

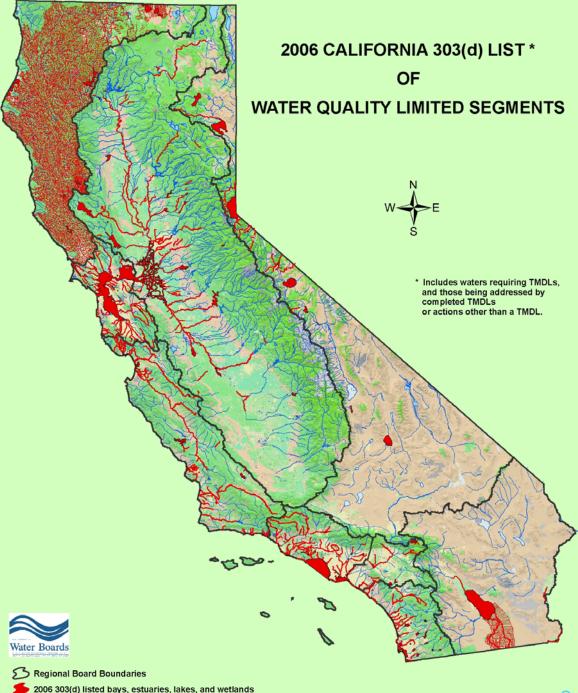
Maximizing the Effectiveness of Water Quality Data Collection & Dissemination

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

Everyone Needs Data

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

The Water Quality & Ecosystem 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
- Comprehensive Monitoring Program Strategy for CA

Monitoring Council Members

















East San Joaquin









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



Overarching Monitoring Council guidance

Theme-Specific Workgroups

Issue-experts represent key stakeholders

Monitoring Council

Develop web portal

Develop monitoring & assessment methods & data management procedures

Achieve standardization

Coordinate monitoring programs

Role of the Monitoring Council

- Establish policies and guidelines
- Clearinghouse for standards, guidelines & collaboration
- Resolve key issues
- Provide support
- Improve visibility



My Water Quality Website and Portal Demonstration

www.CaWaterQuality.net



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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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- -> Monitoring & Assessment Programs, Data Sources & Reports
- Water Quality Standards, Plans and Policies
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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. [Future Portal]



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>>

My Beach | Recent Conditions | Trends | Closures & Postings | Impaired Beaches | Improvements |



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- -> Monitoring Programs, Data Sources & Reports

Home → Safe To Swim

Is It Safe to Swim In Our Waters?





Beach water quality monitoring and strong pollution prevention measures are critical for protecting beach goers from waterborne diseases. Monitoring is performed by city and county health agencies, publicly owned sewage treatment plants, other dischargers, environmental groups and numerous citizenmonitoring groups.

View Monitoring and Assessment Information

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

QUESTIONS ANSWERED

- Can I swim at my beach, lake, or stream?
- How clean was my beach, lake, or stream during the past week or month?
- -> What are the long-term trends at my beach, lake, or stream?
- Which beaches, lakes, and streams are currently closed by county health agencies?
- Which beaches, lakes, and streams are listed by the State as impaired?
- Are the problems getting better?

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Quality Monitoring Council

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Can I Swim at My Beach, Lake, or Stream?



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.

- ->> County Health Agency Ocean Beach Closures and Postings County health agency websites and contact formation provide the most immediate information on ocean beach 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.
- ->> 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 State's water quality standards for recreational waters. 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 county health agency for more information.



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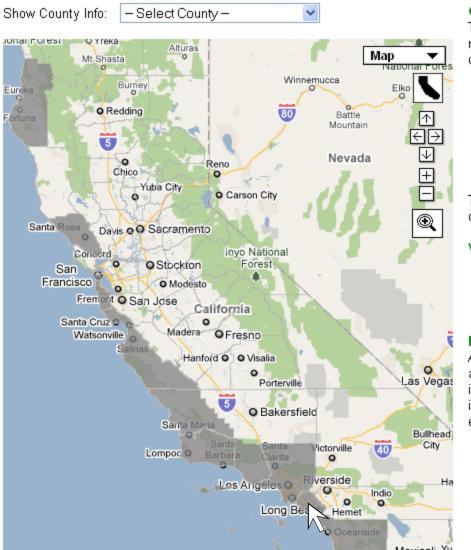
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Which Beaches, Lakes, or Streams are Currently Closed or Posted by County Health Agencies?





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

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- 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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Links

Shellfish toxins

Annual Report



Ocean & Bay Closures, Warnings and Advisories Status Report

March 1, 2011 at 11:45 AM

Report is updated when a change of status occurs.

Updates by phone: (714) 433-6400







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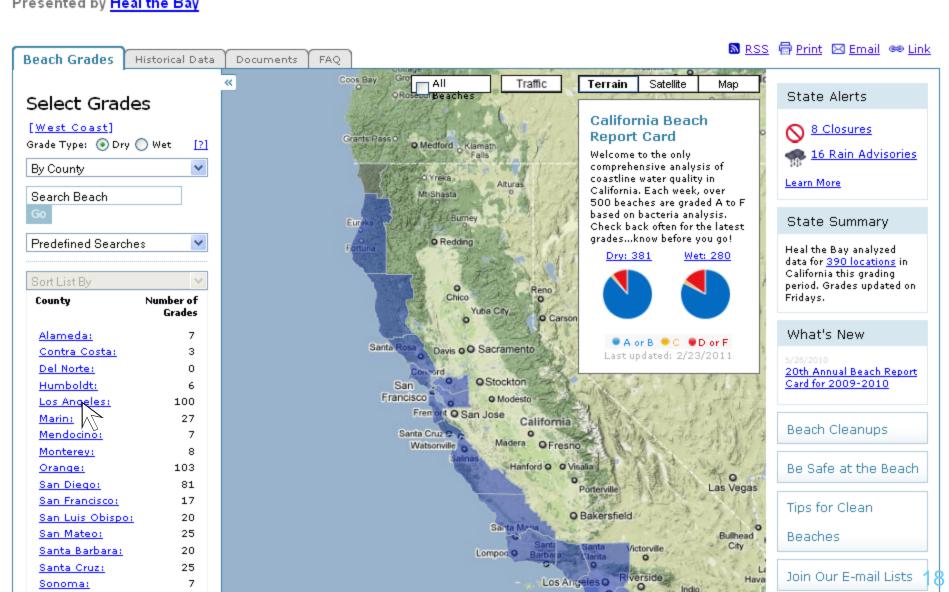


