

FCEC Partners Meeting Palos Verdes Shelf Superfund Site

December 12, 2024

11:00 AM - 1:00 PM

Hybrid Meeting



Agenda

- Welcome and introductions
- EPA and Program updates
- Angler Outreach updates / Q&A
- Enforcement Outreach updates / Q&A
- Community Outreach updates / Q&A
- Program proposals and FCEC action items
- Open forum



Introductions

Self-introductions





EPA Updates

- Welcome Evana and Chris (new EA Project Managers)!
- EPA awarded a new grant to Los Angeles County Department of Public Health (LACDPH) to fund outreach to local health professionals and pier sign installations
- EPA completed the Third Five-Year Review for PV Shelf
- EPA Community Involvement Plan is in progress!



SaferSeafood

Toxin Tracker Help

Resources

About

UC San Diego SCRIPPS



UC SANTA BARBARA
Bren School of Environmental
Science & Management

DDT Advisory For You and Your Seafood

Caught a fish off the coast of Southern California? Fill in the required fields below to understand the DDT levels in your seafood and receive serving size recommendations based on DDT, Mercury, and PCB advisories.

Disclaimer: This research project was designed for educational purposes. The information provided here does not come from any public agency and we are not making health recommendations.

Step 1: Click the location on the map where your fish was caught within the study area (outlined in blue)

Step 2: Please select your catch species in the dropdown below the map

Click through map layers to gather more information



Privacy Statement: No data shared with us will be given to third parties or stored in any way. Your data will never be used by us for any purpose other than DDT concentration predictions.

Select Species: Fantail Sole

Need help identifying your catch? Check out this resource!



DDT Prediction Results *

The recommended number of servings per week for Fantail Sole at this location is 7.

The range of predicted DDT concentration is between 12.98 to 132.62 ng of per gram of fish.

Number of Servings Per Week



Image of Species



Mercury/PCB Health Advisory **

No other advisories found for your species at your location.

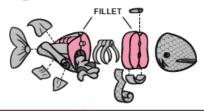




REDUCE YOUR RISK

Certain parts of the fish are more likely to contain harmful chemicals

- Eat only the skinless fillet
- Bake, steam, fry, or grill fish



T EAT	N DO NOT EAT	
FILLET	HEAD	FAT
(MUSCLE)	SKIN	ORGANS



EATING CONTAMINATED FISH MAY HARM YOUR HEALTH!

Some fish caught from the Palos Verdes Shelf are contaminated with:

• PCBs

(polychlorinated biphenyls)

DDT (dichlorodiphenyltrichloroethane)



People that are exposed to PCBs and DDT may have a higher risk of developing serious health problems, including cancer.



Eating contaminated fish does not make people sick right away. PCBs and DDT can build up in your body over time and cause health problems later in life.



PCBs and DDT can be especially harmful to children and developing babies even before they are born (during pregnancy).

DO NOT EAT



White Croaker (Tomcod, Kingfish)



Barred Sand Bass



Black Croaker



Topsmelt



Barracuda

These fish are contaminated with chemicals that may cause serious health problems, including cancer Learn more at www.pvsfish.org



PRINTED 2024



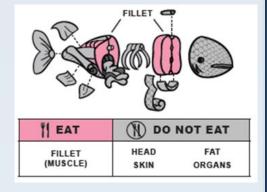




Angler feedback so far:

- Anglers appreciate the new information about DDT and PCBs
- Anglers like the new design and fish diagram
- Yellowfin croaker are commonly caught, and anglers appreciate them listed on the tip card
- Multiple tip cards were requested by anglers to share

with friends & family



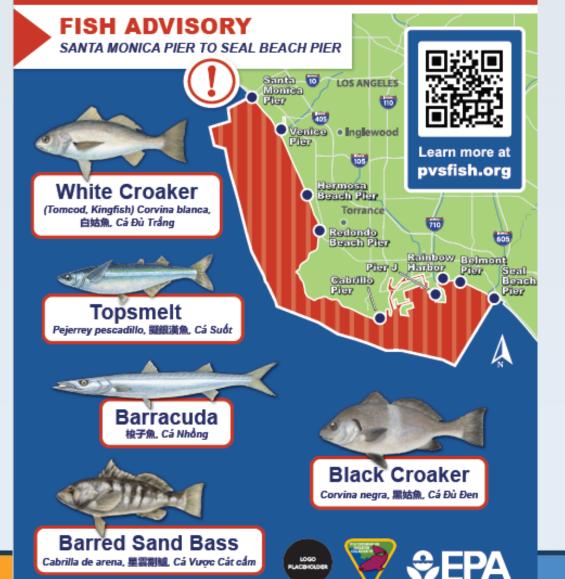






不要吃 ino consuma! Không ĂN

These fish are contaminated with chemicals known to cause serious health problems





 We distributed the first semi-annual Newsletter to registered community members in June 2024!





