



SACRAMENTO
SAN JOAQUIN
BAY-DELTA



SWRCB MY
WATER QUALITY
PORTALS



CALIFORNIA
ESTUARY
PORTAL



SAN JOAQUIN
REAL TIME
MANAGEMENT



DWR 1641
WATER
QUALITY



BAY-DELTA LIVE



SACRAMENTO
RIVER
WATERSHED

Bay-Delta Live Powering California Environmental Data Federations

What is the California Environmental Data Federation Catalog?



Welcome to the California Data Federation catalog of environmental datasets and components.

This booklet will give you an overview of currently available data and or ready to use data components.

You can choose the data of your choice for use on a custom BDL data dashboard(s) or embed the component on your website.

The catalog is organized as follows:

- | | |
|--|---|
| 1. Hydrology and Flows | 6. Custom Components and Data Presentation |
| 2. Fisheries and Fisheries Management | 7. Weather |
| 3. Water Operations and Delta Operations | 8. Source Data |
| 4. Water Quality | 9. GIS Map Layers for custom GIS data viewers or maps |
| 5. Statewide Monitoring | |

If the data component you need is not available but the data is in the regional dataset list, custom components are available.

For more information, please contact:

34 North
12277 Soaring Way Suite 107
Truckee, Ca 96161
(530) 587- 3434
data@34north.com

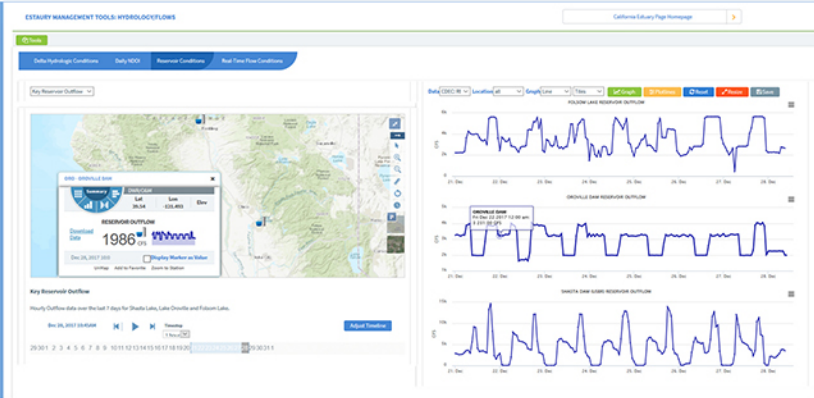
DATA

Hydrology/Flow Management Tools

DATA COMPONENT

DESCRIPTION

Reservoir Conditions



Title: Reservoir Conditions at Key Reservoirs

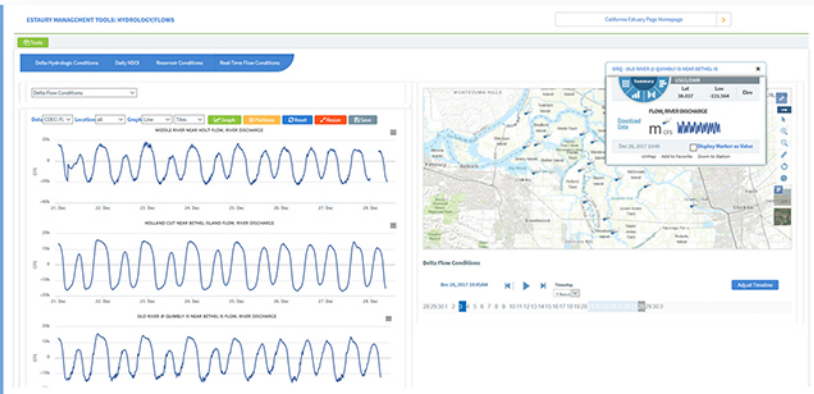
Duration: Hourly data for the last 7 days or customizable

Data: Outflow, storage and inflow.

Source: California Data Exchange Center



River Flow Conditions



Title: River Flow Conditions (CFS)

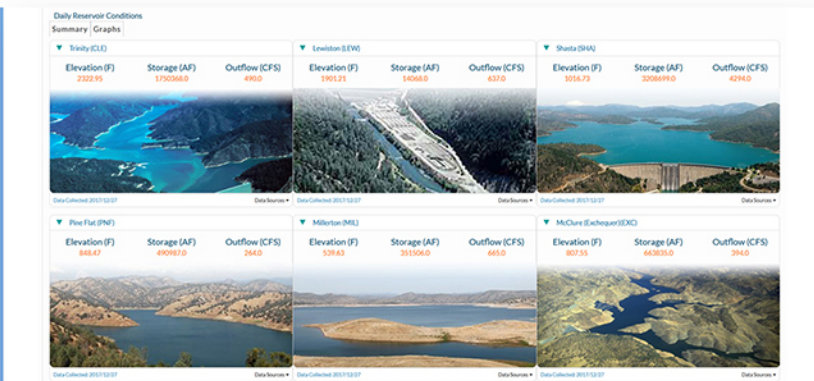
Duration: 15-minute data for the last 7 days or customizable

Data: Flow, River Discharge in the Sacramento-San Joaquin Bay Delta, Lower Sacramento River, and Lower San Joaquin River

Source: California Data Exchange Center



Daily Reservoir Conditions



Title: Daily Reservoir Conditions

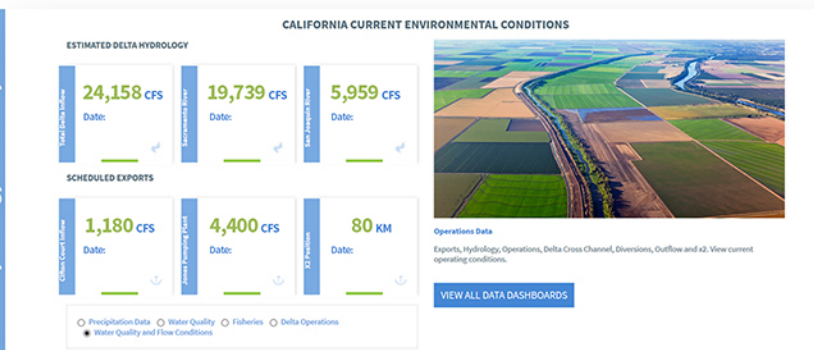
Duration: Daily

Data: Reservoir Elevation, Storage and Outflow

Source: California Data Exchange Center



Sacramento-San Joaquin Delta Hydrology Summary



Title: Sacramento-San Joaquin Delta Hydrology Summary

Duration: Daily

Data: Delta Inflow, Exports and X2

Source: CA Department of Water Resources and the United States Bureau of Reclamation



Data Providers and Collaborators



DATA

Hydrology/Flow Management Tools

Hydrology/Flow Management Tools

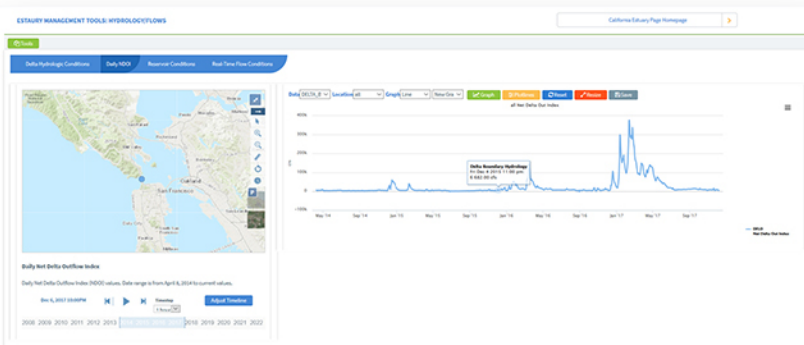
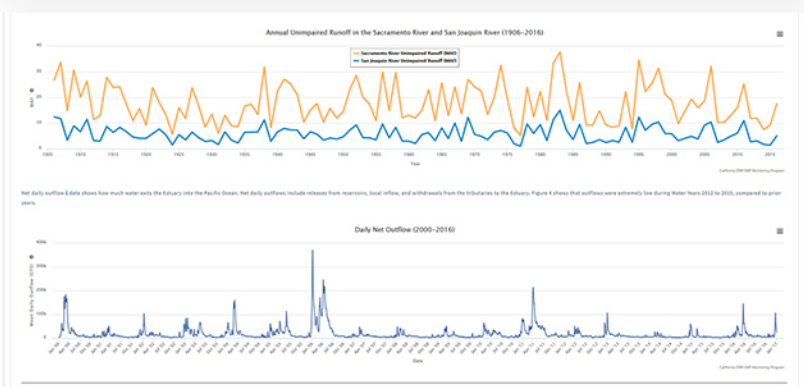
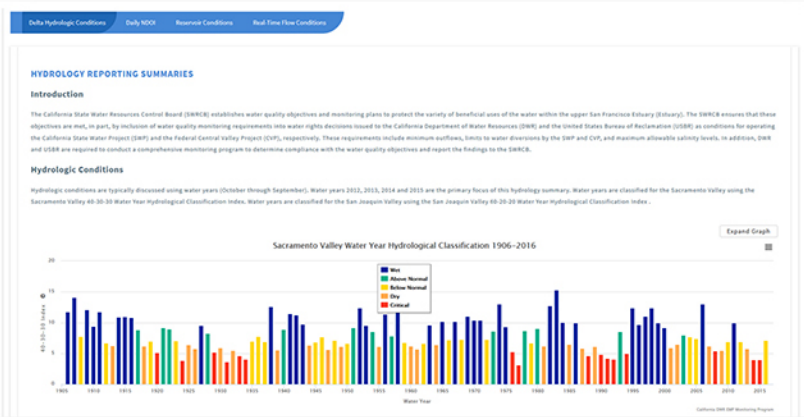
DATA COMPONENT

DESCRIPTION

Hydrologic Reporting Summaries

Hydrologic Reporting Summaries

Daily Net Delta Outflow Index



Title: Hydrologic Conditions
Duration: Water year summaries from 1905-2016
Data: Water year classification, unimpaired runoff, net delta outflow index
Source: California Department of Water Resources and the United States Bureau of Reclamation

Title: Hydrologic Conditions
Duration: Water year summaries from 1905-2016
Data: Water year classification, unimpaired runoff, Net Delta Outflow Index
Source: CA Department of Water Resources and United States Bureau of Reclamation.

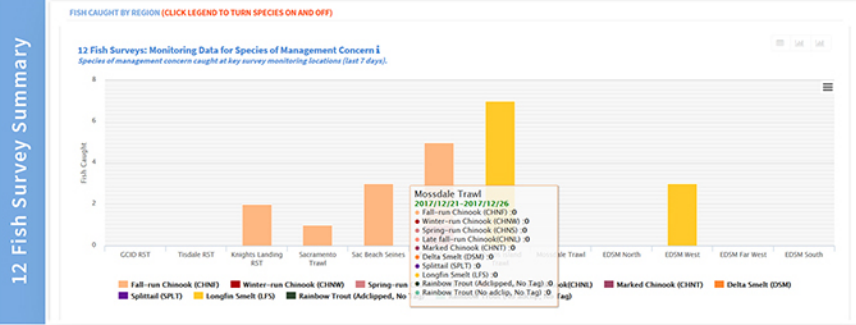
Title: Daily Net Delta Outflow Index
Duration: Daily data from 2014 to current or customizable
Source: CA Department of Water Resources



DATA

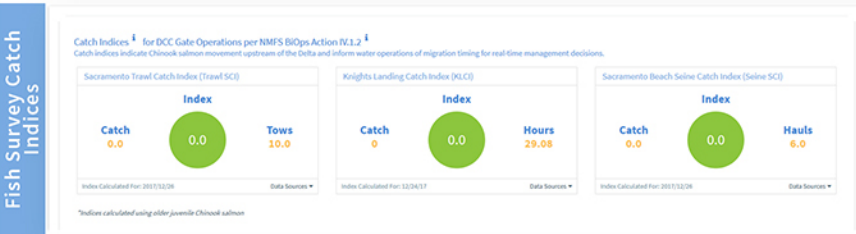
Fisheries Management Tools

DATA COMPONENT



DESCRIPTION

Title: Fish Survey Catch Summary From 12 California Surveys
Duration: Past 7 days
Description: Aggregated catch data for species of management concern at key locations.
Source: US Fish and Wildlife Service (Delta Juvenile Fish Monitoring Program and Enhanced Delta Smelt Monitoring), CA Department of Fish and Wildlife, and Glenn Colusa Irrigation District.

