



FCEC Partners Meeting

Palos Verdes Shelf Superfund Site

07 May 2025

9:00 AM – 11:00 AM

Hybrid Meeting



Agenda

- Welcome and introductions
- EPA updates
- Program updates
- Angler Outreach updates / Q&A

Break

- Community Outreach updates / Q&A
- Program Proposals and FCEC Action Items
- Open forum



Introductions

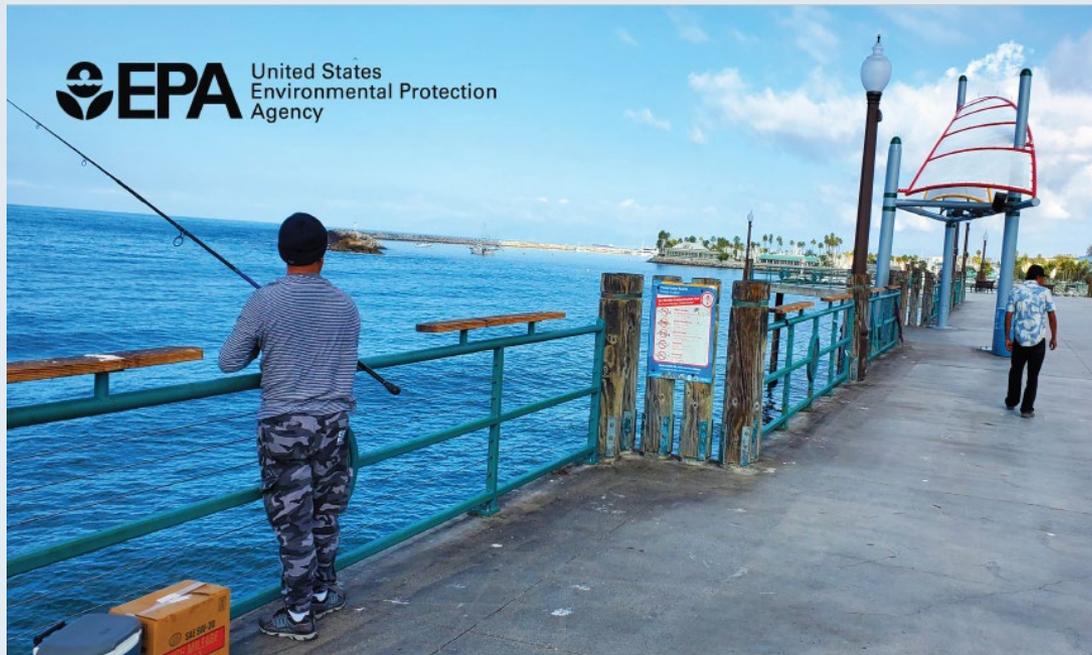
- Self-introductions





EPA Updates

- Draft Community Involvement Plan!