- We distributed the first semi-annual Newsletter to registered community members in June 2024!
- We updated the FCEC Annual Reports
- Scripps request for FCEC data

PALOS VERDES SHELF Annual Angler Outreach Report August 2022 – July 2023







- New tablecloths and table runners for community events
- New Fishing Game equipment:
 - 11 new fishing poles
 - Stronger magnets





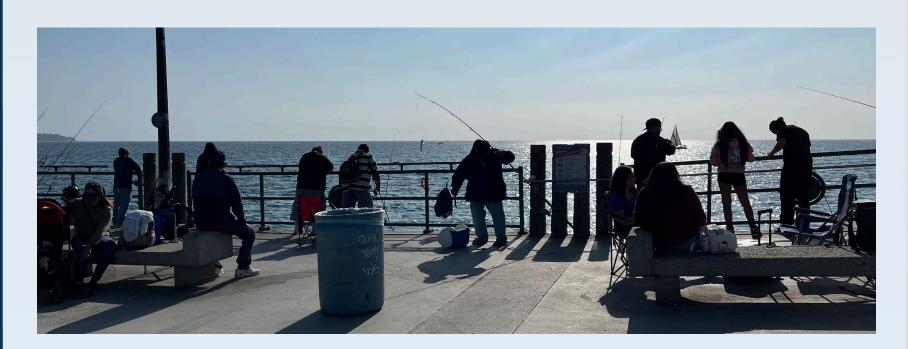


- New tablecloths and table runners for community events
- New Fishing Game equipment:
 - 11 new fishing poles
 - Stronger magnets
- New outreach staff lanyard
- New stuffed fish planned for 2025





Angler Outreach





- Outreach on 9 piers
- Evening Outreach at Venice and Redondo Piers once per week
- Each pier visited 3 times per week

Change in day angler outreach schedule















Gap in outreach at 8 piers from April 6th – May 31st 2024
 8,702 anglers interviewed (9822 contacted)

4,146 (48%) new

5,755 Tip-cards handed out

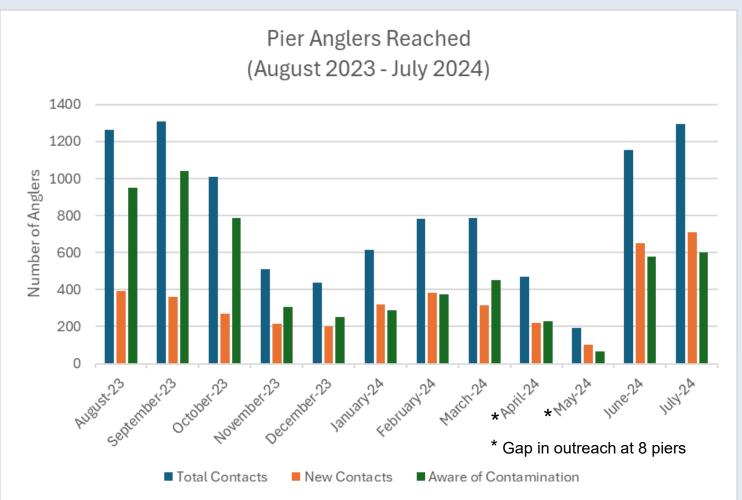
- 2698 English
- 1032 Spanish
- 950 Chinese
- 1075 Vietnamese

