful for numerous application programs supported by a variety of local, State, and Federal Agencies. This data set is intended to be used as a tool for water-resource management and planning activities, particularly for site-specific and localized studies requiring a level of detail provided by large-scale map information. The dataset will be appended to a larger seamless nationally consistent geospatial database as other states complete their portion of the watershed boundary dataset.

Description

This data set is a complete digital hydrologic unit boundary layer to the Subwatershed (4-digit) 6th level for the coterminous United States. This data set consists of geo-referenced digital data and associated attributes created in accordance with the "FGDC Proposal, Version 1.0 - Federal Standards For Delineation of Hydrologic Unit Boundaries 3/01/02" (http://www.ftw.nrcs.usda.gov/huc_data.html). Polygons are attributed with hydrologic unit codes for 4th level sub-basins, 5th level watersheds, 6th level subwatersheds, name, size, downstream hydrologic unit, type of watershed, non-contributing areas and flow modification. Arcs are attributed with the highest hydrologic unit code for each watershed, linesource and a metadata reference file.

Credits

There are no credits for this item.

Use limitations

The distributor shall not be held liable for improper or incorrect use of this data, based on the description of appropriate/inappropriate uses described in this metadata document. It is strongly recommended that this data is directly acquired from the distributor and not indirectly through other sources which may have changed the data in some way. These data should not be used at scales greater than 1:24,000 for the purpose of identifying hydrographic watershed boundary feature locations in 7.5 should be acknowledged as the data source in products derived from these data. The 7 Watershed Boundary Dataset is public information and may be interpreted by all organizations, agencies, units of government, or others based on needs; however, they are responsible for the appropriate application of the data. Federal, State, or local regulatory bodies are not to reassign to the Natural Resources Conservation Service any authority for the decisions they make. The Natural Resources Conservation Service will not perform any evaluations of these maps or purposes related solely to State or local regulatory programs. Photographic or digital enlargement of these maps to scales greater than that at which they were originally delineated can result in misrepresentation of the data. If enlarged, the maps will not include the fine detail that would be appropriate for mapping at the small scale. Digital data files are periodically updated. Files are dated, and

users are responsible for obtaining the latest version of the data from the source distributor.

Extent

West -179.229655 **East** 179.856675
North 71.439573 **South** -14.424695

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE boundaries, inlandWaters

PLACE KEYWORDS US, United States

THESAURUS ►

TITLE Geographic Names Information System

Hide Thesaurus ▲

THEME KEYWORDS Watershed Boundary Dataset, Boundary, Hydrologic Units, Sub-region, boundaries, Subwatershed, PointEvent, WBD, Sub-basin, Topographic, Subbasin, topographic, Drainage areas for surface water, Watershed, Watershed Boundaries, Line, drainage systems and characteristics, Boundaries, Basin, Subregion, HUC, Region, Hydrographic, Administrative watershed units, Hydrologic Unit Code, Hydrography, Point, HU4

THEME KEYWORDS National Watershed Boundary Dataset (WBD)

THESAURUS ►

TITLE The National Map Collection Thesaurus

Hide Thesaurus ▲

THEME KEYWORDS National

THESAURUS ►

TITLE The National Map Product Extent Thesaurus

Hide Thesaurus ▲

THEME KEYWORDS Hydrography

THESAURUS ►

TITLE The National Map Theme Thesaurus

Hide Thesaurus ▲

THEME KEYWORDS Shapefile

THESAURUS ►

TITLE The National Map Product Format Thesaurus

Hide Thesaurus ▲

THEME KEYWORDS inlandWaters, boundaries

THESAURUS ▶

TITLE ISO 19115 Topic Category

Hide Thesaurus ▲

THEME KEYWORDS Downloadable Data

THESAURUS ▶

TITLE The National Map Type Thesaurus

Hide Thesaurus ▲

THEME KEYWORDS ngda, Watershed Boundaries

THESAURUS ▶

TITLE Geospatial Platform

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE National Watershed Boundary Dataset (WBD) Hydrologic Unit Code (HUC) Subwatershed (4-digit)

PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

COLLECTION TITLE National Watershed Boundary Dataset (WBD)

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE publisher

CONTACT INFORMATION ▶

ADDRESS

DELIVERY POINT Reston, VA

Hide Contact information ▲

RESPONSIBLE PARTY

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

CONTACT'S ROLE originator

Hide Citation Contacts ▲

Resource Details ▶

DATASET LANGUAGES English (UNITED STATES)

STATUS completed

SPATIAL REPRESENTATION TYPE vector

GRAPHIC OVERVIEW

FILE NAME ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/Staged/WBD/Shape/WBD_National.jpg
 FILE DESCRIPTION Thumbnail JPG image
 FILE TYPE JPEG

SUPPLEMENTAL INFORMATION

This set of data contains hydrologic unit boundaries of various types or levels, including watershed and subwatershed.; {"gdaId" : 6309413}

PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION
 publication date

TEMPORAL EXTENT

BEGINNING DATE 2014-09-24
 ENDING DATE 2014-09-24

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE
 WEST LONGITUDE -179.229655487448
 EAST LONGITUDE 179.856674735386
 SOUTH LATITUDE -14.4246950942767
 NORTH LATITUDE 71.4395725901531

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE
 EXTENT TYPE Extent used for searching
 WEST LONGITUDE -179.229655
 EAST LONGITUDE 179.856675
 NORTH LATITUDE 71.439573
 SOUTH LATITUDE -14.424695
 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

The distributor shall not be held liable for improper or incorrect use of this data, based on the description of appropriate/inappropriate uses described in this metadata document. It is strongly recommended that this data is directly acquired from the distributor and not indirectly through other sources which may have changed the data in some way. These data should not be used at scales greater than 1:24,000 for the purpose of identifying hydrographic watershed boundary feature locations in 7.5 should be acknowledged as the data source in products derived from these data. The

7 Watershed Boundary Dataset is public information and may be interpreted by all organizations, agencies, units of government, or others based on needs; however, they are responsible for the appropriate application of the data. Federal, State, or local regulatory bodies are not to reassign to the Natural Resources Conservation Service any authority for the decisions they make. The Natural Resources Conservation Service will not perform any evaluations of these maps or purposes related solely to State or local regulatory programs. Photographic or digital enlargement of these maps to scales greater than that at which they were originally delineated can result in misrepresentation of the data. If enlarged, the maps will not include the fine detail that would be appropriate for mapping at the small scale. Digital data files are periodically updated. Files are dated, and users are responsible for obtaining the latest version of the data from the source distributor.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

REFERENCE SYSTEM IDENTIFIER
 VALUE 3395
 CODESPACE EPSG
 VERSION 8.2.6

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►
 LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
 OBJECT TYPE composite
 OBJECT COUNT 223

[Hide Vector ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
 RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

This product contains various layers. The data has been extracted, edited and updated according to USGS standards.

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

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

All fields for all polygons in the .pat are attributed. Some polygons in the Ncontrb_a field might have a 0 value. All fields for the lines in the .aat are attributed. The lines adjacent to the universal polygon are attributed with a 0 for the hu_level. These cannot be attributed until the adjacent states complete their linework at which point the highest level of hydrologic unit can be determined.

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

Cartographic content is derived from USGS national geospatial databases. The data is owned and hosted by the USGS, but does not preclude using data sources owned and hosted by other organizations, provided that these sources have been approved by the USGS data program.

Hide Data quality report - Quantitative attribute accuracy ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION horizontal

MEASURE DESCRIPTION

This USGS map product is compiled to meet National Map Accuracy Standards (NMAS). NMAS horizontal accuracy requires that at least 90 percent of well-defined points tested are within 0.02 inch of the true position. In this product, the projection line, grids, and orthoimage are believed to meet NMAS. Positional accuracy of the other data layers is less controllable because of diversity of data sources, and may not meet NMAS.

