

# Contra Costa Clean Water Program

## Fish Risk Reduction Program for Mercury and PCBs: 2022 Status Report

*Submitted to the San Francisco Bay  
Regional Water Quality Control Board*

*In Compliance with NPDES Permit Provision C.11.e & C.12.h  
Municipal Regional Stormwater Permit (Order No. R2-2015-0049)*

August 2022



CONTRA COSTA  
**CLEAN WATER**  
PROGRAM

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***Prepared for***

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255 Glacier Drive  
Martinez, California 94553

***Contra Costa Clean Water Program Participants***

- Cities of: Antioch, Brentwood, Clayton, Concord, Danville (Town), El Cerrito, Hercules, Lafayette, Martinez, Moraga (Town), Oakley, Orinda, Pinole, Pittsburg, Pleasant Hill, Richmond, San Pablo, San Ramon, and Walnut Creek
- Contra Costa County
- Contra Costa County Flood Control & Water Conservation District

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## ACRONYMS AND ABBREVIATIONS

Bay Area	San Francisco Bay Area
CCCWP	Contra Costa Clean Water Program
CDFW	California Department of Fish and Wildlife
CVRWQCB	Central Valley Regional Water Quality Control Board
Delta	Sacramento-San Joaquin River Delta
FY	Fiscal Year
MRP	Municipal Regional Stormwater Permit
NPDES	National Pollutant Discharge Elimination System
OEHHA	California Office of Environmental Health Hazard Assessment
PCBs	polychlorinated biphenyls
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board

# 1 INTRODUCTION

The Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit (MRP) (SFBRWQCB, 2015) requires Permittees to conduct an ongoing risk reduction program to address public health impacts of mercury and PCBs in fish within the San Francisco Bay and Sacramento-San Joaquin River Delta (Delta). In each fiscal year (July 1-June 30), the Contra Costa Clean Water Program (CCCWP), in conjunction with the California Office of Environmental Health Hazard Assessment (OEHHA), conduct and maintain a public health outreach program designed to reach a minimum of 3,000 individuals annually who are likely consumers of San Francisco Bay or Delta-caught fish.

This status report provides an overview of the Fish Risk Reduction Program and summarizes progress achieved by CCCWP during fiscal year (FY) 2021-2022. The report highlights ongoing activities, suggestions for outreach improvements, and considers options to maximize the program's effectiveness since being implemented under the MRP.

## 1.1 MRP Provision

Contra Costa County lies within the jurisdictions of both the San Francisco Bay (Region 2) and Central Valley (Region 5) Regional Water Quality Control Boards (SFBRWQCB and CVRWQCB, respectively). Municipal stormwater discharges in Contra Costa County are regulated by the requirements of the MRP for urban stormwater in Region 2 (Order No. R2-2019-0004). This progress report is in compliance with the reporting requirements specified in provisions C.11.e and C.12.h of the MRP, as issued by SFBRWQCB Order No. R2-2015-0049 and amended by Order No. R2-2019-0049, which incorporates the eastern portion of Contra Costa County within the requirements of the MRP.

## 1.2 Task Description

The Fish Risk Reduction Program was designed to raise awareness and address public health impacts from PCBs and mercury in San Francisco Bay and Central and South Sacramento-San Joaquin River Delta fish by:

- Taking action to reduce actual and potential health risks in people and communities most likely to consume San Francisco Bay/Delta-caught fish, such as subsistence fishers, recreational anglers, and their families.
- Working with local health departments, regional parks, and Permittees to coordinate resources for the program to target at-risk populations.

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## 2 APPROACH

The Fish Risk Reduction Program is designed to provide public awareness of the risks involved with consuming fish caught in the San Francisco Bay and Central and South Sacramento-San Joaquin River Delta Regions. In order to achieve this goal, CCCWP identified locations where individuals who catch fish are likely to frequent. The locations include local harbors and marinas (Table 1), bait, tackle, and fishing supply stores (Table 2), and fishing piers and regional park shoreline locations (Table 3). All outreach locations listed in Tables 1 and 2 are contacted twice annually to provide each location with the appropriate type and quantity of brochures or posters (Attachment 1). Brochures and posters are then kept on display at marina informational kiosks and storefront countertops.