5,919 (68%) * aware of contamination

Awareness sources

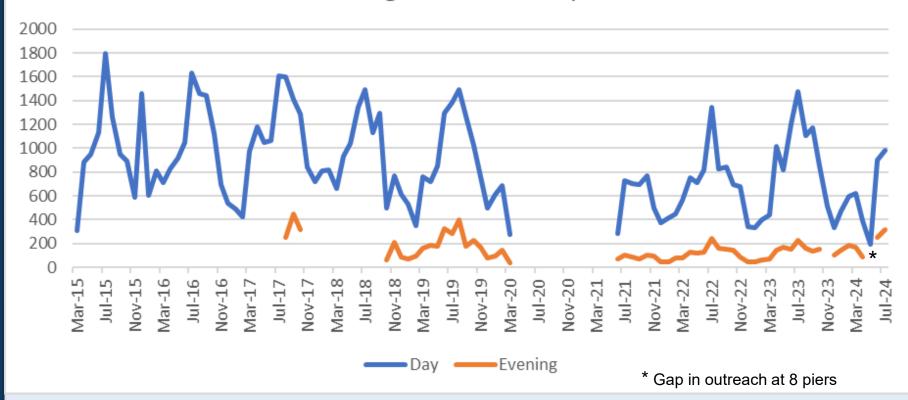
- DNC pier signage (48.5%)
- Pier angler outreach (31.3%)
- Tip-cards (15.7%)
- Internet, media, friend/family, and other (4.6%)
- Community events (0%)



