CALIFORNIA



Maximizing the Effectiveness of Water Quality Data Collection & Dissemination

Jon B. Marshack, D.Env. Monitoring Council Coordinator State Water Resources Control Board

Everyone Needs Data

▲ 211,000 miles of rivers & streams \diamond >1.6 million acres lakes 1,100 miles of coastline 1.3 million acres of bays and estuaries 15 million acre-feet of groundwater extracted per year

California Water Quality Monitoring Council

The Water Quality Information Problem



The Response – Senate Bill 1070

Became state law in 2006

- Required formation of California Water Quality Monitoring Council
- Memorandum of Understanding between
 - California Environmental Protection Agency
 - California Natural Resources Agency
- By December 1, 2008: Monitoring Council recommendations
 - Maximize efficiency and effectiveness of existing water quality data collection and dissemination
 - Ensure collected data available to decision makers and public

Monitoring Council Members



California Water Quality Monitoring Council

The Monitoring Council's Solution Don't get mired in technical details! Focus first on streamlined data access Theme-based web portals Directly address users' questions Single global point of entry Theme-specific workgroups Overarching Monitoring Council guidance California Water Quality Monitoring Council 6



California Water Quality Monitoring Council

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Role of the Monitoring Council Establish policies and guidelines Clearinghouse for ♦ Standards ▲ Guidelines Collaboration

My Water Quality Website and Portal Demonstration

www.CaWaterQuality.net



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CALIFORNIA WATER QUALITY MONITORING COUNCIL

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My Water Quality | Monitoring Council | This site is hosted by the Surface Water Ambient Monitoring Program (SWAMP) |

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Welcome to My Water Quality

This web portal, supported by a wide variety of public and private organizations, presents California water quality monitoring data and assessment information that may be viewed across space and time. Initial web portal development concentrates on four theme areas, with web portals to be released one at a time. Click the Contact Us tab for more information.

The Monitoring Council seeks to provide multiple perspectives on water quality information and to highlight existing data gaps and inconsistencies in data collection and interpretation, thereby identifying areas for needed improvement in order to better address the public's questions. Questions and comments should be addressed through the Contact Us tab.



IS OUR WATER SAFE TO DRINK?

Safe drinking water depends on a variety of chemical and biological factors regulated by a number of local, state, and federal agencies. More>>



IS IT SAFE TO SWIM IN OUR WATERS?

Swimming safety of our waters is hitked to the levels of pathogens that have the potential to cause disease. More >>



IS IT SAFE TO EAT FISH AND SHELLFISH FROM OUR WATERS?

Aquatic organisms are able to accumulate certain pollutants from the water in which they live, sometimes reaching levels that could harm consumers. More>>



ARE OUR AQUATIC ECOSYSTEMS HEALTHY?

The health of fish and other aquatic organisms and communities depends on the chemical, physical, and biological quality of the waters in which they live. More>>





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	Can I Swim at My Beach, Lake, or Stream?
Boards	The vast majority of the time, California's waters are open and available for recreation uses visitors enjoy. Unfortunately, there are times when it is not advisable to go in the waters due to bacterial contamination.
SAFE TO SWIM LINKS	N. County Haalth Arenov Occor Booch Classing and Destings
≫ Pollution Sources & Health Risks	County Health Agency Ocean Beach Closures and Postings County health agency websites and contact information provide the most immediate information on ocean beach postings and closures.
≫ Laws, Regulations &	Postings - Warnings to avoid contact with the water; monitoring shows bacteria levels exceed standards.
Standards	->> Closures - Prohibitions on uses of water. Imminent public health threats, such as sewage spills.
 Regulatory Activities 	
-≫ Enforcement Actions -≫ Research -≫ Monitoring Programs, Data Sources & Reports	Heal the Bay Ocean Beach Report Card A third party rating system that evaluates the water quality of individual California beaches, based on the previous 4 weeks of monitoring results. Data are submitted to the State Water Resources Control Board from county health agencies. These report cards are updated weekly. Report card grades are based on the <u>State's water quality standards for recreational waters</u> . Click on a county and then on a specific beach to view information about that beach. Not a state-affiliated website.
	Assessments for Freshwater Lakes and Streams Currently, few agencies and organizations provide such assessments electronically. Contact your local park, concessionaire, or <u>county health agency</u> for more information.
	G
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Which Beaches, Lakes, or Streams are Currently Closed or Posted by County Health Agencies?