The following locations (Tables 1 and 2) were contacted twice during FY 2021-2022, once during the fall, and again the following spring. Where applicable, CCCWP staff also conducted status checks on marina kiosks to confirm posted material at information kiosks had not been vandalized and was still currently available.

<b>Location</b>	<b>Address</b>
Antioch Marina	1 Marina Plaza, Antioch
New Bridge Marina	6325 Bridgehead Road, Antioch
Piper Point Marina	3861 Willow Road, Bethel Island
Bethel Harbor	3405 Harbor Road, Bethel Island
Bethel Island Marina	6050 Bethel Island Road, Bethel Island
New Anchor Marina	1970 Taylor Road, Bethel Island
New Life Marina	1200 Taylor Road, Bethel Island
Sugar Barge Resort and Marina	1440 Sugar Barge Road, Bethel Island
Russo's Marina	3995 Willow Road, Bethel Island
Emerald Point Marina	4262 Windsweep Road, Bethel Island
Cruiser Haven Yacht Club	7000 Orwood Road, Brentwood
Holland Riverside Marina	7000 Holland Tract Road, Brentwood
Lazy M Marina	5050 Clifton Court Road #C, Discovery Bay
Discovery Bay Yacht Harbor	5901 Marina Road #1, Discovery Bay
Martinez Marina	7 North Court Street, Martinez
Big Break Marina	100 Big Break Road, Oakley
Hennis Marina	3255 Wells Road, Oakley
Pittsburg Marina	51 Marina Boulevard, Pittsburg
Marina Bay Yacht Harbor	1340 Marina Way S, Richmond
Brickyard Cove Marina	1160 Brickyard Cove Road Suite 110, Richmond
Rodeo Marina	2 Pacific Avenue, Rodeo

**Table 2. Outreach Locations at Bait, Tackle, and Fishing Supply Stores**

Location	Address
Gotcha Bait and Tackle	3500 E 18 <sup>th</sup> Street, Antioch
Lost Anchor Bait & Tackle	1001 McAvoy Road, Bay Point
Gateway Gas and Mart	3615 Gateway Road, Bethel Island
The Bass Hole	6277 Bethel Island Road, Bethel Island
Orwood Resort and Bait Shop	4451 Orwood Road, Brentwood
Bay Tackle	5815 Cutting Boulevard, El Cerrito
Gas 'n Save	1541 East Cypress Road, Oakley
Hook, Line & Sinker	3100 Main Street #260, Oakley
Marina Emporium	5993 Bethel Island Road, Oakley
Fisherman's Catch	27 Marina Boulevard, Pittsburg
City Arms East	60 Golf Club Road #B, Pleasant Hill
Creative Sports	1712 Linda Drive, Pleasant Hill
Rodeo Bait & Tackle	205 Pacific Avenue, Rodeo
Rodeo Sport & Liquor	133 Parker Avenue, Rodeo

In addition to outreach locations at harbors, marinas, and local fishing supply stores, CCCWP Permittees, in coordination with Contra Costa Health Services and the East Bay Regional Parks District, collectively implemented fish risk reduction activities by posting, maintaining, and inspecting fish consumption warning signs on an annual basis at the fishing piers and regional shoreline locations listed in Table 3. During FY 2019-2020, CCCWP coordinated with OEHHA on receiving updated graphics for custom metal signs to display at San Francisco Bay and Sacramento-San Joaquin River Delta fishing piers and regional shorelines. With the updated signs, CCCWP worked with Permittees and East Bay Regional Parks District managers to install updated metal signs at fishing piers and popular fishing shorelines throughout the county. Photo documentation showing an update of sign installations during FY 2021-2022 is presented in Figures 1 through 6.

