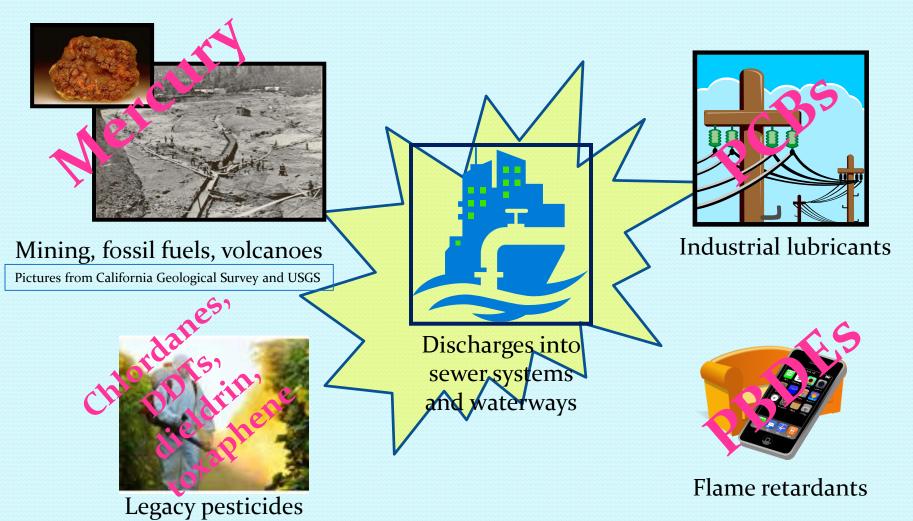


# Fish Advisory Program



Lori Chumney Office of Environmental Health Hazard Assessment for Tribal Advisory Committee Meeting 12/13/17

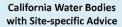
### Chemicals of Concern and Health Risks





### Eat Fish • Eat Smart • Choose Wisely

A Healthy Guide to Eating Fish in California

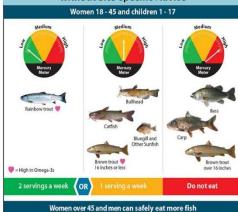




### Water Bodies with Fish Consumption Advice

59	Alamitos Creek	78	Elkhorn Slaugh	54	Lake Oroville	41	Rollins Reservoir
81	Alamo River	23	Englebright Lake	34	Lake Pillsbury	9	Sacramento River
12	Almaden Reservoir	24	Folsom Lake	71	Lake Piru	42	Salton Sea
13	Anderson Reservoir	73	French Meadows Reservoir	92	Lake San Antonio	62	San Diego Bay
4	Bear Creek	58	Guadalupe Creek	35	Lake Sonoma	43	San Francisco Bay
14	Black Butte Lake	25	Guadalupe Reservoir	36	Lewiston Lake	1	San Joaquin River
15	Bon Tempe Reservoir	57	Guadalupe River	72	Lexington Reservoir	44	San Pablo Reservoir
5	Cache Creek	74	Hell Hole Reservoir	66	Little Rock Reservoir	76	Santa Monica Beach to Seal Beach
16	Calero Reservoir	91	Jenkinson Lake	37	Lodi Lake	77	Seal Beach to San Mateo Pt
68	Camanche Reservoir	26	Lafayette Reservoir	8	Lower American River	69	Shadow Cliffs Lake
64	Camden Ponds	27	Lake Berryessa	10	Lower Cosumnes River	89	Shasta Lake
17	Camp Far West Reservoir	28	Lake Chabot	79	Lower Feather River	61	Silverwood Lake
18	Carville Pond	29	Lake Combie	11	Lower Mokelumne River	45	Soulajule Reservoir
86	Castaic Lagoon	83	Lake Evans	56	Magic Johnson Lakes	47	Stevens Creek Reservoir
87	Castaic Lake	84	Lake Gregory	63	Mission Bay	48	Stony Gorge Reservoir
20	Clear Lake	90	Lake Havasu	94	New Bullards Bar Reservoir	67	Thermolito Forebay / Afterbay
85	Coastal	30	Lake Herman	88	New Hogan lake	49	Tomales Bay
21	Del Valle Reservoir	52	Lake McClure	70	New Melones Reservoir	50	Trinity Lake
19	Delta, Central and South	53	Lake McSwain	82	New River	3	Trinity River
40	Delta, Northern	31	Lake Mendocino	39	Nicasio Reservoir	80	Upper Feather River Region
51	Donner Lake	95	Lake Merced (North Lake)	60	Oso Flaco Lake	65	Vasona Lake
2	East Fork Trinity River	32	Lake Nacimiento	7	Putah Creek	75	Ventura Harbor to Santa Monica P
22	East Park Reservoir	33	Lake Natoma	55	Pyramid Lake	93	Wiest Lake

### **Advisory for California Lakes and Reservoirs** without Site-specific Advice



2 serving a week

1 serving a week



6 servings a week

For more information or details on site-specific advisories: www.oehha.ca.gov/fish • (916) 324-7572 • fish@oehha.ca.gov

