



FCEC Partners Meeting

Palos Verdes Shelf Superfund Site

7 November 2023

1 PM – 4 PM

Hybrid Meeting



Agenda

- Welcome, Introductions, and Agenda Review (15 min)
- EPA Update (10 min)
- Pier Angler Outreach Updates (45 min)
- Enforcement Outreach Update (15 min)
- Break (15 min)
- Community Outreach Update (30 min)
- Upcoming Activities (15 min)
- FCEC Outreach Material Redesign Updates (25 min)
- Open Forum (until 4:00pm)



Introductions

- Current and New Partner Introductions



EPA Update

- EPA Update
 - Renee Jordan Ward

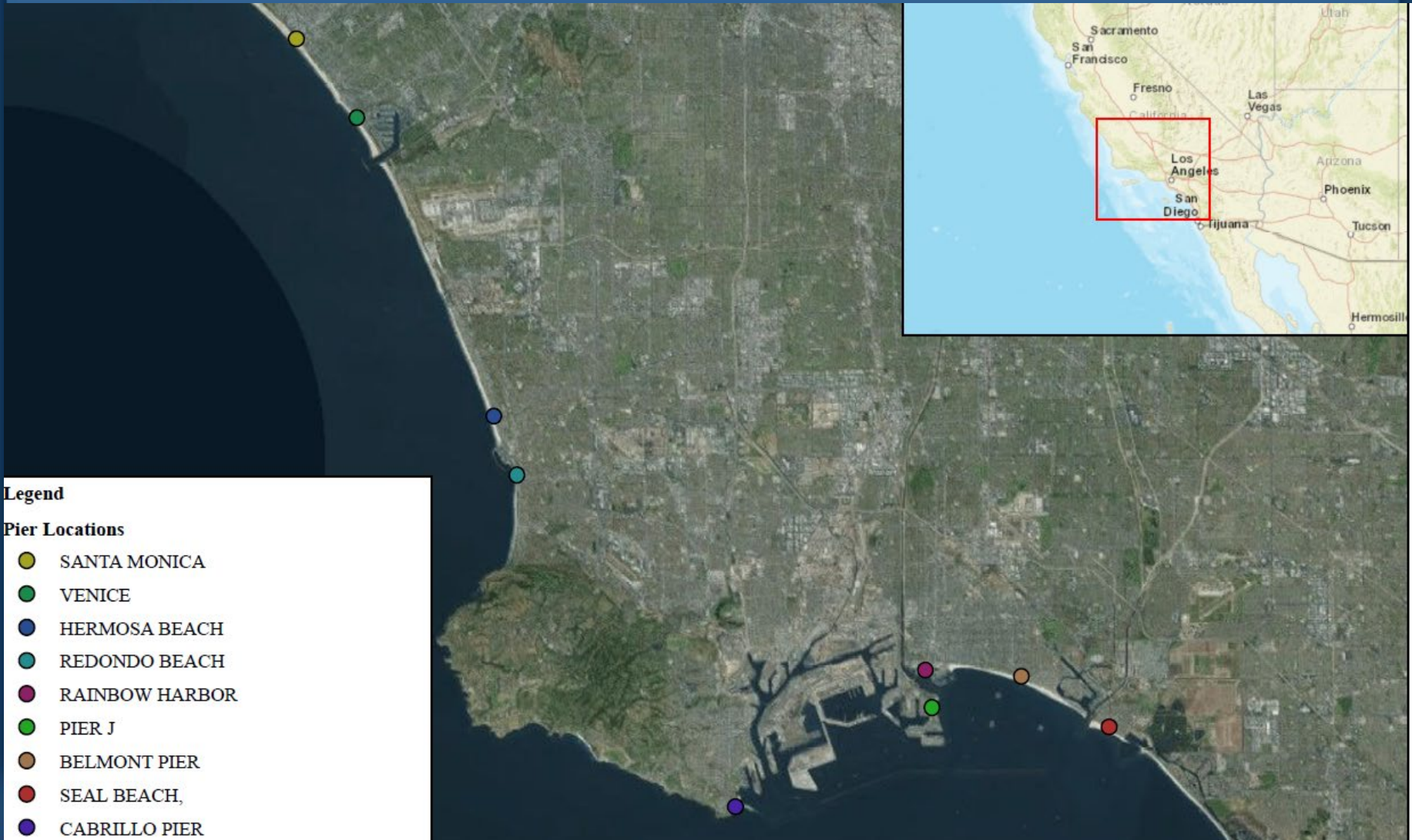


Pier Angler Outreach Summary

- Pier Angler Outreach – Heal the Bay and Cabrillo
 - October 2022 – September 2023
 - Angler outreach contacted ~11,097 people
 - ~3,886 were new (~35%)
 - ~8,020 were aware of contamination (~72%)
 - ~1,642 tip cards were handed out in English (1,436), Spanish (193), Chinese (12), and Vietnamese (1)
 - Awareness sources
 - DNC Pier Signage (56.7%)
 - Tip-cards (21.8%)
 - Angler Outreach (17.2%)
 - Internet, Media, Friend/Family, and Other (4.2%)
 - Community Events (0%)



Pier Angler Outreach Locations



Legend

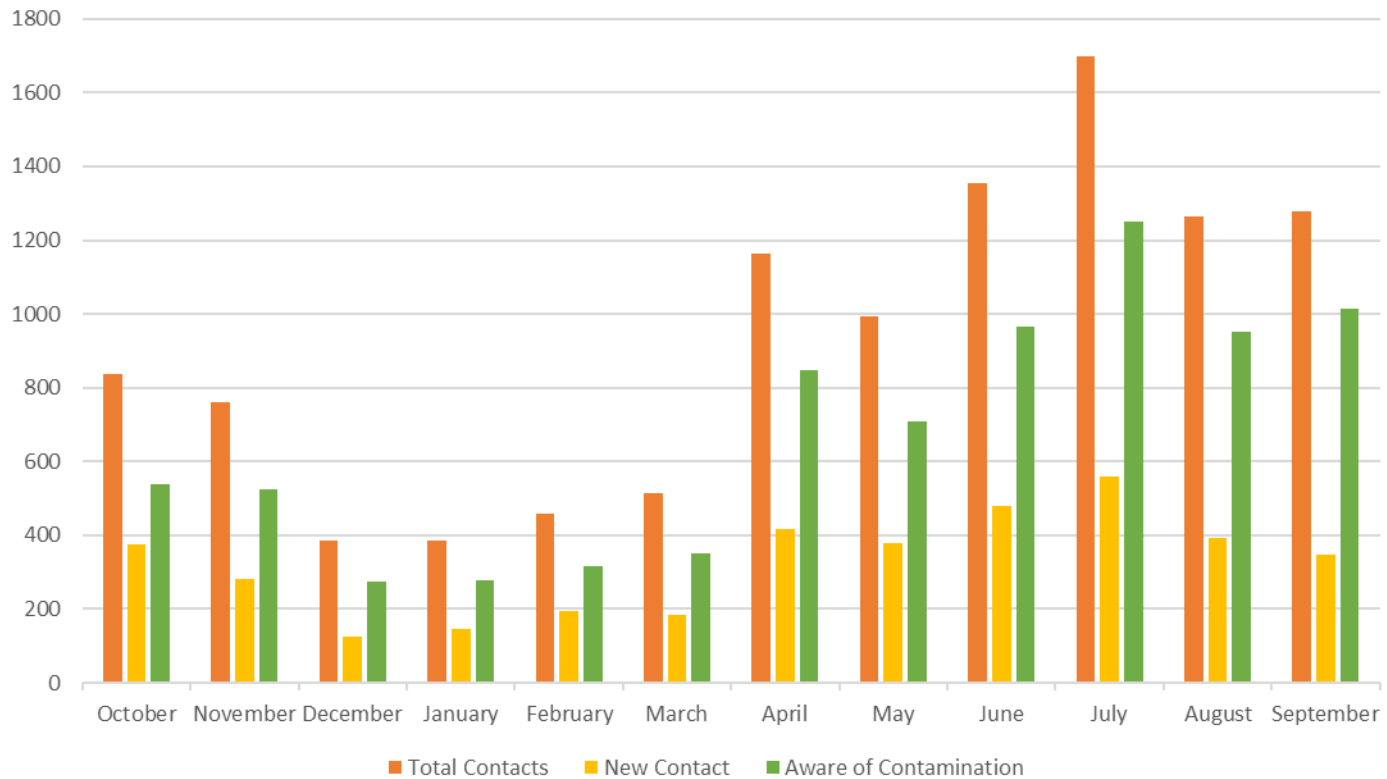
Pier Locations

- SANTA MONICA
- VENICE
- HERMOSA BEACH
- REDONDO BEACH
- RAINBOW HARBOR
- PIER J
- BELMONT PIER
- SEAL BEACH,
- CABRILLO PIER