Currently, new metal signs have been installed or are in the process of being installed at 10 San Francisco Bay fishing piers/regional shorelines and five Delta fishing piers/regional shorelines (Table 3). Field staff reconnaissance of locations in Table 3 determined some locations at fishing piers or along regional shorelines contain out-of-date material. To eliminate out-of-date material, CCCWP is removing and replacing old signs no longer containing OEHHA's official advisory, or by temporarily amending old contact information and out of date age limits with information that correctly reflects the official OEHHA advisory. Amending out-of-date material is temporary, and status checks of weatherproof labels that were placed over old information will be conducted annually until new sign installations are complete.

**Table 3. Fishing Piers and Regional Shoreline Signs**

Sign Location	Sign Address	Sign Status
Antioch/Oakley Regional Shoreline Fishing Pier	Bridgehead Road at Wilbur Avenue, Antioch	Install complete
Antioch Marina Fishing Pier	1 Marina Plaza, Antioch	Amendment in progress
Antioch Fishing Pier	9 I Street, Antioch	Replacement in progress
Carquinez Strait Regional Shoreline and Eckley Fishing Pier	5700 Eckley Road, Crockett	Install complete
Clifton Court Forebay	5072 Clifton Court Road, Discovery Bay	Replacement in progress
Radke Martinez Regional Shoreline and Martinez Fishing Pier	7 North Court Street, Martinez	Install complete
Pittsburg Fishing Pier	22 Cutter Avenue, Pittsburg	Amendment Complete
John J. Sheridan Fishing Pier	1499 Harbor Way South, Richmond	Replacement in progress
Big Break Regional Shoreline	69 Big Break Road, Oakley	Install complete
Point Pinole Regional Shoreline and Fishing Pier	5551 Giant Highway, Richmond	Install complete
Point Isabel Regional Shoreline	2701 Isabel Street, Richmond	Install complete (laminated poster in kiosk)
Point Molate Fishing Pier	1721 Stenmark Drive, Richmond	Install complete
Miller/Knox Regional Shoreline and Ferry Point Fishing Pier	1545 Dornan Drive, Richmond	Install complete
Lucretia Edwards Shoreline Park and Richmond Launch Ramp	1500 Marina Way South, Richmond	Install complete (laminated poster in kiosk)
San Pablo Bay Regional Shoreline at Lone Tree Point	413 San Pablo Avenue, Rodeo	Install complete



Figure 1. New sign installation at Point Molate— overview



Figure 2. New sign installation at Point Molate – closeup



Figure 3. New sign installation at Lone Tree Point – overview



Figure 4. New sign installation at Lone Tree Point – closeup



Figure 5. New sign installation at Radke Martinez Regional Shoreline Fishing Pier - overview