Ocean Beaches

This interactive map provides access to the most current information on postings and closures.

- Postings Warnings to avoid contact with the water. Monitoring shows bacteria levels exceed standards.
- Closures Prohibitions on uses of water. Imminent public health threats, such as sewage spills.

This information is updated daily to weekly, depending on the county.

View Posting and Closure Information

- -» Click on a county or
- Select from the Show County Info menu.

Freshwater Lakes and Streams

A few county health agencies provide creek and lake information along with ocean beach information. Otherwise, lake and stream information is currently unavailable electronically.

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Ocean Water Protection Program Health Care Agency



€ OC Beach Menu

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Environmental Health

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Ocean & Bay Closures, Warnings and Advisories Status Report

Report issued August 19, 2010 at 11:35 AM



For your convenience, you can also call the Ocean & Bay Closure and Warning Hotline at (714) 433-6400 for the latest status on ocean and bay closures, warnings and advisories in Orange County.



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BEACH REPORT CARD



Presented by Heal the Bay

mer Beach Report Card for 2010

PDF: 300kb Released: September 29, 2010



MEW Summer Beach Report Card for 2010

PDF: 300kb Released: September 29, 2010



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mew Summer Beach Report Card for 2010

PDF: 300kb Released: September 29, 2010



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summer Beach Report Card for 2010

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What are the Long-Term Bacteria Trends at My Beach, Lake, or Stream?



Understanding trends allows decision makers to determine whether pollution sources are increasing in magnitude and/or frequency and the effectiveness of control measures.

View Trends in Bacterial Indicator Levels

The interactive map below provides sampling results for coastal beach monitoring locations over time. A few county health agencies provide creek and lake information along with ocean beach information. Otherwise, lake and stream information is currently unavailable electronically.

- ->> To find bacterial sample results for a particular site, first select the county, then click on a site location. The results will appear to the right of the map. Results may take time to appear.
- ->> Place your mouse cursor over a point on the chart to see the date and sample result for a particular sample event.

Horizontal lines on the charts represent bacterial water quality objectives specified in the 2005 California Ocean Plan.



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- ->> Red is the Single Sample Maximum objective. Sample points above this line represent violations of the objective.
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Which Beaches, Lakes, and Streams Are Listed as Impaired for Bacterial Indicators?

-

County: Water Body:

Show county



This interactive map shows which of California's waters are listed as impaired for contact recreation related factors and which pollutants are involved. Also shown are potential sources of pollutants and the Total Maximum Daily Load (TMDL) projects to reduce pollutants to acceptable levels.

View 2006 303(d) Listing and current TMDL Information:

- Click on a water body (shown in red), or;
- Select (or type) the county in the County box, then select the water body from the Water Body menu, or;
- Select (or type) the water body name directly in the Water Body box.

Impaired Water Bodies

Listing a water body as impaired in California is governed by the <u>State Water Board's</u> <u>303(d) Listing Policy</u>.

Regional Water Boards assess water quality data for California's waters every two years to determine if they contain pollutants at levels that exceed protective water quality criteria and standards. This biennial assessment is required under Section 303(d) of the <u>federal</u> Clean Water Act.

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Which Beaches, Lakes, and Streams Are Listed as Impaired for Bacterial Indicators?

Water Body:



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Clean Beaches Initiative (CBI)





The Clean Beaches Initiative Grant Program addresses postings and closures at California public beaches caused by bacterial contamination. CBI grants help local agencies, non-profit organizations, and public agencies implement projects that protect and restore California's coastal water quality. This interactive map presents coastal water quality improvement projects funded by the CBI Grant Program.

View Information on a Specific CBI Grant Project

- ->> Click on a map location, or
- ->> Select the project name from the pop-up menu.