Pier Angler Outreach

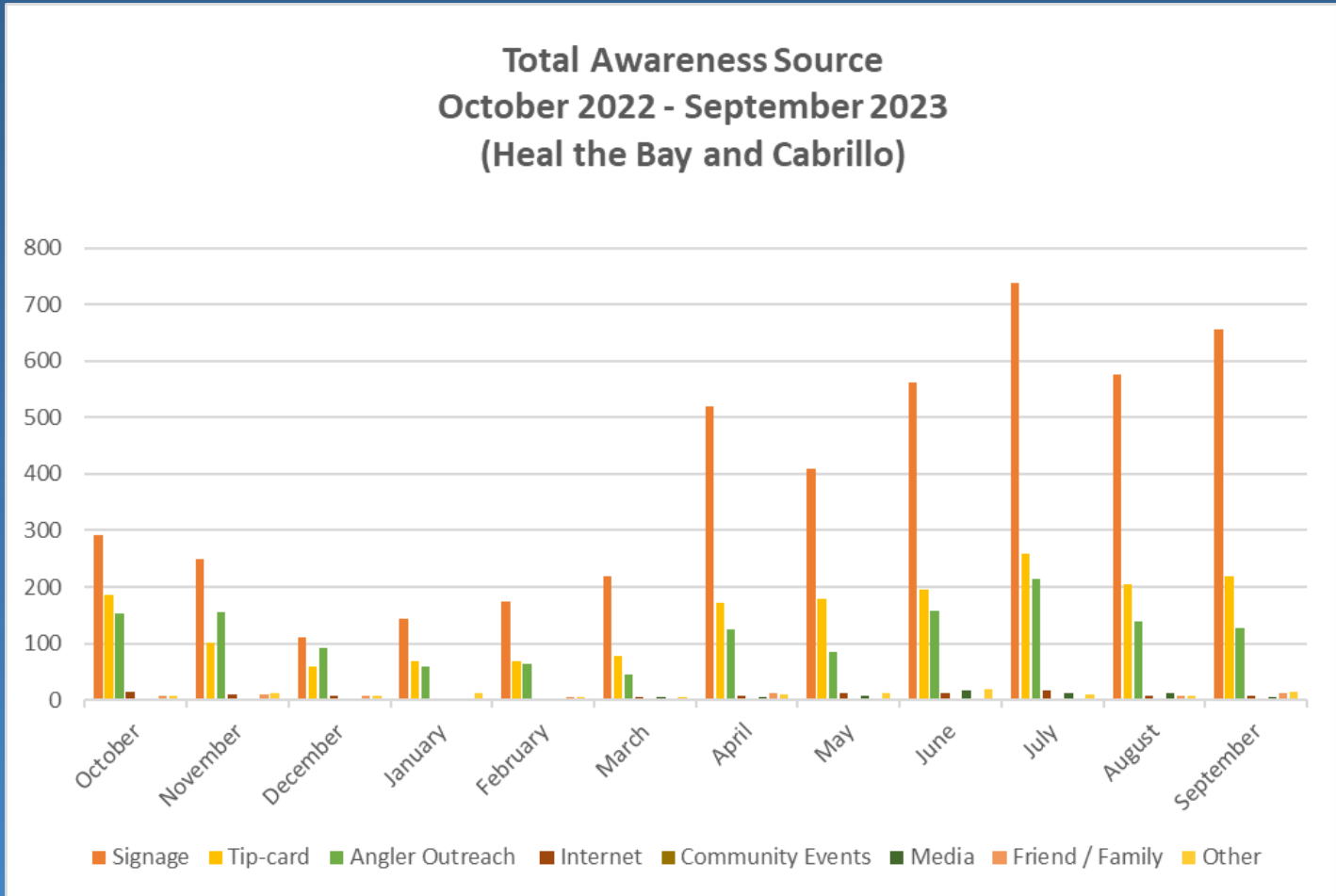
**Total Pier Anglers Reached
October 2022 - September 2023
(Cabrillo and Heal the Bay Day/Night)**





Pier Angler Outreach

**Total Awareness Source
October 2022 - September 2023
(Heal the Bay and Cabrillo)**

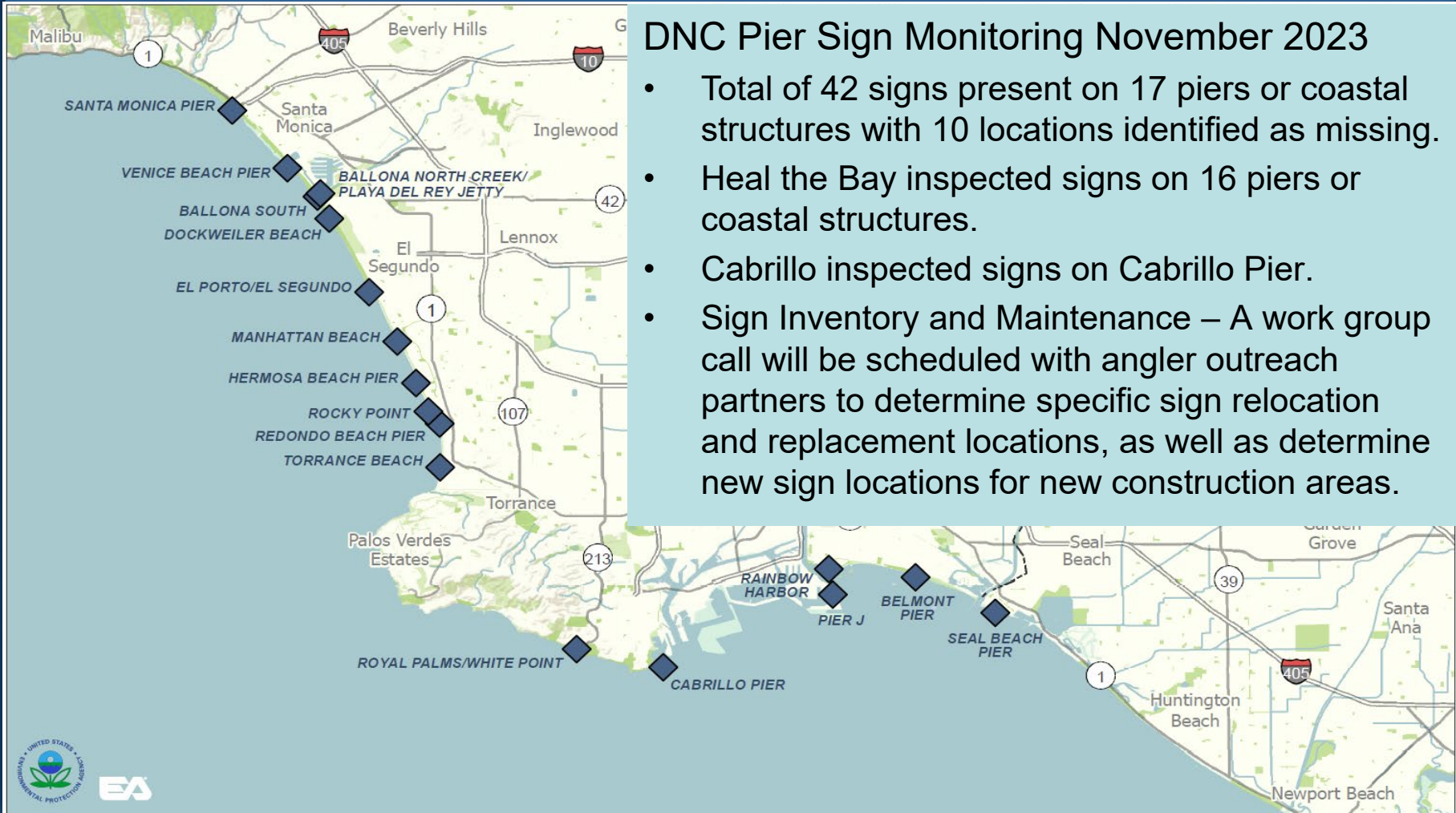




DNC Pier Sign Monitoring

DNC Pier Sign Monitoring November 2023

- Total of 42 signs present on 17 piers or coastal structures with 10 locations identified as missing.
- Heal the Bay inspected signs on 16 piers or coastal structures.
- Cabrillo inspected signs on Cabrillo Pier.
- Sign Inventory and Maintenance – A work group call will be scheduled with angler outreach partners to determine specific sign relocation and replacement locations, as well as determine new sign locations for new construction areas.