PDF: 300kb

Released: September 29, 2010



Presented by Heal the Bay

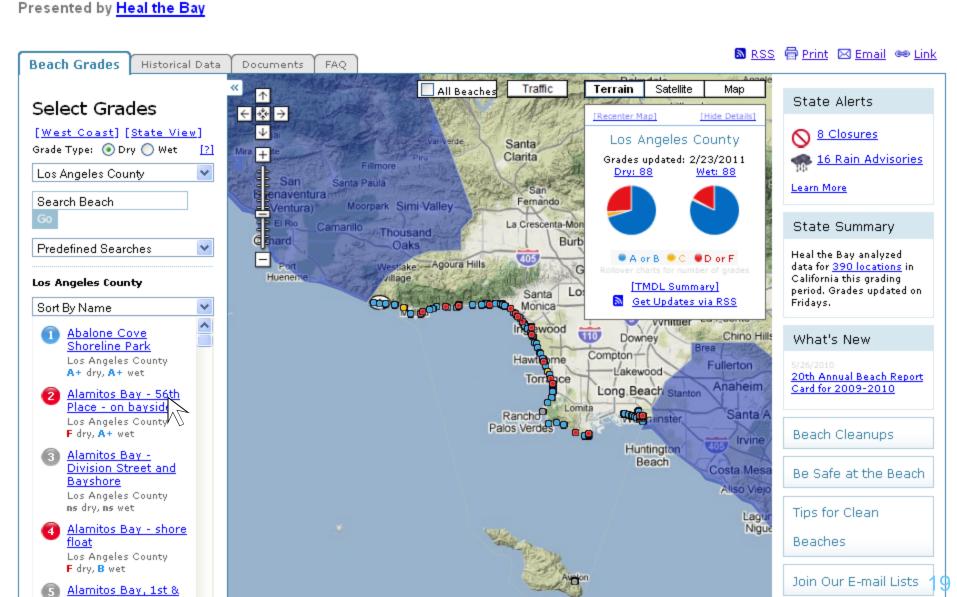


NEW Summer Beach Report Card for 2010

PDF: 300kb

Released: September 29, 2010

BEACH REPORT CARD

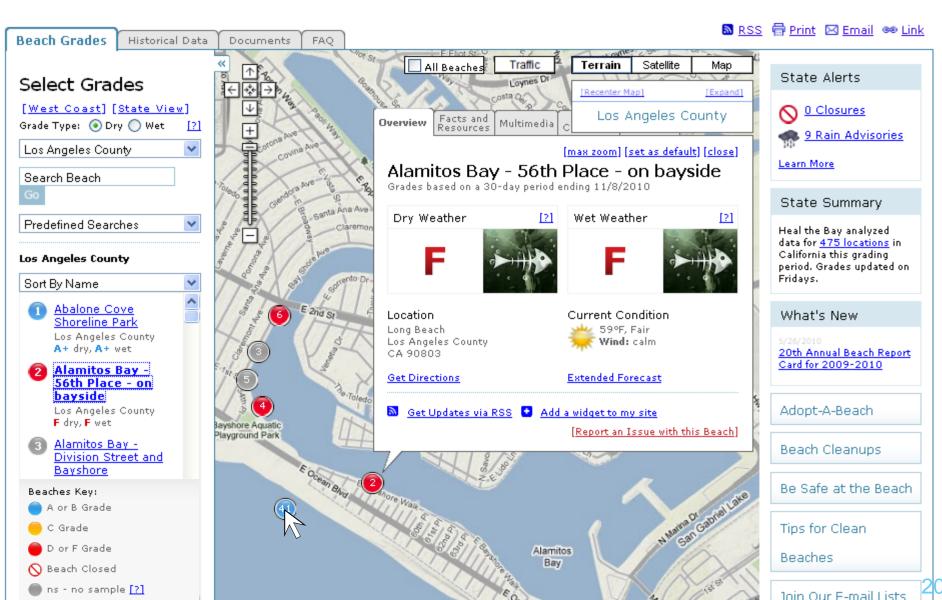


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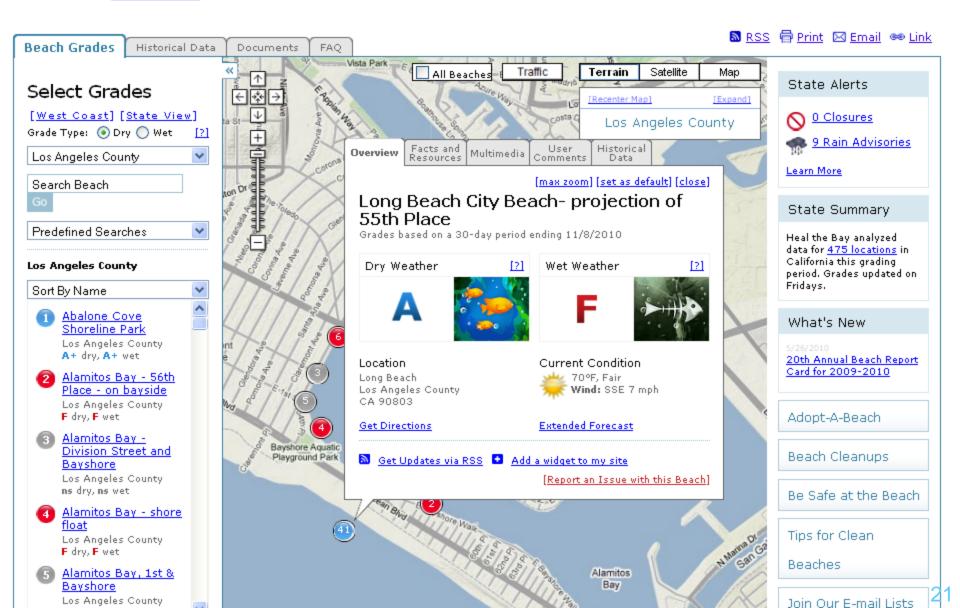


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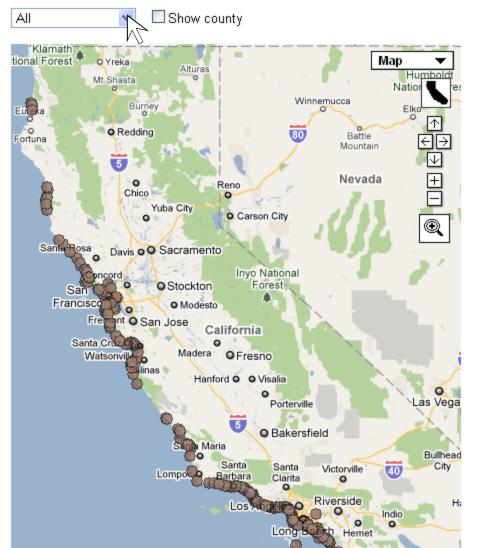
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What are the Long-Term Bacteria Trends at My Beach, Lake, or Stream?





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.

Red is the Single Sample Maximum *

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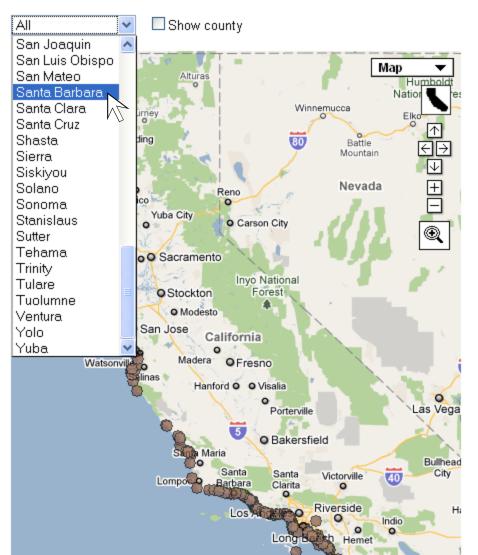
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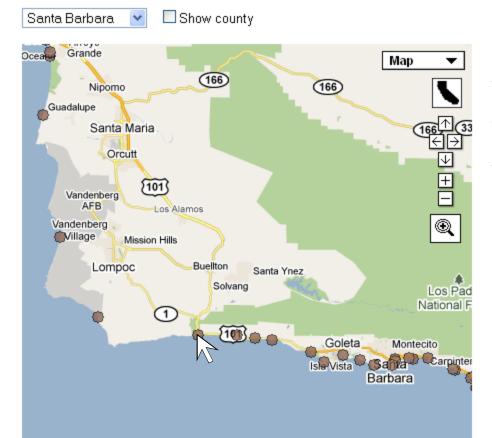
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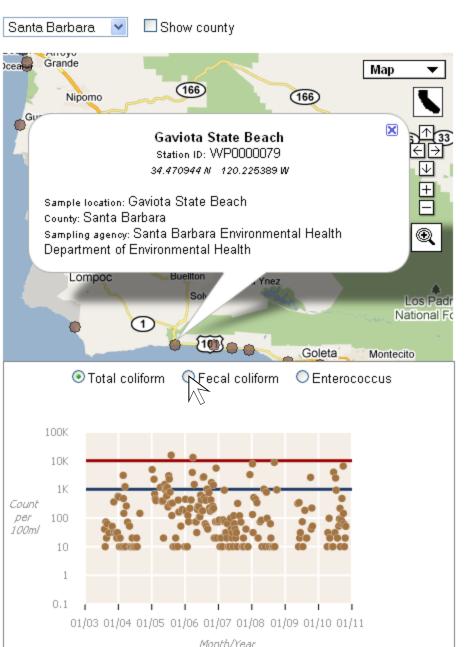
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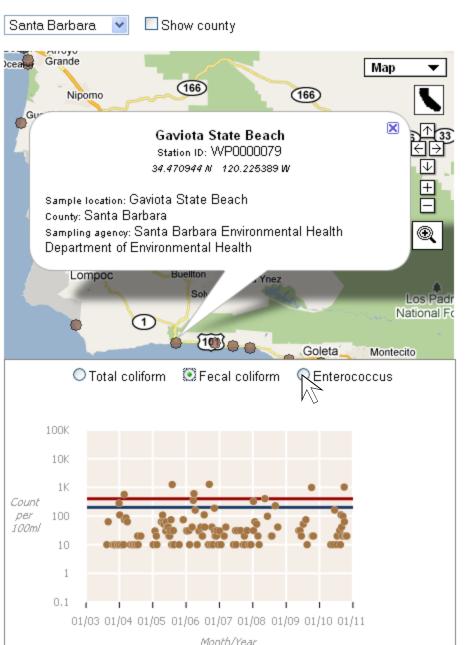
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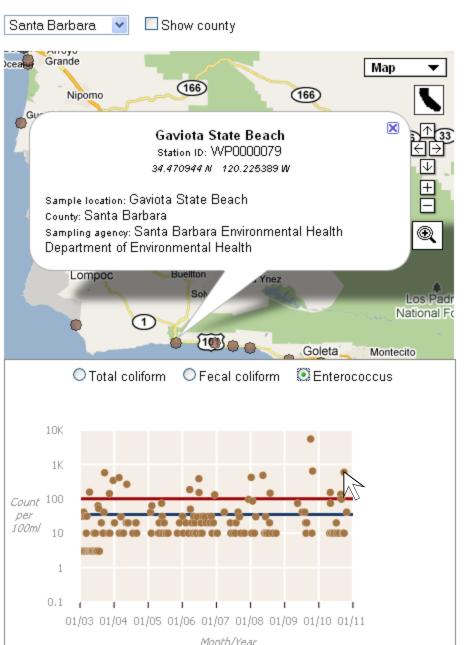
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Jerry Brown Visit his Website