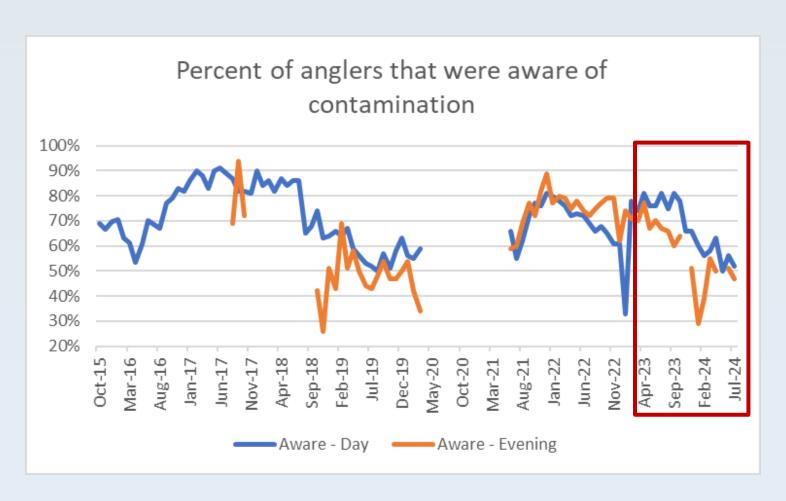




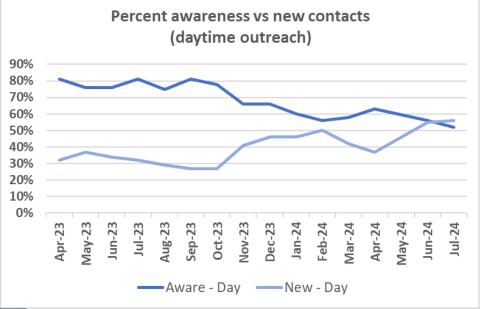
Number of Anglers Contacted per Month

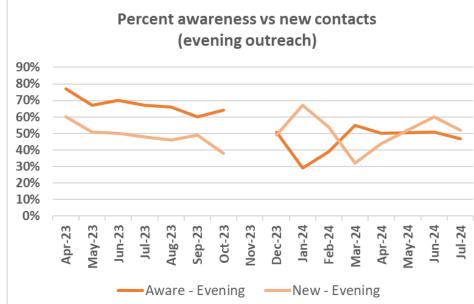




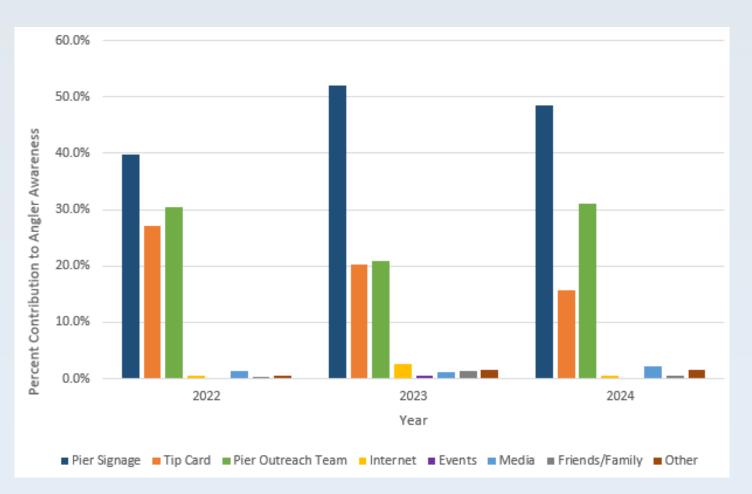














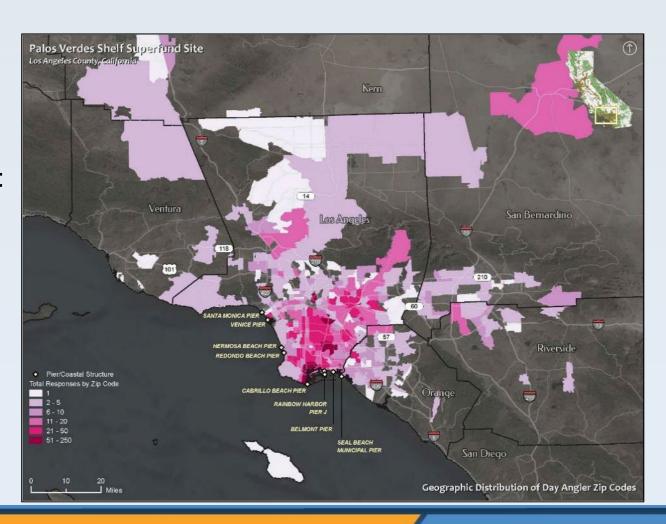
Fish Listed as "Do Not Consume"				
Topsmelt	240	Black Croaker	1	
White Croaker	84	Barracuda	2	
Barred Sand Bass	25			
Fish Identified as Safer to Eat				
Mackerel	645	Halibut	20	
Sardine	154	Shovel Nose Guitarfish	17	
Jacksmelt	89	Kelp/Calico Bass	12	
Sargo	49	Rockfish	9	
Yellowfin Croaker	27	Corbina	5	
All Other Documented Fish Species				
Surf Perch	53	Scorpionfish	2	
Crab	33	Leopard Shark	2	
Herring	26	Thresher Shark	2	
Smelt	26	Anchovy	1	
Bonito	21	Butterfish	1	
Ray	14	Bass	1	
Queenfish	8	Black Perch	1	
Lizard Fish	7	White Seabass	1	
Perch	7	Garabaldi	1	
Opaleye	4	Salema	1	
Octopus	2	Yellowtail Tuna	1	



Angler Zip Code (Daytime)

Analysis Period: August 2023 – July 2024

Total recorded zip codes: 324

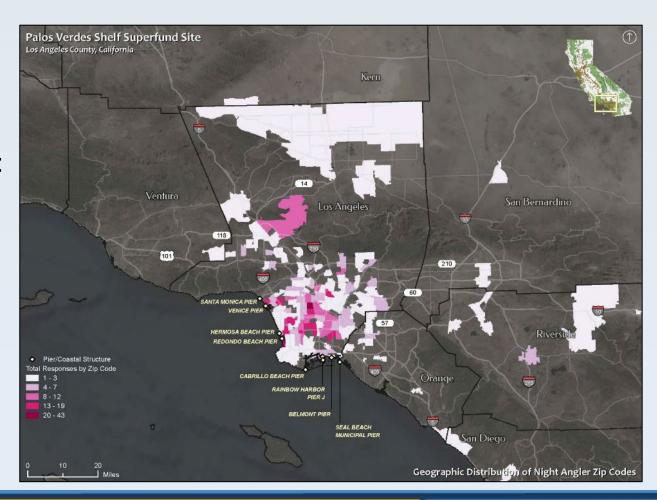




Angler Zip Code (Evening)

Analysis Period: August 2023 – July 2024

Total recorded zip codes: 164





Angler Outreach - Cabrillo (August 2023-July 2024)