Statewide Clean Beaches Initiative Information

->> Clean Beach Videos Version: ->> no subtitles ->> subtitles -» Versión Español: ··» sin subtítulos ->> con subtítulos

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Fecal Bacteria Source Identification Study at Campbell Cove State Beach, Bodega Bay

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Campbell Cove State Beach, Bodega Bay is a popular beach for families, school field trips, kayaks, divers, etc. because of its beach being protected from the rough northern California surf and water temperatures often 10° warmer than the open coastline water temperatures. A year-round source of freshwater flows from the "Holein-the-Head" pond onto the beach that attracts a constant flock of sea gulls who like to drink from the creek. However, a phenomenon has been observed of elevated fecal

100%



bacteria contamination typically during the fall months that led to a Clean Beaches Initiative (CBI) Grant that should help lower the level of bacteria at the beach.

The County of Sonoma Environmental Health Division in cooperation with the North Coast Regional Water Quality Control Board, Bodega Marine Laboratory and California Parks and Recreation Department to date have ruled out the State beach's vault privy (see attached photo) through extensive dye studies. The California Parks and Recreation Department has implemented a dog ban notice. The Bodega Marine Laboratory has completed one study phase of tidal circulation patterns in May 2003 and is conducting a second study the week of October 13-17, 2003. Results from the May 2003 tidal circulation study indicated: strong tidal circulation with high rate of flushing within Bodega Harbor including Campbell Cove and small area of tidal intake outside the harbor mouth limited to less than 300 meters.

The County of Sonoma contracted with Dr. Mansour Samadpour with the Institute for Environmental Health to conduct

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ARE OUR AQUATIC ECOSYSTEMS HEALTHY?

The health of fish and other aquatic organisms and communities depends on the chemical, physical, and biological quality of the waters in which they live. More>> 40



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- Laws, Regulations, Standards & Guidelines
- -» Assessment Thresholds
- -> Regulatory Activities
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- --> Research
- Monitoring Programs, Data Sources & Reports
- ->> Statewide Perspective
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Is It Safe to Eat Fish and Shellfish From Our Waters?



Fish and shellfish are nutritious and good for you to eat. But some fish and shellfish may take in toxic chemicals from the water they live in and the food they eat. Some of these chemicals build up in the fish and shellfish - and in the humans that eat fish and shellfish - over time. Although the chemical levels are usually low, it is a good idea to learn about advisories and monitoring in water bodies where you fish, and for fish or shellfish you eat.

QUESTIONS ANSWERED

- <u>Can I eat fish or shellfish caught in my lake</u>, stream, or ocean?
- Does my lake, stream, or ocean location have fish or shellfish with contaminants at levels of concern?
- What are the levels and long-term trends in my lake, stream, or ocean location?
- Which lakes, streams, or ocean locations are listed by the State as impaired?
- What is being done to reduce these problems?

Water Quality information addressing these questions is currently available for the counties that are shaded on this map. This portal is a work in 41 progress, initially showing readily available data and



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Can I Eat Fish or Shellfish Caught in My Lake, Stream, or

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County:	
Yuba	-
Show county	

Ocean Location?

CHICO Concow Map • La Porte Durham (99) Lake Oroville State \wedge **Recreation Area** $\in \rightarrow$ Oroville Oroville $\overline{\mathbf{V}}$ East South (162) $\left|+\right|$ Oroville Challe Carhptonville Biggs Palermo Q Gridley 49) 70 Loma Rica Nevada City Live 80 Grass Valley Wildwood Penn Valley Sutter uba City idian Alta Sierra South Beale AFB Colfax Yuba City whurst Lake of Foresthill the Pines Meadow Wheatland Vista North Auburn Georgetown Lincoln Auburn (99) Loomis Rocklin G nite Ba

Fish and Shellfish Consumption Advisories by Location

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There are health benefits from eating fish and shellfish. But, some fish and shellfish may contain chemical or biotoxin contaminants that could pose health risks. When contaminant levels are unsafe, consumption advisories may recommend that people limit or avoid eating certain species of fish caught in certain places and at certain times.

->> California Sport Fish Consumption Advisories.

For a number of California water bodies, the Cal/EPA office of Environmental Health Hazard Assessment (OEHHA) publishes consumption advisories for chemicals in noncommercial fish which you and your

family or friends catch. These advisories are shown on the map to the left.



- ->> Click on a water body (shown in red), or
- ->> Select (or type) the county in the County box, then select the water body from the Water Body menu, or
- ->> Select (or type) the water body name directly in the Water Body

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County:	
Yuba	-
Show county	

Ocean Location?