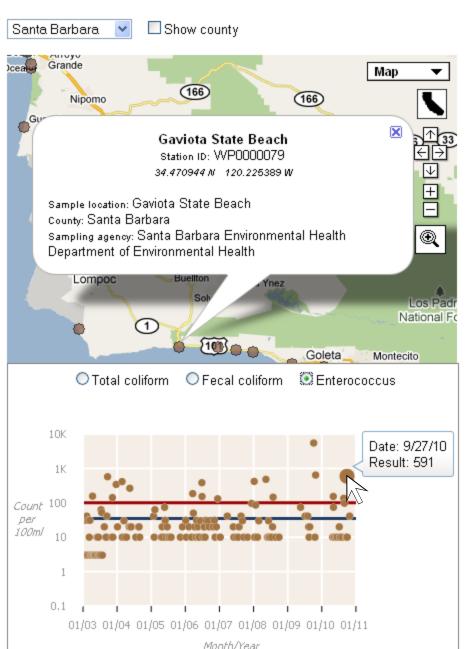
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Home → Safe To Swim → Impaired Beaches

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

Water Body:



All 🔻	▼
☐ Show county	
Willie	Hucca
Eureka	Map ▼
Fortuna Redding	Battle Mountain
	Mountain
Reno	Nevada 🔨
Chico	₹
Yuba City Carson City	Ψ
Capta Page	
Santa Rosa Davis O O Sacramento	
San Stockton Forest	
San Francisco O Modesto	
Fremont O San Jose California	
Santa Cruz	
Watsonville Madera O Fresno	
Hanford O O Visalia	
Porterville	Las Vegas
5 O Bakersfield	
Sarita Maria	Bullhead
Santa Santa Lompoc	Victorville 40 City
10 -	
Los Angeles a R	verside Ha
Long Bea	h Hemet
	O Oceanside

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

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

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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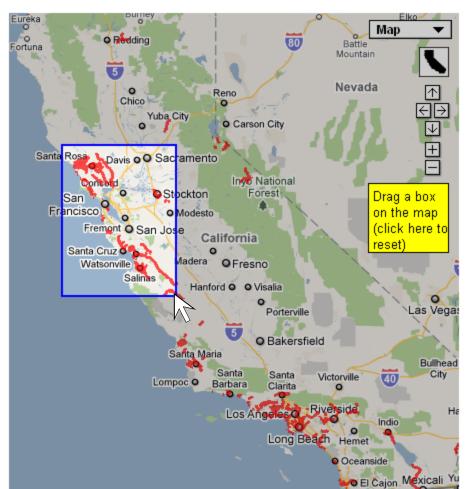
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County:		Water Body:	
All	-		-
Show county			



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



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Water Body:

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 303(d)</u> <u>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 federal Clean Water Act.

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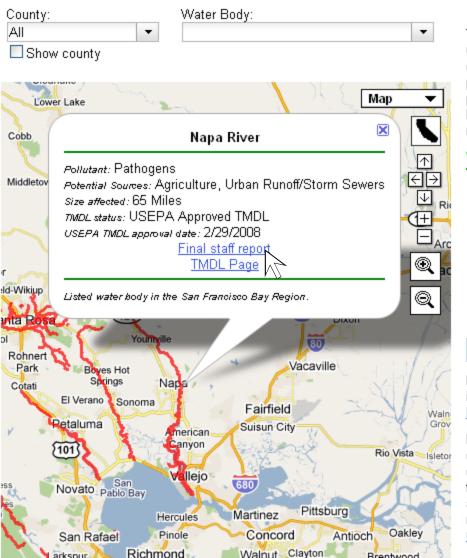
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Which Beaches, Lakes, and Streams Are Listed as Impaired for Bacterial Indicators?





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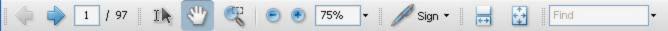
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Pathogens in the Napa River Watershed Total Maximum Daily Load (TMDL)

Staff Report



California Regional Water Quality Control Board San Francisco Bay Region





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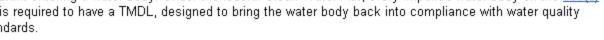
Are the Problems Getting Better?

A number of programs address existing water quality problems that affect swimming safety.

->> Clean Beaches Initiative Grant Projects California is committed to improving a reprotecting beaches along its coast. Since 2001, California has invested \$100 million in Clean Beache's mitiative grants to fund local projects that reduce bacterial contamination along the coast. The State has also funded research to develop more rapid detection methods for knowing when to post beaches, tracking the sources of contamination, and studies to better understand the relationship between bacterial indicators and incidence of disease.



Total Maximum Daily Loads (TMDLs) A Total Maximum Daily Load, is a regulation designed to improve water quality by controlling the amount of a pollutant entering a water body. Under the federal Clean Water Act, every impaired water body on the 303(d) list is required to have a TMDL, designed to bring the water body back into compliance with water quality standards.







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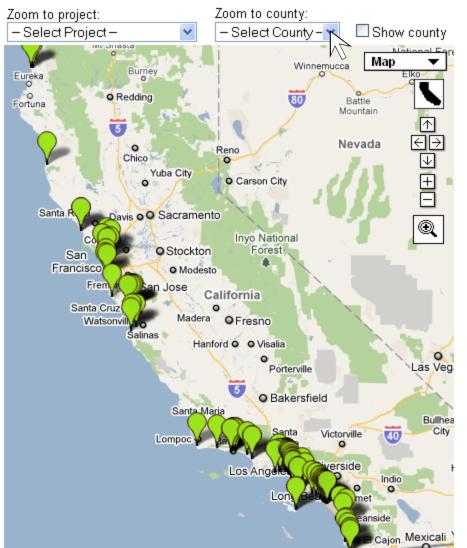


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Clean Beaches Initiative (CBI)





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

- For more information about a specific project, email <u>Patricia Leary</u> or phone (916) 341-5167
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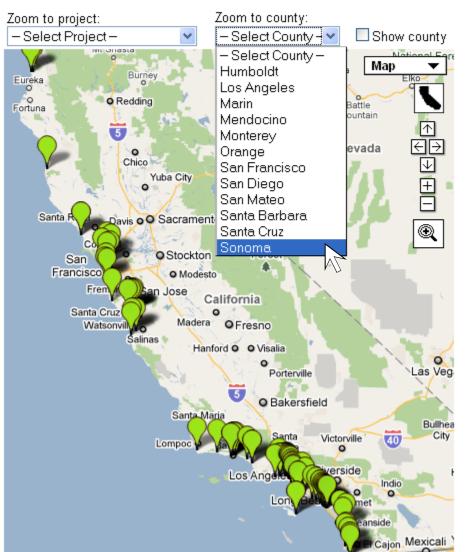
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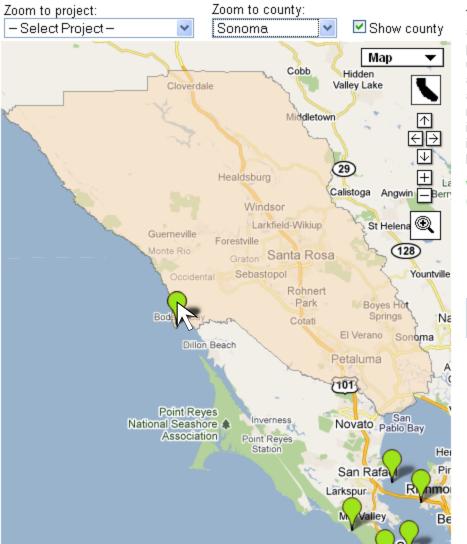
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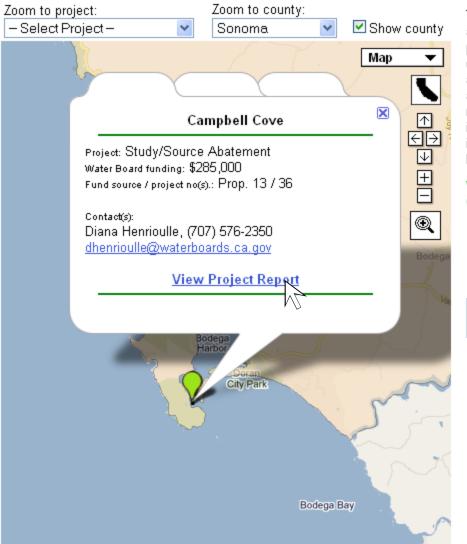
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Fecal Bacteria Source Identification Study at Campbell Cove State Beach, Bodega Bay

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 "Hole-in-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



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.