2023 DNC Pier Sign Condition

November 2023 - 52 total sign locations at 12 Piers or Coastal Structures

- 23 in Good/OK condition
- 19 damaged
- 10 missing
- 5 previously monitored piers or coastal structures do not have signs present.

	Pier or Coastal Structure	Total (2023)	Good/OK (2023)	Damaged (2023)	Missing (2023)
1	Santa Monica	5	4	0	1
2	Venice	6	1	3	2
3	Ballona North Creek/ Play del Rey Jetty	2	1	1	0
4	Ballona South	0	0	0	0
5	Dockweiler Beach	0	0	0	0
6	El Porto/ El Segundo	1	1	0	0
7	Manhattan Beach	0	0	0	0
8	Rocky Point	0	0	0	0
9	Cabrillo	8	0	8	0
10	Hermosa Beach	4	2	2	0
11	Redondo Beach	6	4	1	1
12	Pier J	3	3	0	0
13	Rainbow Harbor	5	3	2	0
14	Belmont	5	3	2	0
15	Seal Beach	5	0	0	5
16	Torrance Beach	0	0	0	0
17	Royal Palms/ White Point	2	1	0	1
	Total	52	23	19	10



Pier Angler Outreach Cabrillo

- Pier Angler Outreach –Cabrillo
 - October 2022 – September 2023
 - Angler outreach contacted ~1,238 people
 - ~638 were new (~51.5%)
 - ~452 were aware of contamination (~36.5%)
 - ~348 tip cards were handed out in English (284), Spanish (63), and Chinese (1)
 - Awareness sources
 - Angler Outreach (68.3%)
 - DNC Pier Signage (11.6%)
 - Internet (4.5%)
 - Friend/Family (4.5%)
 - Tip-cards (0%)
 - Media, Community Events, and Other (1.6%)





Pier Angler Outreach – Heal the Bay

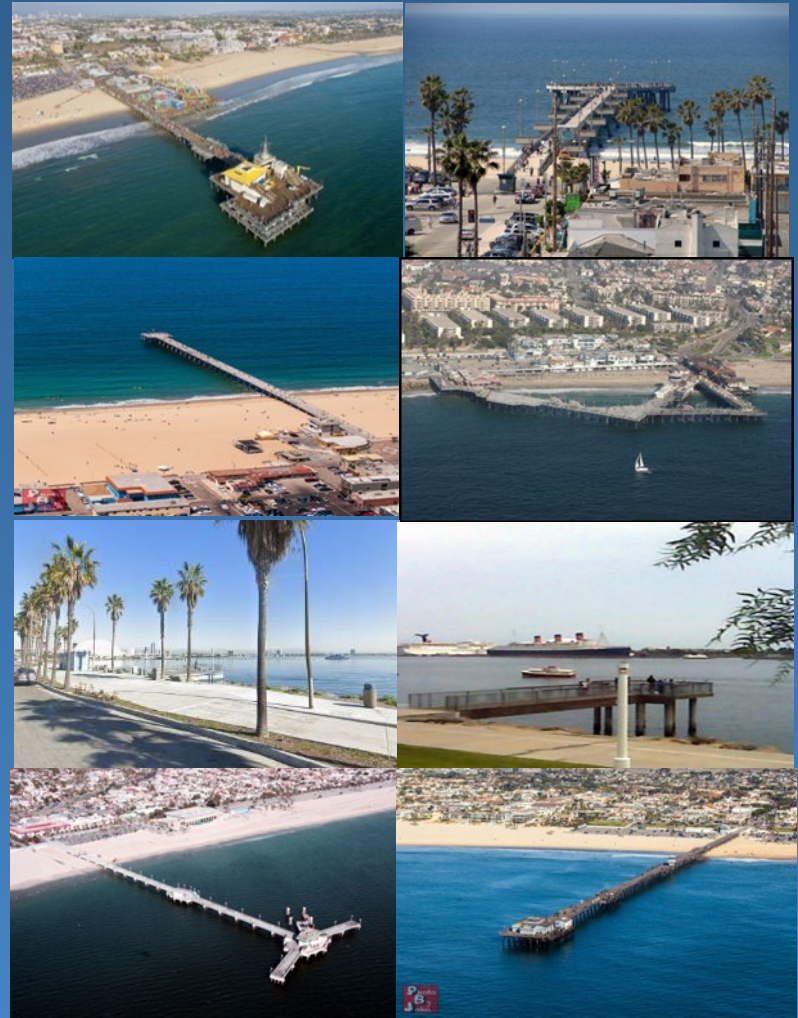
- The program's primary aim continues to be the education of pier and shoreline anglers on the risks of consuming DDT and PCBs-contaminated white croaker.
- Secondary goals are to educate anglers on other locally caught fish with regards to catch limits and consumption guidelines concerning DDT, PCBs, and mercury.





Program Overview

- Outreach on 8 piers:
Santa Monica, Venice,
Hermosa, Redondo, Pier J,
Rainbow Harbor, Belmont &
Seal Beach
- Each pier visited by Angler
Outreach Team 3x/week
- Evening Outreach:
Venice & Redondo pier
visited every Saturday





Angler Outreach Team


Current Team:

- ▶ Crystal Barajas - Spanish
- ▶ Willian Quinteros - Spanish
- ▶ Benmin Sun - Chinese
- ▶ Frankie Orrala - Spanish





Angler Outreach Tally Form


Educational Outreach Tally Sheet

EA USE: Form # _____
Last Modified August 1, 2021

Date: _____ Pier Location: _____ Outreach worker: _____ Day Outreach Night Outreach
 Total # anglers on pier at beginning/end of shift: _____/_____

***** FILL OUT ONE LINE PER PERSON*****

	Is the person an adult or a child	Did they agree to speak to you?	Was person aware of DDT/PCB* fish contamination advisories before this?	Is the person receiving outreach for the 1 st time ever, or is s/he a repeat?	Awareness source: Signage, Tip-card, AOP* Team, Internet, Events, Media, Friend/Family Other	Language spoken during outreach	Bucket Examine <input type="checkbox"/> (Y/N)	Species and Number of Fish Caught (make a note if the number is an estimate)	Zip Code	NOTES
1	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
2	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
3	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
4	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
5	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
6	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
7	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
8	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
9	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
10	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
11	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
12	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						
13	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes						

	Person	Date
Data Sheet Checked in Field		
Data Sheet Entered Electronically		
Electronic Data Checked		

*DDT/PCB = dichlorodiphenyltrichloroethane/polychlorinated biphenyls; AOP = Angler Outreach Program;

- Tally form includes anglers receiving outreach (new/repeat, awareness source, language spoken)
- Surveys conducted in the daytime 3 days/week
- **9,859 total anglers** approached across 8 piers from October 2022-September 2023; **8,936 total anglers** interviewed
- **992 tip-cards** distributed from May 2023-September 2023
 - English = 896
 - Spanish = 88
 - Chinese = 7
 - Vietnamese = 1



Angler Outreach Day/Evening Participant Breakdown

Reporting Period: October 2022 – September 2023 (12 months)

Morning Outreach

- ▶ New: 2,501 (32%)
- ▶ Aware: 6,559 (85%)