CHICO Concow Map • La Porte Durham (99) Lake Oroville State \wedge **Recreation Area** $\in \rightarrow$ X $\overline{\mathbf{v}}$ Lower Feather River + Camptonville Contaminant of concern mercury Q View Advisory 49) Nevada City Live C ake 80 Grass Valley twood Penn Valley Sutter a City idian Alta Sierra South Beale AFB Colfax Glivehurst Yuba City Lake of Foresthill the Pines Meadow Wheatland Vista North Auburn Georgetown Lincoln Auburn (99) Loomis Rocklin

Fish and Shellfish Consumption Advisories by Location

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MOST POPULAR LINKS

FISH

- ->> Art and Crafts Hazards List
- ->> Cal/Ecotox Database
- Decisions Pending and Opportunities for Public Participation
- ->> Hot Spots
- Press Releases
- Proposition 65 List of Chemicals
- → Public Health Goals
- Public Records Act Requests
- ->> Soil Screening Values
- ->> Toxicity Criteria Database

LISTSERVS

- ->> OEHHA Listserv
- ->> Biomonitoring Listserv
- Fish Listserv
- Northern California Spill Alert
- ->> Prop. 65 Listserv
- Southern California Spill Alerts

CONTACT OEHHA

- -->> Help!
- ->> Contact OEHHA Staff



Safe Eating Guidelines for the Lower Feather River

Women 18 – 45 and Children 1 – 17 Years



->> Safe Eating Guidelines ->> Women & Children -» Alternate Languages ->> Pescado -->> Chemicals in Fish ->> Mercury ->> PCBs Advisory Map Reports ~~>>> ->> Angler Survey ->> Fish Consumption ->> Advisory Tissue Levels Oil Spill Information -->>> ->> Links EXTERNAL FISH RESOURCES ->> USEPA/FDA RECOMMENDATIONS FOR FISH CONSUMPTION ->> DEPARTMENT OF FISH AND GAME

- FISH AND GAME SPORT FISH REGULATION BOOKS
- ->> DEPARTMENT OF PUBLIC HEALTH FISH INFORMATION
- SACRAMENTO-SAN JOAQUIN DELTA FISH MERCURY PROJECT SOUTHERN
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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



Select location from list.

Zoom to county:



Contaminant Data

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- Select parameters of interest from the menus below and click on the "Go" button. The map will display average concentrations for the selected water bodies.
- To view data for all species at your water body, trends, or comparisons with nearby water bodies, click on a map location or select a water body from the menu above the map.
- Enter your own threshold or modify thresholds displayed on the map by clicking the Change Thresholds link in the map legend.

Select Species:	
Species With Highest Avg Concentration	
Select Contaminant:	M
Mercury	4
Select Start Date:	
2007	4
Select End Date:	
2008	4
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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



Select location from list. Zoom to county:

Show counties



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Select Species:	
Species With Highest Avg Concentration	4
Select Contaminant:	
Mercury	
Select Start Date:	Ŵ
2007	4
Select End Date:	
2008	4
Go Reset	

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National Forest

Select location from list.

Watsonville Mercury in Species

With Highest Avg

Concentration (ppm) Years: 2007 - 2008

> >0.44 0.3 - 0.440.22 - 0.3

0.15 - 0.22 0.07 - 0.15 < 0.07

Change Thresholds

Zoom to county:

Show counties

What are the Levels and Long-Term Trends in My Lake, Stream, or **Ocean Location?**

Map

Battle

Mountain

Nevada

Death Valley National Par

Winnemucca

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Carson City

Hanford O

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Los

Porterville

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O Bakersfield

Oceansid



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- Enter your own threshold or modify thresholds displayed on -30 the map by clicking the Change Thresholds link in the map legend.

Select Species: Species With Highest Avg Concentration Select Contaminant: Mercury Chlordanes DDTs Dieldrin Mercury PCBs SelenIum Select End Date: 2008 Go Reset			
Select Contaminant:		Select Species:	
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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



Select location from list.

Zoom to county:



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Select Contaminant:	
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Select location from list.

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Zoom to county:



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Select Contaminant:	
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Select location from list.

Zoom to county:



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Select location from list.