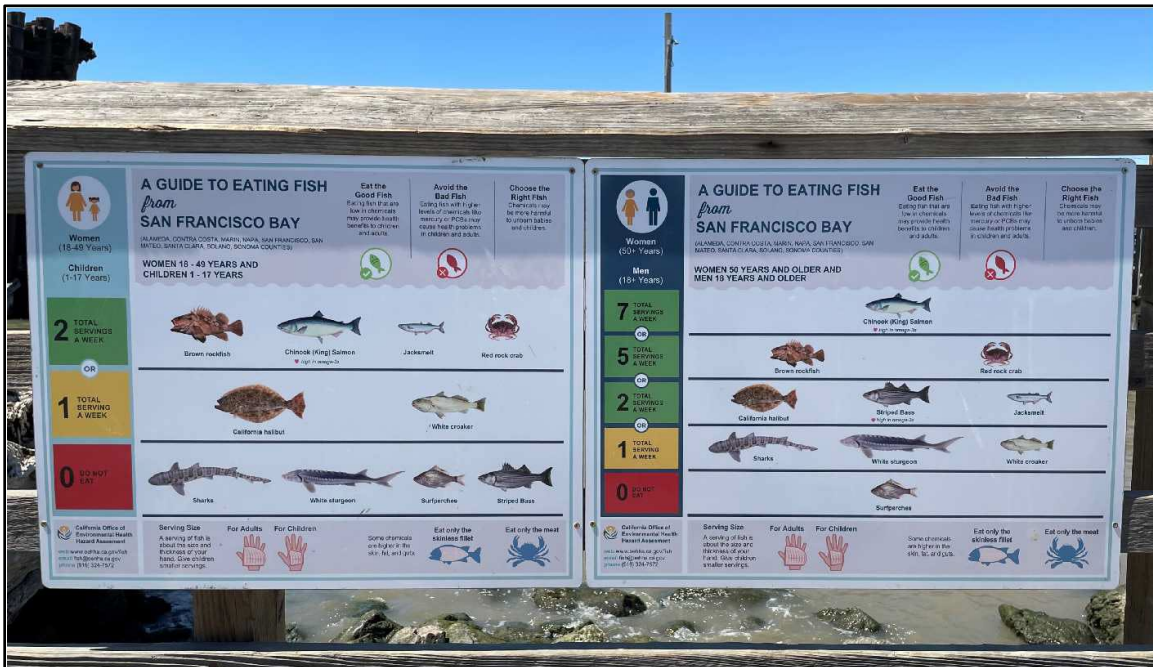


Figure 6. New sign installation at Radke Martinez Regional Shoreline Fishing Pier - closeup

### 3 PROGRESS TO DATE

Bait and tackle stores and local harbors and marinas were individually contacted via telephone to establish the languages which would best reach their specific clientele. Brochures, flyers, and posters were subsequently provided to each of the 21 harbors and marinas listed in Table 1, and the 14 bait, tackle and fishing supply stores listed in Table 2. Fishing piers and regional shorelines listed in Table 3 have existing metal signs or posters located in high visibility areas such as park informational kiosks. Figure 7 provides an overview map of the fish risk reduction program outreach locations.

#### 3.1 Number of People Reached

CCCWP estimates the Fish Risk Reduction Program has the potential to reach well over the program's minimum target of 3,000 individuals annually. In FY 2021-2022, CCCWP delivered 30 to 100 brochures to each of the locations listed in Tables 1 and 2. If each location listed in Tables 1 and 2 (35 total locations) delivers just 30 brochures or flyers annually, this effort can reach over 1,000 individuals throughout the county. In FY 2021-2022, discussions with bait shop owners, harbor masters, and marina staff confirm that 30 brochures annually per location is both accurate and a conservative estimate, as the majority of locations listed in Tables 1 and 2 requested brochures to be restocked during every spring and fall outreach effort.

In addition to Tables 1 and 2, the estimate to reach 3,000 individuals annually can be achieved at the locations in Table 3 alone. If just one individual per day views the fish risk reduction signage at each of the 15 fishing piers or shoreline kiosks, multiplied by 200 views per pier annually, it is estimated that 3,000 individuals will view the signage alone. Two hundred views per pier or shoreline annually is a conservative estimate and accounts for periods of inclement weather or poor fishing conditions. In FY 2020-2021, CCCWP field staff spoke with shoreline supervisors from the East Bay Regional Parks District, who estimated hard signs each have the potential to receive as many as 100 views on a busy weekend at the more popular fishing piers. This figure supports the program's conservative estimate of 200 views per pier annually to obtain the minimum outreach goal.

#### 3.2 Additional Measures Adopted in 2021-2022

Brochures and flyers are currently made available to bait and tackle shops in English, Spanish, Simplified Chinese, Laotian and Vietnamese. Coordination with bait and tackle shops has enabled field staff to become familiar with which regions of the county have more demand for supply of material in foreign languages. In addition to the provided languages currently established, business operators have expressed interest in providing outreach material in additional languages such as Russian and Tagalog. During FY 2021-2022, CCCWP began documenting the languages and locations business operators expressed interest in expanding the availability of outreach material to subsistence fishermen. Distribution of this material plans to begin in FY 2022-2023 at interested bait and tackle shops.

As part of the continued effort to effectively reach the maximum number of people likely to consume fish from the San Francisco Bay and Sacramento-San Joaquin River Delta, CCCWP maintains a list of

locations approved by the California Department of Fish and Wildlife (CDFW) to sell recreational fishing licenses. In addition to bait, tackle, and fishing supply stores identified in Table 2, there are 17 additional locations (big box retailers) where recreational fishing supplies and licenses are available for purchase (Table 4). This list of big box retailers is kept current while CCCWP coordinates program participation with corporate offices of these retailers.