- ▶ Total: 7,715

Evening Outreach

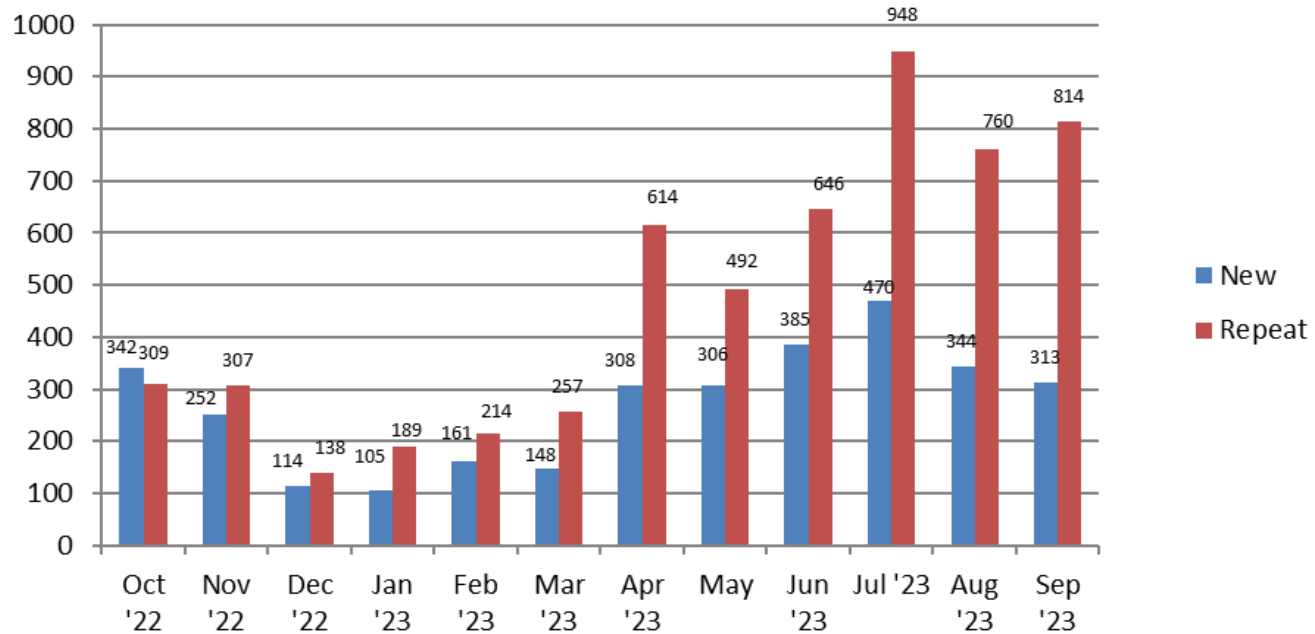
- ▶ New: 747 (61%)
- ▶ Aware: 1,009 (83%)

- ▶ Total: 1,221



New & Repeat Anglers October 2022 – September 2023

Total Anglers surveyed from Santa Monica through Seal Beach

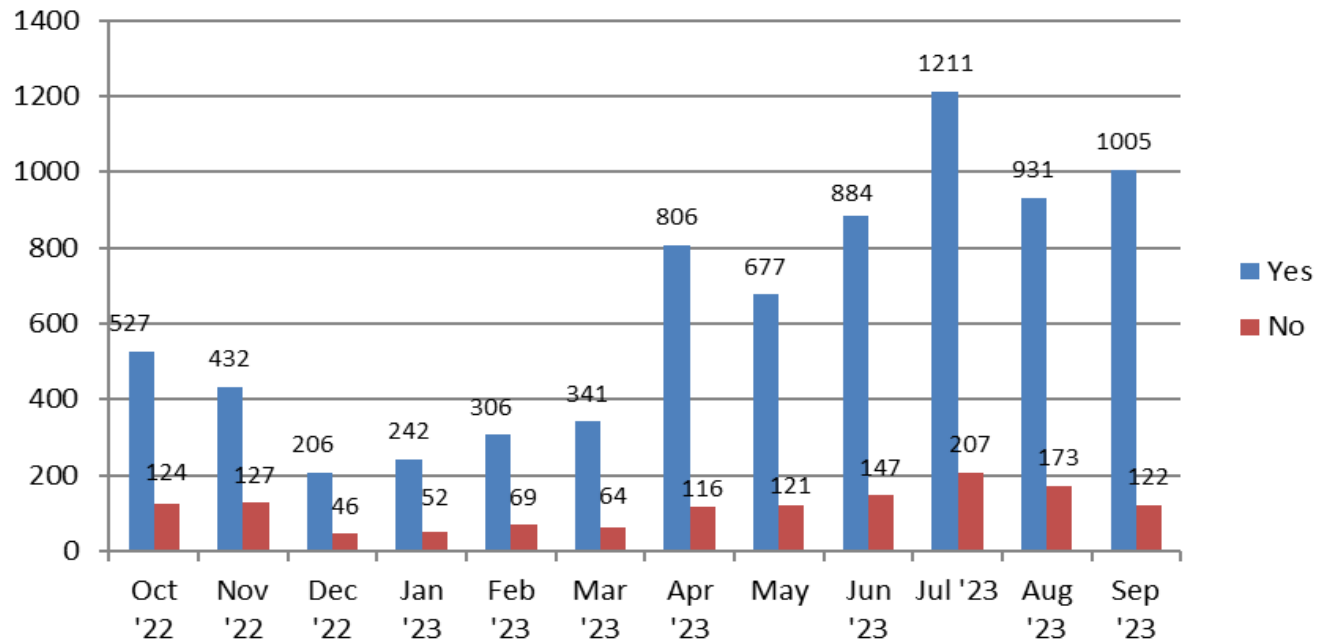


n= 8,936



Total Awareness October 2022 – September 2023

Total Anglers Aware of Fish Contamination Advisories

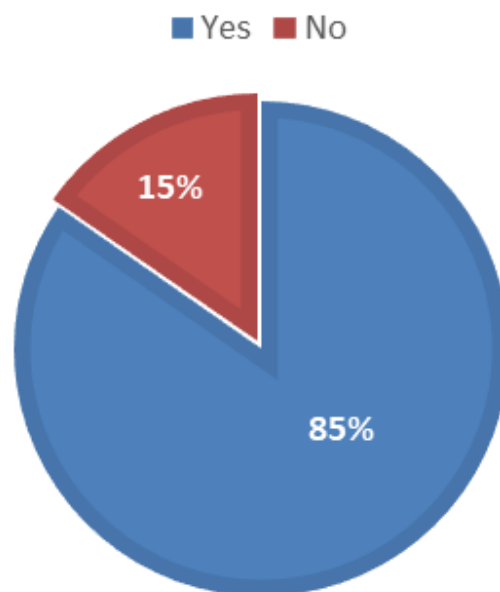


n= 8,936



Total Awareness October 2022 – September 2023

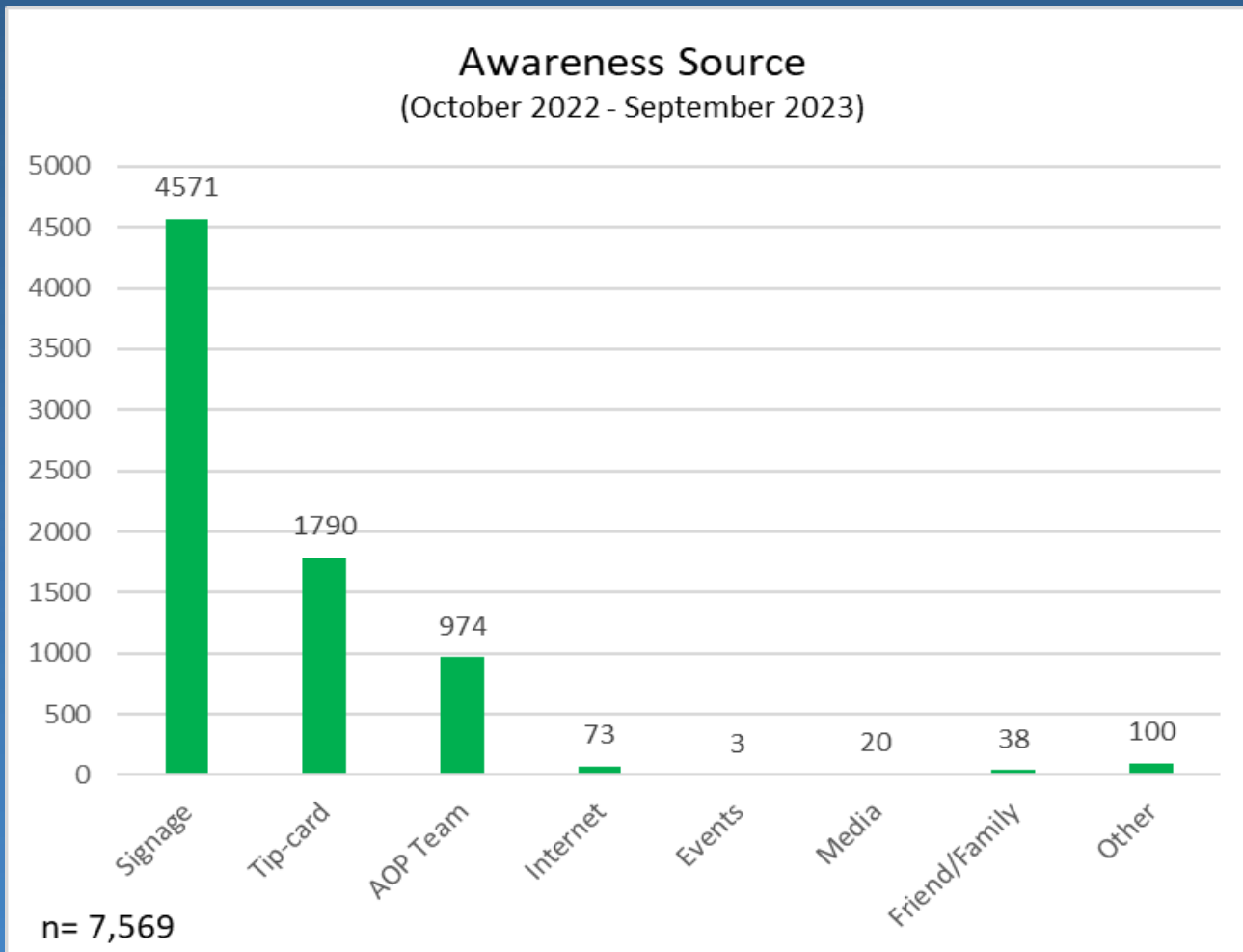
Total Anglers Aware of Fish Contamination Advisories