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Office of Governor Jerry Brown Visit his Website



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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. [Future Portal]



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>>

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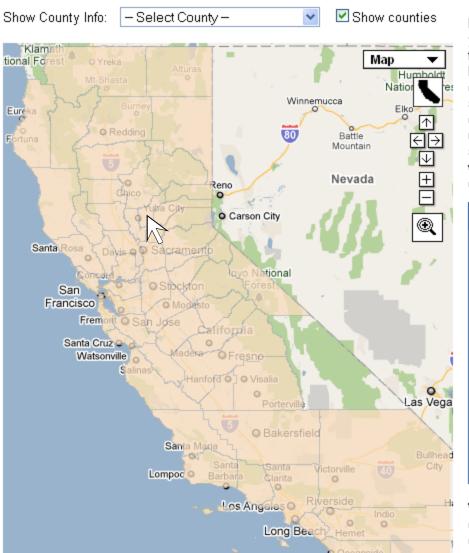
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Is It Safe to Eat Fish and Shellfish From Our Waters?





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

- Can I eat fish or shellfish caught in my lake, 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 41

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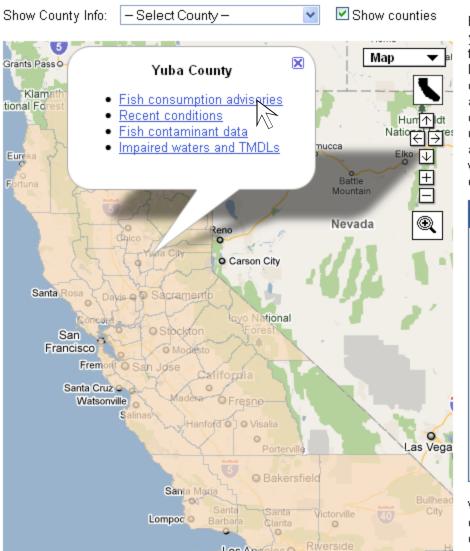
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Can I Eat Fish or Shellfish Caught in My Lake, Stream, or Ocean Location?



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Show county		



Fish and Shellfish Consumption Advisories by Location

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
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- ->> Enforcement Actions
- ->> Research
- Monitoring Programs, Data Sources & Reports
- ->> Statewide Perspective
- -> National Perspective

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



County:		Water Body:
Yuba	-	▼
Show county		



Fish and Shellfish Consumption Advisories by Location

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 box

MOST POPULAR LINKS

- 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 OFHHA

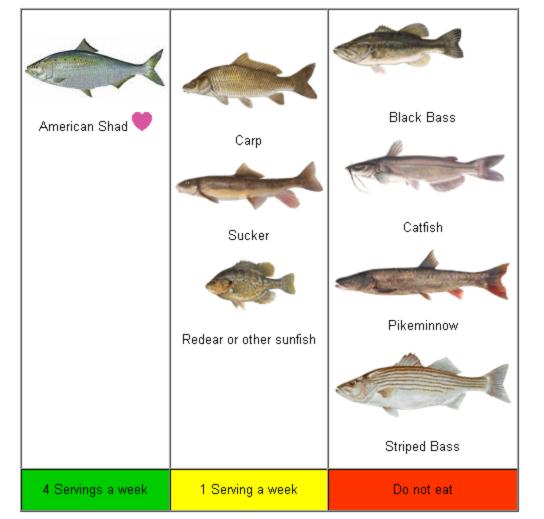
- ->> Help!
- ->> Contact OEHHA Staff

FISH

SAFE EATING GUIDELINES FOR FISH FROM THE LOWER FEATHER RIVER (BUTTE, YUBA AND SUTTER COUNTIES) [08/11/06, UPDATED 03/18/09]

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

- SEPA/FDA RECOMMENDATIONS FOR FISH CONSUMPTION
- ->> DEPARTMENT OF FISH AND GAME SPORT FISH REGULATION BOOKS
- ->> DEPARTMENT OF PUBLIC HEALTH FISH INFORMATION

45

- ->> SACRAMENTO-SAN JOAQUIN DELTA FISH MERCURY PROJECT
- ->> SOUTHERN

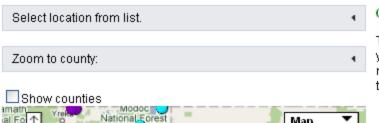


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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?





Мар Winnemucca Battle Mountain Nevada Watsonville Hanford O Mercury in Species Death Valley With Highest Avg National Park Porterville Concentration (ppm) Years: 2007 - 2008 Bakersfield >0.44 0.3 - 0.440.22 - 0.30.15 - 0.220.07 - 0.15<0.07 Change Thresholds 10 Europa Technologies, Google

Contaminant Data

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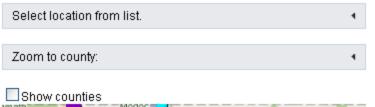


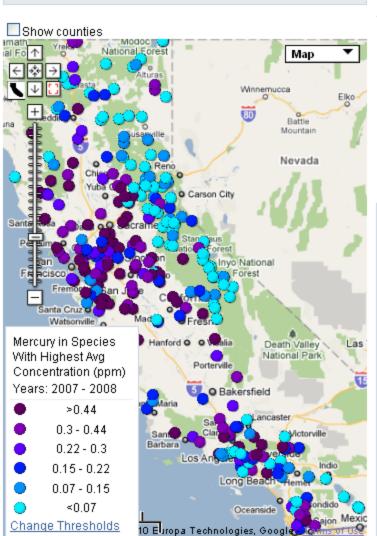
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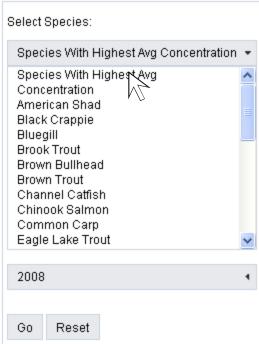






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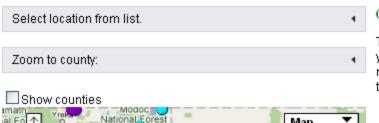


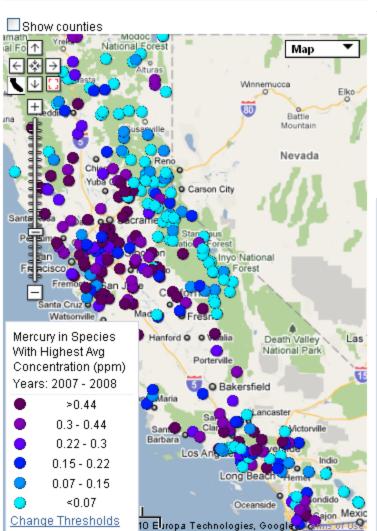
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0.22 - 0.3 0.15 - 0.22

0.07 - 0.15
 < 0.07
 Change Thresholds



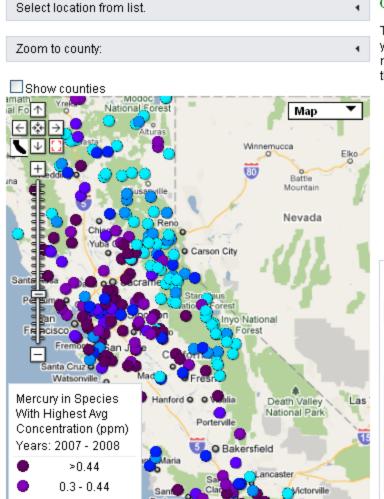
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- -> Assessment Thresholds
- -> Regulatory Activities
- ->> Enforcement Actions
- ->> Research
- Monitoring Programs, Data Sources & Reports
- Statewide Perspective
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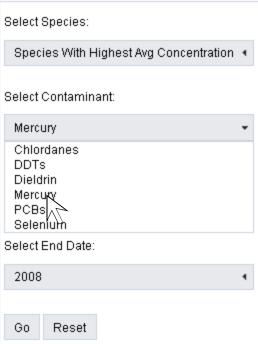




10 Europa Technologies, Google

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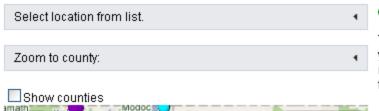