Hide Data quality report - Absolute external positional accuracy ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION vertical

MEASURE DESCRIPTION

The accuracy of the National Elevation Dataset (NED) is inherited from the source digital elevation models (DEMs). The overall absolute vertical accuracy expressed as the root mean square error (RMSE) is 2.44 meters. The measured vertical RMSE was converted to equivalent NMAS and NSSDA expressions. The accuracy is expressed in terms of the National Map Accuracy Standards (NMAS), which use a 90 percent confidence interval, and in terms of the National Standard for Spatial Data Accuracy (NSSDA), which uses a 95 percent confidence interval.

Hide Data quality report - Absolute external positional accuracy ▲

Hide Data Quality ▲

Lineage ►

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2012-11-05

DESCRIPTION

The data for this product are created as follows. All geospatial content is taken from national geospatial databases under the stewardship of USGS data programs. The NAIP imagery is provided by a seamless tile service that delivers image data at the resolution and quality of the source imagery. The raster and vector data, including grids and collar information, are processed using ESRI ArcGIS software and exported. Map formatting is performed using a custom application, which includes post-processing to embed the metadata XML document.

Hide Process step ▲

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2014-11-14 00:00:00

DESCRIPTION

The original dataset was converted to WGS 84 World Mercator coordinate system since fewer topological errors were identified than using the original geographic coordinate system. Topology was created in ArcCatalog using the rules Must Not Overlap and Must Not Have Gaps. The topology errors were corrected in ArcMap.

The topologically corrected layer was generalized using the Simplify Polygon tool with the bend simplification and resolve topology error options. The generalized layer was exported to GCS WGS 84 and topology was recreated to confirm no additional errors were introduced.

Two double fields were added to the attribute table for the web mapper program: Area_sq_m and Len_m. Two integer fields were added to the attribute table for the web mapper program: IS_ACTIVE and IS_DELETED.

The layer was imported to the SDE Enterprise Oracle database using the SDO_GEOMETRY spatial type.

[Hide Process step ▲](#)

SOURCE DATA ▶**DESCRIPTION**

International Boundary between Mexico and the United States

SOURCE CITATION ▶

TITLE U.S.-Mexico National Boundary
ALTERNATE TITLES U.S. / Mexico International Boundary
PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

The international boundary between Mexico and the United States, defined as a joint venture between the U.S. Department of Agriculture (USDA) and the Instituto Nacional de Estadística y Geografía of Mexico (INEGI), resulted in an unofficial United States-Mexico boundary dataset that was further enhanced by the U.S. Geological Survey's Border Environmental Health Initiative (BEHI). With the data frame scale set to 1:5,000 in ArcMap, the center of the Rio Grande/Rio Bravo was digitized using the NAIP 2004 Imagery. In areas with dense stands of salt cedar (bounding box = UL -104.714 30.038, UR -104.664 30.037, LR -104.666 29.933, LL -104.717 29.934; NAD83), the center of the channel was difficult, and sometimes impossible, to easily determine. To determine the location of the boundary, the GIS analyst compared the location of the line in the INEGI 1:250K Limited feature class with the NAIP 2004 Imagery and adjusted the boundary to the image, thus, the delineation of the international boundary is less certain in these areas. The remaining part of the border was extracted from the INEGI 1:250K Limite feature class and appended to the line feature class created along the Rio Grande/Rio Bravo. The U.S. Geological Survey reviewed the original USDA data against 2007 NAIP imagery and further edited 9 line segments in the Rio Grande areas to conform to National Map Accuracy Standards.it>

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey, U.S. Department of Agriculture, and the Instituto Nacional de Estadística y Geografía of Mexico.
CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <http://borderhealth.cr.usgs.gov/projectindex.html>