n=8,936

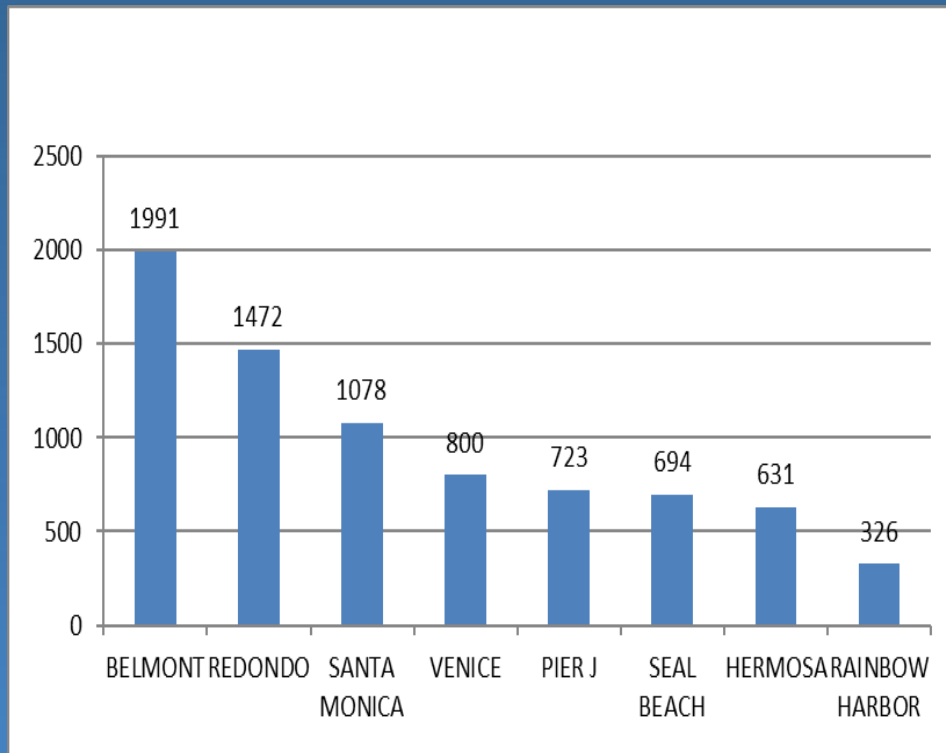


Awareness Sources

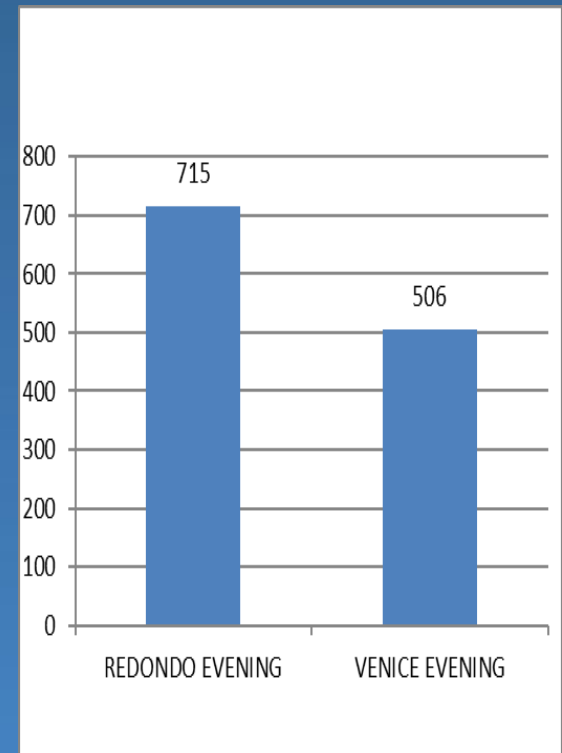




Belmont was the busiest pier during morning outreach



Redondo pier was the busiest pier during evening outreach





Angler Outreach Evening Participant Breakdown

Venice and Redondo Beach Pier
Reporting Period: October 2022 – September 2023

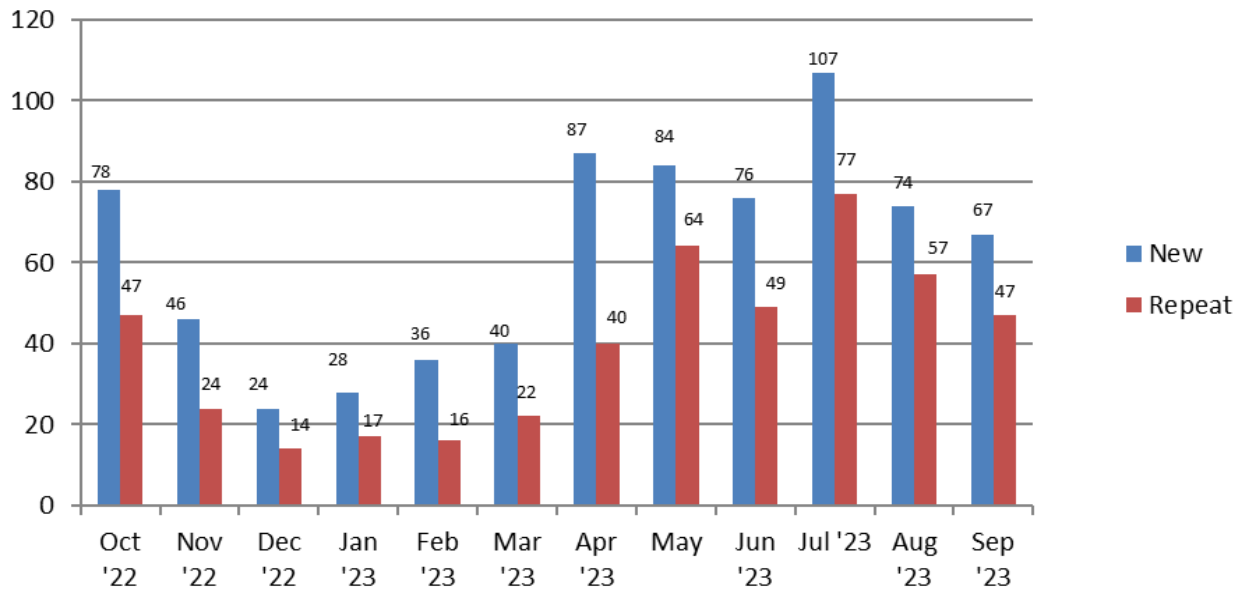
- ▶ New: 747 (61%)
- ▶ Aware: 1009 (83%)

- ▶ Total: 1,221



New and Repeat Anglers October 2022 – September 2023 Venice and Redondo Beach Pier

Total Anglers surveyed from Venice and Redondo Beach Pier



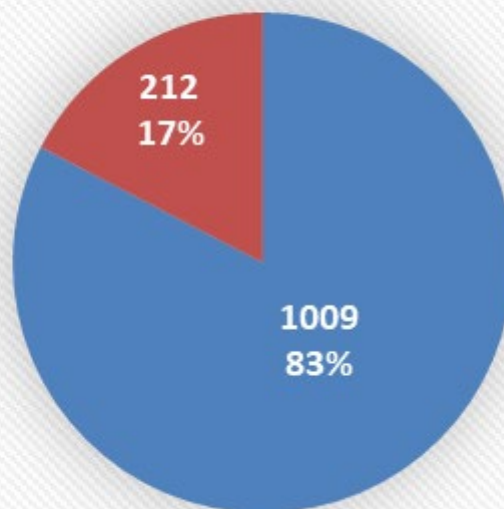
Outreach activity 4 days per month

n= 1,221



Total Anglers Aware of Fish Contamination October 2022 – September 2023 (Venice and Redondo Beach Pier)