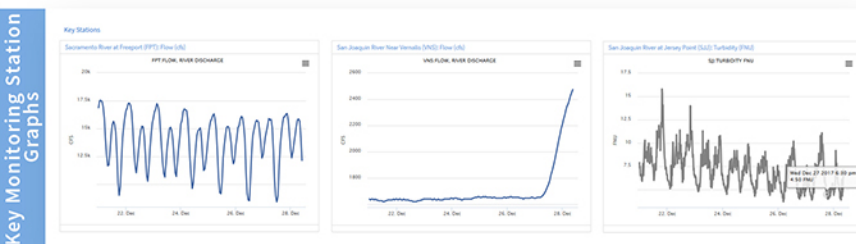


Title: Catch Indices for Delta Cross Channel Operations
Duration: Daily
Data: Juvenile Chinook catch indices for the Sacramento Trawl, Knights Landing and Sacramento Beach Seines.
Source: US Fish and Wildlife Service Delta Juvenile Fish Monitoring Program and CalFish



Title: Environmental Indicators of Fish Migration
Duration: Daily
Data: Flow, Mean Daily and the percent change and water temperature at upstream locations along the Sacramento River.
Description: Indicator parameters as monitored by the Delta Operations for Salmonid and Sturgeon technical team used to trigger changes in Delta Cross Channel Gate Operations.
Source: California Data Exchange Center and CalFish

Customizable



Title: Key Monitoring Stations for Fisheries Management
Duration: Last 7 Days
Data: Flow at Freeport and Vernalis and Turbidity at Jersey Point
Source: California Data Exchange Center

Data Providers and Collaborators



DATA COMPONENT

DJFMP Catch Snapshot
List of fish species of management concern caught during the most recent day of DJFMP surveys (trawls and seines).

Fish Caught by Region

Date Interval

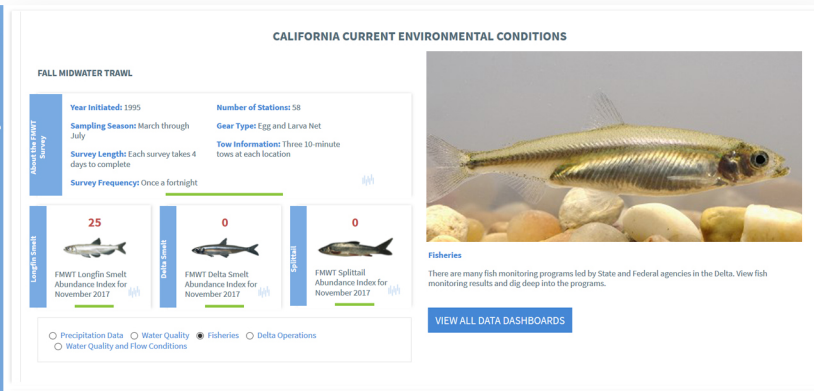
Start Date 2017-12-25 **End Date** 2017-12-28
Duration 3 Days **Get**

Show 25 entries

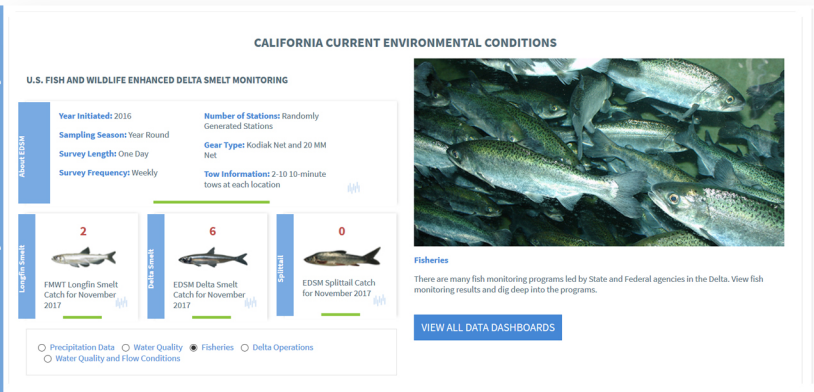
Sample Date	Method Code	Station Name	Station Code	Number of Tows	Total Count	Organization	Mark Code	RacebyLength	StageName	Fate
12/26/2017	ED9M	18-22-CK03	18-22-CK03	5	5	BOS	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-CK03	18-22-CK03	5	4	MSS	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-CK03	18-22-CK03	5	1	NOFISH	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-CK03	18-22-CK03	5	3	TFS	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-HK01	18-22-HK01	4	5	NOFISH	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-SRW01	18-22-SRW01	5	52	NAN	None	n/p	Not Provided	No
12/26/2017	ED9M	18-22-SRW01	18-22-SRW01	5	30	PEACHE	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LNR01	18-22-LNR01	6	52	NAN	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LNR01	18-22-LNR01	6	7	PEACHE	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LX01	18-22-LX01	5	1	AMS	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LX01	18-22-LX01	5	4	NOFISH	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LX01	18-22-LX01	5	1	TFS	None	n/p	Not Provided	No
12/27/2017	ED9M	18-22-LX02	18-22-LX02	5	5	NOFISH	None	n/p	Not Provided	No

DESCRIPTION

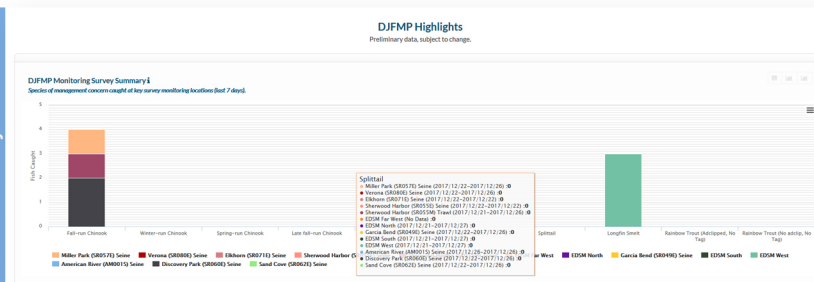
Title: Delta Juvenile Fish Monitoring Program Catch Snapshot
Duration: Can be customized
Data: Catch and tow information for the Enhanced Delta Smelt Monitoring (EDSM) and Delta Juvenile Fish Monitoring Program (DJFMP).
Source: US Fish and Wildlife Service.



Title: Fall MidWater Trawl Index Summary
Duration: Monthly, Sampling Season to Date
Data: Survey Information and catch values for, Longfin Smelt, Delta Smelt and Splittail Abundance Indices
Source: CA Department of Fish and Wildlife



Title: Enhanced Delta Smelt Monitoring Monthly Summary
Duration: Month to Date
Data: Survey information, catch index values for Delta Smelt, Longfin Smelt, and Splittail.
Source: US Fish and Wildlife Service Enhanced Delta Smelt Monitoring



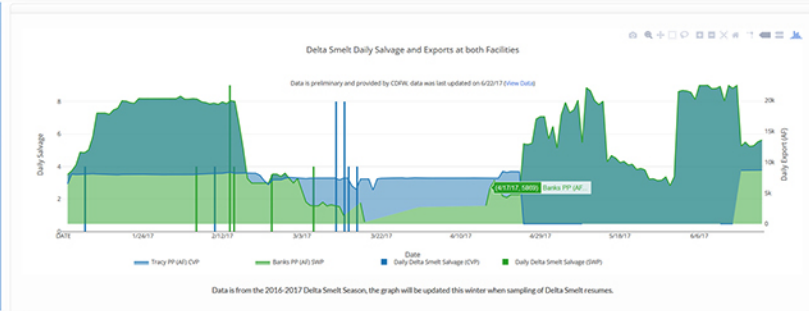
Title: Delta Juvenile Fish Monitoring Program Catch Summary
Duration: 7 Days
Data: Catch data for species of concern
Source: US Fish and Wildlife Service Delta Juvenile Fish Monitoring Program

DATA

Fisheries Management Tools

Delta Smelt Salvage and Export

DATA COMPONENT



DESCRIPTION

Title: Salvage and Exports
Duration: Year to Date
Data: Delta Smelt Salvage and exports at the Banks and Tracy pumping plants
Source: CA Department of Fish and Wildlife and California Data Exchange Center

Customizable

Fisheries Management Tools

Daily Salvage Summary

Daily Summary for 12/24/2017

Clicking on a value will produce a bar graph and daily salvage table for the last 22 days

Export	SWP	CVP
(Anchovy)	4769	6977

Name	SWP	CVP
Striped Bass	24	38
White Catfish	2	90
Channel Catfish	0	6
American Shad	333	339
Threespot Shad	282	252
Spratle	8	0
Black Crappie	4	0
Bowfin	24	338
Longmouth Bass	0	6
Yellowfin Goby	23	90
Inland Silverside	6	98
Western Mosquitofish	0	8

NO Export or Salvage

Please note these results may be preliminary and are thus subject to change.

Note: Click on values above to view graphs and download data from California Department of Fish and Game

Title: Daily Salvage Summary
Duration: Daily
Data: Exports and salvage by species for both the State Water Project and the Central Valley Project
Source: CA Department of Fish and Wildlife

Data Providers and Collaborators

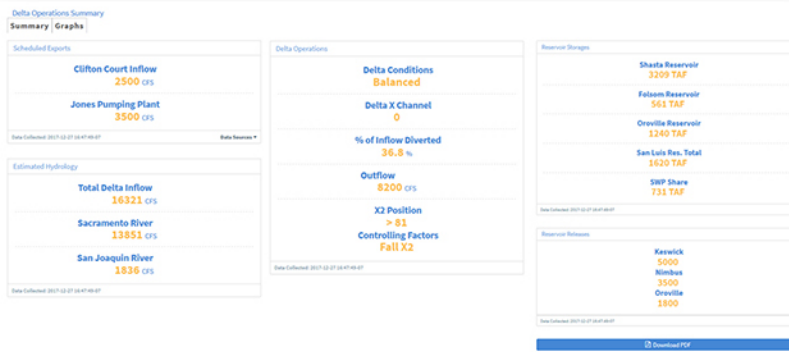


DATA



Delta Operations

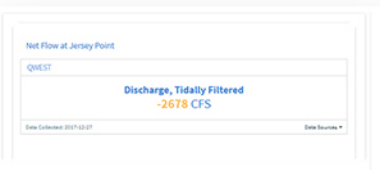
Daily Water Operations Summary



Title: Delta Operations Summary
Duration: Daily
Data: Exports, Hydrology, Operational Conditions, Reservoir Storages and Releases, X2 and Net Delta Outflow Index
Description: These parameters give an overview of conditions in the Delta.
Source: Department of Water Resources and the United States Bureau of Reclamation.



