

HYDROLOGIC_BASINS



Tags

watershed boundaries, water resources, inlandWaters, environment, boundaries, watersheds, hydrologic unit codes, water quality reporting, waterbody beneficial use, impaired waterbodies, hydrological basin, San Diego County, Riverside County, Imperial County, Orange County, CalWater ver 2.2.1

Summary:

The purpose of Calwater 2.2.1 is to standardize the boundary delineation, coding, and naming of California watersheds by government agencies. Calwater also cross-references watershed codes implemented by the California Department of Water Resources (DWR), the California State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards (RWQCB), as well as Hydrologic Unit Codes (HUC) published by the U.S. Geological Survey (USGS) for California and the nation.

Standardized watershed delineations, codes, and names from both State and federal systems are used primarily to map, analyze, and document water resources and water quality information and regulations. Examples include water quality reporting to the U.S. Environmental Protection Agency by SWRCB and Timber Harvest Plan tracking by the California Department of Forestry and Fire Protection (CDF). Applications also include regional planning, environmental analysis, hydrology, wildlands research, soils, agriculture, and fish and wildlife habitat management. Calwater is also useful in geographic information systems (GIS) and for online data retrieval. Calwater 2.2.1 and versions to follow are intended to provide a comprehensive geographic frame of reference for the California landscape.

This dataset comprises a portion of the full California dataset to cover hydrological basins that intersect San Diego County, Imperial County, Riverside County and Orange County.

Feature Type: Polygon

Number of Records: 292

Publication Date: 2014-11-14

Date of Data (Temporal Period Extent): 2004-05-01 to

Extent: Hydrological basins that intersect San Diego County, Orange County, Riverside County and Imperial County. Date of last update of dataset by State.

Extent in Longitude Latitude

North 34.922346
West -118.215938 **East** -114.114911
South 32.519837

Extent in the item's coordinate system

North 2643241.621635
West 5972040.256584 **East** 7202038.729982
South 1775300.562573

Description:

The California Interagency Watershed Map of 1999 (Calwater 2.2, updated May 2004, "calw221") is the State of California's working definition of watershed boundaries. Previous Calwater versions (1.2 and 2.2) described California watersheds, beginning with the division of the State's 101 million acres into ten Hydrologic Regions (HR). Each HR is progressively subdivided into six smaller, nested levels: the Hydrologic Unit (HU, major rivers), Hydrologic Area (HA, major tributaries), Hydrologic Sub-Area (HSA), Super Planning Watershed (SPWS), and Planning Watershed (PWS). At the Planning Watershed (the most detailed level), where implemented, polygons range in size from approximately 3,000 to 10,000 acres. At all levels, a total of 7035 polygons represent the State's watersheds. The present version, Calwater 2.2.1, refines the watershed coding structure and documentation (database fields were added and some were renamed). There are significant watershed boundary, code, and name differences between Calwater versions 1.2 (1995), 2.0 (1998), and 2.2 (1999). The differences between versions 2.2 (1999) and 2.2.1 (2004) are attribute field names and some inserted lines that identify differences between State and federal watersheds. Calwater 2.2.1 most accurately delineates true watersheds in mountainous terrain. However, neither Calwater 2.2.1 nor any of its predecessors is a "pure" watershed map because administrative boundaries such as the State border were used to delineate watershed areas. Some of the boundaries, particularly in developed valley areas, also have legal and administrative purposes other than the representation of actual drainage divides. Examples include the so-called "Legal Delta" (California Water Code, Chapter 2, the Delta, Sec. 12220) and other district boundaries. Neither is Calwater a legal map document, as it does not represent State of California Regional Water Quality Control Board (RWQCB) jurisdictions, officiated by the State Water Resources Control Board (SWRCB) under California Water Code Section 13200. Calwater is a hybrid, a spatial cross-reference for use in local, State, and federal information communities. The California Resources Agency (CRA) Department of Forestry and Fire Protection (CDF) contracted with Tierra Data Systems for the original digital production in 1993, based on Hydrologic Basin Planning Maps published in hardcopy (SWRCB, 1986). The State of California Stephen P. Teale Data Center GIS Solutions Group (Teale) under the direction of the California Department of Water Resources (DWR) and CDF, finalized the current version in ESRI ArcInfo coverage format in 1999 with USDA Forest Service and RWQCB/SWRCB inputs. The CRA California Spatial Information Library (CaSIL) is the current distributor of the coverage in the Teale Albers Conical Equal-Area projection, North American Datum of 1983. The California Department of Fish and Game (DFG) authored Calwater attribution design and documentation culminating in May 2004 with this Federal Geographic Data Committee (FGDC-STD-001-1998) standard metadata. This dataset comprises a portion of the full California dataset to cover hydrological basins that intersect San Diego County, Imperial County, Riverside County and Orange County.

Credits:

California Interagency Watershed Mapping Committee: California Department of Water Resources (DWR), California Department of Forestry and Fire Protection (CDF), California Department of Fish and Game (DFG), California State Water Resources Control Board (SWRCB), USDA Forest Service (USFS) Pacific Southwest Region (R5), USDA Natural Resources Conservation Service (NRCS), U.S. Geologic Survey (USGS), USDI Bureau of Reclamation (USBR), USDI Bureau of Land Management (BLM), U.S. Environmental Protection Agency (USEPA) Region IX, Stephen P. Teale Data Center (Teale GIS Solutions Group).