RESOURCE LOCATION ONLINE

LOCATION http://extract.cr.usgs.gov/BorderHealth/Boundaries/Int_Boundary/International_Boundary_Shapefile.zip

[Hide Source citation ▲](#)

EXTENT OF THE SOURCE DATA

DESCRIPTION
publication date

TEMPORAL EXTENT

BEGINNING DATE 1972-01-01
ENDING DATE 2006-01-01

[Hide Source data ▲](#)

SOURCE DATA ►

DESCRIPTION
Contours

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Hypsography
ALTERNATE TITLES Hypsography
PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

This contour featureclass was generated from the 1/3 arc-second version of the National Elevation Dataset (NED). The intended viewing scale for these features is 1:24,000. The contours are derived from a filtered elevation raster to achieve smoother arcs. The NED data were modified by the National Hydrography Dataset (NHD) flow lines and water bodies to facilitate improved integration between the hypsography and hydrography on USGS map products. These contours were generated primarily for use as layers in USGS products. The raster data source of contours is the National Elevation Dataset (NED) 1/3 arc-second layer. The 1/3 arc-second NED contains resampled data from the 1/9 arc-second layer of NED. Secondary datasets include the high resolution flow lines, water bodies, and areas from the National Hydrography Dataset (NHD). The NHD layers are used in hydro-enforcement of the DEM prior to contour generation. The goals of the hydro-enforcement are to prevent contour lines from extending over the surface of water bodies and to align the contour reentrants with the NHD single-line streams. The NED raster cells are converted to points. Those points, along with the NHD flow lines are input into an interpolation tool to create a new surface. The NHD water bodies and areas are preprocessed to attach the minimum and maximum elevation to each polygon. From these precalculated values, an appropriate value is calculated by which to raise the elevation cells under the NHD polygons. The NHD polygons are then converted into rasters, which in turn will be used to generate a mosaic that includes the new raster surface. The mosaic is filtered to provide smoother contour lines. Contours are generated and depression and index contours are identified. There is no guarantee or warranty concerning the accuracy of the data. Users should be aware that temporal changes may have occurred since these data were collected and generated and that some parts of these data may no longer represent actual surface conditions. Hydro-enforcement and generalization can also significantly alter the spatial characteristics of the contours. Users should not use these data for critical applications without a full awareness of its limitations.

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey, National Geospatial Technical Operations Center - National Elevation Dataset is a component of a comprehensive base geospatial data model.

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <http://ned.usgs.gov/>

[Hide Source citation ▲](#)

EXTENT OF THE SOURCE DATA

DESCRIPTION
publication date

TEMPORAL EXTENT

BEGINNING DATE 2002-04-01
ENDING DATE 2002-04-01

[Hide Source data ▲](#)

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 2014-09-24

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 http://nhdgeo.usgs.gov/metadata/nhd_high.htm

RESOURCE LOCATION ONLINE

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

RESOURCE LOCATION ONLINE

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

[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

National Elevation Dataset

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Shaded Relief

ALTERNATE TITLES Imagery Shaded Relief

PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT raster digital data

OTHER CITATION DETAILS

The Shaded relief is a derivative elevation product created from the National Elevation Dataset (NED) 1/3 arc second. First there are five separate shaded relief datasets created from the original data. Each shaded relief has different azimuths and altitude values as follows: 00 450, 1350 600, 2700 450, 3150 450, 450 450. These five datasets are then combined into one feature class using map algebra to compute the raster layers using the following equation $\text{shadedrelief1} + \text{shadedrelief2} + \text{shadedrelief3} + (\text{shadedrelief4} \times 2) + \text{shadedrelief5} \setminus 6$. This equation gives double importance to the 3150 azimuth and 450 elevation.