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Species With Highest Avg Concentration	٠
Select Contaminant:	
Mercury	4
Select Start Date:	
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What are the Levels and Long-Term Trends in My Lake, Stream, or **Ocean Location?**



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Select location from list. 4 Zoom to county: 4 Show counties National Forest Map Winnemucca n Battle Mountain Nevada Carson City Select Species:

Contaminant Data

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Threshold	Units	Comments	Include?	■Highest Avg Concentration ◄
0.07	ug/g	OEHHA Advisory Tissue Level - 3 servings/week (upper end of recommended range)		iant:
0.15] ug/g	OEHHA Advisory Tissue Level - 2 servings/week (upper end of recommended range)		•
0.22	ug/g	OEHHA Fish Contaminant Goal		
0.3	ng/g	USEPA National Recommended Water Quality Criterion and State Water Board 303(d) Threshold		•
0.44	ug/g	OEHHA Advisory Tissue Level - 1 serving/week (upper end of recommended range)	✓	•
			Submit	
nange inres	nolas	10 Europa Technologies, Google, Company	Go Res	et

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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



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Select location from lis	4
Zoom to county:	•
Alameda Alpine Amador Butte N	
Calaveras Colusa Contra Costa Del Norte El Dorado Fresno Glenn Humboldt	
Personal and a second s	rame Stan Jaus Infice Forest Stan Jaus Infice Forest Stan Jaus Infice Forest Content C
Mercury in Species With Highest Avg Concentration (ppm) Years: 2007 - 2008	Hanford O O Walia Porterville 5 O Bakersfield
 >0.44 0.3 - 0.44 	San Lancaster
	Santa Clara Victorville Barbara
 0.22 - 0.3 0.15 - 0.22 	Los Anguer Velando Indio
0.07 - 0.15	Long Beach Hemor
< 0.07	Oceanside Condido
Change Thresholds	10 Europa Technologies, Googla, Colling of US

Contaminant Data

This interactive map allows you to explore fish contaminant data for your fishing locations. Data from extensive monitoring of lakes and reservoirs by SWAMP are available for 2007 and 2008. Data from these two years are shown by default.

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Select Species:	
Species With Highest Avg Concentration	٩
Select Contaminant:	
Mercury	4
Select Start Date:	
2007	4
Select End Date:	
2008	٩
Go Reset	

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Home --> Safe To Eat ->> Data And Trends

What are the Levels and Long-Term Trends in My Lake, Stream, or **Ocean Location?**



Select location from list. Zoom to county: Butte

Show counties

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Contaminant Data

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- To view data for all species at your water body, trends, or comparisons with nearby water bodies, click on a map location or select a water body from the menu above the map.
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Select Species:	
Species With Highest Avg Concentration	٩
Select Contaminant:	
Mercury	4
Select Start Date:	
2007	4
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What are the Levels and Long-Term Trends in My Lake, Stream, or **Ocean Location?**



Select location from list. Zoom to county: Butte

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Select Species:	
Species With Highest Avg Concentration	4
Select Contaminant:	
Mercury	4
Select Start Date:	
2007	4
Select End Date:	
2008	٩
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Select location from list.

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Molinos

Mercury in Species With Highest Avg

Concentration (ppm)

>0.44 0.3 - 0.44

0.22 - 0.3

0.15 - 0.22

0.07 - 0.15

< 0.07

Change Thresholds

Years: 2007 - 2008

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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?

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Stirling City

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Oroville

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South Map data @2010e@eAgBe - Terms

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Palermo

Lake Oroville State Recreation Area

Oroville

East

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Magalia

Forest Ranch

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Biggs

Gridley

Live Oak

Chico

Durham



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Contaminant Data

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Lake Oroville

 This interactive map allows you to explore fish contaminant data for your fishing locations. Data from extensive monitoring of lakes and reservoirs by SWAMP are available for 2007 and 2008. Data from these two years are shown by default

Data Trends Nearby Locations

What are the most recent data for my location?