Table 4. Additional Fish License Retailers	
Location	Address
Big 5 – Store #303	4859 Lone Tree Way, Antioch
Big 5 – Store #378	2689 Clayton Road, Concord
Big 5 – Store #178	11060 San Pablo Ave, El Cerrito
Big 5 – Store #062	1572 Fitzgerald Drive, Pinole
Big 5 – Store #113	4701 Century Boulevard, Pittsburg
Big 5 – Store #437	510 Contra Costa Blvd, Pleasant Hill
Big 5 – Store #071	3209 Crow Canyon Place, San Ramon
Big 5 – Store #132	1630 Mt Diablo Boulevard, Walnut Creek
CVS – Store #09511	1175 2 <sup>nd</sup> Street, Brentwood
CVS – Store #09565	14830 Highway 4, Discovery Bay
Dick's Sporting Goods	2314 Monument Boulevard, Pleasant Hill
REI	1975 Diamond Blvd Ste B100, Concord
Walmart – Store #2697	4893 Lone Tree Way, Antioch
Walmart – Store #5610	9100 Alcosta Boulevard, San Ramon
Walmart – Store #1615	2203 Loveridge Road, Pittsburg
Walmart – Store #3493	1021 Arnold Drive, Martinez
Walmart – Store #3455	1400 Hilltop Mall Road, San Pablo



