

Changes made to Calwater 2.2.1 attributes, March 2016

Purpose:

To provide information in accordance with Anadromous Salmonid Protection (ASP) Rules for the California timber harvesting plan review process

What changed?

The original attribute fields were excluded except for CALWNUM (Calwater Watershed ID Number (Interagency)) and CDFPWSNAME (Planning Watershed Name), which are most relevant in the process of California timber harvesting plan and its review process.

The following information was added to the watershed attribute.

- NOAA Coastal Anadromy Zone (CAZ)
- NOAA National Marine Fisheries Service (NMFS) Evolutionarily Significant Unit (ESU) status for Coho and Chinook and Distinct Population Segment (DPS) status for Steelhead
- California Department of Fish and Wildlife (CDFW) ASP Restorable Watersheds (Coho and Steelhead Restorability)
- California Department of Fish and Wildlife (CDFW) List of Watersheds Upstream from ASP Watersheds
- State Water Resources Control Board (SWRCB) 2010 303(d) List of Water Quality Limited Segments
- County

What remains the same?

- CALWNUM

Note: An empty space that existed in the original CALWNUM value was removed.

Example: " 1101.000001" → "1101.000001" (no space)

- CDFPWSNAME

Note 1: The watersheds previously attributed as "undefined" in Calwater 2.2.1 were re-attributed with the planning watershed names of the corresponding planning watersheds in Calwater 2.2 version.

Note 2: The name of the planning watershed (CALWNUM 1113.500705) was corrected from Fly Creek to Flynn Creek.

- Watershed geometry

Who made the changes?

Forest Practice GIS at California Department of Forestry and Fire Protection (CAL FIRE) made the changes to Calwater 2.2.1 through geoprocessing with the data from NOAA NMFS, CDFW, and SWRCB.

Fish ESU/DPS and CAZ information was incorporated into Calwater 2.2.1 in November 2010. Fish ESU/DPS information was updated in September 2013. NOAA NMFS at Northwest Regional office and Southwest Regional office provided valuable and continuous assistance in the process.

Attribute Field Descriptions:

Field Name	Description/possible values
CALWNUM	Calwater Watershed ID Number (Interagency)
CDFPWSNAME	CAL FIRE Planning Watershed Name
Coho_ESU_STATUS	Endangered, Threatened, *Includes ESU – Endangered, *Includes ESU – Threatened, Outside of ESU (NOAA NMFS)
Chinook_ESU_STATUS	Endangered (Sacramento Winter), Threatened, Threatened (Central Valley Spring), *Includes ESU - Endangered (Sacramento Winter), *Includes ESU – Threatened, *Includes ESU - Threatened (Central Valley Spring), Species of Concern (Central Valley Fall & Late Fall), Not Warranted, Outside of ESU (NOAA NMFS) (*Includes means that a watershed includes portions of the area defined as ESU or DPS.)
Steelhead_DPS_STATUS	Endangered, Threatened, *Includes DPS – Endangered, *Includes DPS – Threatened, Not Present, Not Warranted, Outside of DPS (NOAA NMFS)
Coho_Restorability	Non-restorable, Present, Restorable, or Undetermined (no data available at present) (CDFW)
Steelhead_Restorability	Non-restorable, Present, Restorable, or Undetermined (no data available at present) (CDFW)
UpStream_ASP	Upstream from ASP Watersheds: Yes (Watersheds that are upstream from ASP) or blank (Watersheds either not upstream from ASP or undetermined) (CDFW)
Coastal_Anadromy_Zone_FPRs	Coastal Anadromy Zone as defined in the Forest Practice Rules (NOAA NMFS)
Status_303d_2010	Present (303(d) channels & waterbodies are present in the planning watershed.), Absent (303(d) channels & waterbodies are absent in the planning watershed), Adjacent (The planning watershed contains stream channel(s) and/or waterbody (bodies) which directly drain(s) to 303(d) channels or waterbodies in the adjacent planning watershed downstream.)** (SWRCB) ** When 303(d) and Calwater GIS data do not match very well to each other or to the ground features in the imagery, it was necessary to use ancillary data (e.g., USGS Topo Quads, NAIP images, and Hillshades) to determine the status.
County	County name (Interagency)
Acres	Watershed acreage
Shape_Length	Watershed perimeter in meters
Shape_Area	Watershed area in square meters

Notes:

The modified Calwater is a work in progress. As new information becomes available, the data attributes will be updated accordingly. The CALWNUM, CDFPWSNAME, and the geometry will not be modified in the update process.

Data source:

- NOAA CAZ data layer was provided by NOAA NMFS Southwest Regional Office in the summer of 2010.
- Fish ESU/DPS data were downloaded from NOAA NMFS website. Status of Coho and Chinook ESU and Steelhead DPS were attributed with the NOAA NMFS data.

The website where the GIS data are available for download:

http://www.westcoast.fisheries.noaa.gov/maps_data/Species_Maps_Data.html

- CDFW ASP (formerly Threatened & Impaired) Watersheds and List of Watersheds Upstream from ASP Watersheds were obtained from CDFW Northern Region.
- The statewide line and polygon shapefiles for the 2010 Integrated Report (all assessed waters) and 303(d) List of Water Quality Limited Segments (USEPA approved) were downloaded from SWRCB Total Maximum Daily Load (TMDL) Program, Impaired Water Bodies website. The data are “303(d) listed waters only (rev. 01/20/12).”

The website where the data are available for download:

http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml

- California county names were attributed to the watersheds, using California County Boundaries data (2009). The geodatabase is available for download at CalAtlas website at: <http://www.atlas.ca.gov/download.html#/casil/boundaries>
- California county boundaries geodatabase (2015) is available for download from the Fire and Resource Assessment Program (FRAP), CAL FIRE. http://frap.cdf.ca.gov/data/frapgisdata-sw-counties_download