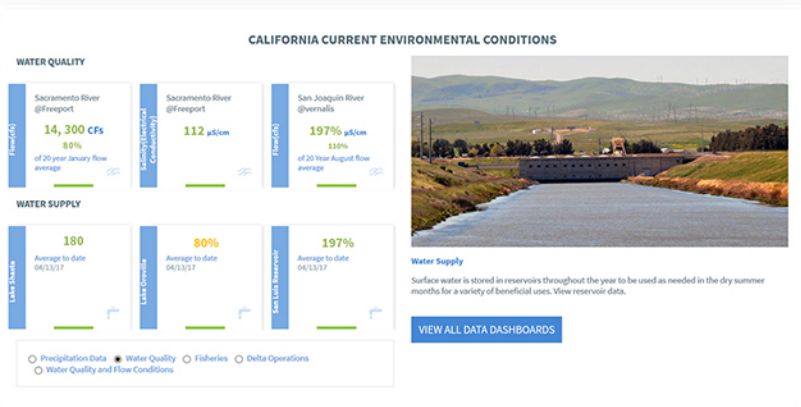
QWEST



Title: QWEST
Duration: Daily
Data: Net Flow at Jersey Point
Description: A broad indication of the net direction and quantity of flow in the San Joaquin River at Jersey Point.
Sources: CA Department of Water Resources



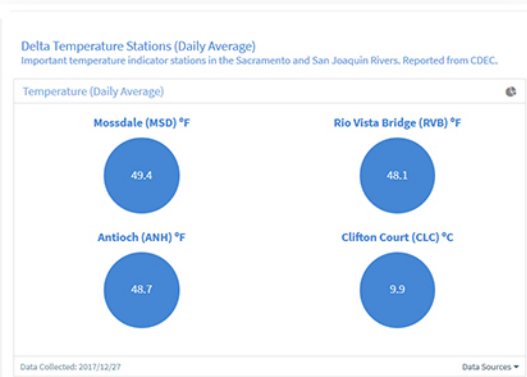
Water Quality and Water Supply Snapshot



Title: Water Quality and Water Supply Summary
Duration: Daily
Data: Flow at Freeport and Vernalis, Electrical Conductivity at Freeport, and Reservoir Storage at Key Reservoirs
Source: CA Department of Water Resources



Temperature Monitoring



Title: Temperature Monitoring Stations
Duration: Current Conditions
Data: Temperature at Mossdale, Rio Vista, Antioch and Clifton Court
Description: Temperature stations used to monitor indications of spawning or migration of listed species.
Source: California Data Exchange Center



Data Providers and Collaborators



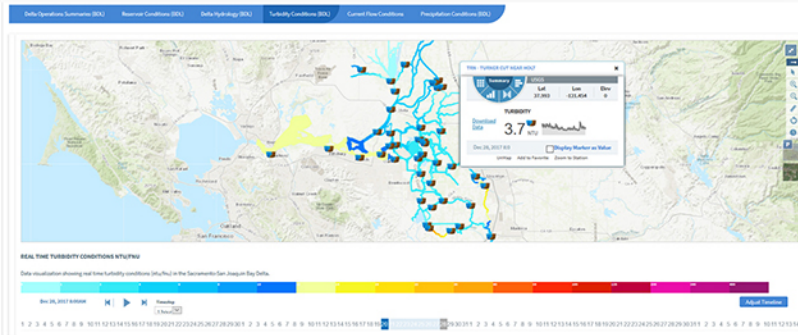
DATA



Water Quality
Monitoring

Real-Time Turbidity Spatial
Data Interpolation

DATA COMPONENT

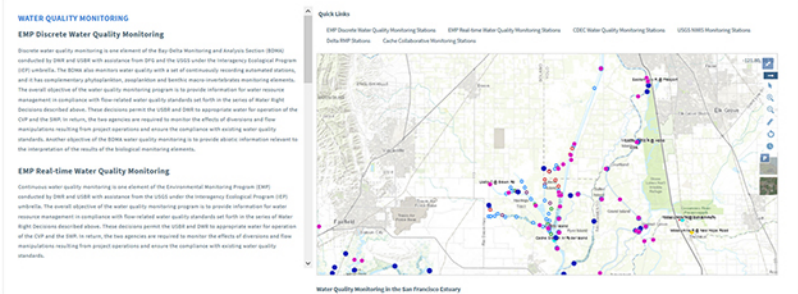


DESCRIPTION

Title: Real-time Turbidity Spatial Data Interpolation
Duration: Last 7 Days
Description: Turbidity model created from real-time values interpolated and transformed to create color gradients of turbidity values throughout the Delta
Source: California Data Exchange Center



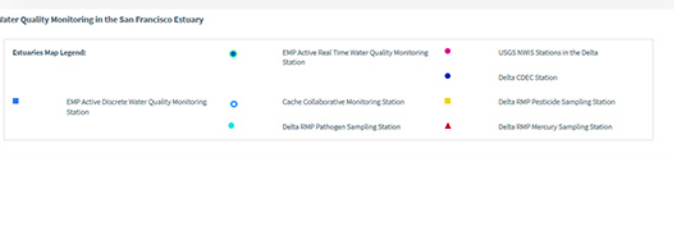
Water Quality
Monitoring Programs



Title: Water Quality Monitoring
Description: Map based visualization displaying water quality monitoring locations by program in the Sacramento-San Joaquin Delta.



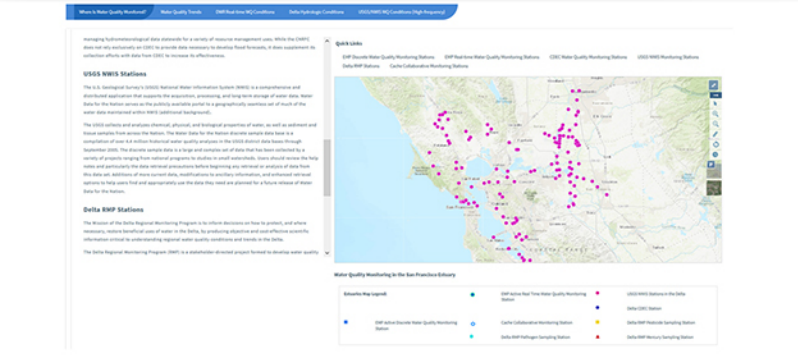
Water Quality
Monitoring Programs



Title: Water Quality Monitoring Legend
Description: Icon legend to accompany Water Quality Monitoring Program map story.



Water Quality
Monitoring Programs



Title: Water Quality Monitoring
Description: Map based visualization displaying water quality monitoring locations by program in the Sacramento-San Joaquin Delta.

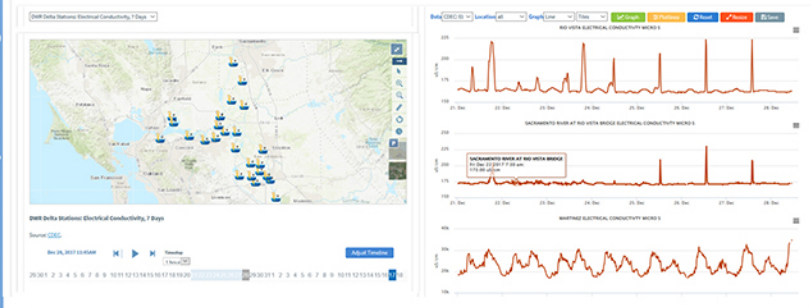
Data Providers and Collaborators



DATA

Water Quality Monitoring

Real-Time Electrical Conductivity Monitoring

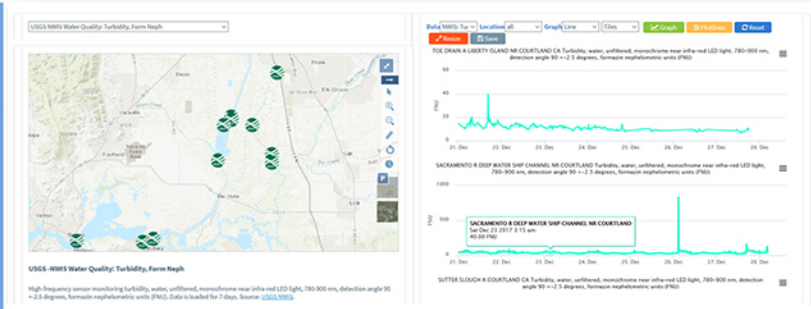


Title: Real-Time Electrical Conductivity Monitoring
Duration: 7 Days
Source: California Data Exchange Center and United States Geological Survey National Water Information System

Customizable

Water Quality Monitoring

NWIS High-Frequency Monitoring

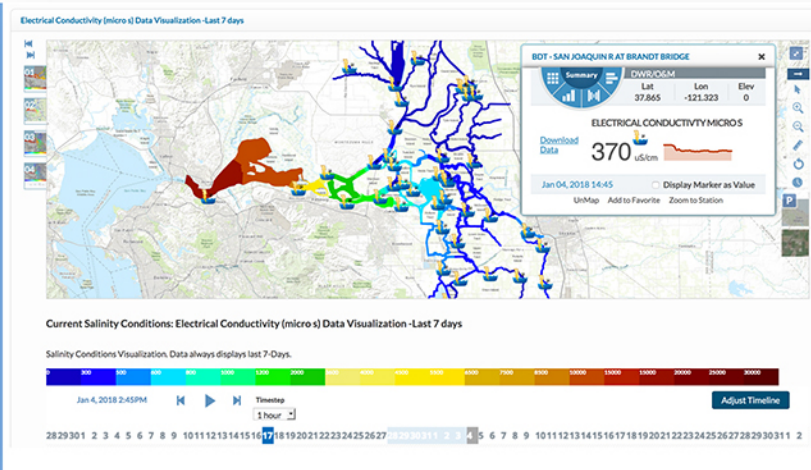


Title: National Water Information System High-Frequency Monitoring
Duration: 7 Days
Data: Chlorophyll, Nitrates, Dissolved Oxygen, pH, Specific Conductance, and CDOM
Source: United States Geological Survey National Water Information System

Customizable

Water Quality Monitoring

Salinity Conditions



Title: Real-Time Salinity Conditions Visualization
Duration: Last 7 Days
Description: Salinity model created from real-time electrical conductivity station data, interpolated and transformed to create color gradients of salinity conditions throughout the Delta.
Source: California Data Exchange Center

Customizable

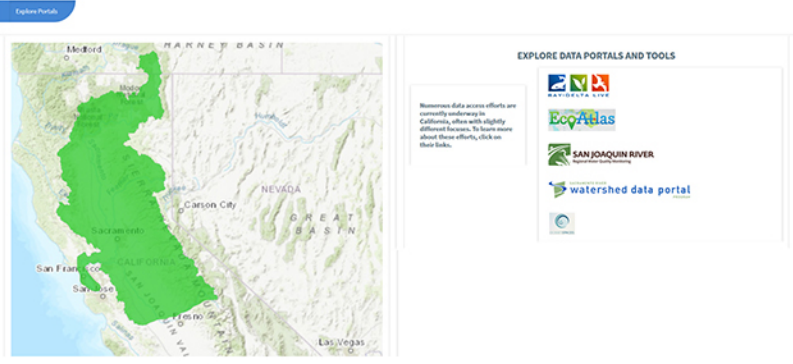
Data Providers and Collaborators



DATA COMPONENT

DESCRIPTION

Regional Data Portal Discovery

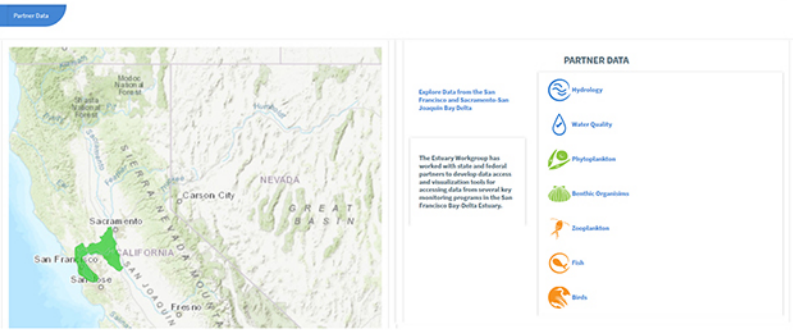


Title: Regional Data Portal Discovery

Description: Interface of California data portals alongside their geographic data coverage.

 Customizable

Monitoring Program Discovery



Title: Monitoring Program Discovery

Description: Interface of California monitoring programs alongside the geographical extent of parameter/species monitoring.

 Customizable

Data Providers and Collaborators



DATA

Custom UI
/Presentation

Topic Highlight Widget

DATA COMPONENT

DESCRIPTION

LEARN THE ISSUES

What are "Total Maximum Daily Loads" (TMDLs) for pollutants and why are they important to the San Francisco Estuary?

In California TMDLs are created for a stream or body of water that has been listed as impaired through section 303(d) of the Clean Water Act. A TMDL must account for all sources of the pollutants that caused the water to be listed. Federal regulations require that the TMDL, at a minimum, account for contributions from point sources (federally permitted discharges) and contributions from nonpoint sources.

[LEARN MORE](#)

How are Estuaries Monitored?

Estuary monitoring occurs at varying spatial and temporal scales and can be grouped by data collection type. Data assessments for large or remote areas typically rely on existing GIS for analysis. The second type of monitoring utilizes rapid assessments or photo surveys. Site specific monitoring, the third and most intensive monitoring type, employs targeted data collection for parameters or species of interest.

[LEARN MORE](#)

What laws, regulations, and policies protect California's Estuaries?

California's estuaries, and the organisms that live in them, are protected by many state and federal laws, regulations, and policies designed to prevent the degradation and destruction of water quality, habitat, living resources, and ecological processes.

[LEARN MORE](#)

Title: Topic highlight
Description: Content Highlight from any regional portal.