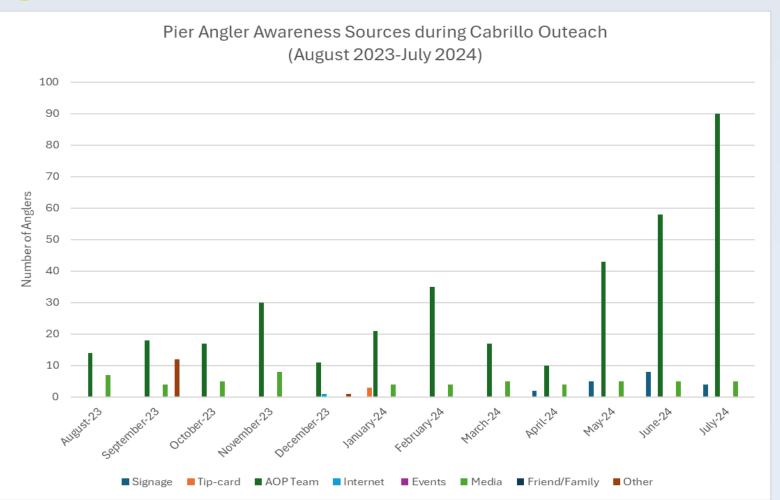


Angler Outreach - Cabrillo

- Pier Angler Outreach Cabrillo
 - Total anglers contacted: 1,453 people
 - New: 709 (48.8%)
 - Aware: 468 (32.2%)
 - Awareness sources
 - Angler outreach (79.8%)
 - Media (12.3%)
 - Tip-cards (0.7%)
 - DNC pier signage (4.2%)
 - Internet (0.2%)
 - Community Events,
 Friend/Family, and Other (2.9%)

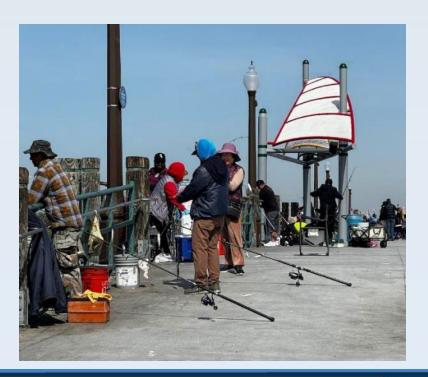


Angler Outreach - Cabrillo





Angler Outreach - Heal the Bay (August 2023-April 2024)





Angler Outreach – Heal the Bay

August 2023 – April 2024

Angler Outreach Day/Evening Participant Breakdown

Daytime Outreach

New: 1,762 (33%)

Aware: 3,846 (73%)

Total Daytime Anglers Interviewed: 5,291

Evening Outreach

New: 553 (49%)

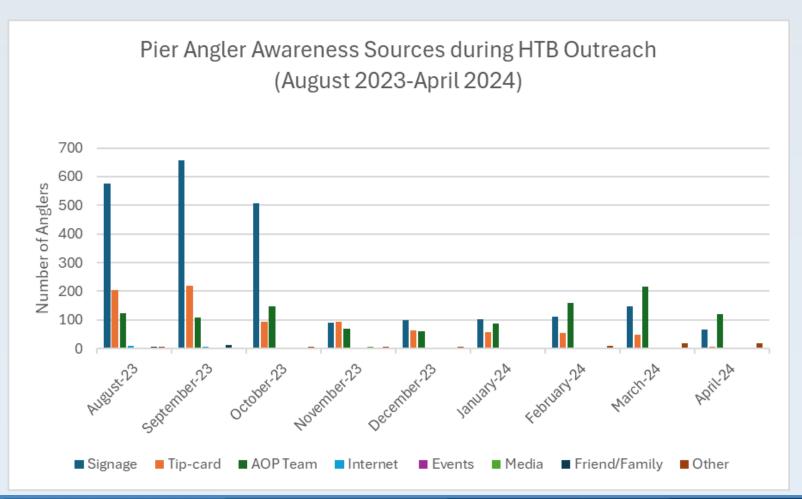
Aware: 587 (52%)

Total Evening Anglers Interviewed: 1,135

Total Daytime and Evening Anglers Interviewed: 6,426



Angler Outreach - HTB





Angler Outreach – DBS&A (May 2024-July 2024)





May - July 2024

Angler Outreach Day/Evening Participant Breakdown

Daytime Outreach

New: 811 (59%)

Aware: 746 (54%)