Total Anglers Aware of Fish Contamination Advisories during evening hours (4:00-8:00PM)



n= 1,221

■ Yes ■ No



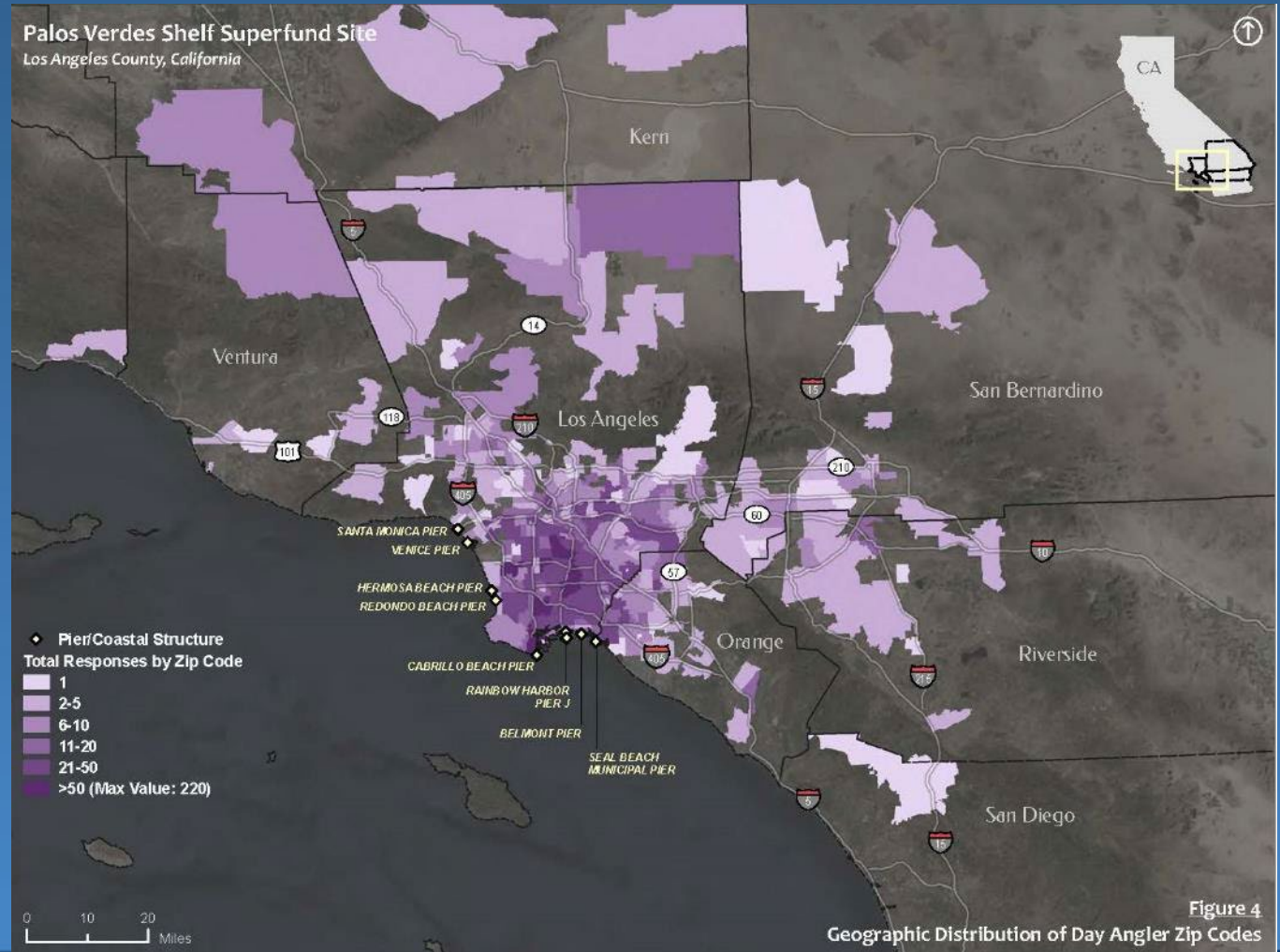
Angler Outreach Summary

- Overall, there are still anglers who are unaware of local fish contamination, especially minority groups where English is not their primary language and they are subsistence anglers.
- Signs, tip-cards and our Heal the Bay outreach team continue to be the most effective ways to inform the angler community about local fish contamination.
- During the summer months, the angler community remains large and new, and outreach efforts must continue in order to inform and make better decisions when consuming potential contaminated fish from piers, including those who fish at night.



Zip Code Analysis Where Anglers Came From - Daytime

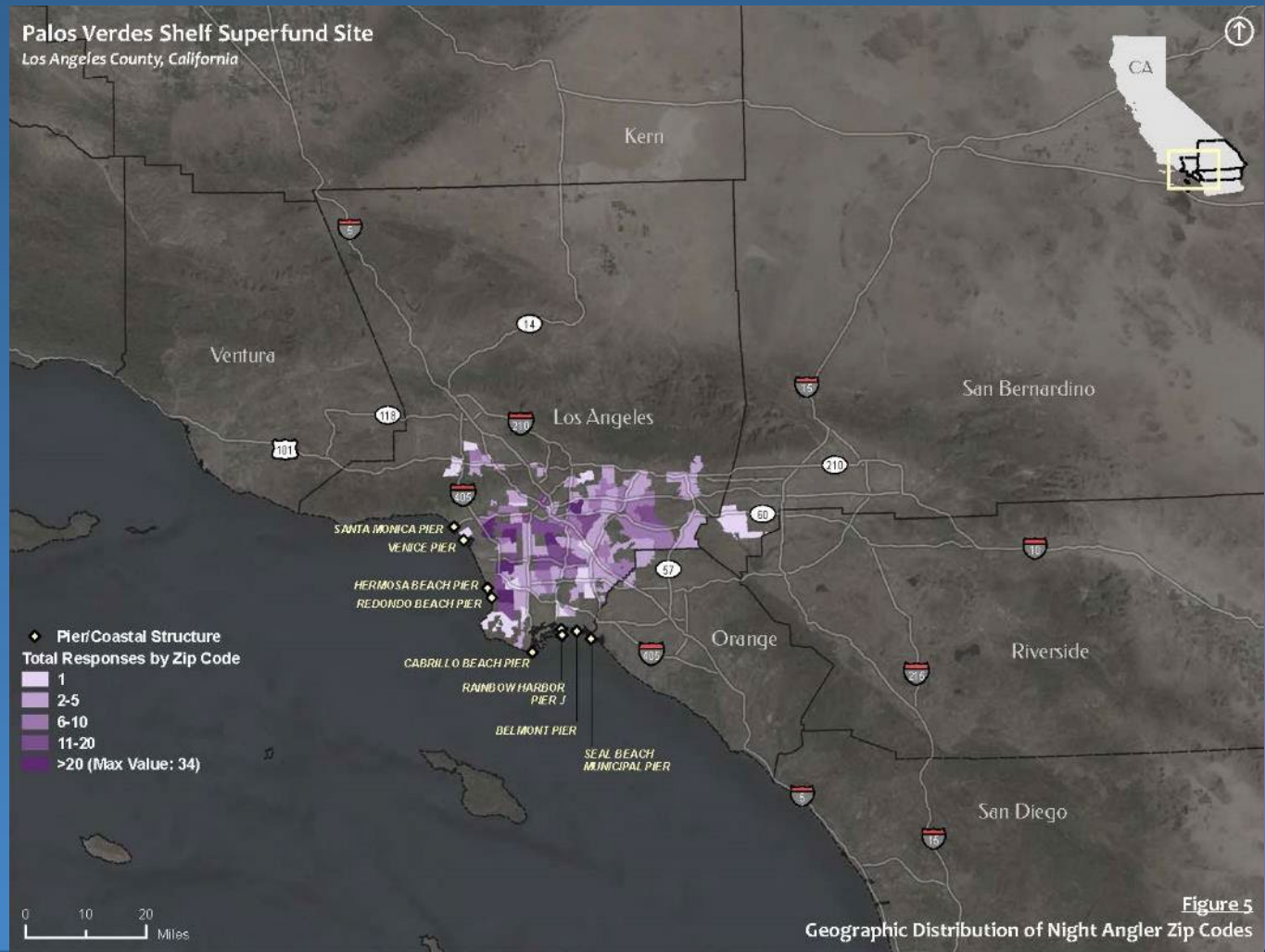
Source: 2022-2023
PVS Angler Outreach
Report.