Custom GIS Viewer

Custom GIS Viewer

National Estuary Restoration Inventory

☐ Download [Attribute Table](#)

☒ US West Coast Marine Protected Areas Boundaries

☐ Cultural Heritage Areas

☐ National Heritage Areas

☐ Sustainable Production Areas

☐ Download [Attribute Table](#)

☐ TNC Estuary Assessments

☐ Wetlands

☐ Endangered Species

☐ Regional Estuary

☐ Marine Estuary

☐ Sound

☐ Download [Attribute Table](#)

☐ Shoreline Altering

☐ Download [Attribute Table](#)

☐ Delta Waterways

☐ Download [Attribute Table](#)

☐ Key Locations

☐ Download [Attribute Table](#)

1 2 3 4

Map Layers:

Site_ID	Area_Area_To	Date_GIS_U	Shape_Lang	Shape_Area	Site_Name	Site_Label	Gov_Level	State	NIS_Full	Prot_Lat	Wght_Plan	M
CA02	3-05422	6-0728343002	6-0902104020	Marin Islands State Marine Park	Marin Islands SAMP	State	California	Eligible	Uniform Multiple Use	With Programmatic Management Plan		

Title: Custom GIS Viewer
Description: Create a custom GIS layer list from a selection of over 600 map layers to combine with an interactive map and attribute table to view the layer and metadata side by side.



Real Time Station Data

Real Time Station Data

FALSE RIVER (FAL) - EC

Summary **USGS** **Lat** 38.056 **Lon** -121.667 **Elev** 0

ELECTRICAL CONDUCTIVITY MICROS

827 uS/cm

Jan 03, 2018 0:00 ☐ Display Marker as Value

[Download Data](#) [UnMap](#) [Add to Favorite](#) [Zoom to Station](#)

SACRAMENTO RIVER AT RIO VISTA (USGS) - EC

Summary **USGS** **Lat** 38.16 **Lon** -121.686 **Elev** 0

ELECTRICAL CONDUCTIVITY MICROS

173 uS/cm

Jan 03, 2018 0:00 ☐ Display Marker as Value

[Download Data](#) [UnMap](#) [Add to Favorite](#) [Zoom to Station](#)

Title: Real-time Station Data
Description: Choose any CDEC, NWIS, CIMIS, or NOAA sensor. Current value and 3-day time series are reported on your dashboard.



Video and Text Widget

Video and Text Widget

Sacramento Bay Delta Animation

EXPLORE THE SAN FRANCISCO ESTUARY

The San Francisco Estuary is the largest in western North America, encompassing San Francisco Bay and the Delta of the Sacramento and San Joaquin rivers in California. Unlike most estuaries that spread out into a wide delta of braided channels where rivers meet the sea, the San Francisco Estuary's Delta is more than 60 miles inland, trapped behind coastal ridges after rising seas flooded the Bay 30,000 years ago.

[LEARN MORE](#)

Title: Video and Text Widget
Description: Ability to display videos and accompanying text for a topic highlight.




DATA COMPONENT


DESCRIPTION

Asset Lists


RECENT DOCUMENTS



Ecological Implications of hydrodynamic changes San Francisco Estuary.
San Francisco Estuary Institute: Samuel M. Salas, Letitia Grenier, Robin Grossinger



A Model to Estimate Combined Old & Middle River Flows
Paul Hutton, Ph.D., P.E., Metropolitan Water District of Southern California




Modeling Salinity in Suisun Bay and the Western Delta using Artificial Neural Networks
Limin Chen, John S. Rath, and Sujay B. Roy Tetra Tech Inc.


VIEW ALL DOCUMENTS

ADD A DOCUMENT


ENVIRONMENTAL DATASETS



Red Bluff Diversion Dam Juvenile Salmonid Monitoring U.S....
The Red Bluff Fish and Wildlife Office (RBFWO) established a juvenile fish monitoring program using...



EMF/IEP Bay-Delta Monitoring: Discrete Water Quality Datasets
The overall objective of the water quality monitoring program is to provide information for water resource...



Enhanced Delta Smelt Monitoring
U.S. Fish and Wildlife Service

VIEW ALL DATASETS

ADD A DATASET


Title: Catalog List

Description: Custom and embeddable project and document lists for dashboards.




Spotlight


WHAT'S NEW ON BDL




Fisheries
Aggregating more than 40 disparate data sets, these fisheries dashboards support water managers to make real time decisions...



Salinity Management in The Delta
The BDL Salinity Dashboard and Data Story conditions data visualization and...



Water Quality Conditions in the Sacramento-Pablo Bays
This web enabled interactive report summarizes and provides a platform to explore water...



Ecosystem Restoration Projects
Explore more than 200 projects to restore and improve Delta habitat and infrastructure...

VIEW DIRECTORY


Title: Card Widget

Description: Spotlight widget to showcase any project, document, report, asset, program, agency or collaborative effort.




Project Highlight Widget

BROWSE ALL PROJECTS



Yolo Bypass Fish Passage Projects Information Hub
This project page is designed to showcase the number of projects in the Yolo Bypass to east...

LEARN MORE



Lake Oroville Flood Zones and Conditions
This data story overviews current conditions, past conditions and flood zones around...

LEARN MORE

VIEW ALL PROJECTS

Title: Project Highlights

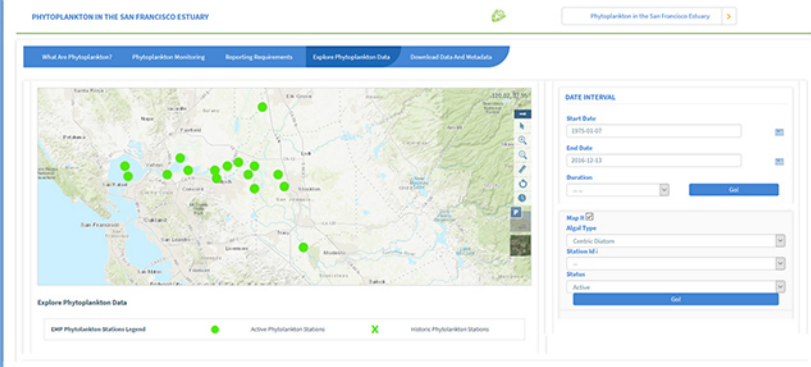
Description: Highlight information of projects, programs, monitoring, or reporting.



DATA COMPONENT

DESCRIPTION

Custom Explore Data



Title: Custom Explore Data Filter
Duration: Defined by data set
Data: California Data Exchange Center, California Irrigation Management Information System, National Water Information System, US Fish and Wildlife Service, and California Environmental Data Exchange Network
Description: User ability to explore a data set and create



Customizable

Explore Data Graphing Panel

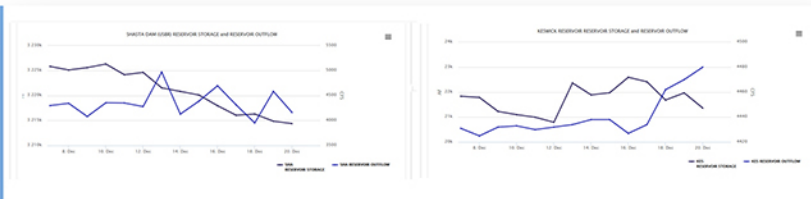


Title: Custom Explore Data Graphs
Duration: Defined by data set
Data: California Data Exchange Center, California Irrigation Management Information System, National Water Information System, US Fish and Wildlife Service, California Environmental Data Exchange Network.
Description: User ability to explore a data set and create graphs.



Customizable

Dual Axis Graphing

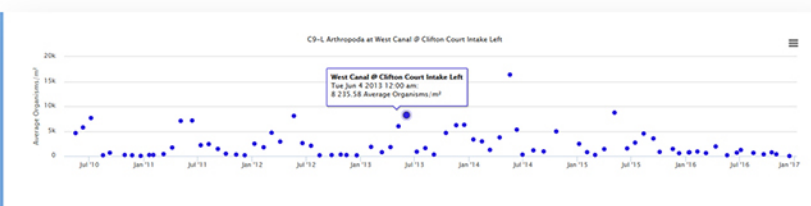


Title: Custom Dual Axis Graphs
Description: Dual Axis graphs created with two parameters to allow for greater comparison.



Customizable

Point Graph



Title: Point Graph
Description: Custom graph type for real-time or discrete data. Multiple points can be added to each graph, each series of points is assigned its own color and automatically added to a legend.



Customizable

Data Providers and Collaborators



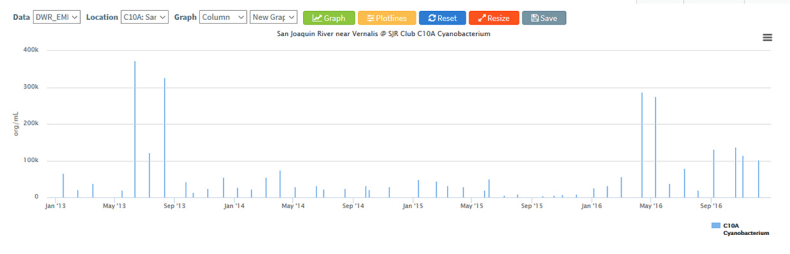
DATA

Custom UI
/Presentation

DATA COMPONENT

DESCRIPTION

Column Graph



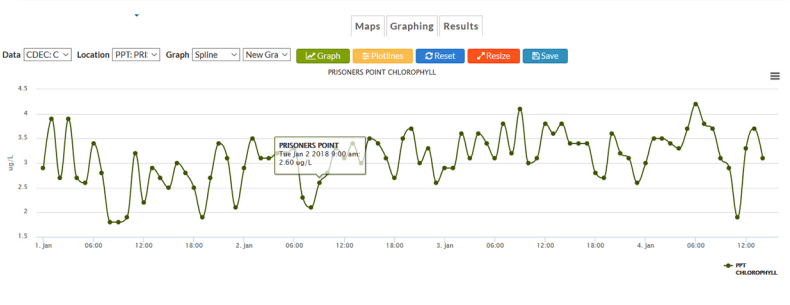
Title: Column Graph

Description: Custom graph type for real-time or discrete data. Multiple columns can be added to each graph, each column is assigned its own color and automatically added to a legend.



Customizable

Spline Graph



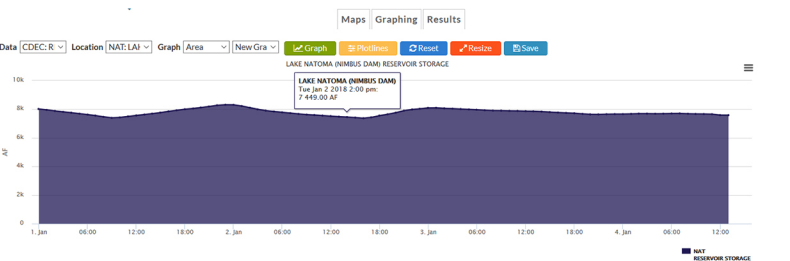
Title: Spline Graph

Description: Custom graph type for real-time or discrete data. Multiple lines can be added to each graph, each line is assigned its own color and automatically added to a legend.



Customizable

Area Graph



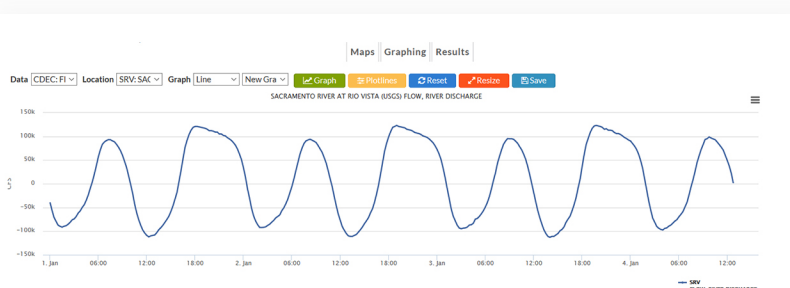
Title: Area Graph

Description: Custom graph type for real-time or discrete data. Multiple areas can be added to each graph, each area is assigned its own color and automatically added to a legend.



Customizable

Line Graph



Title: Line Graph

Description: Custom graph type for real-time or discrete data. Multiple lines can be added to each graph, each line is assigned its own color and automatically added to a legend.



Customizable

Current Conditions

SACRAMENTO RIVER AT FREEPORT
17271 CFS

SAN JOAQUIN RIVER NEAR VERNALIS
1672 CFS

Title: Current Conditions

Description: Display of real-time numerical values and graph toggle for any parameter at multiple stations.