Total Daytime Anglers Interviewed: 1,376

Evening Outreach

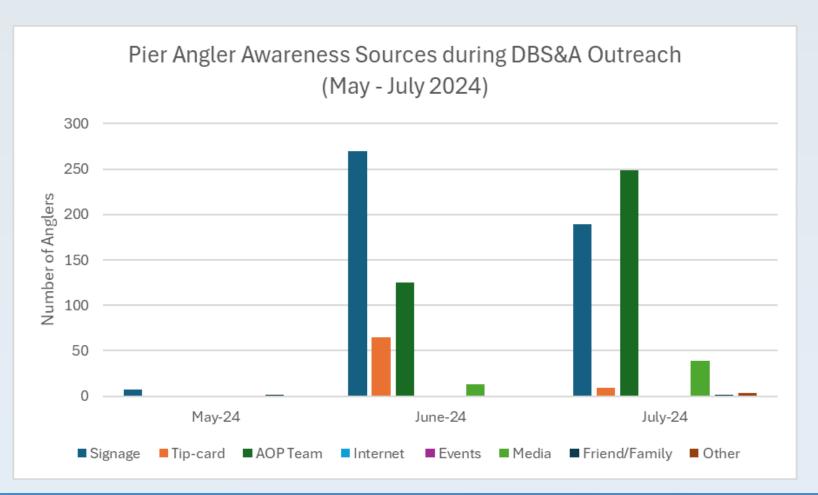
New: 311 (54%)

Aware: 272 (47%)

Total Evening Anglers Interviewed: 576

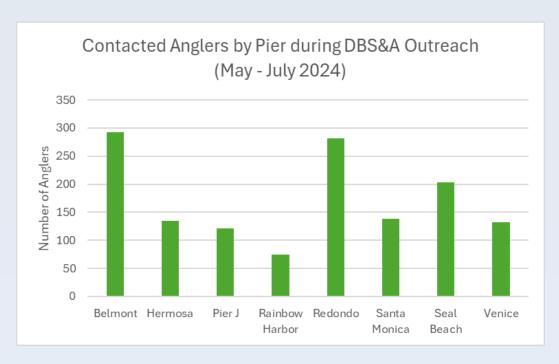
Total Daytime and Evening Anglers Interviewed: 1,952



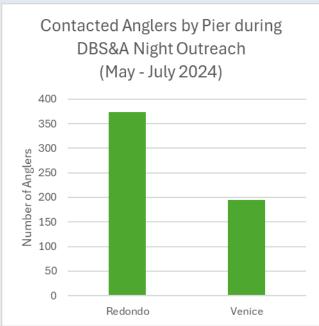




Belmont Pier was the busiest pier during daytime outreach



Redondo Pier was the busiest pier during evening outreach





Observations

- Pier signage and outreach efforts have been crucial in increasing angler awareness of fish contamination issues.
- Reevaluating the shifting angler use and demographics will be an important part of the effectiveness in the Outreach Program.
- Locations where pier angler outreach is performed is appropriate and continued outreach at these piers is recommended.



DNC Pier Sign Monitoring





DNC Pier Sign Inspection

- Angler Outreach Partners perform routine DNC pier sign inspections at the designated pier locations with remaining signage; if no signs remain, the location is not inspected.
- Began using a standardized evaluation and recommendation criteria.
- E-forms recommended to ensure standardized consistency across inspectors.
- As of July 2024, 46 pier sign locations were inspected, with 9 signs missing since the previous period, leaving only 37 DNC signs present:
 - 6 in good condition
 - 6 in decent condition
 - 16 in fair condition
 - 9 in poor condition





Pier Angler Outreach



Questions or Comments?





Enforcement Outreach





Enforcement Outreach

- California Department of Fish and Wildlife Aug 2023 July 2024
 - 86 Recreational Fishing Patrols
 - 1,712 total contacts
 - 57 White Croakers observed in 6 inspections
 - 0 White Croakers seized, 0 White Croaker violations
 - 29 warnings, 51 citations, and 2 bag limit violations issued; none related to DNC fish
 - 7 Commercial Business Inspections: 1 violation, not related to DNC fish
 - Public Outreach Materials Distributed: 831 tip-cards distributed in 79% of inspections, including English (77%), Spanish (30%), Chinese (7%), Vietnamese (4%)



Enforcement Outreach

Questions or Comments?