### Why eat fish?

- · Eating fish is good for your health
  - · Reduces your risk for heart disease
  - · Improves how the brain develops in unborn babies and children

### What is the concern?

· Some fish have high levels of the harmful chemicals mercury and PCBs

### What can I do?

- · Eat only the skinless filet
- · Check OEHHA's website (www.oehha.ca.gov/fish) for advice on which sport fish to eat and how often
- · Follow recommendations based on your age and
  - Women 18-45 years and children 1-17 years
  - · Women 46+ years and men 18+ years

## How OEHHA Develops Advice

- Based on results of testing fish samples for certain chemicals
- How much fish can be safely eaten using advisory tissue levels (ATLs)
- ATLs based on studies of health effects of fish contaminants
  - If followed, keeps exposure at or below a safe level
- Need adequate sample sizes

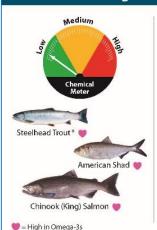
# What determines how and why testing of fish will occur?

For advisories at a specific water body:

- OEHHA relies on data collected by others (e.g., Water Board) for fish advisories and other purposes
  - E.g., Surface Water Ambient Monitoring Program (SWAMP)
- Suspected health hazard
- Other possible factors
  - Fishing pressure
  - Permit requirements
- Resource availability for sampling and analysis

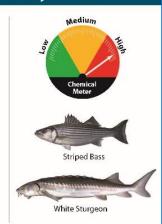
A guide to eating American shad, Chinook (king) salmon, steelhead trout, striped bass, and white sturgeon caught in California rivers, estuaries, and coastal waters

### Women ages 18 - 45 and children ages 1 - 17 years old





There are no fish with medium levels of chemicals



Safe to eat 2-3 servings per week

Safe to eat 1 serving per week

Do not eat

Men over age 17 and women over age 45 can safely eat more fish

Safe to eat 7 servings per week — American shad, Chinook (king) salmon, or steelhead trout OR

> Safe to eat 2 servings per week - striped bass OR

Safe to eat 1 serving per week - white sturgeon

### Why eat fish?

have Omega-3s that can reduce your risk for heart disease and improve how the brain develops in unborn babies

### What is the concern?

Some fish have high levels of mercury and PCBs. Mercury can for women who are pregnant or breastfeeding to follow these guidelines. PCBs might cause cancer.

What is a serving?





For Adults For Children

These guidelines do not apply to these fish caught in lakes or reservoirs.

\* Note: It is only legal to keep hatchery steelhead and only in selected waters. Hatchery steelhead are identified by a missing adipose fin and healed scar in the location of the missing fin. All wild steelhead must be released unharmed.

Check California Department of Fish and Game Regulations (www. dfg.ca.gov/regulations/) for salmon, steelhead, striped bass, and white sturgeon, including legal sizes, bag and possession limits, and seasons. which can vary from year to year.

### A Guide to Eating Fish from the California Coast

Advisory for Areas Without Site-specific Advice

### Women 18 - 45 years and Children 1 - 17 years



6 total servings a week



Do not eat

Sharks

High-Mercury Rockfish

### Women 46 years and older and Men 18 years and older







OR 2 total servings a week OR 6 total servings a week

Croaker species include: White and Yellowfin Small Flatfish species include: Diamond Turbot, Longfin Sanddab, Speckled Sanddab, Spotted Turbot

Medium-Mercury Rockfish species include: Black Blue, Brown, Kelp, Olive, Rosethorn, and Vermillion High-Mercury Rockfish species include: Black and Yellow, China, Copper and Gopher

Very Low-PCB Surfperch species include: Barred, Black, Pile, Rainbow, Spotfin, and White Low-PCB Surfperch species include: Shiner, Silver, and Walleve

1 total serving a week

### What is a serving?



For Adults For Children

### Why eat fish?

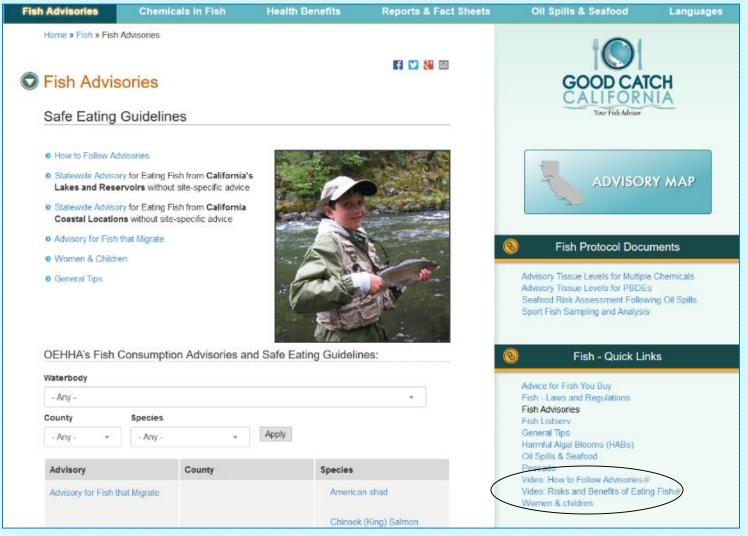
Eating fish is good for your health.