Use Limitation:

The State of California and the Department of Forestry and Fire Protection make no representations or warranties regarding the accuracy of data or maps. The user will not seek to hold the State or the Department liable under any circumstances for any damages with respect to any claim by the user or any third party on account of or arising from the use of data or maps. The user will cite the Department of Forestry and Fire Protection as the original source of the data, but will clearly denote cases where the original data have been updated, modified, or in any way altered from the original condition. There are no restrictions on distribution of the data by users. However, users are encouraged to refer others to the Department of Forestry and Fire Protection to acquire the data, in case updated data become available.

Topics and Keywords

Topic Categories: Boundaries Inland Waters

Themes:

watershed boundaries, water resources, inlandWaters, environment, boundaries, watersheds, hydrologic unit codes, water quality reporting, waterbody beneficial use, impaired waterbodies, hydrological basin, CalWater ver 2.2.1

Places:

San Diego County, Riverside County, Imperial County, Orange County

Resource Details:

Status: Completed
Type: Vector
Update Frequency: Unknown
Next Update: Not specified

Spatial Reference System:

Type: Projected
Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 5.3(9.0.0)

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Distribution Ordering Instructions:

Data can be downloaded in shapefile format from the SanGIS Data Warehouse at <https://rdw.sandag.org/Account/Login>

Refer to SanGIS website (www.sangis.org) to obtain further information on mapping and data extraction services available from SanGIS.

Fields:

Overview:

Codes and names are unique for each watershed polygon (except where noted in Supplemental Information and in Logical Consistency Report). Polygon attributes indicate varying levels in the State watershed hierarchy (RBU, RBUA, etc) and are provided for users to dissolve polygon boundaries to the desired level. Cross-references to federal watershed codes and names are also provided. The "LEVEL" attribute in the arc attribute table may also be used with graduated line weights to cartographically represent the hierarchy of watershed designations.

The HYD_BASINS layer contains the following fields:

CALWNUM
SWRCBNUM21
HRC
HBPA
RBU
RBUA
RBUAS
RBUASP
RBUASPW

HR
 RB
 HU
 HA
 HSA
 SPWS
 PWS
 HRNAME
 RBNAME
 HBPANAME
 HUNAME
 HANAME
 HSANAME
 CDFSPWNAME
 CDFPWSNAME
 ACRES
 HUC_8
 HUC_8_NAME
 HUC_8_ALT2
 HUC_8_ALT3
 DWRNUM20
 DWRHUNAME
 DWRHANAME
 DWRHSANAME
 CDFNUM22
 CASE_
 RuleID

Citation:

State Water Resources Control Board, California Department of Water Resources,
 California Department of Forestry and Fire Protection, California Teale GIS
 Solutions Group, California Department of Fish and Game

__FID (OID)

Internal feature number.

Shape (Geometry)

Feature geometry.

CALWNUM (String)

Calwater Watershed ID Number

SWRCBNUM21 (String)

Watershed ID Number (SWRCB at Calwater v2.1)

HRC (String)

Hydrologic Region Code (DWR)

HBPA (String)

Hydrologic Basin Planning Area (RWQCB)

RBU (Integer)

Concatenates HR,RB,HU into a single integer

RBUA (Integer)

Concatenates HR,RB,HU,HA

RBUAS (Integer)

Concatenates HR, RB, HU, HA, HSA

RBUASP (Integer)

Concatenates HR, RB, HU, HA, HSA, SPWS

RBUASPW (Double)

Concatenates HR, RB, HU, HA, HSA, SPWS, PWS

HR (Integer)

Hydrologic Region (1->10)(DWR)

RB (Integer)

Regional Water Qual. Cont. Board (1->9)(RWQCB)

HU (Integer)

Hydrologic Unit (00->~80)(SWRCB)

HA (Integer)

Hydrologic Area (0->9)(SWRCB)

HSA (Integer)

Hydrologic Sub-Area (0->9)(SWRCB)

SPWS (Integer)

Super Planning Watershed (00->~30)(CDF)

PWS (Integer)

Planning Watershed (00->~13)(CDF)

HRNAME (String)

Hydrologic Region Name (DWR)

RBNAME (String)

Regional Water Qual. Cont. Board Name

HBPANAME (String)

Hydrologic Basin Planning Area Name

HUNAME (String)

Hydrologic Unit Name

HANAME (String)

Hydrologic Area Name

HSANAME (String)

Hydrologic Sub-Area Name

CDFSPWNAME (String)

Super-Planning Watershed Name

CDFPWSNAME (String)

Planning Watershed Name

ACRES (Double)

Acreage of watershed polygon

HUC_8 (Integer)

Federal 8-digit Hydrologic Unit Code (HUC)

HUC_8_NAME (String)

Name of Federal 8-digit HUC

HUC_8_ALT2 (Integer)

Second Overlapping HUC

HUC_8_ALT3 (Integer)

Third Overlapping HUC

DWRNUM20 (String)

DWR watershed identifier (Calwater v2.0 MOU)

DWRHUNAME (String)

DWR Hydrologic Unit Name (Calwater v2.0)

DWRHANAME (String)

DWR Hydrologic Area Name (Calwater v2.0)

DWRHSANAME (String)

DWR Hydrologic Sub-Area Name (Calwater v2.0)

CDFNUM22 (String)

CDF Watershed ID Number (at Calwater v2.2)

CASE_ (Integer)

Unknown

RuleID (Integer)

ArcGIS field for feature class representation

Shape_Area (Double)

Area of feature in internal units squared.

SHAPE_LEN (Double)

Metadata Last Update: 2023-02-16

Regional GIS Data Warehouse (RGDW) Publication Stylesheet 1.4