Community Outreach





Community Outreach Summary

- Outreach partners attended 15 community events (7 since last FCEC meeting)
- ~102,095 people attended these events
 - ~4,096 people interacted with the FCEC booth
- Public engagement and distributed materials included:
 - 1,814 Tip Cards
 - 1,439 Brochures
 - 1,011 Comic Books
 - 1,787 Fish ID Cards
 - 15 Curriculum Guides
 - 1,438 attendees provided contact information



Community Outreach Summary

Observations

- Majority of community members were not aware of fish contamination
- Not many event attendees fish themselves
- The new QR code was more successful than the newsletter signup sheet
- The comic book and fishing game are very popular
- Improvements to the fishing game this year have improved interactions with the public



Community Outreach - DBS&A

- Three events completed since April FCEC Meeting:
 - Aquarium of the Pacific Earth Day Teen Climate Fest, April 27, 2024
 - LA County Parks and Recreation A Day in Nature Festival, September 7, 2024
 - Aquarium of the Pacific Baja Splash Cultural Festival, September 21-22, 2024

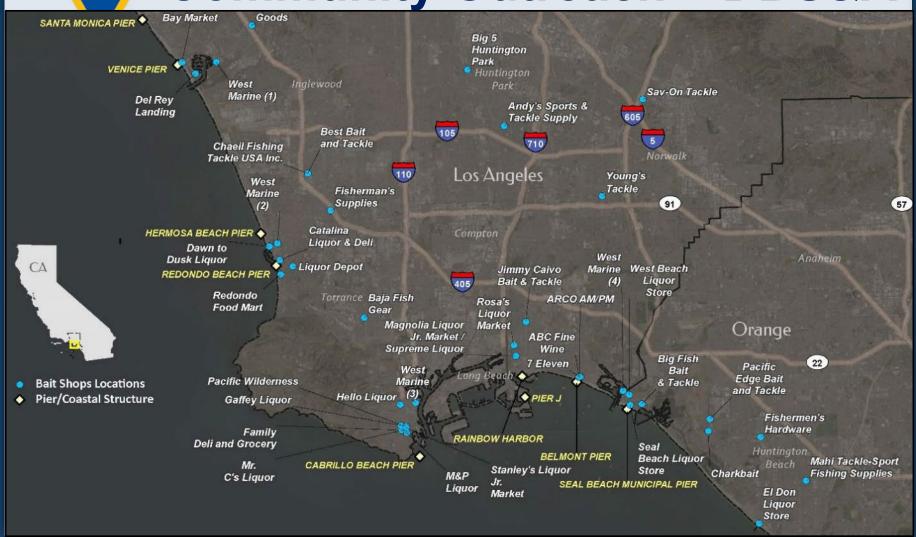








Community Outreach – DBS&A





Community Outreach – BPSOS

- Four events completed since April FCEC Meeting:
 - Garden Grove Police Department National Night Out, August 6, 2024
 - Central-West County Health Expo September 7, 2024
 - Nhan Hoa Health Center Health Fair October 5, 2024
 - Clinton Corner Family Campus Resources and Health Fair October 9, 2024











Community Outreach – CCHC

- One event since April FCEC Meeting:
 - CCHC Walkathon and Carnival April 13, 2024

Observations:

- Most event attendees spoke Chinese and preferred Chinese outreach materials
- Many attendees stated that they did not go fishing but were still interested in the source of contamination and how to protect themselves.
- Although most Chinese people are accustomed to eating the entire fish with the skin, the suggested way of eating only the fillet was readily received by younger attendees.
- Older event attendees are less familiar with QR codes and required assistance





Community Outreach – LACDPH

Task 1: Public Health Nurse (PHN) Orientation

- Presentation to newly hired nurses at orientation (9/25/2024)
- Provide educational resources for PHNs to distribute to patients and other interested community members



Community Outreach – LACDPH

Task 2: Public Information Clearinghouse

 Maintain and update LACDPH's Fish Contamination website

http://www.publichealth.lacounty.gov/Eh/safety/fish-contamination.htm

Fill requests for outreach materials





1 Poisons & Health Hazards / Fish Contamination



Fish Contamination

Fish is an important part of a healthy diet. It's not only high in protein and low in fat, but it's also an excellent source of omega-3 fatty acids, which are important for brain and vision development and can reduce the risk of high blood pressure, cancer and other chronic diseases. Eating fish regularly can help prevent heart disease; that's why the American Heart Association recommends that people eat **2-3 meals** of fish every week



Community Outreach – LACDPH

Task 3: Pier Signage

- Install and maintain pier signs in Los Angeles County
 - Ballona South
 - Cabrillo Pier
 - Dockweiler State Beach
 - El Segundo Beach (jetty)
 - Hermosa Beach Pier
 - Manhattan Beach Pier
- Marina Del Rey Pier

- Playa Del Rey Beach
- Redondo Beach Pier
- Rocky Point
- Royal Palms/White's Point
- Santa Monica Pier
- Torrance Beach
- Venice Pier

FISH CONTAMINATION EDUCATION COLLABORATIVE

Community Outreach – LACDPH

Task 4: Outreach to Healthcare Providers

- Offer outreach to medical providers
 - Target Obstetric and Pediatric providers
 - Coordinate with nurses in the Child Health and Disability Program
- Provide educational materials to community health clinics
- Outreach to WIC centers
- Participate in community public health outreach events
- Distribute community toolkit to providers



Community Outreach

Questions or Comments?