### What is the concern?

Do not combine advice. If you eat 2 servings of fish from the "2 total servings per week group", do not eat any other fish that week from any source (caught or store bought).

California Office of Environmental Health Hazard Assessment • www.oehha.ca.gov/fish • (916) 324-7572 • fish@oehha.ca.gov

### www.oehha.ca.gov/fish/advisories



### San Luis Reservoir

Oct 24, 2017

Advisory based on mercury and PCBs.

### Waterbody

### San Luis Reservoir

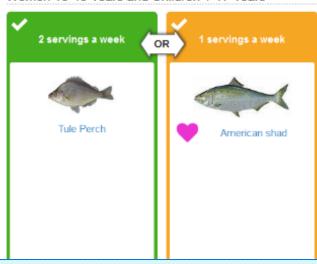
County:



### Downloads

- Poster San Luis Reservoir Fish Advisory Oct 24, 2017
- Poster San Luis Reservoir Fish Advisory in Spanish (en Español) Oct 24, 2017
- Fact Sheet San Luis Reservoir Fish Advisory Oct 24, 2017
- Report San Luis Reservoir Fish Advisory Oct 24, 2017
- Press Release San Luis Reservoir Fish Advisory Oct 24, 2017

Women 18-45 Years and Children 1-17 Years









### Fish Protocol Documents

Advisory Tissue Levels for Multiple Chemicals Advisory Tissue Levels for PBDEs Seafood Risk Assessment Following Oil Spills Sport Fish Sampling and Analysis

### Fish - Quick Links

Advice for Fish You Buy Fish - Laws and Regulations

Fish Advisories

Fish Listserv

General Tips

Harmful Algal Blooms (HABs)

Oil Spills & Seafood

Pescado

Video: How to Follow Advisories ₽

Video: Risks and Benefits of Eating Fish®

Women & children



### **OEHHA Links**

About OEHHA Biomonitoring ₽



Women (18-45 Years)

Children (1-17 Years)

TOTAL **SERVINGS** A WEEK

OR

TOTAL **SERVING** A WEEK

DO NOT

Women (46+ Years)

Men (18+ Years)

TOTAL SERVINGS A WEEK

OR

TOTAL **SERVINGS** A WEEK

OR

TOTAL SERVING A WEEK

### **Serving Size**

A serving of fish is about the size and thickness of your hand. Give children smaller servings.

For Adults



For Children



### A GUIDE TO **EATING FISH** from

SAN LUIS RESERVOIR

(MERCED COUNTY)

### Eat the Good Fish

Eating fish that are low in chemicals may provide health benefits to children and adults.



### Avoid the **Bad Fish**

Eating fish with higher levels of chemicals like mercury or PCBs may cause health problems in children and adults.



### Choose the Right Fish

Chemicals may be more harmful to unborn babies and children.











**Common Carp** 



**Black Bass Species** 



California Office C. Health Hazard Assesment **California Office of Environmental** 

web www.oehha.ca.gov/fish email fish@oehha.ca.gov phone (916) 324-7572

### Eat only the skinless fillet



Eat only the meat



Some chemicals are higher in the skin, fat, and guts.

# How can OEHHA and Tribes collaborate on advisories?

- Communicating advice
  - Pictorials are the easiest way to convey information
    - All advisories should have updated pictorials posted on our website by the end of 2018
    - We can assist with printing
- Advisory development
  - Open to Tribal input

# OEHHA and Tribal Collaboration Example: Clear Lake



### A Healthy Guide to Eating Fish and Shellfish from Clear Lake Women 18-45 years and children 1-17 years Bluegill or Blackfish Inland silverside other sunfish Largemouth Bass Bullhead Threadfin shad Catfish Asian clam Crayfish Winged floater mussel Mosquitofish Prickly sculpin 3 servings a week OR 7 servings a week-1 serving a week Do not eat clams or mussels What is a serving? Why eat fish? Eating fish is good for your health. Fish have Omega-3s that can reduce your risk for heart disease and improve how the brain develops in unborn babies and children. What is the concern? For adults For children Some fish have high levels of mercury. The recommended serving is Mercury can harm the brain, especially in unborn babies and the size and thickness of your hand. Give children smaller children. Women over 45 years and men have lower risk and can eat more fish. California Office of Environmental Health Hazard Assessment • www.oehha.ca.gov/fish.html • (916) 327-7319 or (510) 622-3170

# Clear Lake Advisory

Please contact OEHHA with questions and concerns

## Questions/Comments?

- We want your input!
- How can we best serve Tribes in developing advisories and providing information to your community?
- For more information, please contact:
  - Susan Klasing: susan.klasing@oehha.ca.gov
  - Lori Chumney: lori.chumney@oehha.ca.gov

www.oehha.ca.gov/fish/advisories