RESPONSIBLE PARTY

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

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <http://viewer.nationalmap.gov/viewer/nhd.html?p=nhd>*Hide Source citation ▲*

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

BEGINNING DATE 2002-04-01

ENDING DATE 2002-04-01

Hide Source data ▲

SOURCE DATA ►

DESCRIPTION

International Boundary between Canada and the United States

SOURCE CITATION ►

TITLE U.S.-Canada National Boundary

ALTERNATE TITLES U.S. / Canada International Boundary

PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map
 FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

The international boundary dataset between Canada and the United States was provided by Maine Office of Geographic Information Systems (MEGIS), University of New Hampshire, Vermont Center for Geographic Information, Inc (VCGI). The dataset was collected from multiple source agencies such as the U.S. Geological Survey, U.S. Department of Commerce, Bureau of Census, Bureau of Parks and Lands, Coastal Island Registry (CIREG) and various state agencies. The data and attribution accuracy was tested by manual comparison of the source with hard copy printouts and/or symbolized display of digital files and corrected by each state GIS department for use at a scale not greater than 1:24,000.

RESPONSIBLE PARTY

ORGANIZATION'S NAME International Boundary Commission
 CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <http://www.internationalboundarycommission.org/products.html#nad83>

RESOURCE LOCATION ONLINE

LOCATION <http://www.internationalboundarycommission.org/>

Hide Source citation ▲

EXTENT OF THE SOURCE DATA

DESCRIPTION
 publication date

TEMPORAL EXTENT

BEGINNING DATE 2006-01-01
 ENDING DATE 2006-01-01

Hide Source data ▲

SOURCE DATA ►

DESCRIPTION
 Geographic feature names

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

SOURCE CITATION ►

TITLE Geographic Names Information System (GNIS)
 ALTERNATE TITLES Geographic Names
 PUBLICATION DATE 2014-09-24

PRESENTATION FORMATS digital map
 FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

The Geographic Names Information System (GNIS) is the Federal and national standard for geographic nomenclature. The U.S. Geological Survey developed the GNIS in support of the U.S. Board on Geographic Names as the official repository of domestic geographic names data, the official vehicle for geographic names use by all departments of the Federal Government, and the source for applying geographic names to Federal electronic and printed products.

RESPONSIBLE PARTY

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

RESOURCE LOCATION ONLINE

LOCATION <http://geonames.usgs.gov/>

Hide Source citation ▲

EXTENT OF THE SOURCE DATA

DESCRIPTION

publication date

TEMPORAL EXTENT

BEGINNING DATE 2012-01-01

ENDING DATE 2012-01-01

Hide Source data ▲

Hide Lineage ▲

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 1400 Independence Road

CITY Rolla

ADMINISTRATIVE AREA MO

POSTAL CODE 65401

E-MAIL ADDRESS <http://www.usgs.gov/ask/>

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 <http://nationalmap.usgs.gov> or EarthExplorer, at <http://earthexplorer.usgs.gov> or Ask USGS at <http://www.usgs.gov/ask>.

Hide Contact information ▲

AVAILABLE FORMAT

NAME Shapefile

FILE DECOMPRESSION TECHNIQUE "No compression applied"

FORMAT INFORMATION CONTENT Spatial objects with unique identifiers and coordinate data.

ORDERING PROCESS

TERMS AND FEES None

TRANSFER OPTIONS

TRANSFER SIZE 3352.570045

ONLINE SOURCE

LOCATION ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/Staged/WBD/Shape/WBD_National.zip

Hide Distributor ▲

DISTRIBUTION FORMAT

NAME SDE Feature Class

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/Staged/WBD/Shape/WBD_National.zip

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT [wbdhu4](#) ▶

DEFINITION

The 10-digit code of the 5th level hydrologic unit that is receiving the majority of the flow from the watershed that the 6th level HU falls within. Outlets created by ditching or other artificial drainage were not considered for this field.

DEFINITION SOURCE

Federal Standards for Delineation of Hydrologic Unit Boundaries

FIELD [States](#) ▶

FIELD DESCRIPTION

The "States" field includes the names of all state(s) that the subwatershed falls within.