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Contaminant Data For 2007 - 2008

Species	Sample Type	MERCURY (ppm)	
Common Carp	Location Composite 1	0.29 (2007)	
Common Carp	Location Composite 2	0.22 (2007)	
Common Carp	Location Composite 3	0.23 (2007)	
Common Carp	Location Composite 4	0.31 (2007)	
Smallmouth Bass	Average of Individuals 1	0.5 (2007)	
Smallmouth Bass	Average of Individuals 2	0.45 (2007)	
Smallmouth Bass	Average of Individuals 3	0.42 (2007)	
Smallmouth Bass	Average of Individuals 4	0.39 (2007)	

Select End Date:

Grass 2008

Go

Reset

4

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Select location from list.

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What are the Levels and Long-Term Trends in My Lake, Stream, or **Ocean Location?**

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Data



Contaminant Data

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Grass

This interactive map allows you to explore fish contaminant data for your fishing locations. Data from extensive monitoring of lakes and 4 reservoirs by SWAMP are available for 2007 and 2008. Data from these two years are shown by default Lake Oroville ×

What are the most recent data for my location?

Nearby Locations

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Contaminant Data For 2007 - 2008

Select End Date:

Reset

2008

Go

Species	Sample Type	MERCURY (ppm)
Common Carp	Location Composite 1	0.29 (2007)
Common Carp	Location Composite 2	0.22 (2007)
Common Carp	Location Composite 3	0.23 (2007)
Common Carp	Location Composite 4	0.31 (2007)
Smallmouth Bass	Average of Individuals 1	0.5 (2007)
Smallmouth Bass	Average of Individuals 2	0.45 (2007)
Smallmouth Bass	Average of Individuals 3	0.42 (2007)
Smallmouth Bass	Average of Individuals 4	0.39 (2007)



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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



Select location from list. Zoom

Contaminant Data

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This interactive map allows you to explore fish contaminant data for your fishing locations. Data from extensive monitoring of lakes and reservoirs by SWAMP are available for 2007 and 2008. Data from

Lake Oroville

Data

Nearby Locations

Change search parameters:

Little Grass Valley Reservoir

Lower Bucks Lake

Zayak/Swan Lake

Scotts Flat Reservoir

How does my location compare to nearby water bodies?

Nearby Water Body Distance (mi) Species Thermalito Afterbay 14.07 Species With Highest Avg Concentration (Common Carp) Collins Lake 16.01 Species With Highest Avg Concentration (Largemouth Bass) Bullards Bar Reservoir 18.33 Species With Highest Avg Concentration (Largemouth Bass) Harry L Englebright Lake Species With Highest Avg Concentration (Sacramento Sucker) 21.19 Paradise Lake 22.72 Species With Highest Avg Concentration (Largemouth Bass) Bucks Lake 25.52 Species With Highest Avg Concentration (Rainbow Trout)

Species With Highest Avg Concentration (Rainbow Trout) 0.15 - 0.22 N Live Oak 2008 Lake 0.07 - 0.15 Grass Wildwood < 0.07 Penn Valley Yuba City Change Thresholds South Map data @2010e@eAgte - Terms Go

25.94

26.45

32.74

33.25



Species With Highest Avg Concentration (Rainbow Trout)

Species With Highest Avg Concentration (Largemouth Bass)

Species With Highest Avg Concentration (Kokanee)

60

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Mercury (ppm)

0.24 (2007)

0.38 (2008)

0.4(2008)

0.62 (2008)

0.16(2008)

0.02 (2008)

0.02 (2008)

0.1(2007)

0.98 (2007)

0.03 (2008)

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->> State & Regional Water Boards.

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Which Lakes, Streams, or Ocean Locations Are Listed By The State As Impaired?

Home -- Safe To Eat --> Impaired Waters



Water Body: County: All • Ŧ Show county lamath MODOC Yreka National Forest onal Forest Map • o Alturas Mt Shasta Winnemucca Elko ireka P $\overline{\mathbb{A}}$ 0 Redding O Battle rtuna €∋ Mountain Susanville $\overline{\mathbf{v}}$ Nevada $\left|+\right|$ Reno Ē City Carson City Ð Santa Rosa Davis o Sacramento Stanislaus Petaluma O Concord National Forest O Stockton San Invo National Forest Francisco 0.46 lesto 0 Fremont Q San J California Santa Cruz O o Madera OFresno Watsonville Salinas Hanford O Visalia Las Vegas Death Valley National Park 0 Porterville 15 Builhe 5 O Bakersfield City Santa Maria Lancaster Santa Clarita Victorville Santa 0 Barbara La Riverside Hava Los Angeles O Indio Long Beach Hemet Escondido Oceanside Yuma

This interactive map shows which of California's waters are listed as impaired for uses related to fish or shellfish consumption by humans and which pollutants are involved. Also shown are the Total Maximum Daily Load (TMDL) projects to reduce pollutants to acceptable levels.