Zip Code Analysis Where Anglers Came From - Nighttime

Source: 2022-2023
PVS Angler Outreach
Report.





Pier Angler Outreach

Questions or
Comments?





Enforcement Outreach Update

- California Department of Fish and Wildlife October 2022 – February 2023
 - 58 Recreational Fishing Patrols
 - 1,129 total contacts
 - 0 Citation White Croaker over limit
 - 0 White Croakers seized
 - 25 observed possession
 - Commercial Business Inspections: No violations
 - Public Outreach Materials Distributed: Tip cards English (299), Spanish (16), Vietnamese (5), Chinese (4)
- Discussion Topics
 - CDFW encourages the updating and redesign of additional public outreach literature.



Enforcement Outreach

Questions & Comments?





BREAK FOR 15 MINUTES



Community Outreach Summary

Community events data from October 2022 - September 2023 for DBS&A, BPSOS, CCHC:

- Approximately 33,700 total event attendees!
- 2,814 Total tip cards English (570), Spanish (199), Chinese (1,785), Vietnamese (260)
- Limited awareness of contamination reported by attendees
- Event display materials require updates.
 - Fishing game broken rods, ripped fish
 - Display boards, table runner, carrying case
- Outreach materials previously received by event attendees.
 - Great timing for updated outreach materials!





Community Outreach – DBS&A

- Completed Events
 - Aquarium of the Pacific 22nd Annual Baja Splash Festival, September 23-24, 2023
 - ~12,000 total attendees
 - ~400 attendees stopped by booth
 - Tip cards in English (40), Spanish (8), Chinese (3)
 - Pamphlets in English (35), Spanish (5), Chinese (3)
 - Comic books in English (94), Spanish (29), Chinese (7)
 - Fish ID in English (78), Spanish (26), Chinese (3)
 - 2 patrons signed up for the FCEC newsletter
 - ~10 individuals were aware of the existing contamination



Community Outreach – DBS&A

- Observations/Recommendations
 - Outreach Materials
 - Comic books continue to generate the most interest out of the outreach materials.
 - The fishing game brings a lot of foot traffic to the booth. Multiple families requested their desire to purchase one. Suggestion to add a print & cut game to the FCEC website.
 - Sign-in Sheet not popular, recommend adding QR code to the design.



Community Outreach – DBS&A

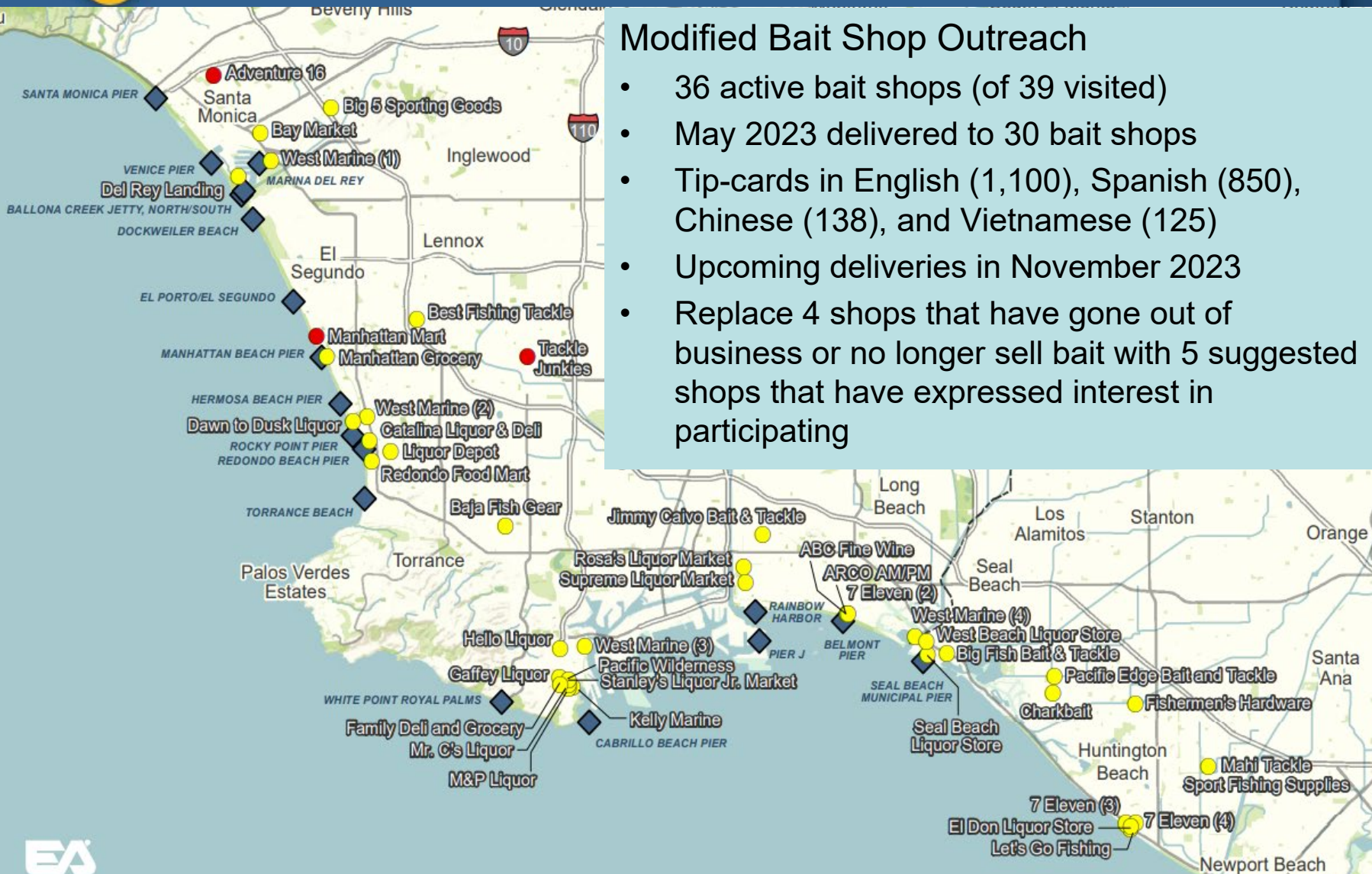
- Recent Events
 - Lummis Day Festival (Arroyo Parkway) - October 29th
- Partner Outreach Materials Inventory and Distribution
 - New inventory received and ready to distribute
 - Tip Cards, Fish ID, Pamphlets, Comics



Community Outreach – DBS&A

Modified Bait Shop Outreach

- 36 active bait shops (of 39 visited)
- May 2023 delivered to 30 bait shops
- Tip-cards in English (1,100), Spanish (850), Chinese (138), and Vietnamese (125)
- Upcoming deliveries in November 2023
- Replace 4 shops that have gone out of business or no longer sell bait with 5 suggested shops that have expressed interest in participating





Community Outreach – BPSOS

- Events completed since last FCEC Partners meeting May 2023:
 - Senator Umberg’s Biannual Community Health and Resources Fair, July 8, 2023
 - ~200 attendees, 77 booth visits, tip cards English (33), Spanish (41) and Vietnamese (3).
 - Garden Grove Police Department – National Night Out, August 1, 2023
 - ~500 attendees, 130 booth visits, tip cards English (40) and Vietnamese (40).





Community Outreach – BPSOS

- Events completed since last FCEC Partners meeting May 2023 (cont'd):
 - Community Wellness Event – Holy Spirit Church, August 26, 2023
 - ~120 attendees, 115 booth visits, tip cards in Vietnamese (115).
 - Community Health and Resource Fair at the Vietnamese Alliance Church, August 27, 2023
 - ~75 attendees, 50 booth visits, tip cards in Vietnamese (40).





Community Outreach – BPSOS

- Events completed since last FCEC Partners meeting May 2023 (cont'd):
 - Nhan Hoa Annual Health Fair, September 23, 2023
 - ~300 attendees, 181 booth visits, tip cards in Vietnamese (125).