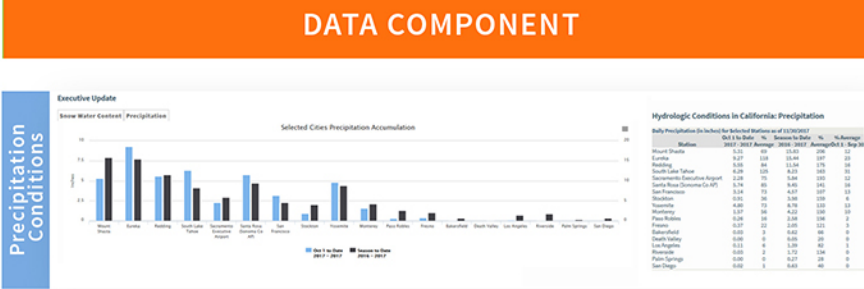
Customizable

Data Providers and Collaborators



DATA

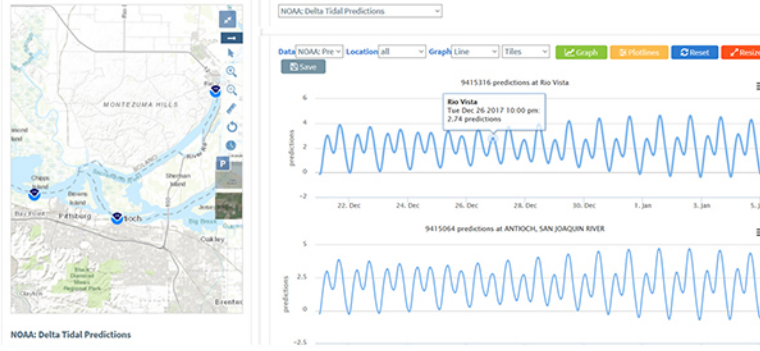
Weather



DATA COMPONENT

DESCRIPTION

NOAA Tide and River Forecast



Title: NOAA River and Tide Forecasting

Duration: Next 14 days

Description: Tide and river forecasting graphs are used by fisheries agencies for timing of sampling events.

Source: National Ocean and Atmospheric Administration (NOAA).
























 Customizable

Data Providers and Collaborators



California Environmental Data Inventory

Regional Data Portal

Data Source	Data Category	Data Description	Data Access					
 Department of Water Resources CALIFORNIA DATA EXCHANGE CENTER		Weather forecasts, river bulletins, full weather data	Public	✓	✓	✓	✓	✓
		Reservoir operations, reservoir summary reports, water quality, hydrodynamic data	Public	✓	✓	✓	✓	✓
		Precipitation, snow water content, reservoir operations, water quality, hydrodynamic data	Public	✓	✓	✓	✓	✓
		Precipitation, reservoir operations	Public	✓	✓	✓	✓	✓
		Precipitation, reservoir operations	Public	✓	✓	✓	✓	✓
		Water quality, reservoir operations, precipitation, hydrodynamic information, snow water content	Public	✓	✓	✓	✓	✓
		Water quality, hydrodynamic information, snow water content	Public	✓	✓	✓	✓	✓
 Delta Juvenile Fish Monitoring Program (DJFMP) Trawl and Seine Data		Web services for long-term Delta Juvenile fish monitoring program catch and environmental data for trawls and seines	Portal Specific*	✓				
		Enhanced Delta Smelt Monitoring (EDSM) Catch Data and Mapping	Portal Specific*	✓				
		USFWS Red Bluff Diversion Dam Data	Portal Specific*	✓	✓	✓	✓	
		Critical Habitat (GIS)	Public	✓	✓			
 USGS science for a changing world		USGS (National Water Information System)	Public	✓	✓	✓	✓	
		National Hydrography Data set (GIS)	Public	✓	✓	✓	✓	
		Special Studies	Portal Specific*	✓				
		Abandoned Mine Lands Initiative	Portal Specific*		✓			
		EMMMA (GIS)	Public	✓	✓	✓	✓	✓
 SWAMP Central Valley Regional Data Center Water Boards CEDEN Southern California Coastal Water Research Project		SWAMP monitoring evaluates the physical, chemical, and biological integrity of the State's waters.	Public	✓	✓	✓	✓	✓
		The Central Valley Regional Data Center collects and manages water and sediment quality data collected throughout the Central Valley	Public	✓	✓	✓	✓	✓
		The California State Water Resources Control Board collects data related to stream pollution trend monitoring, regional board monitoring, nutrient concentration, TMDL enforcement, pesticides monitoring, bioaccumulation monitoring, and special studies	Public	✓	✓	✓	✓	✓
		The U.S. EPA collects data related to stream pollution trend monitoring, nutrient concentration, TMDL enforcement, pesticides monitoring, bioaccumulation monitoring, and special studies	Public	✓	✓	✓	✓	✓
		San Francisco Estuary Institute (SFEI) collects and manages water and sediment quality data collected throughout the San Francisco Bay-Delta and northern montane regions	Public	✓	✓	✓	✓	✓
		Southern California Coastal Water Research Project (SCCWRP) collects and manages water and sediment quality data collected throughout Southern California	Public					
		Moss Landing Marine Labs collects and manages water and sediment quality data collected in Coastal Regions of California	Public					



CALIFORNIA 'REGION SPECIFIC' DATA FEDERATIONS

















OpenNRM

Portal specific data will be made or available to all portals when released by region participating agency

California Environmental Data Inventory

Regional Data Portal

Data Source	Data Category	Data Description	Data Access					
	River Forecast	River stage forecast, flood stage forecast, record high and low flow/stage, current river stage	Protal Specific*	✓	✓	✓	✓	
	Weather Forecast	Air temperature forecast (min and max); hourly temperature forecast; wind speed; wind direction; sky cover; and weather watches, warnings and advisories	Protal Specific*	✓	✓	✓		
	Tides and Currents	Tide predictions and historic tide information	Protal Specific*	✓	✓	✓		
	CIMIS (California Irrigation Management Information System)	Precipitation, air temperature, solar radiation pressure, wind information, dew point	Public	✓	✓	✓	✓	✓
	Water Data Library (WDL)	Historic and current groundwater data, water quality (continuous and discrete)	Protal Specific*					
	Environmental Monitoring Program (EMP)	Water quality data (discrete and continuous), benthic macroinvertebrate monitoring, phytoplankton sampling, chlorophyll a, and hydrological conditions	Public	✓		✓	✓	✓
	California Cooperative Snow Surveys	Snow water equivalent, snow depth, snow water content, long-term monitoring for analysis	Public	✓	✓	✓	✓	✓
	Interagency Ecological Program (IEP)	Water quality conditions, vessel calendar, discrete water quality, fish monitoring, phytoplankton, benthic, zooplankton, aquatic ecology studies, and special studies	Public	✓	✓	✓	✓	✓
	DWR Municipal Water Quality	Water quality, flow, salinity, mean daily pumping, bromide, power generation, turbidity, net Delta outflow, unimpaired runoff, and X2	Public	✓	✓	✓	✓	✓
	Sacramento Watershed Coordinated Monitoring Program	The SWCMP is designed to meet the monitoring needs of the Regional Board's Surface Water Ambient Monitoring Program (SWAMP) and the DWR Northern District's Water Quality and Biology section.	Public	✓	✓	✓	✓	✓
	Central Valley Operations	Reservoir operations, water deliveries, water accounting report, fish reports, OMR index calculation, pumping and exports	Public	✓	✓	✓	✓	✓
	WARMF Model Results	Watershed Analysis Risk Management Framework (WARMF) for predicting salinity (EC) in the San Joaquin River Watershed	Public				✓	
	Salvage at SWP and CVP Pumps	Salvage data from the Skinner Fish Facility and the Tracy Fish Facility	Protal Specific*	✓				
	Trawl Data	Trawl data for 20 MM, Spring Kodiak Trawl (SKT), Fall Midwater Trawl (FMWT), Smelt Larva Survey (SLS), and Summer Townet	Protal Specific*	✓				
	Environmental Monitoring Program (EMP) Zooplankton Data	Long-term zooplankton monitoring data as part of the Environmental Monitoring Program (EMP)	Public	✓		✓	✓	✓
	Rotary Screw Trap Salmonid Monitoring	Catch summaries from CDFW Rotary Screw Traps (RST) at Knights Landing and Tisdale on the Sacramento river	Protal Specific*	✓	✓			
	STORET	Water quality, biological, and physical data	Protal Specific*	✓				
	WQX	Ambient Water Quality Data Exchange Platform	Protal Specific*	✓				
	Regional Data Platform	This Regional Data Platform aggregates data, maps, visualizations, GIS, documents, reports, projects, and images with the focus on the San Francisco-San Joaquin Bay Delta.	Protal Specific*		✓	✓		✓
	Regional Data Platform	The Sacramento River Watershed Data Platform presents stakeholder driven topics through the use of current and historic environmental monitoring data, data dashboards, data and map stories, maps, GIS, written content, reports, and images.	Protal Specific*	✓			✓	✓
	Regional Data Platform	The California Estuaries Portal is one of the My Water Quality Portals and is used to communicate information on California's Estuaries through the use of maps, GIS, questions answered, data stories, reports, and images.	Protal Specific*	✓			✓	✓
	Regional Data Platform	Using model outputs and real-time water quality conditions this platform synthesizes and displays water quality conditions for salinity management.	Protal Specific*	✓	✓	✓		✓
	Regional Data Platform	Monitoring and reporting of water quality conditions and trends in the San Francisco-San Joaquin Bay Delta using biological data, water quality data (discrete and continuous), hydrologic data, reports, images, maps, and visualizations.	Protal Specific*	✓		✓	✓	



CALIFORNIA 'REGION SPECIFIC' DATA FEDERATIONS



OpenNRM

Portal specific data will be made or available to all portals when released by region participating agency

California GIS Inventory

Layer Name	Organization	Layer Description
Air Districts	California Air Resources Control Board	California air districts as defined in federal law and regulation
Important Bird Areas	Audubon California	The objective of this project was to digitally map the boundaries of Audubon California's Important Bird Areas (IBA)
Bureau of Land Management Special Management Areas	Bureau of Land Management	Designated focus areas delineated by Bureau of Land Management's Redding Field Office's Resource Management Plan (RMP)
Federal Wilderness Areas	Bureau of Land Management	Federally designated wilderness areas within the Sacramento River Watershed
Contaminant Effects on Fish Prey (Weston, Young, Poynton)	Cache Collaborative	Sampling locations for the Cache Collaborative Special Study: Contaminant Effects on Fish Prey
Dynamics of Zooplankton in the Cache Slough Complex Study Sampling Locations	Cache Collaborative	Sampling locations for the Cache Collaborative Special Study: Dynamics of Zooplankton in the Cache Slough Complex
Liberty Island Larval Trawl Locations (Smith and Simenstad)	Cache Collaborative	Fixed sampling locations for the Cache Collaborative special study sampling for larval fish in Liberty Island
Liberty Island Random Seine Locations (Smith and Simenstad)	Cache Collaborative	Randomly generated sampling locations for the Cache Collaborative special study sampling for larval fish in Liberty Island
Delta Marsh Transmission Lines	CALFED	The Transmission Lines map layer shows all transmission lines listed at 100kV and above
Fire and Resource Assessment Program Web Map Services	CALFIRE	The California Department of Forestry and Fire Protection's Fire and Resource Assessment Program (FRAP) assesses the amount and extent of California's forests and rangelands, analyzes their conditions and identifies alternative management and policy guidelines
CALFIRE Admin Units	CALFIRE	Administrative units of CALFIRE
Resource Conservation Districts	California Association of Resource Conservation Districts	Resource conservation district outlines
Natural Resource Project Inventory	California Biodiversity Council and the University of California Davis	Natural Resource Project Inventory (NRPI), is an expansion of previous inventories including 1) the Watershed Projects Inventory (WPI), 2) the California Ecological Restoration Projects Inventory (CERPI), and 3) the California Noxious Weed Control Projects Inventory
Farmland Mapping and Monitoring Program	California Department of Conservation	The Farmland Mapping and Monitoring Program (FMMP) produces maps and statistical data used for analyzing impacts on California's agricultural resources
Oil and Gas Wells	California Department of Conservation, Division of Oil, Gas, and Geothermal Resources	Oil & gas wells within northern California
California Department of Fish and Wildlife Regions	California Department of Fish and Wildlife	This layer represents the California Department of Fish and Wildlife (CDFW) region boundaries
California Habitat Restoration Project Database	California Department of Fish and Wildlife	The California Habitat Restoration Project Database (CHRPD) was created in 1999 to capture and maintain data about habitat restoration projects in California benefiting anadromous fish
Delta Vegetation	California Department of Fish and Wildlife	The vegetation classification and mapping of the Legal Delta portion of the Sacramento-San Joaquin River Delta conducted in 2005-2006 for use in conjunction with the Delta Regional Ecosystem Restoration Implementation Plan
Fish Hatcheries	California Department of Fish and Wildlife and U.S. Fish and Wildlife	This dataset depicts fish hatcheries in California operated by California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service
Bay Study Open Water Boat Stations	California Department of Fish and Wildlife	This layer represents the locations of open water survey samples taken monthly as part of the San Francisco Bay Study
Bay Study Seine Stations	California Department of Fish and Wildlife	This layer represents the locations of beach seine survey samples taken monthly as part of the San Francisco Bay Study
Environmental Monitoring Program Active Zooplankton Monitoring Stations	California Department of Fish and Wildlife	This layer represents the active real time water quality monitoring stations that are part of the Environmental Monitoring Program
Environmental Monitoring Program Zooplankton Monitoring Stations	California Department of Fish and Wildlife	This layer represents the locations of historic and active Zooplankton monitoring stations of the Environmental Monitoring Program
Fall Midwater Trawl (CDFW)	California Department of Fish and Wildlife	California Department of Fish and Wildlife Fall Midwater Trawl monitoring locations
Protected Spawning Areas	California Department of Fish and Wildlife	Delineation of Protected fish spawning areas as designated by the California Department of Fish and Wildlife
Smelt Larva Survey (CDFW)	California Department of Fish and Wildlife	Smelt Larval Survey sampling locations in the Delta
Spawning Areas	California Department of Fish and Wildlife	Spawning areas as designated by the California Department of Fish and Wildlife
Spring Kodiak Trawl (CDFW)	California Department of Fish and Wildlife	Spring Kodiak Trawl sampling locations
Summer Tow Net Survey	California Department of Fish and Wildlife	Sampling locations of the Summer Townt Survey
California Counties	California Department of Forestry and Fire Protection Fire and Resource Assessment Program	This County layer was created from a Department of Conservation (DOC) survey of state and federal agencies about the county boundary coverage they used
California Cities as of 2015	California Department of Transportation	This map outlines the city boundaries in California as of 2015
California Subsidence and Groundwater Levels Web Map Service	California Department of Water Resources	The purpose of this map is to summarize recent and historical subsidence and estimate the potential for future subsidence