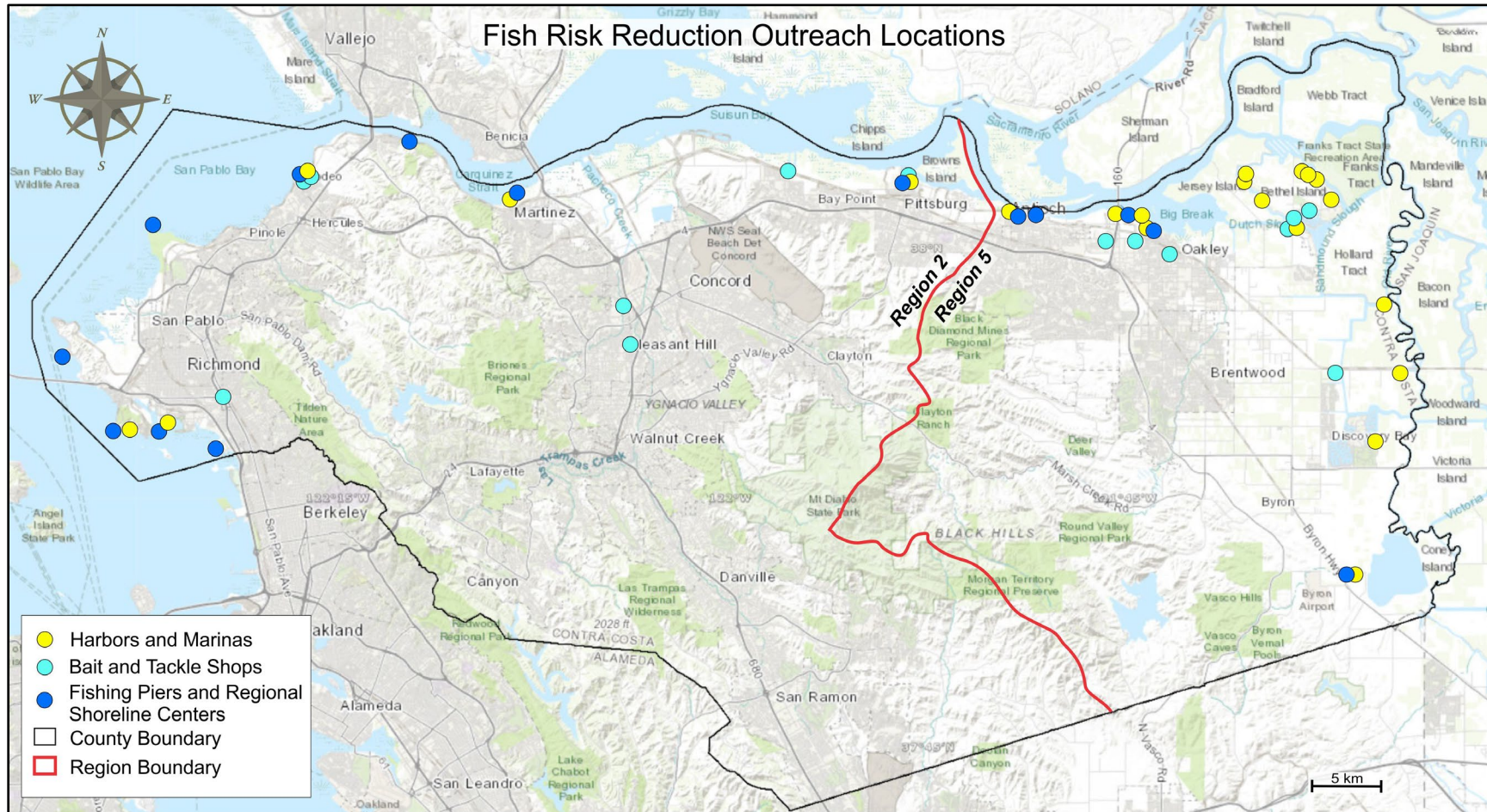


Figure 7. 2022 Fish Risk Reduction Outreach Locations

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## 4 REFERENCES

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). 2015. California Regional Water Quality Control Board, San Francisco Bay Region. Municipal Regional Stormwater NPDES Permit, Order No. R2-2015-0049, Permit No. CAS612008. November 19, 2015.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). 2019. California Regional Water Quality Control Board, San Francisco Bay Region. Municipal Regional Stormwater NPDES Permit, Order No. R2-2019-0049, Permit No. CAS612008. November 2019.

Office of Environmental Health Hazard Assessment (OEHHA). 2018a. A Guide To Eating Fish Caught from the Central and South Delta. Sept. 21, 2018.

<https://oehha.ca.gov/media/downloads/advisories/deltacentralsouthposter082418.pdf>

Office of Environmental Health Hazard Assessment (OEHHA). 2018b. A Guide to Eating Fish from San Francisco Bay. March 12, 2018.

<https://oehha.ca.gov/media/downloads/advisories/sfbayposter031218.pdf>

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## ATTACHMENT 1: FISH RISK FLYERS

Images of the fish risk flyers can be found at the following links:

<https://oehha.ca.gov/media/downloads/advisories/sfbayposter031218.pdf>

<https://oehha.ca.gov/media/downloads/advisories/deltacentralsouthposter082418.pdf>

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**Women**  
(18-49 Years)

**Children**  
(1-17 Years)

**2** TOTAL  
SERVINGS  
A WEEK

OR

**1** TOTAL  
SERVING  
A WEEK

**0** DO NOT  
EAT

California Office of  
Environmental Health  
Hazard Assessment

web [www.oehha.ca.gov/fish](http://www.oehha.ca.gov/fish)  
email [fish@oehha.ca.gov](mailto:fish@oehha.ca.gov)  
phone (916) 324-7572

## A GUIDE TO EATING FISH *from* SAN FRANCISCO BAY

(ALAMEDA, CONTRA COSTA, MARIN, NAPA, SAN FRANCISCO, SAN MATEO, SANTA CLARA, SOLANO, SONOMA COUNTIES)

**WOMEN 18 - 49 YEARS AND  
CHILDREN 1 - 17 YEARS**

### 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.



Brown rockfish



Chinook (King) Salmon

♥ high in omega-3s



Jacksmelt



Red rock crab



California halibut



White croaker



Sharks



White sturgeon



Surfperches



Striped Bass

### Serving Size

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

### For Adults



### For Children




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

### Eat only the skinless fillet



### Eat only the meat





**Women**  
(50+ Years)

**Men**  
(18+ Years)

**7** TOTAL SERVINGS A WEEK

OR

**5** TOTAL SERVINGS A WEEK

OR

**2** TOTAL SERVINGS A WEEK

OR

**1** TOTAL SERVING A WEEK


**0** DO NOT EAT

## A GUIDE TO EATING FISH *from* SAN FRANCISCO BAY


(ALAMEDA, CONTRA COSTA, MARIN, NAPA, SAN FRANCISCO, SAN MATEO, SANTA CLARA, SOLANO, SONOMA COUNTIES)