Community Outreach – BPSOS

- Observations
 - Many community members were excited to use the tip card as a guide and especially liked the images of the fish inside the tip card to aid in fish identification.
 - Many attendees were surprised to hear about the contaminants found in fish.
 - Many attendees inquired about digital materials to limit the materials they carry from booth to booth. They felt if they could access it on their phones, it would be easier to locate the information and keep the tip card with them all the time.
- Upcoming Events
 - Researching new events for 2024.





Community Outreach – CCHC

- **Events completed since last FCEC Partners meeting May 2023:**
 - Chinese Christian Herald Crusades Annual Walkathon and Carnival, April 15, 2023
 - ~800 attendees, tip cards and brochures in Chinese (325) and English (35), Fish ID cards English (325).





Community Outreach – CCHC

Observations

- Most event attendees were unaware of the contamination, but they are interested in learning.
- The outreach materials are informative, and attendees were willing to read and keep.
- The fishing game is attractive, especially to attendees with young kids.
- A few attendees claimed they had received the outreach materials from our previous outreach event.

Anticipated Upcoming Event

- Researching events for 2024.





Community Outreach



Questions or Comments?



Upcoming Activities

- FCEC Website - <https://pvsfish.org/>
 - Complete
 - The Annual Enforcement Report has been posted to the website.
 - FCEC Partner Contact List update
 - Bait shop location map update
 - Upcoming
 - The Annual Pier Sign Summary and Annual Angler Outreach Report will be posted once they are finalized.
 - eNewsletter - December 2023
 - Advisory information updates
 - Updated Pier Photos
 - eNewsletter mailing list update for distribution



Upcoming Activities

- Pier sign cleaning activities
 - Starting with a selection of signs with various degrees of weathering and graffiti to assess how successful sign cleaning activities will be.
- FCEC outreach materials inventory and update
 - The outreach material order was received by DBS&A from the Government Printing Office in October 2023 for distribution to outreach partners.
 - Booth in a Box replacement equipment
 - Fishing Game replacement equipment



Outreach Material Redesign

Current tip card front

Do Not Eat 

-  **White Croaker**
-  **Barred Sand Bass**
-  **Black Croaker**
-  **Topsmelt**
-  **Barracuda**

 Some fish can be eaten with restrictions (see reverse).

 Some fish caught in this area are contaminated with harmful chemicals and should not be eaten (see list on left).



For health advice on fish caught outside the red area, visit: pvsfish.org/health/other-areas

PROTECT THE HEALTH OF YOU AND YOUR CHILDREN
Join with other fishermen and follow the advice in this tip card



www.pvsfish.org



Printed May 2013



Outreach Material Redesign

New tip card front

REDUCE YOUR RISK

Fish contaminated with PCBs and DDT do not look, taste, or smell any different than fish that are not contaminated.

- 1 Follow local fish advisories:** Avoid eating fish with unsafe amounts of PCBs and DDT.
- 2 Eat only the skinless fillet:** PCBs and DDT build up in the fatty parts of the fish.
- 3 Bake, broil, steam, or grill fish:** These cooking methods let PCBs and DDT drip away.



LEARN MORE



www.pvsfish.org

EATING CONTAMINATED FISH MAY HARM YOUR HEALTH!

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

- PCBs (*polychlorinated biphenyls*)
- DDT (*dichlorodiphenyltrichloroethane*)

During the 1950s-70s, wastewater containing PCBs and DDT was released into the ocean, contaminating the ocean floor of the Palos Verdes Shelf and making some fish unsafe to eat.



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



Eating fish with PCBs and DDT does not make people sick right away. The more contaminated fish you eat, the greater the amount of these chemicals build up in your body over time.



Children and women who are pregnant or planning to become pregnant are more sensitive to harmful chemicals and should be especially careful!

WARNING DO NOT EAT!



White Croaker
(Tomcod, Kingfish)



Barred Sand Bass



Black Croaker



Topsmelt



Barracuda

These fish are contaminated with harmful chemicals.



Outreach Material Redesign

Current tip card back

ONLY EAT THE SKINLESS FILLET



ONLY EAT ONE SERVING PER WEEK

FOR ADULTS



FOR CHILDREN



The recommended serving of fish is about the size of your hand.
Give children smaller servings.



ONLY EAT THE SKINLESS FILLET 1 TIME A WEEK

HERE ARE EXAMPLES OF SAFE FISH YOU CAN EAT



QUEENFISH



HALIBUT
Minimum Size 22 Inches



KELP BASS
Minimum Size 14 Inches



SCORPIONFISH
Minimum Size 10 Inches



PACIFIC SARDINE



SURFPERCH



PACIFIC MACKEREL



OPALEYE



ROCKFISH



CORBINA



SHOVELNOSE GUITARFISH



Additional bag or size limits or other restrictions apply to these species.
Please see California Department of Fish and Wildlife Sport-Fishing Regulations for more information.

Use this ruler to measure your fish

No minimum size limit for fish unless otherwise indicated

1

2

3

4

5

6

7

8

9

10

11

12



Outreach Material Redesign

New tip card back

FISH ADVISORY
SANTA MONICA PIER TO SEAL BEACH PIER

- 1 Santa Monica Pier
- 2 Venice Pier
- 3 Hermosa Beach Pier
- 4 Redondo Beach Pier
- 5 Cabrillo Pier
- 6 Pier J Piers
- 7 Rainbow Harbor Piers
- 8 Belmont Pier
- 9 Seal Beach Pier

For more information on fish advisories and consumption guidelines, visit: www.pvsfish.org/fishing/what-fish-are-safe-to-eat

HERE ARE EXAMPLES OF FISH THAT ARE SAFER TO EAT

	Jacksmelt		Sargo
	Pacific Mackerel <i>high in omega-3s</i>		Surfperch
	Pacific Sardine <i>high in omega-3s</i>		California Halibut <i>minimum size: 22 inches</i>
	Yellowfin Croaker		Kelp (Calico) Bass <i>minimum size: 14 inches</i>
	California Corbina		Shovelnose Guitarfish
	Pacific Bonito		

SERVING SIZE
A serving of fish is about the size and thickness of your hand. Pregnant women should consult with their physician about fish consumption.

Adults

Children





Outreach Material Redesign

Fish	Number caught per species across all pier locations.
Fish on the "Do Not Consume" List	
Barracuda	0
Barred Sand Bass	27
Black Croaker	2
Topsmelt	189
White Croaker	80
Fish Identified as Safer to Eat on Outreach Materials	
Corbina	45
Halibut	30
Jacksmelt	421
Kelp/Calico Bass	11
Mackerel	1479
Rockfish	10
Sardine	1973
Sargo	27
Shovel Nose Guitarfish	21
Yellowfin Croaker	16
All Other Documented Fish Species	
Black Perch	2
Bonito	55
Crab	42
Leopard Shark	1
Lizard Fish	2

HERE ARE EXAMPLES OF FISH THAT ARE SAFER TO EAT

Jacksmelt

Sargo

Surfperch

Pacific Mackerel *high in omega-3s*

California Halibut *minimum size: 22 inches*

Pacific Sardine *high in omega-3s*

Kelp (Calico) Bass *minimum size: 14 inches*

Yellowfin Croaker

California Corbina

Shovelnose Guitarfish

Pacific Bonito

SERVING SIZE
A serving of fish is about the size and thickness of your hand. Pregnant women should consult with their physician about fish consumption.

Adults Children

7 8 9 10 11 12



Outreach Material Redesign

- Pier signage redesign
 - Do Not Consume Pier Signs
 - We would like your redesign recommendations!

Protect your health
Proteja su salud

Do Not Eat Contaminated Fish
¡No Coma Pescado Contaminado!



- **White Croaker**
Corvineta blanca, Roncador blanco
白姑魚 | Cá Lù Đù Trắng
- **Barred Sand Bass**
Cabrilla de arena
星雲剛鯷 | Cá hành sọc
- **Black Croaker**
Corvineta negra, Roncador negro
黑姑魚 | Cá Lù Đù Đen
- **Topsmelt**
Pejerrey
擬銀漢魚 | Cá Suốt
- **Barracuda**
Barracuda
梭子魚 | Cá Nhổng

Choose healthy fish; check your local advisory.
Coma pescados saludables; infórmese con su asesor local.

www.pvsfish.org





Open Forum





Thank you!

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

Renee Jordan Ward
US EPA Region 9
JordanWard.Renee@epa.gov
(415) 972-3129

Travis Austin
EA Engineering (contractor)
TAustin@east.com
303-704-7556