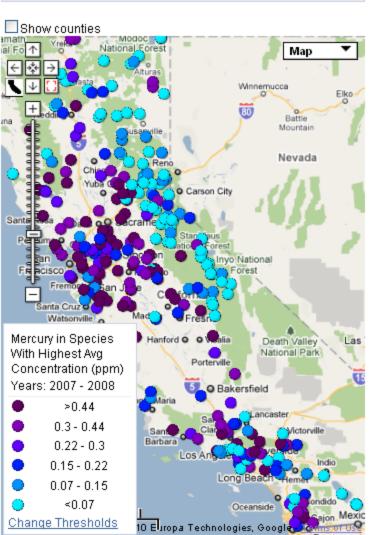
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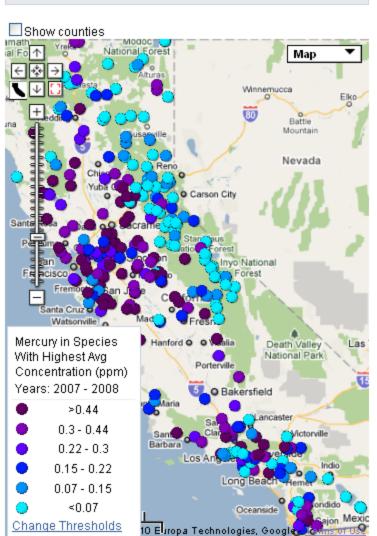
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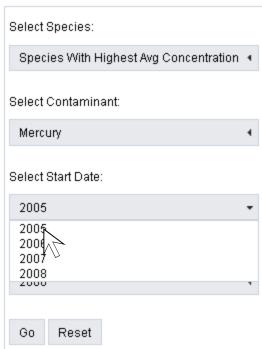






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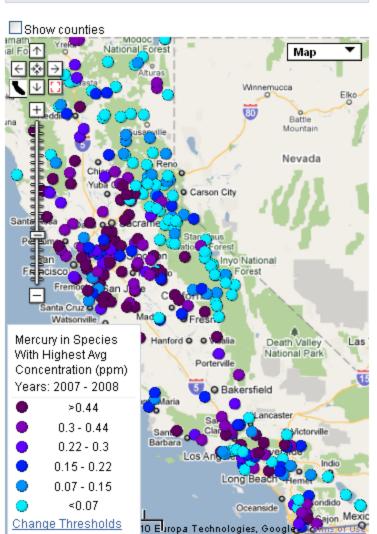
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Select Species:	
Species With Highest Avg Concentration	4
Select Contaminant:	
Mercury	4
Select Start Date:	
2005	4
Select End Date:	
2008	1
Gro. Reset	
1/2	

Mercury in Species

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

With Highest Avg



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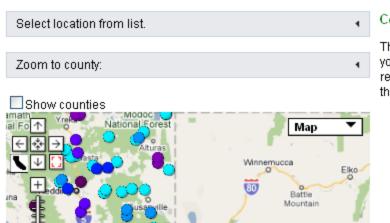
What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?

Nevada

Death Valley

National Park





Hanford O

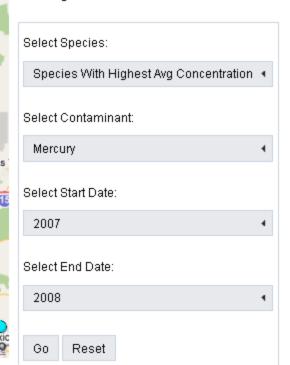
Porterville

10 Europa Technologies, Google

Bakersfield

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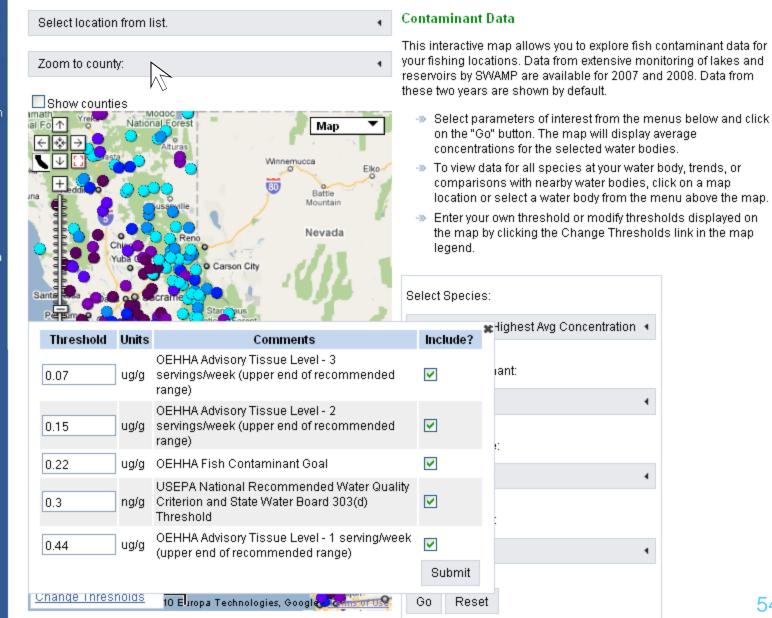


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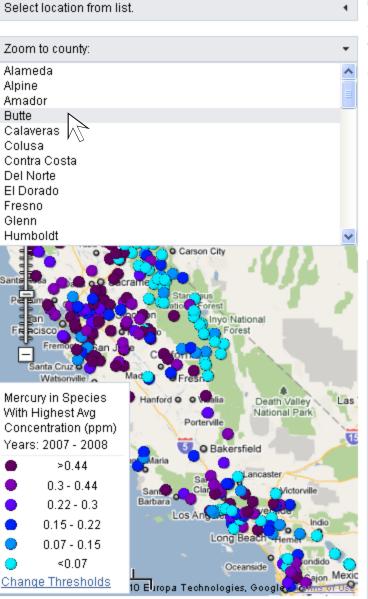


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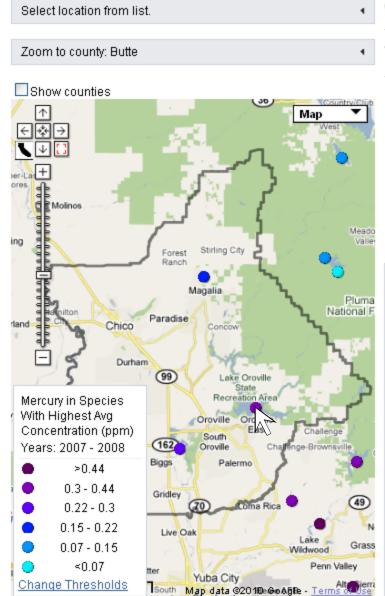


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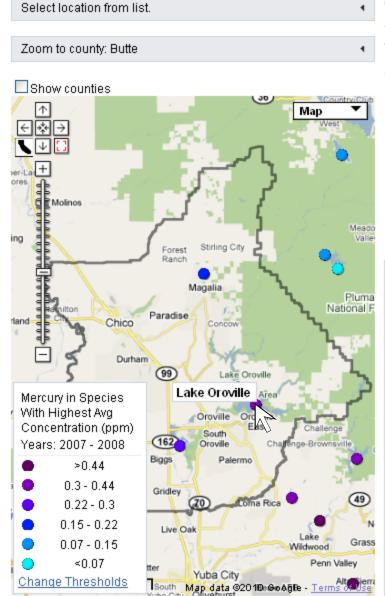


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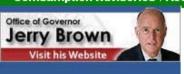
Select S	Species:	
Speci	es With Highest Avg Concentration	1
Select (Contaminant:	
Mercu	ry	4
Select S	Start Date:	
2007		4
Select E	End Date:	
2008		4
Go	Reset	

< 0.07

Change Thresholds

Yuba City

South Map data @2010e@eAgte - Terms



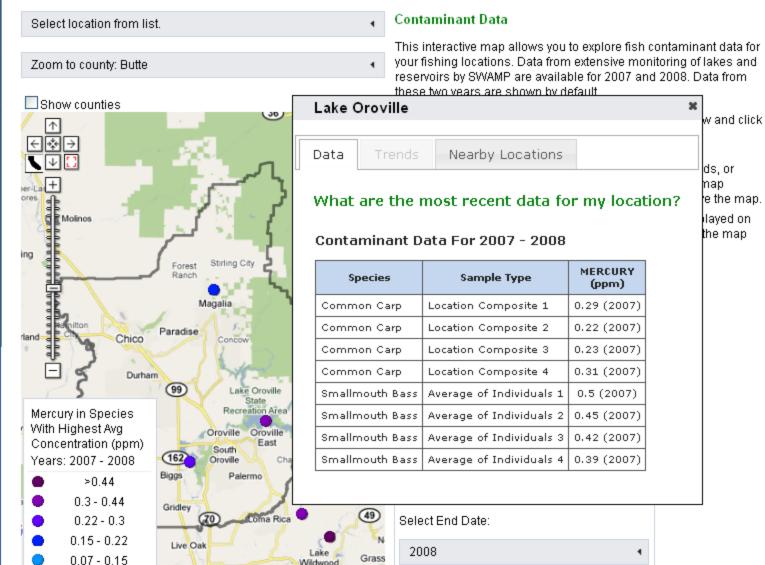
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Go