View 2006 303(d) Listing and current TMDL Information:

- Click on a water body (shown in red), or
- ->> Select (or type) the county in the County box, then select the water body from the Water Body menu, or
- Select (or type) the water body name directly in the Water Body box
- ->> Use the magnifier tool to zoom into an area of interest (more highlighted water bodies will appear)
- ->> Click on the state outline tool to return to a statewide view

Impaired Water Bodies

Listing a water body as impaired in California is governed by the State Water Board's 303(d) Listing Policy.

Water Boards

The State and Regional Water Boards assess water quality data for California's waters every two years to determine if they contain pollutants at levels that exceed protective water quality criteria and standards. This biennial assessment is required under Section 303(d) of the federal at Clean Water Act

Visit his Website

->> State & Regional Water Boards.

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Water Body: County: All Show county THE OTHER PROPERTY OF THE OTHER Willows Oroville Orov Map • #1 #3 #4 #2 X 210 San Pablo Bay \wedge U Pollutant of concern: Mercury $\left|+\right|$ Size affected: 68,349 Acres TMDL status: USEPA approved TMDL Auburn Q USEPA TMDL approval date: 02/12/2008 Q Final Staff Report TMDL Page Listed water body in the San Francisco Bay Region. lone ove Galt Park Fairfield etaluma Point Reyes o Lodi Novato O National Seashore San R Stockton Benicia • COakley 0 Concord Brentwood Berkelev Manteca San QOakland a Oak Tracy Francisco Dublin 0 Modesto 9 San Bruno O Livermore 580 San Mateo o • Fremont Redwood O Palo Alto City 0 O San Jose

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What are the Sources of Fish and Shellfish Contamination?

Most California fish consumption advisories involve four primary contaminants: mercury, PCBs, DDTs, and dieldrin. These and other chemical contaminants persist for long periods in the environment. Persistent organic chemicals, such as PCBs, DDT, and dieldrin accumulate in fatty tissues. Mercury, on the other hand, accumulates primarily in muscle tissue. Levels of all of these contaminants increase as they are transferred up the food chain. For example, concentrations of mercury in top predators (such as largemouth bass) may be a million times higher than concentrations in water.

These pollutants originate from a number of past and present municipal, industrial, and agricultural sources, such as mercury and gold mining, pesticide use around homes and in agriculture, leaking electrical transformers, and chemical manufacturing.

The history of gold mining in California's Sierra Nevada Motherlode began with the Gold Rush of 1848/49 and is well known. Mercury, mined mainly in the Coast Range, was used to amalgamate the gold. Between 1848 and 1981, 88% of the mercury mined in the United States came from the northern Coast Range of California. The map on the right shows the historic extent of gold, silver, and mercury mining in California. Mercury contamination from mining activities persists to this day and contributes to the mercury



that accumulates in fish. Other sources of mercury include emissions from the burning of fossil fuels and oil refining, the deposition of those atmospheric emissions, municipal and industrial wastewater discharges, and urban runoff.

What are the Risks of Eating Contaminated Fish and Shellfish?



The amounts of chemicals found in sport fish in California are not known to cause immediate sickness. But chemicals can collect in the body over time and they may eventually affect your health or that of your children. Some of the adverse health effects that might occur from long-term exposure to high levels of toxic chemicals in fish include increased risk of cancer, damage to the developing nervous system in the fetus and in young children, and damage to the reproductive system.

Information for Fish Consumers:

- ->> Methylmercury in sport fish
- PCBs in fish caught in California

How Can I Reduce My Risks from Eating Contaminated Fish and Shellfish?