California GIS Inventory

Layer Name	Organization	Layer Description
Dams Jurisdiction	California Department of Water Resources	Jurisdictional dams in the State of California
Sacramento County Land Use 2015	California Department of Water Resources	Land use boundaries were digitized and land use data were gathered by staff of DWR's North Central Region using extensive field visits and aerial photography
Solano County Land Use 2003	California Department of Water Resources	The 2003 Solano County land use survey data set was developed by DWR through its Division of Planning and Local Assistance which, following reorganization in 2009, is now called Division of Statewide Integrated Water Management (DSIWM)
X2 Locations	California Department of Water Resources	Key locations of X2 for reference
Yolo County Land Use 2008	California Department of Water Resources	The 2008 Yolo County land use survey data set was developed by DWR through its Division of Planning and Local Assistance which, following reorganization in 2009, has been subdivided into the Division of Statewide Integrated Water Management (DSIWM) and the Division of Integrated Regional Water Management (DIRWM)
Agriculture Drain Returns	California Department of Water Resources	Map of agriculture drain returns in the Delta
Environmental Monitoring Program Combined Active Monitoring Stations	California Department of Water Resources and California Department of Fish and Wildlife	This layer represents the locations of all active monitoring stations for all programs that are a part of the Environmental Monitoring Program
Environmental Monitoring Program Combined Monitoring Stations	California Department of Water Resources and California Department of Fish and Wildlife	This layer represents the locations of all monitoring stations for all programs that are a part of the Environmental Monitoring Program
California Data Exchange Center Stations in the Delta	California Department of Water Resources	California Data Exchange Center stations in the Delta, specifically stations from the Delta, East Bay, Sacramento River, and San Francisco Bay basins
Environmental Monitoring Program Active Benthic Monitoring Stations	California Department of Water Resources	This layer represents the locations of active benthic monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Active Discrete Water Quality Monitoring Stations	California Department of Water Resources	This layer represents the locations of active discrete water quality monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Active Phytoplankton Monitoring Stations	California Department of Water Resources	This layer represents the locations of active phytoplankton monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Active Real Time Water Quality Monitoring Locations	California Department of Water Resources	This layer represents the active real time water quality monitoring stations that are part of the Environmental Monitoring Program
Environmental Monitoring Program Benthic Monitoring Stations	California Department of Water Resources	This layer represents the locations of historic and active benthic monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Discrete Water Quality Monitoring Stations	California Department of Water Resources	This layer represents the locations of historic and active discrete water quality monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Historic Real Time Water Quality Monitoring Stations	California Department of Water Resources	Environmental Monitoring Program continuous water quality monitoring locations
Environmental Monitoring Program Phytoplankton Monitoring Stations	California Department of Water Resources	This layer represents the locations of historic and active phytoplankton monitoring stations of the Environmental Monitoring Program
Environmental Monitoring Program Real Time Water Quality Monitoring Locations	California Department of Water Resources	This layer represents the real time water quality monitoring stations that are part of the Environmental Monitoring Program
Environmental Monitoring Program Stations by Data Type and Historic vs Active	California Department of Water Resources	This layer represents the locations of all monitoring stations for all programs that are a part of the Environmental Monitoring Program
Environmental Monitoring Program Stations by Historic vs Active	California Department of Water Resources	This layer represents the locations of all monitoring stations for all programs that are a part of the Environmental Monitoring Program
Sacramento River Basin Integrated Regional Water Management Programs (polygon)	California Department of Water Resources	This layer displays the eight Integrated Regional Water Management Programs within the Sacramento River Watershed
Sacramento River Surface Geology	California Department of Water Resources	Surface Geology as mapped by Helley and Harwood (1985) and modified by DWR-Northern District for River Bank Erosions Investigation (1994) conducted by Koll Buer
Sacramento River Basin Integrated Regional Water Management Programs (points)	California Department of Water Resources	This layer represents the general center point of the IRWM's within the Sacramento River Watershed
State Water Project Canals (line)	California Department of Water Resources	This layer displays the canals and aqueducts that are a part of the State Water Project
State Water Project Reservoirs (polygon)	California Department of Water Resources	This layer displays the locations of reservoirs in California that are part of the State Water Project
State Water Project Reservoirs (point)	California Department of Water Resources	This layer displays the locations of reservoirs in California that are part of the State Water Project
1945 Vegetation	California Environmental Resources Evaluation System	Digital version of the 1945 California Vegetation Type Maps by A. E. Wieslander of the U.S. Forest Service
2020 Projected Urban Growth	California Natural Resources Agency	California projected urban growth for the year 2020
2050 Projected Urban Growth	California Natural Resources Agency	California projected urban growth for the year 2050
U.S. Department of Agriculture Ecozones	California Natural Resources Agency	The 'USDAECO' coverage is a digital map and database of California-wide ecological units based on the interagency national mapping project known as ECOMAP
Western States Reservoirs	California Natural Resources Agency	This layer displays reservoirs - an artificially impounded body of water (lake, tank) - in the states of Arizona, California, Nevada, and Oregon
Land Use - American Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the American Subregion of the Sacramento River Watershed Program.
Land Use - Eastside Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the Eastside Subregion of the Sacramento River Watershed Program.

California GIS Inventory

Layer Name	Organization	Layer Description
Land Use – Feather Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the Feather Subregion of the Sacramento River Watershed Program.
Land Use - Northeast Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the Northeast Subregion of the Sacramento River Watershed Program.
Land Use - Sacramento Valley Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the Sacramento Valley Subregion of the Sacramento River Watershed Program.
Land Use - Westside Subregion	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset. This layer has been modified and clipped to the Westside Subregion of the Sacramento River Watershed Program.
Sacramento River Watershed Land Use	California Natural Resources Agency and University of California Davis	All county general plans and many city general plans were integrated into 1 statewide Geographic Information System (GIS) dataset
Toxic Substances Monitoring - Lipids	California Natural Resources Agency, Legacy Project	The Toxic Substance Monitoring Program was organized to provide a uniform statewide approach to the detection and evaluation of the occurrence of toxic substances in fresh, estuarine, and marine waters of the State through the analysis of fish and other aquatic life
Toxic Substances Monitoring - Metals	California Natural Resources Agency, Legacy Project	The Toxic Substance Monitoring Program was organized to provide a uniform statewide approach to the detection and evaluation of the occurrence of toxic substances in fresh, estuarine, and marine waters of the State through the analysis of fish and other aquatic life
Toxic Substances Monitoring - Organics	California Natural Resources Agency, Legacy Project	The Toxic Substance Monitoring Program was organized to provide a uniform statewide approach to the detection and evaluation of the occurrence of toxic substances in fresh, estuarine, and marine waters of the State through the analysis of fish and other aquatic life
2010 303(d) Listed Water Bodies for Pathogen Pollution	California State Water Resources Control Board	Section 303(d) of the Clean Water Act requires the identification of waterbodies that do not meet, or are not expected to meet, water quality standards (i.e., impaired waterbodies), this layer has been modified to only include water bodies listed for Pathogen pollution
2010 303(d) Listed Impaired Water Bodies Web Map Service	California State Water Resources Control Board	Under Section 303(d) of the Clean Water Act, states, territories and authorized tribes are required to develop a list of water quality limited segments
California State Water Resources Control Board Points of Diversion Web Map Service	California State Water Resources Control Board	Points of Diversion (PODs) are locations where water is being drawn from a water source such as a stream or river
California State Water Resources Control Board Web Map Service	California State Water Resources Control Board	Web services for layers provided by the California State Water Resources Control Board
Fully Appropriated Streams	California State Water Resources Control Board	Water Code Sections 1205-1207 authorize the State Water Resources Control Board (SWRCB) to adopt a declaration designating stream systems that have been determined to be fully appropriated either year-round or during specified periods
The Integrated Regional Water Management (IRWM) Grant Projects	California State Water Resources Control Board	The Integrated Regional Water Management (IRWM) Grant Program's intent is to promote and practice integrated regional water management to ensure sustainable water uses, reliable water supplies, better water quality, environmental stewardship, efficient urban development, protection of agriculture, and a strong economy
Nitrate Impacted Wells Web Map Services	California State Water Resources Control Board	Web Services to map Nitrate Impacted Wells
Regional Water Quality Control Board Boundaries	California State Water Resources Control Board	Boundaries of each Regional Water Quality Control Board area
Surface Water Ambient Monitoring Program Sportfish Contamination in Lakes and Reservoirs (2007-2008)	California State Water Resources Control Board	This dataset describes the highest average methylmercury concentration among fish species' tissue sampled in each lake for the 2007-2008 Sportfish Contamination in Lakes and Reservoirs study
Delta Regional Monitoring Program Sampling Sites	California State Water Resources Control Board	The Delta Regional Monitoring Program (RMP) is a stakeholder-directed project formed to develop water quality data necessary for improving our understanding of Delta water quality issues.
Mercury Impaired Reservoirs - Statewide Mercury Control Program (Phase 1)	California State Water Resources Control Board	This layer displays the mercury-impaired reservoirs to be included in Phase 1 of implementation of the California Water Board's Statewide Mercury Control Program for reservoirs
DJFMP Monitoring Locations	Delta Juvenile Fish Monitoring Program U.S. Fish and Wildlife Service	Key monitoring locations for the U.S. Fish and Wildlife Services Delta Juvenile Fish Monitoring Program
Integrated Regional Water Management Planning Regions	Department of Water Resources	Integrated Regional Water Management (IRWM) is a collaborative effort to identify and implement water management solutions on a regional scale that increase regional self-reliance, reduce conflict, and manage water to concurrently achieve social, environmental, and economic objectives
ESRI World Dark Gray Base Map	ESRI	ESRI world dark grey basemap