**WOMEN 50 YEARS AND OLDER AND MEN 18 YEARS AND OLDER**


**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.




Chinook (King) Salmon  
♥ high in omega-3s

---




Brown rockfish




Red rock crab


---



California halibut




Striped Bass  
♥ high in omega-3s




Jacksmelt


---



Sharks




White sturgeon




White croaker

---




Surperches




California Office of Environmental Health Hazard Assessment  
web [www.oehha.ca.gov/fish](http://www.oehha.ca.gov/fish)  
email [fish@oehha.ca.gov](mailto:fish@oehha.ca.gov)  
phone (916) 324-7572

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

**For Adults**




**For Children**





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

**Eat only the skinless fillet**



**Eat only the meat**





| A-2





**Women**  
(18-49 Years)

**Children**  
(1-17 Years)

**7** TOTAL SERVINGS A WEEK

OR

**3** TOTAL SERVINGS A WEEK

OR

**2** TOTAL SERVINGS A WEEK

OR

**1** TOTAL SERVING A WEEK

**0** DO NOT EAT

California Office of Environmental Health Hazard Assessment

web [www.oehha.ca.gov/fish](http://www.oehha.ca.gov/fish)  
email [fish@oehha.ca.gov](mailto:fish@oehha.ca.gov)  
phone (916) 324-7572

## A GUIDE TO EATING FISH *from the* CENTRAL AND SOUTH DELTA

Includes all waterbodies in the Delta south of Highway 12, except the Sacramento River and San Joaquin River south of Stockton

(CONTRA COSTA, SAN JOAQUIN AND SACRAMENTO COUNTIES)

WOMEN 18 - 49 YEARS AND CHILDREN 1 - 17 YEARS

### 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.



Asian Clam (Corbicula)



American Shad  
♥ high in omega-3s



Catfish



Crayfish



Steelhead Trout  
♥ high in omega-3s



Sunfish Species

\* Chinook (King) Salmon removed from advisory. See note below.



Black Bass Species  
♥ high in omega-3s



Common Carp



Crappie



Sacramento Sucker



Striped Bass



White Sturgeon

Any fish or shellfish from the Port of Stockton

### Serving Size

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



### For Adults



### For Children

### Eat only the skinless fillet



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

### Eat only the meat



### \* Chinook (King) Salmon:

No take permitted in these water bodies per CDFW regulations. Refer to CDFW for regulations on other species.

Updated 09/2018



Women  
(50+ Years)

Men  
(18+ Years)

**7** TOTAL  
SERVINGS  
A WEEK

OR

**5** TOTAL  
SERVINGS  
A WEEK

OR

**2** TOTAL  
SERVINGS  
A WEEK

OR

**1** TOTAL  
SERVING  
A WEEK

**0** DO NOT  
EAT

## A GUIDE TO EATING FISH *from the* CENTRAL AND SOUTH DELTA

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**Choose the Right Fish**  
Chemicals may be more harmful to unborn babies and children.

### WOMEN 50 YEARS AND OLDER AND MEN 18 YEARS AND OLDER



American Shad  
♥ high in omega-3s



Asian Clam (Corbicula)



Steelhead Trout  
♥ high in omega-3s



Sunfish Species

\* Chinook (King) Salmon removed from advisory. See note below.



Catfish



Crayfish



Black Bass Species  
♥ high in omega-3s



Common Carp



Crappie



Striped Bass  
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Sacramento Sucker



White Sturgeon

Any fish or shellfish from the Port of Stockton

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email [fish@oehha.ca.gov](mailto:fish@oehha.ca.gov)  
phone (916) 324-7572

#### Serving Size

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

#### For Adults



#### For Children



#### Eat only the skinless fillet



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

#### Eat only the meat



\* Chinook (King) Salmon: No take permitted in these water bodies per CDFW regulations. Refer to CDFW for regulations on other species. Updated 09/2018