Reset

<0.07

Change Thresholds

Yuba City

South Map data @2010e@eAgRe - Terms of



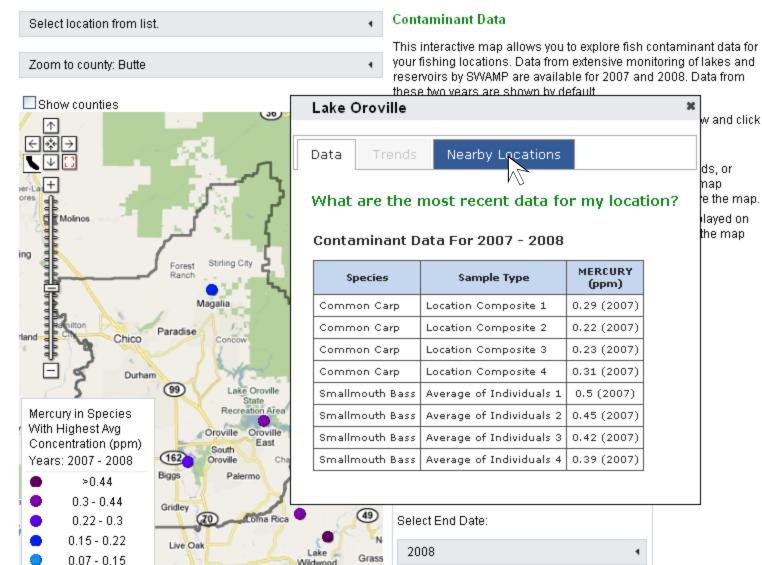
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What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?





Go

Reset

Lake Oroville

Data



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



Select location from list.

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

How does my location compare to nearby water bodies?

Nearby Locations

Change search parameters:

Nearby Water Body	Distance (mi)	Species	Mercury (ppm)
Thermalito Afterbay	14.07	Species With Highest Avg Concentration (Common Carp)	0.24 (2007)
Collins Lake	16.01	Species With Highest Avg Concentration (Largemouth Bass)	0.38 (2008)
Bullards Bar Reservoir	18.33	Species With Highest Avg Concentration (Largemouth Bass)	0.4 (2008)
Harry L Englebright Lake	21.19	Species With Highest Avg Concentration (Sacramento Sucker)	0.62 (2008)
Paradise Lake	22.72	Species With Highest Avg Concentration (Largemouth Bass)	0.16 (2008)
Bucks Lake	25.52	Species With Highest Avg Concentration (Rainbow Trout)	0.02 (2008)
Little Grass Valley Reservoir	25.94	Species With Highest Avg Concentration (Rainbow Trout)	0.02 (2008)
Lower Bucks Lake	26.45	Species With Highest Avg Concentration (Kokanee)	0.1 (2007)
Zayak/Swan Lake	32.74	Species With Highest Avg Concentration (Largemouth Bass)	0.98 (2007)
Scotts Flat Reservoir	33.25	Species With Highest Avg Concentration (Rainbow Trout)	0.03 (2008)





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Home ->> Safe To Eat ->> Impaired Waters

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



County:	Water Body:
All ▼	-
Show county	
Inamath Yreka National Nationa	Alturas Winnemucca Elko
	Reno Nevada +
Petaluma Concord	Stanislaus
San OSto	National Forest Inyo National Forest Forest
Santa Cruz O	California Madera OFresno
Salinas	Hanfor O Visalia Death Valley Las Vegas National Park Porterville 5 O Bakersfield City
	Santa Clarita Victorville
	Barbara Company Riverside Hava Indio
	Oceanside Calco Mexicali 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 C Cloop Water Act



- ->> Cal/EPA
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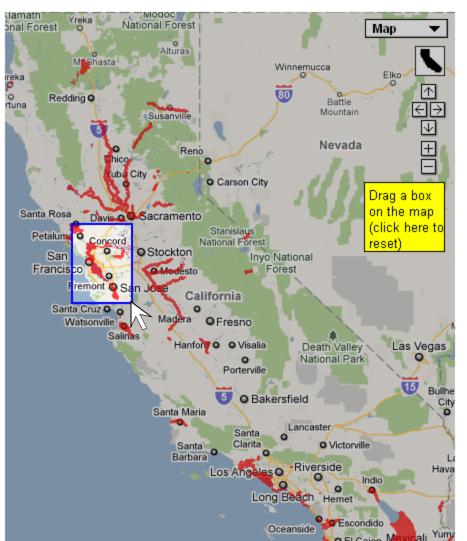
- Pollution Sources & Health Risks
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Home -- Safe To Eat -- Impaired Waters

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County:		Water Body:
All	•	▼
Show county		
	-51000	



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The State and Regional Water Water Boards
Boards assess water quality data for

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Office of Governor Jerry Brown Visit his Website

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SAFE TO EAT FISH LINKS

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



County:	Water Body:
All ▼	▼
☐ Show county	
- Show county	
	Office and
Lakeport Clear	
Kelseyville	Auburn
_ Cleanake	Lincoln
Cloverdale	505
Hidde	• O Heid A L
(101) Valley L	North
Healdsburg Calisto	
Windsor	Sacramento Parkway-South
Larkfield-Wikiup St.	Helena Sacramen +
0	Page Verguille
* 1 6 m	Napa O Elk Grove "
Rohner	Galt G
Petaluma	Fairfield V
Point Reyes	
National Novato O	A COLOR
Seasnore San R	Benicia o doakiey Stockton
	Berkeley Concord o Brentwood
	Manteca
San	Q Q Q akland Tracy o
Francis	CO Dublin Salida O
San Bri	
San M	Mateo O Fremont
	Patterson
	Redwood o Palo Alto
	City Suppoyale San Jose
	Odinity valo
	Los Gatos O Carripbell
	Scotts Morgan Hill
	Valley Gilroy
	Santa Cruz O Aptos Q
	Oliteriaken
	Watsonville Hollister
	Castroville

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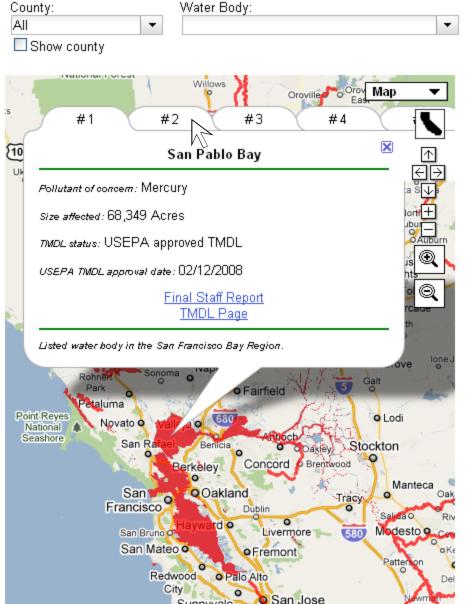
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Home ->> Safe To Eat ->> Impaired Waters

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





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 A Claan Water Act



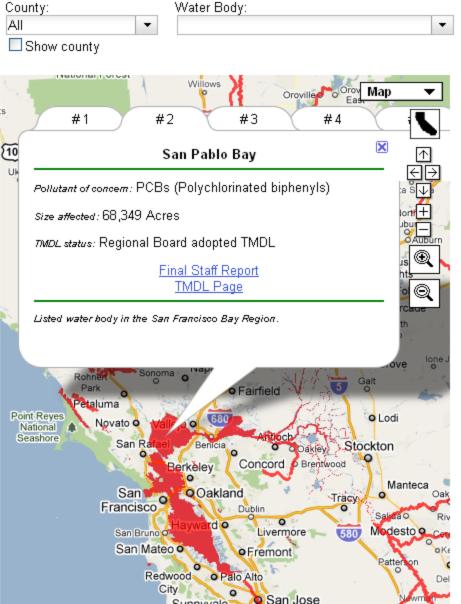
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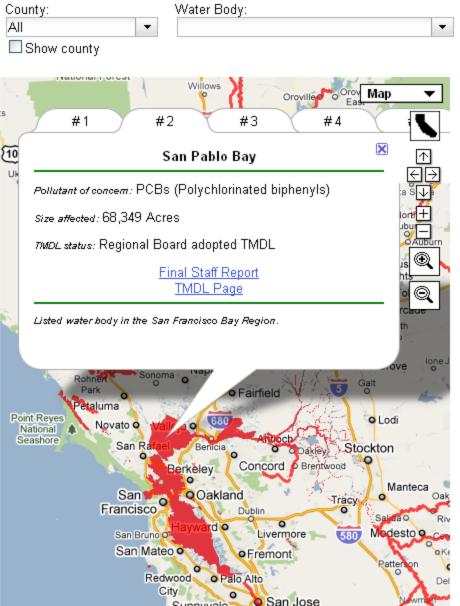
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Safe to Eat Fish & Shellfish Pollution Sources & Health Risks



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 hurning

Mines

Mercury

Silver

Gold

Click on Map to Enlarge

San Diego

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 57



State of California **ENVIRONMENTAL PROTECTION AGENCY** NATURAL RESOURCES AGENCY

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GO

California

CALIFORNIA WATER QUALITY MONITORING COUNCIL

Home Safe to Drink Safe to Swim Safe to Eat Fish Ecosystem Health Stressors & Processes Contact Us

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

Office of Governor Jerry Brown Visit his Website



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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. [Future Portal]



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>>



State of California

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ENVIRONMENTAL PROTECTION AGENCY

California



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Search

Wetlands | Estuaries | Streams, Rivers & Lakes | Ocean









→ Cal/EPA

- Natural Resources Agency
- About the California Water Quality Monitoring Council

AQUATIC HEALTH LINKS

- Stressors
- Laws, Regulations & Standards
- Regulatory Activities
- Enforcement Actions
- Research
- Monitoring Programs. Data Sources & Reports

Home → Aquatic Ecosystem Health

Are Our Aquatic Ecosystems Healthy?