California GIS Inventory

Layer Name	Organization	Layer Description
Federal Emergency Management Agency Hazard Mitigation Planning Portal Web Map Services	Federal Emergency Management Agency	The Mitigation Planning Portal (MPP) is an online portal for tracking and reporting the status of mitigation plans across all 10 Federal Emergency Management Agency (FEMA) Regions
Federal Emergency Management Agency National Flood Hazard Layers	Federal Emergency Management Agency	Federal Emergency Management Agency (FEMA) provides access to the National Flood Hazard Layer through web mapping services. The National Flood Hazard Layer is a computer database that contains FEMA's flood hazard map data
Glenn-Colusa Irrigation District Rotary Screw Trap	Glenn-Colusa Irrigation District	Location of the Glenn-Colusa Irrigation District Rotary Screw Trap
California Protected Areas Database	GreenInfo Network	The California Protected Areas Database (CPAD) contains data on lands owned in fee by governments, non-profits and some private entities that are protected for open space purposes
Native American Reservation Lands	GreenInfo Network	Delineation of Native American reservation land in California
California Central Coast Steelhead Distribution	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts Steelhead presence as well as habitat type and quality in the Central California Coast Evolutionary Significant Unit (ESU)
Chinook Critical Habitat Central Valley Spring-run Evolutionary Significant Unit (ESU)	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts areas designated for Chinook Critical Habitat as well as habitat type and quality in the Central Valley Spring-run Evolutionary Significant Unit (ESU)
Chinook Distribution in the Central Valley Spring-run Evolutionary Significant Unit (ESU).	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts Chinook presence as well as habitat type and quality in the Central Valley Spring-run Evolutionary Significant Unit (ESU)
Chinook Presence, Habitat Type and Quality in the California Coastal Evolutionary Significant Unit (ESU)	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts Chinook presence as well as habitat type and quality in the California Coastal Evolutionary Significant Unit (ESU)
Steelhead Critical Habitat in the South-central California Coast Evolutionary Significant Unit (ESU)	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts areas designated for Steelhead Critical Habitat as well as habitat type and quality in the South-central California Coast Evolutionary Significant Unit (ESU)
Steelhead Distribution in the California Central Valley Evolutionary Significant Unit (ESU)	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts steelhead presence as well as habitat type and quality in the California Central Valley Evolutionary Significant Unit (ESU)
Central California Coast Steelhead Critical Habitat in the Evolutionary Significant Unit (ESU)	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts areas designated for Steelhead Critical Habitat as well as habitat type and quality in the Central California Coast Evolutionary Significant Unit (ESU)
California Coast Chinook Habitat	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts areas designated for Chinook Critical Habitat as well as habitat type and quality in the California Coastal Evolutionary Significant Unit (ESU)
California Central Valley Steelhead Habitat	National Marine Fisheries Service (NMFS) National Oceanic and Atmospheric Administration (NOAA)	Depicts areas designated for Steelhead Critical Habitat as well as habitat type and quality in the California Central Valley Evolutionary Significant Unit (ESU)
Nexrad	National Oceanic and Atmospheric Administration (NOAA)	The Next Generation Weather Radar web services
California Nevada River Forecast Center, National Oceanic and Atmospheric Administration	National Oceanic and Atmospheric Administration (NOAA)	Hydrologic weather data and river forecasts for California and Nevada
Hourly Precipitation Map Service	National Oceanic and Atmospheric Administration (NOAA)	Hourly Precipitation Data (HPD) is digital data set DSI-3240, archived at the National Climatic Data Center (NCDC)
NWS 6 to 10 Day Precipitation and Temperature Outlooks	National Oceanic and Atmospheric Administration (NOAA)	A CPC forecaster creates the 6-10 day temperature and precipitation outlooks. Shading starts at 33%, with contours at 33%, 40%, 50%, 60%, 70%, 80% and 90%
SRW National Parks	National Parks Service	National Parks wholly or partially within the Sacramento River Watershed
NWS Watches and Warnings Web Service	National Weather Service	National Weather Service Watches and Warnings web services
OEHHA Fish Advisories	Office of Environmental Health Hazard Assessment	Map of Fish Advisories as outlined by Office of Environmental Health Hazard Assessment (OEHHA)
CalFish Abundance Lines	Pacific States Marine Fisheries Commission	The CalFish Abundance Database contains a comprehensive collection of anadromous fisheries abundance information
CalFish Abundance Points	Pacific States Marine Fisheries Commission	The CalFish Abundance Database contains a comprehensive collection of anadromous fisheries abundance information

California GIS Inventory

Layer Name	Organization	Layer Description
Fish Passage Barriers Dataset	Pacific States Marine Fisheries Commission and California Department of Fish and Wildlife	The Passage Assessment Database (PAD) compiles currently available fish passage information from many different sources, and allows past and future barrier assessments to be standardized and stored in one place
1908 Sacramento River Channel	Sacramento River Watershed Program	Sacramento River channel location for the year 1908 based on aerial photography
1923 Sacramento River Channel	Sacramento River Watershed Program	Historic Sacramento River channel from the year 1923
1935 Sacramento River Channel	Sacramento River Watershed Program	Historic Sacramento River channel from the year 1935
1937 Sacramento River Channel	Sacramento River Watershed Program	Historic Sacramento River channel from the year 1937
1946 Historic Sacramento River Channel	Sacramento River Watershed Program	1946 Historic Sacramento River Channel
1955 Historic Sacramento River Channel	Sacramento River Watershed Program	1955 Historic Sacramento River Channel
1956 Historic Sacramento River Channel	Sacramento River Watershed Program	1956 Historic Sacramento River Channel
1960 Historic Sacramento River Channel	Sacramento River Watershed Program	1960 Historic Sacramento River Channel
1964 Historic Sacramento River Channels	Sacramento River Watershed Program	1964 Historic Sacramento River Channel
1969 Historic Sacramento River Channel	Sacramento River Watershed Program	1969 Historic Sacramento River Channel
1976 Historic Sacramento River Channel	Sacramento River Watershed Program	1976 Historic Sacramento River Channel
1981 Historic Sacramento River Channel	Sacramento River Watershed Program	1981 Historic Sacramento River Channel
1991 Historic Sacramento River Channel	Sacramento River Watershed Program	1991 Historic Sacramento River Channel
1997 Historic Sacramento River Channel	Sacramento River Watershed Program	1997 Historic Sacramento River Channel
2007 Historic Sacramento River Channel	Sacramento River Watershed Program	2007 Historic Sacramento River Channel
Partners Map	Sacramento River Watershed Program	Sacramento River Watershed Partners Map
Sacramento River Watershed Subregions (point)	Sacramento River Watershed Program	Sacramento River Watershed Subregions (point)
Sacramento River Watershed Boundary with 10 mi Buffer	Sacramento River Watershed Program	Boundary of the Sacramento River Watershed with a 10 mi Buffer
EcoAtlas	San Francisco Estuary Institute	California EcoAtlas provides access to information for effective wetland management
San Francisco Estuary Institute Web Feature Service	San Francisco Estuary Institute	WFS Map Services Provided by San Francisco Estuary Institute
Butte Forest Doe Mill Ridge Forks of Butte Units	Sierra Nevada Conservancy and Sacramento River Watershed Program	The Butte Forest Thin Doe Mill Ridge Watershed Project will use forest thinning and follow-up low intensity prescribed fire to treat 200 acres on public land administered by the Bureau of Land Management (BLM)
Butte Forest Doe Mill Ridge Roadside Thin Areas	Sierra Nevada Conservancy and Sacramento River Watershed Program	The Butte Forest Thin Doe Mill Ridge Watershed Project will use forest thinning and follow-up low intensity prescribed fire to treat 200 acres on public land administered by the Bureau of Land Management (BLM)
Sierra Nevada Conservancy Prop 84 Grant Awards	Sierra Nevada Conservancy	Map of Sierra Nevada Conservancy Prop 84 Grant Programs with circles sized by Award Amount
Sierra Nevada Conservancy Propositions 84 and 1 Grants	Sierra Nevada Conservancy	This map shows the location of Sierra Nevada Conservancy (SNC) grants awarded through June 2016 by the SNC Board, which represent the total \$54 million in grant awards by the SNC under Proposition 84, and the funding awarded through Proposition 1 through June 2016
Sierra Nevada Conservancy Boundary	Sierra Nevada Conservancy	Boundary of the Sierra Nevada Conservancy
Sierra Nevada Conservancy Subregions	Sierra Nevada Conservancy	Delineation of Subregions within the Sierra Nevada Conservancy Region
Sierra Nevada Conservancy Prop 1 Grant Awards	Sierra Nevada Conservancy	Prop 1 funded project locations through the Sierra Nevada Conservancy grant program
Sierra Nevada Conservancy Prop 1 and Prop 84 Grant Awards	Sierra Nevada Conservancy	Prop 1 and Prop 84 funded project locations through the Sierra Nevada Conservancy grant program

California GIS Inventory

Layer Name	Organization	Layer Description
NRCS Soil Types	Soil Survey Staff, Natural Resources Conservation Service	NRCS soil types and information produced by the National Cooperative Soil Survey
Sudden Oak Death Lab Confirmed Infected	Sudden Oak Death Lab, UC Berkeley	The SODMAP Project is a partnership of scientists and citizens, working together to create the most complete distribution map of a forest disease ever produced in North America
Sudden Oak Death Lab Confirmed Uninfected	Sudden Oak Death Lab, UC Berkeley	The SODMAP Project is a partnership of scientists and citizens, working together to create the most complete distribution map of a forest disease ever produced in North America
Central Valley Winter-Run Chinook Historic Range	U.C. Davis	Historic Range of Central Valley Winter-run Chinook Salmon in California
Natural Resources Project Inventory	U.C. Davis	The Natural Resource Projects Inventory (NRPI) synthesizes project related data on natural resources
Arc Study Monitoring Locations	U.C. Davis	U.C. Davis Extending the Arc monitoring locations
Arc Study Boundary	U.C. Davis	Study Boundary of the U.C. Davis Extending the Arc monitoring
Suisun Marsh Study Monitoring Locations	U.C. Davis	Sampling locations for the Suisun Marsh Fish monitoring program
Sierra Nevada Meadows	U.C. Davis	Survey of meadows in the northern Sierra Nevada
2016 US Forest Service Aerial Survey of Tree Mortality	U.S. Forest Service	Tree mortality from prolonged drought and bark beetles increased more than eight fold in California forests in 2015 and continues to increase
Fire Activity Web Map Service	U.S. Forest Service	This is a map of US wildfire locations (active/recent) and other sources of information related to wildfires, including social media
Insect and Disease Risk Web Map Service	U.S. Forest Service	The goal of NIDRM is to summarize landscape-level patterns of potential insect and disease activity, consistent with the philosophy that science-based, transparent methods should be used to allocate pest-management resources across geographic regions and individual pest distributions
1896 Sacramento River Channel	U.S. Army Corps of Engineers	The Sacramento River channel in 1896 as mapped from the U.S. Army Corps of Engineers mapping program
State and Federal Water Projects Canals	U.S. Bureau of Reclamation and California Department of Water Resources	This layer displays the State and Federal Water Project canals
State-Federal Water Project Reservoirs (polygon)	U.S. Bureau of Reclamation and California Department of Water Resources	This layer displays the locations of reservoirs that serve both the State Water Project and Central Valley Project in California
State and Federal Reservoirs (point)	U.S. Bureau of Reclamation and California Department of Water Resources	This layer displays the locations of reservoirs that serve both the State Water Project and Central Valley Project in California
Central Valley Project Canals	U.S. Bureau of Reclamation	This layer represents the canals and aqueducts that are part of the Central Valley Water Project, operated by the US Bureau of Reclamation
Central Valley Project Reservoirs	U.S. Bureau of Reclamation	This dataset displays the locations of reservoirs in California that are part of the Central Valley Project, operated by the US Bureau of Reclamation
Central Valley Project Reservoirs (point)	U.S. Bureau of Reclamation	This layer represents the locations of reservoirs that are part of the State Water Project and the reservoir points are sized relative to their storage capacity
CA, OR, NV Hydroelectric Power Plants	U.S. Energy Information Administration	This is a point dataset representing operable hydroelectric generating plants in the United States by energy source
California Hydroelectric Power Plants	U.S. Energy Information Administration	This is a point dataset representing operable hydroelectric generating plants in the United States by energy source
Superfund Mines	U.S. Environmental Protection Agency	Location of Superfund Mines in the Sacramento River Watershed
Final Critical Habitat for Deltistes luxatus (Lost Riversucker)	U.S. Fish & Wildlife Service, Klamath Falls Fish and Wildlife Office	These data identify, in general, the areas of final critical habitat for Deltistes luxatus (Lost Riversucker)
Final Critical Habitat for Modoc sucker (Catostomus microps) OR Catostomus microps (Modoc sucker)	U.S. Fish & Wildlife Service, Klamath Falls Fish and Wildlife Office	These data identify, in general, the areas of final critical habitat for Modoc sucker (Catostomus microps) or Catostomus microps (Modoc sucker)
Final Critical Habitat for delta green ground beetle (Elaphrus viridis) OR Elaphrus viridis (delta green ground beetle)	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of Final critical habitat for Elaphrus viridis (delta green ground beetle)
Final Critical Habitat for vernal pool fairy shrimp (Branchinecta lynchii) OR Branchinecta lynchii (vernal pool fairy shrimp)	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of final critical habitat for vernal pool fairy shrimp (Branchinecta lynchii) or Branchinecta lynchii (vernal pool fairy shrimp)
Final Critical Habitat for vernal pool tadpole shrimp (Lepidurus packardii) OR Lepidurus packardii (vernal pool tadpole shrimp)	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of Final critical habitat for Lepidurus packardii (vernal pool tadpole shrimp)
Final Critical Habitat for California red-legged frog (Rana draytonii) OR Rana draytonii (California red-legged frog)	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of final critical habitat for Rana draytonii (California red-legged frog)