Fish and shellfish are an important part of a healthful diet. There are things you can do to help lower your chances of taking in 🗸 /



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CALIFORNIA WATER QUALITY MONITORING COUNCIL

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My Water Quality | Monitoring Council | This site is hosted by the Surface Water Ambient Monitoring Program (SWAMP) |

GOVERNOR SCHWARZENEGGER

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- SWAMP Tools



Welcome to My Water Quality

This web portal, supported by a wide variety of public and private organizations, presents California water quality monitoring data and assessment information that may be viewed across space and time. Initial web portal development concentrates on four theme areas, with web portals to be released one at a time. Click the Contact Us tab for more information.

The Monitoring Council seeks to provide multiple perspectives on water quality information and to highlight existing data gaps and inconsistencies in data collection and interpretation, thereby identifying areas for needed improvement in order to better address the public's questions. Questions and comments should be addressed through the Contact Us tab.



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IS OUR WATER SAFE TO DRINK?

Safe drinking water depends on a variety of chemical and biological factors regulated by a number of local, state, and federal agencies. More>>



IS IT SAFE TO SWIM IN OUR WATERS?

Swimming safety of our waters is linked to the levels of pathogens that have the potential to cause disease. More >>



IS IT SAFE TO EAT FISH AND SHELLFISH FROM OUR WATERS?

Aquatic organisms are able to accumulate certain pollutants from the water in which they live, sometimes reaching levels that could harm consumers. More>>



ARE OUR AQUATIC ECOSYSTEMS HEALTHY?

The health of fish and other aquatic organisms and communities depends on the chemical, physical, and biological quality of the waters in which they live. More>>



STREAMS & RIVERS

California's streams and rivers flow through diverse habitats, from mountain canyons, valleys, deserts, estuaries and urban areas. Riparian woodlands develop along stream banks and floodplains, linking forest, chaparral, scrubland, grassland, and wetlands. More>>

OCEAN

California has 1,100 miles of shoreline and 220,000 square miles of state and federal oceanic habitat, featuring one of the world's most diverse marine ecosystems. More>> 69

CALIFORNIA WETLANDS

California

- North Coast
- Bay Area
- Central Coast
- South Coast
- Central Valley
- Lahontan
- Colorado River Basin

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Welcome to the California Wetlands Portal

The purpose of the Wetlands Portal is to provide the public information on the quantity and quality of California wetlands.

Explore your wetlands

Select a region to view interactive maps monitoring information related to wetlands and wetland projects.

- North Coast
- San Francisco Bay Area
- Central Coast
- South Coast
- Central Valley
- Lahontan
- Colorado River Basin

Questions Answered

Click on a question below to view summary information based on available monitoring results.

- Where are California's wetlands? Is there a wetland near me?
- How much wetland habitat does California have?
- How much wetland habitat has California lost?
- How healthy are California's wetlands?
- What is being done to improve California's wetlands?
- What is the status of wetland mapping in California?

Wetland Condition

The California Wetlands Portal reports on wetland condition on the CRAM website.

News

Oct-18-2010

The California Natural Resources Agency released the second State of the State's Wetlands report, which summarizes the progress made by



CALIFORNIA WETLANDS

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Bay Area Wetland Information

The California Wetlands Portal provides wetland scientists, managers, and the public information about the wetlands of selected regions of California. The Bay Area is one of <u>several regions</u> covered.

Information available

Wetland information currently available for the Bay Area region includes:

- Habitat: historical and modern habitat maps
- Projects: tidal and formerly tidal regions downstream of the Delta since 1998; Napa River watershed since 1998; Water Board certified projects since October 2006
- View a list of Bay Area wetland projects
- See Bay Area projects on an interactive map
- View summaries of Bay Area wetland restoration activity
- View answers to <u>questions</u> about Bay Area wetlands

Also: view a California map of wetland condition assessments(CRAM)





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IS IT SAFE TO SWIM IN OUR WATERS?

• Coastal beaches, bays & estuaries – July 2009



IS IT SAFE TO EAT FISH AND SHELLFISH?

• Sport fish – December 2009



- Wetlands March 2010
- Streams & Rivers Mockup Complete
- ▲ Marine Rocky Intertidal In Construction
- Estuaries Workgroup Forming



IS OUR WATER SAFE TO DRINK?

Groundwater – In Progress California Water Quality Monitoring Council California's Comprehensive Water Quality Monitoring Program Strategy

www.waterboards.ca.gov/water_issues/ programs/monitoring_council

California Water Quality Monitoring Council