California has many types of aquatic habitats. Follow the links below to learn more...



WETLANDS

Wetlands form a ong the shallow margins of deepwater ecosystems such as lakes, estuaries, and rivers. They also form in upland settings where groundwater or runoff makes the ground too wet for upland vegetation. More >>



ESTUARIES

Estuaries are unique habitats found where rivers and the ocean mix. They feature a diverse array of plants and animals adapted to life along this mixing zone. [Future Portal]



STREAMS, RIVERS & LAKES

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. California lakes, supporting deep water, wetlands, riparian woodlands, offer a quiet refuge for plants, animals and humans alike. [Future Portal]



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. [Future Portal]

CALIFORNIA WETLANDS

California

North Coast

Bay Area

Central Coast

South Coast

Central Valley

Lahontan

Colorado River Basin

Questions Answered

Background Info on Wetlands

About Wetlands Portal

Wetland Condition (CRAM)

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My Water Quality

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California Wetlands Monitoring Workgroup

Contact Us

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.

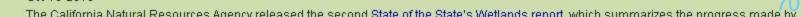
- Where are California's wetlands? Is there a wetland near me?
- How much wetland habitat does California have?
- How much wetland habitat has California lost?
- How healthy are California's wetlands?
- What is being done to improve California's wetlands?
- What is the status of wetland mapping in California?

Wetland Condition

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

News

Oct-18-2010





CALIFORNIA WETLANDS

California Bay Area

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Bay Area Wetland Information

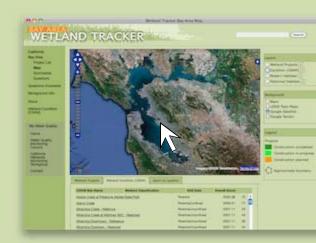
The California Wetlands Portal provides wetland scientists, managers, and the public information about the wetlands of selected regions of California. The Bay Area is one of several regions covered.

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 <u>summaries</u> of Bay Area wetland restoration activity
- · View answers to questions about Bay Area wetlands

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





Wetland Tracker Factsheet

CALIFORNIA WETLANDS

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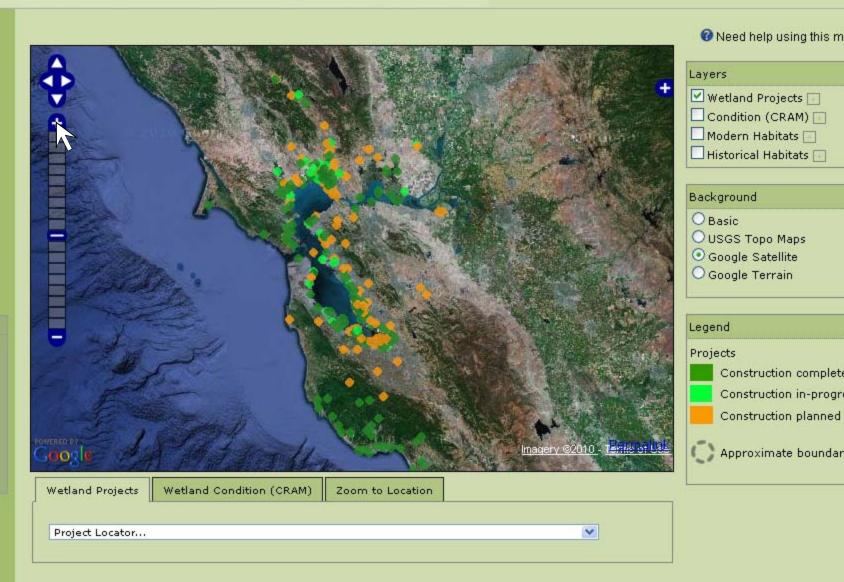
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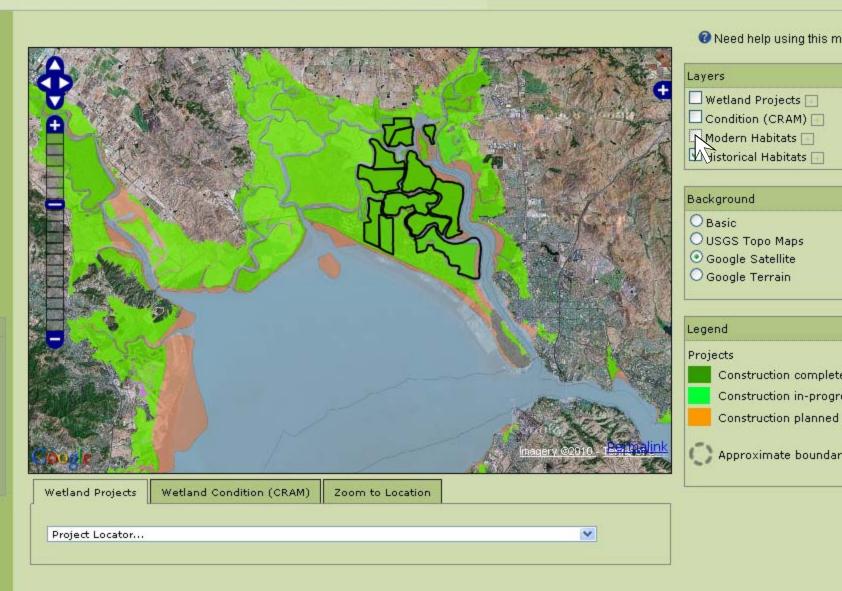
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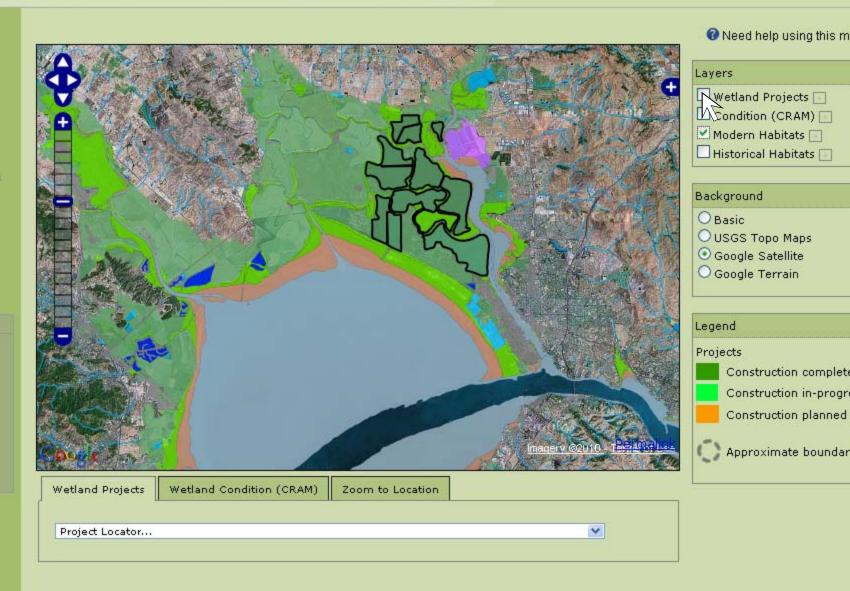
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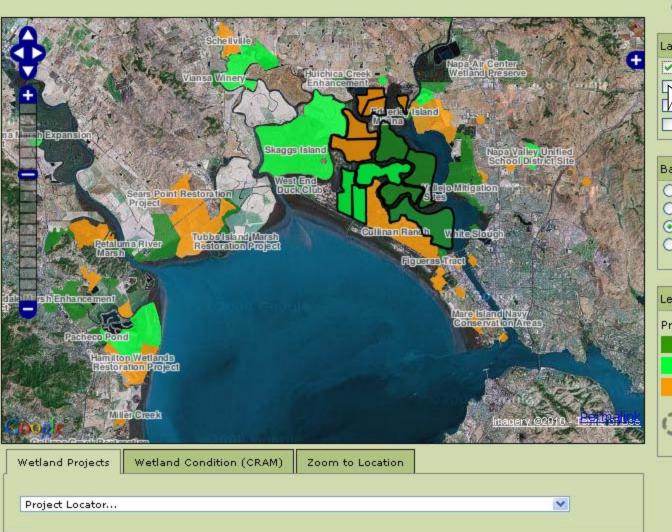
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Need help using this m Layers ✓ Wetland Projects Condition (CRAM) Modern Habitats Historical Habitats Background OBasic OUSGS Topo Maps Google Satellite O Google Terrain Legend Projects Construction complete Construction in-progra Construction planned