DESCRIPTION SOURCE

Federal Standards for the Delineation of Hydrologic Unit Boundaries

CODED VALUES

NAME OF CODELIST Federal Standards for Delineation of Hydrologic Unit Boundaries

SOURCE Please refer to the Entity and Attribute Overview for valid values

Hide Field States ▲

FIELD [LoadDate](#) ▶

FIELD DESCRIPTION

Date Feature Class was Loaded into database

DESCRIPTION SOURCE

Federal Standards for Delineation of Hydrologic Unit Boundaries

CODED VALUES

NAME OF CODELIST Federal Standards for Delineation of Hydrologic Unit Boundaries

SOURCE Please refer to the Entity and Attribute Overview for valid values

Hide Field LoadDate ▲

FIELD [OBJECTID](#) ▶

FIELD DESCRIPTION

Internal feature number.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

Hide Field OBJECTID ▲

FIELD METASOURCEID ►

Hide Field METASOURCEID ▲

FIELD SOURCEDATADESC ►

Hide Field SOURCEDATADESC ▲

FIELD SOURCEORIGINATOR ►

Hide Field SOURCEORIGINATOR ▲

FIELD SOURCEFEATUREID ►

Hide Field SOURCEFEATUREID ▲

FIELD GNIS_ID ►

Hide Field GNIS_ID ▲

FIELD AREAACRES ►

Hide Field AREAACRES ▲

FIELD AREASQKM ►

Hide Field AREASQKM ▲

FIELD NAME ►

Hide Field NAME ▲

FIELD HUC4 ►

Hide Field HUC4 ▲

FIELD TNMID ►

FIELD DESCRIPTION

A sequential id for labeling USGS TNM objects

DESCRIPTION SOURCE

Federal Standards for the Delineation of Hydrologic Unit Boundaries

CODED VALUES

NAME OF CODELIST Federal Standards for the Delineation of Hydrologic Unit Boundaries
SOURCE Please refer to the Entity and Attribute Overview for valid values

Hide Field TNMID ▲

FIELD MAXSIMPTOL ►

Hide Field MAXSIMPTOL ▲

FIELD MINSIMPTOL ►

Hide Field MINSIMPTOL ▲

FIELD Shape ►

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Coordinates defining the features.

Hide Field Shape ▲

FIELD IS_ACTIVE ►

Hide Field IS_ACTIVE ▲

FIELD IS_DELETED ►

Hide Field IS_DELETED ▲

FIELD SE_ANNO_CAD_DATA ►

Hide Field SE_ANNO_CAD_DATA ▲

FIELD SHAPE_Length ►

FIELD DESCRIPTION

Length of feature in internal units.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

FIELD SHAPE_Area ▶

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 Area_sq_m ▶

Hide Field Area_sq_m ▲

FIELD Len_m ▶

Hide Field Len_m ▲

Hide Details for object wbdhu4 ▲

Hide Fields ▲

References ▶

AGGREGATE INFORMATION

ASSOCIATION TYPE larger work citation

AGGREGATE RESOURCE NAME ▶

TITLE National Watershed Boundary Dataset (WBD)

PUBLICATION DATE 2014-01-01

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE originator

RESOURCE LOCATION ONLINE

LOCATION <https://www.sciencebase.gov/catalog/item/51361e87e4b03b8ec4025c22>

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 2014-11-17

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

[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 <http://www.usgs.gov/ask/>

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 <http://nationalmap.usgs.gov> or EarthExplorer, at <http://earthexplorer.usgs.gov> or Ask USGS at <http://www.usgs.gov/ask>.

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Metadata Maintenance ►

MAINTENANCE

DATE OF NEXT UPDATE 2015-09-24 00:00:00

UPDATE FREQUENCY unknown

OTHER MAINTENANCE REQUIREMENTS

Last metadata review date: 20140924

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Thumbnail and Enclosures ►

THUMBNAIL

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FGDC Metadata (read-only) ▼