California GIS Inventory

Layer Name	Organization	Layer Description
Final Critical Habitat for Conservancy fairy shrimp (Branchinecta conservation) OR Branchinecta conservation (Conservancy fairy shrimp)	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of final critical habitat for Conservancy fairy shrimp (Branchinecta conservation) OR Branchinecta conservation (Conservancy fairy shrimp)
Yosemite Toad Critical Habitat	U.S. Fish & Wildlife Service, Sacramento Fish and Wildlife Office	These data identify, in general, the areas of PROPOSED critical habitat for Anaxyrus canorus (Yosemite toad)
Delta Smelt Critical Habitat	U.S. Fish and Wildlife Service	These data identify, in general, the areas of Final critical habitat for Hypomesus transpacificus (delta smelt)
U.S. Fish and Wildlife Service Wetlands Web Service	U.S. Fish and Wildlife Service	The Wetlands mapper is designed to deliver easy-to-use, map like views of America's Wetland resources
U.S. Fish and Wildlife Service Red Bluff Diversion Dam Rotary Screw Trap	U.S. Fish and Wildlife Service	Red Bluff Diversion Dam Rotary Screw Trap, U.S. Fish and Wildlife Service
U.S. Fish and Wildlife Service Riparian Data Web Service	U.S. Fish and Wildlife Service	Web Mapping Services for Riparian Data Provided by the U.S. Fish and Wildlife Service
U.S. Fish and Wildlife Service Wetlands Data (1:250,000 scale) Web Map Service	U.S. Fish and Wildlife Service	The National Wetlands Inventory (NWI) has been producing wetland maps and geospatial wetland data for the United States since the mid-1970s
Jersey Point Trawl Location	U.S. Fish and Wildlife Service Delta Juvenile Fish Monitoring Program	Location of the Early Warning Survey Jersey Point Trawl Location
Chippis Island Trawl	U.S. Fish and Wildlife Service Delta Juvenile Fish Monitoring Program	Location of the DJFMP Chippis Island Trawl
Delta Juvenile Fish Monitoring Program Key Locations	U.S. Fish and Wildlife Service Delta Juvenile Fish Monitoring Program	Key Regions, Landmarks, Survey, and Sample Locations for the U.S. Fish and Wildlife Services Delta Juvenile Fish Monitoring Program
Enhanced Delta Smelt Monitoring 20 MM Weekly Catch Summaries	U.S. Fish and Wildlife Service	Weekly Catch Summaries of Longfin and Delta Smelt as part of the Enhanced Delta Smelt Monitoring
Enhanced Delta Smelt Monitoring Far West Region	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring Far West Region
Enhanced Delta Smelt Monitoring High Risk High Density Strata	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring High Risk High Density Strata
Enhanced Delta Smelt Monitoring High Risk Low Density Strata	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring High Risk Low Density Strata
Enhanced Delta Smelt Monitoring Low Risk High Density Strata	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring Low Risk High Density Strata
Enhanced Delta Smelt Monitoring Low Risk Low Density Strata	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring Low Risk Low Density Strata
Enhanced Delta Smelt Monitoring Modified Catch per 10 min tow	U.S. Fish and Wildlife Service	Enhanced Delta Smelt Monitoring Modified Catch per 10 min tow summed by Subregion
Enhanced Delta Smelt Monitoring North Region	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring North Region
Enhanced Delta Smelt Monitoring South Region	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring South Region
Enhanced Delta Smelt Monitoring Stations and Catch	U.S. Fish and Wildlife Service	This layer displays the results of the Enhanced Delta Smelt Monitoring Program that was initiated on December 15, 2016
Enhanced Delta Smelt Monitoring Stratum	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring Stratums
Enhanced Delta Smelt Monitoring Subregions	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring Subregions
Enhanced Delta Smelt Monitoring Weekly Catch Summary of Key Species	U.S. Fish and Wildlife Service	This layer displays the results of the Enhanced Delta Smelt Monitoring Program that was initiated on December 15, 2016
Enhanced Delta Smelt Monitoring West Region	U.S. Fish and Wildlife Service	Delineation of the Enhanced Delta Smelt Monitoring West Region
Enhanced Delta Smelt Monitoring Most Recent Daily Catch	U.S. Fish and Wildlife Service	This layer displays the results of the Enhanced Delta Smelt Monitoring Program that was initiated on December 15, 2016
MODIS Current Fire Detections Web Map Service	U.S. Forest Service	MODIS fire detections for the continental United States categorized by occurrence within the last 6, 12 and 24 hours, and all detections previous to the last 24-hour period
National Insect and Disease Risk Web Map Service	U.S. Forest Service	Web services for the National Insect and Disease Risk Map Data
National Forests in the Sacramento River Watershed	U.S. Forest Service	Delineation of National Forest Land in the Sacramento River Watershed
U.S. Forest Service Web Map Services	U.S. Forest Service	Web mapping services provided by the U.S. Forest Service
Wild and Scenic Rivers	U.S. Forest Service	Delineation of Wild and Scenic Rivers in the U.S
Sacramento River Watershed Vegetation	U.S. Forest service - Pacific Southwest Region - Remote Sensing Lab	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California

California GIS Inventory

Layer Name	Organization	Layer Description
Eastern Shasta Trinity National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Eastern Shasta Trinity National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
El Dorado National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
El Dorado National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	The mean reference fire return interval is an approximation of how often, on average, a given PFR likely burned in the three or four centuries prior to significant Euroamerican
Klamath National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Klamath National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Lassen National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Lassen National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Mendocino National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Mendocino National Forest Mean Reference Fire Return Interval	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Modoc National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Modoc National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Plumas National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This is a subset of the mercury commodity features from the California-wide mineral resource layer
Plumas National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This is a subset of the mercury commodity features from the California-wide mineral resource layer
Tahoe National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This is a subset of the mercury commodity features from the California-wide mineral resource layer
Tahoe National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This is a subset of the mercury commodity features from the California-wide mineral resource layer
Western Shasta Trinity National Forest Current Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Western Shasta Trinity National Forest Mean Reference Fire Return Intervals	U.S. Forest Service and The Nature Conservancy	This polygon layer consists of information compiled about fire return intervals for major vegetation types on the 18 National Forests in California and adjacent land jurisdictions
Historic Fire Perimeters	U.S. Forest Service Pacific Southwest Region	Historic Fire Perimeters in the Sacramento River Watershed
Fire Management Zones	U.S. Forest Service Pacific Southwest Region	U. S. Forest Service Fire Management Zones
CalVeg	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - American Subregion	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - Eastside Subregion	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - Feather Subregion	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - Northeast Subregion	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - SacValley	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
CalVeg - Westside	U.S. Forest Service Pacific Southwest Region	CALVEG is a hierarchical classification system of actual vegetation designed to assess vegetation-related resources throughout California
1945 Timberland Resources	U.S. Forest Service	1945 Timber stand assessments
Tree Mortality High Priority Counties	U.S. Forest Service	High Priority Counties were identified by the Tree Mortality Taskforce as most in need of assistance in addressing tree mortality issues and include Amador, Calaveras, El Dorado, Fresno, Kern, Madera, Mariposa, Placer, Tulare, and Tuolumne
California Reservoirs	U.S. Geological Survey	Reservoirs in California as Designated by the U.S. Geological Survey
Carson, Truckee, and Walker Watershed NHD Flowlines	U.S. Geological Survey	NHD Flowlines for the Carson, Truckee, and walker River Watersheds
Delta Waterways	U.S. Geological Survey	Delineation of Waterways in the Legal Delta
Gold Resources	U.S. Geological Survey	This is a subset of the gold commodity features from the California-wide mineral resource layer

California GIS Inventory

Layer Name	Organization	Layer Description
Hass Slough	U.S. Geological Survey	Delineation of Hass Slough
Hastings Tract	U.S. Geological Survey	Delineation of Hastings Tract
Holland Island	U.S. Geological Survey	Delineation of Holland Island
Nevada Lakes and Reservoirs	U.S. Geological Survey	Delineation of lakes and Reservoirs in the State of Nevada
Mercury Mines	U.S. Geological Survey	Data for 1100 mercury mine locations were extracted from the USGS's Minerals Availability and Mineral Industry Location Database (MAS/MILS)
Mercury Resources	U.S. Geological Survey	This is a subset of the mercury commodity features from the California-wide mineral resource layer
MRDS California Geologic Map Data Web Service	U.S. Geological Survey	Mineral Resources Data System Geological map web service
Groundwater Information Network Web Map Services	U.S. Geological Survey	Web Services for the Groundwater Information Network
Principle Areas of Mine Pollution	U.S. Geological Survey	Delineation of Principle Areas of Mine Pollution
Topographically Occurring Mines	U.S. Geological Survey	Map of Topographically occurring mines
Ulatris Creek	U.S. Geological Survey	Delineation of Ulatris Creek
USGS California Geology	U.S. Geological Survey	Map of California Geology
USGS Mineral Resource Data System	U.S. Geological Survey	Mineral resource occurrence data covering the world, most thoroughly within the U.S.
Yolo Bypass	U.S. Geological Survey	Delineation of the Yolo Bypass
California Reservoirs	U.S. Geological Survey	This is a California subset of a point coverage of dams in the United States and Puerto Rico, which originally was derived from the national inventory of dams data base (U.S. Army Corps of Engineers, 1982)
Central Valley Hydrologic Model Regions	U.S. Geological Survey California Water Science Center	The CVHM is an extensive, detailed three-dimensional (3D) computer model of the hydrologic system of the Central Valley (Faunt, 2009)
Campgrounds	U.S. Geological Survey Geographic Names Information System	Map layer of California Campgrounds
Mercury in Soils	U.S. Geological Survey Mineral Resource Data System	Mapping of Mercury in soils
Major Rivers	U.S. Geological Survey National Hydrography Dataset	Using the USGS NHD GIS this is a layer showing only large rivers
Barker Slough	U.S. Geological Survey	Layer delineating the boundary of Barker Slough
Cache Collaborative Geographical Features	U.S. Geological Survey	Combination of geographic features in the Cache Slough Complex
Cache Collaborative Islands	U.S. Geological Survey	Delineation of Delta Islands in the Cache Slough Region
Cache Slough	U.S. Geological Survey	Delineation of the Cache Slough Geographical feature from NHD
Calhoun Cut	U.S. Geological Survey	Delineation of Calhoun Cut from NHD
Delta X Channel Location	U.S. Geological Survey	Delineation of the Delta Cross Channel Gates
Fremont Weir	U.S. Geological Survey	Delineation of the Fremont Weir
Liberty Cut	U.S. Geological Survey	Delineation of Liberty Cut from NHD
Liberty Island	U.S. Geological Survey	Delineation of Liberty Island from NHD
Lindsey Slough	U.S. Geological Survey	Delineation of Lindsey Slough from NHD
Maine Prairie Slough	U.S. Geological Survey	Delineation of Maine Prairie Slough from NHD
Prospect Island	U.S. Geological Survey	Delineation of Prospect Island from NHD
Prospect Slough	U.S. Geological Survey	Delineation of Prospect Slough from NHD
Sacramento River Deepwater Ship Channel	U.S. Geological Survey	Mapped location of the Sacramento River Deepwater Ship Channel from NHD
Shag Slough	U.S. Geological Survey	Delineation of Shag Slough from NHD

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Maine Prairie Slough	U.S. Geological Survey	Delineation of Maine Prairie Slough from NHD
Prospect Island	U.S. Geological Survey	Delineation of Prospect Island from NHD
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