Approximate boundar

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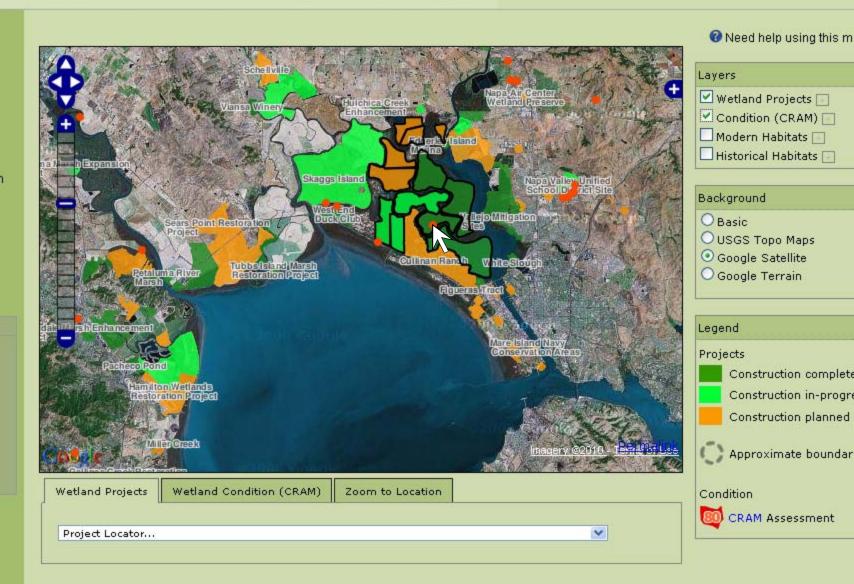
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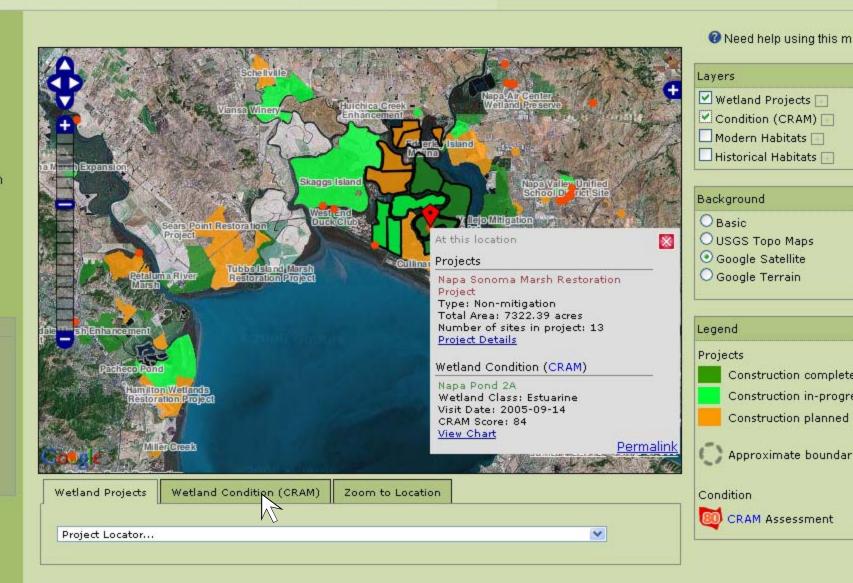
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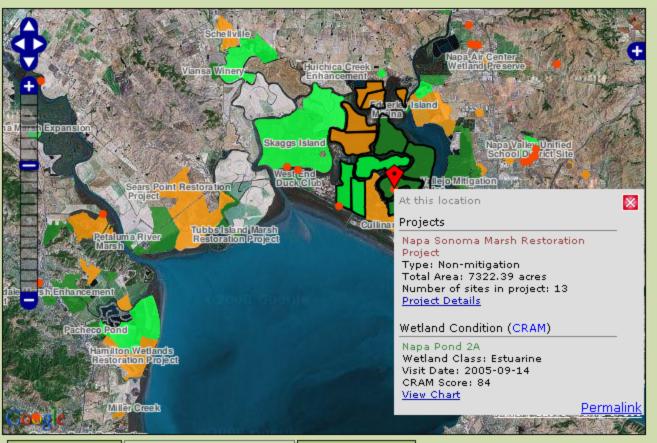
California Wetlands Monitoring Workgroup

Contact Us

Wetland Projects

Alhambra Creek at Martinez AEC - Restored

Alhambra Creek - Refernce



Overall Score **CRAM Site Name** Wetland Class Visit Date Above Anderson Dam- Shell Crossing Riverine Non-confined 2010-11-12 Above Coyote Lake Riverine Non-confined 2010-11-12 92 Adobe Creek at Petaluma Adobe State Park Riverine 2005-08-16 72 Alamo Creek Riverine Confined 2009-01-23 77 Alamo Creek Riverine Non-confined 2010-10-06 63

Zoom to Location

Riverine Unconfined

Riverine Unconfined

2007-11-18

2007-11-29

49

43

Wetland Condition (CRAM)

Need help using this m

Layers

- ✓ Wetland Projects

 →
- ✓ Condition (CRAM)

 ☐
- Modern Habitats 🗐 Historical Habitats 🗐

Background

- O Basic
- USGS Topo Maps
- Google Satellite
- O Google Terrain

Legend

Projects

Construction complete

Construction in-progra



Construction planned



Approximate boundar

Condition



Initial



Portals



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



ARE OUR AQUATIC ECOSYSTEMS HEALTHY?

- Wetlands March 2010
- Streams & Rivers mockup approved
- Marine Rocky Intertidal in construction
- Estuaries workgroup forming



IS OUR WATER SAFE TO DRINK?

Preliminary effort by GeoTracker GAMA

California Water Quality Monitoring Council

Water Quality Monitoring Council's Monitoring, Assessment, & Reporting Matrix

WATER BODY TYPE	BENEFICIAL USE				
	Aquatic Ecosystem Health	"Swimmable"	"Fishable"	"Drinkable"	Stressors & Processes
Streams	SWRCB, SWAMP Healthy Streams Partnership	thy Streams artnership	SWRCB, SWAMP Bioaccumulation Oversight Group	CDPH Drinking Water Program / DWR Water Quality Programs	All Workgroups
Rivers					
Lakes					
Estuaries	Estuary Monitoring Workgroup				
Ocean Waters	Ocean Protection Council	Beach Water Quality Workgroups		N/A	
Wetlands	Wetland Monitoring Workgroup	N/A		N/A	
Groundwater	N/A	N/A	N/A	SWRCB Groundwater Ambient Monitoring & Assessment Program / CDPH Drinking Water Program / DWR Water Quality Programs	

Opportunities and Benefits

- Deliver answers to the public
 - Underscore important work of agencies involved
- Provide framework to motivate and guide improvement
 - Reveal data gaps, lack of assessment tools, poor data integration, and other problems hamper statewide assessment
- Broader assessments possible through information sharing

Opportunities and Benefits (cont.)

- Automate agencies' annual reporting
- Allow decision makers, legislators, and public understand how their dollars are spent
 - Beyond bean counting Are conditions getting better?
 - Big picture status and trends
 - Access to information to guide future expenditures
- Collaboration improves efficiency of monitoring and assessment programs
- Transparency builds credibility

California's Comprehensive Monitoring Program Strategy



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

CA Estuary Monitoring Workgroup Monitoring Council Direction

- Endorsed proposal to
 - Form California Estuary Monitoring Workgroup
 - Develop California Estuaries Portal
- Initial focus on SF Bay-Delta
- Include statewide focus from the beginning
 - Be open to participants representing monitoring and assessment efforts in other California estuaries

CA Estuary Monitoring Workgroup Assessment Questions Drive Portal

- What are Estuaries?
 - What is the SF Estuary?
 - Location and extent of the resource
 - Dept of Water Resources Delta Atlas
 - Water Education Foundation Aquafornia web portal
 - Habitats/ecosystems, flooding, levees
 - Importance to California -- Water supply; Fishery
- What is the status of SF Estuary health?
 - Fish tissue BOG & other studies
 - Water Quality
 - Fish population / food web / POD synthesis report
 - Report Card integrate indicators
- What are the trends in SF Estuary health?
 - Historic Bay/Delta habitats guide for ecosystem restoration?
 - Recent regime shift
- What is being done to make the estuary better?
 - Is it working?
 - Wetland restoration link to wetland portal