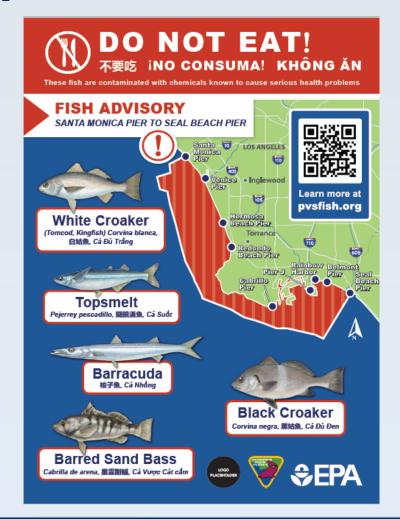




Program Proposals

DNC Pier Sign Locations

 Prioritize installation of new signs at 9 outreach piers





Program Proposals

DNC Pier Sign Locations

- Prioritize installation of new signs at 9 outreach piers
- FCEC recommendations for other costal sign locations (based on annual report)
 - For example, removing signs at El Porto/El Segundo

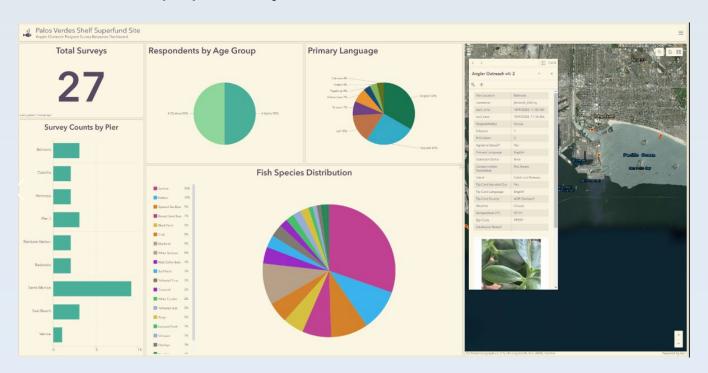




FCEC Proposals

Angler Outreach Tally Sheet

Transition from paper tally sheets to electronic tablets





FCEC Proposals

Angler Outreach Tally Sheet

Add question about catch and release?





Educational Outreach Tally Sheet

Total # anglers on pier at beginning/end of shift:/ Start Time: End Time:										

	Is the person an adult or a child	Did they agree to speak to you?	Is the person receiving outreach for the 1st time ever, or is s/he a repeat?	Was person aware of DDT/PCB* fish contamination advisories before this?	Awareness source: Signage, Tip- card, AOP* Team, Internet, Events, Media, Friend/Family Other	Language spoken during outreach	Tipcards Distr. (English, Spanish, Chinese, Vietname se)	Zip Code	Species and Number of Fish Caught (make a note if the number is an estimate)	NOTES
1	□Adult □Child	□ No □ Yes	□ New □ Repeat	□ No □ Yes						
2	□Adult □Child	□ No □ Yes	□ New □ Repeat	□ No □ Yes						
3	□Adult □Child	□ No □ Yes	□ New □ Repeat	□ No □ Yes						
4	□Adult □Child	□ No □ Yes	□ New □ Repeat	□ No □ Yes						
	1									

Last Modified March 30, 2024

□ Day Outreach □ Night Outreach



FCEC Action Items

- 1. Provide feedback on pier sign locations for new signage
- 2. Provide feedback on transitioning to electronic outreach forms and adding catch/release question
- Provide feedback and recommendations on new angler outreach schedule (varying days and times to reach more anglers and determine when there is higher angler activity)
- 4. 2023-2024 Annual Reports will be posted to pvsfish.org by the end of the year!



Open Forum





THANK YOU!

- EPA appreciates your education, outreach, and enforcement efforts
- For additional suggestions or concerns, please contact:

Renee Jordan Ward

EPA Region 9

JordanWard.Renee@epa.gov