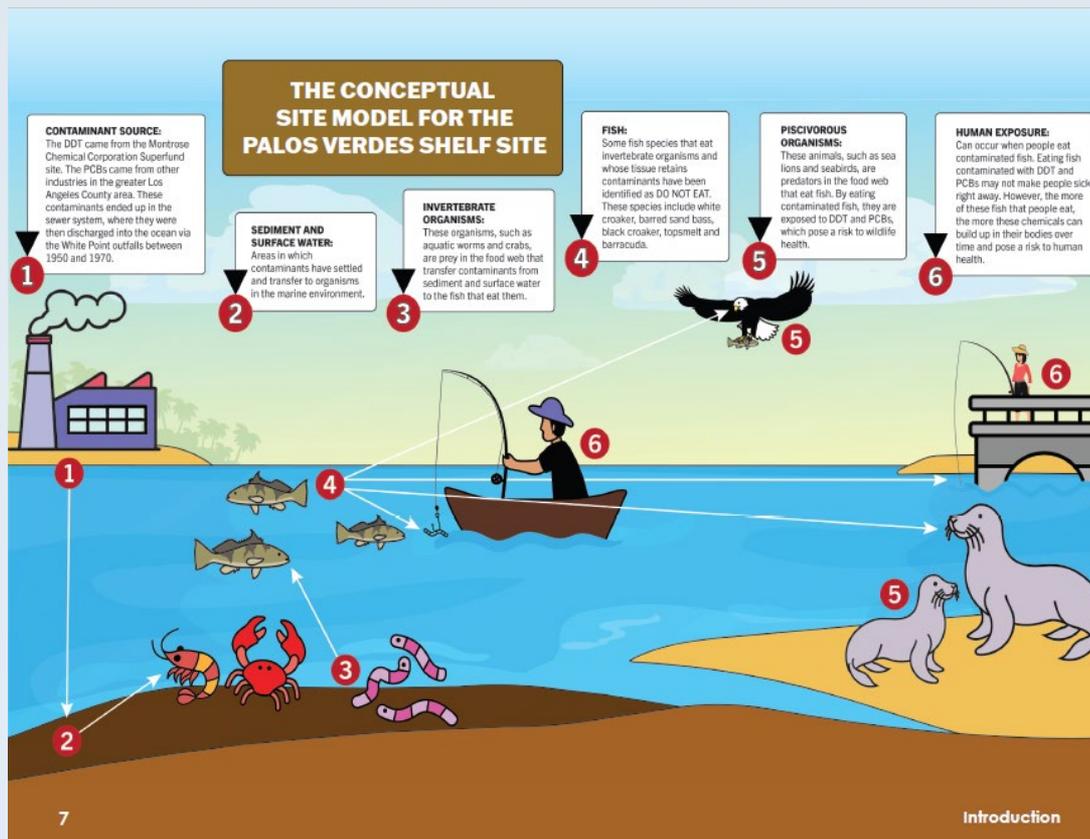
Palos Verdes Shelf Site
COMMUNITY INVOLVEMENT PLAN

SPRING 2025 **DRAFT**



EPA Updates

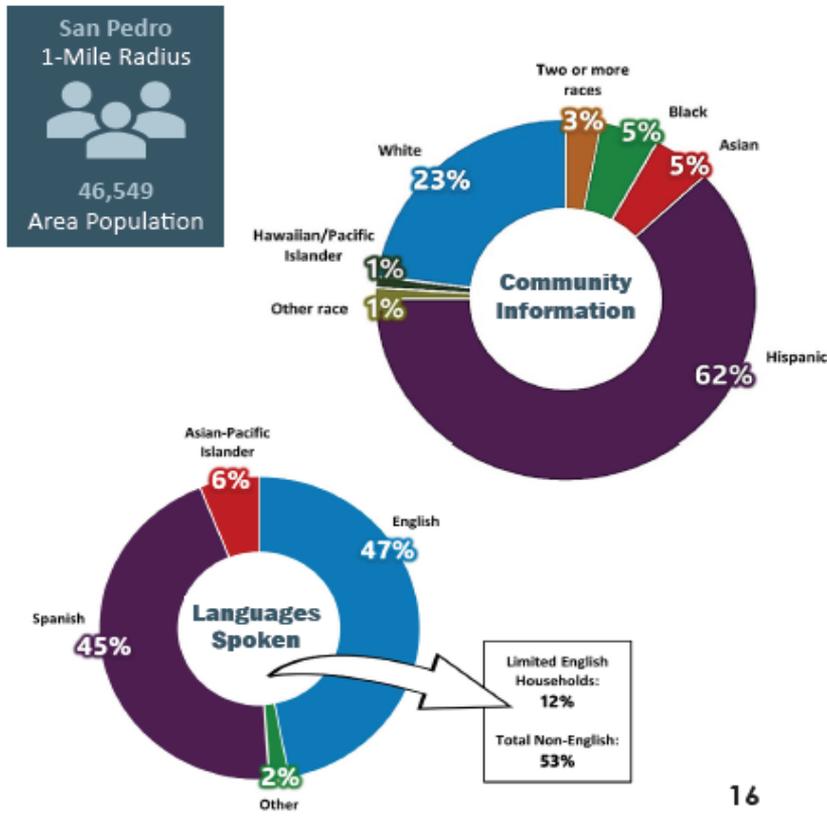
- Draft Community Involvement Plan!



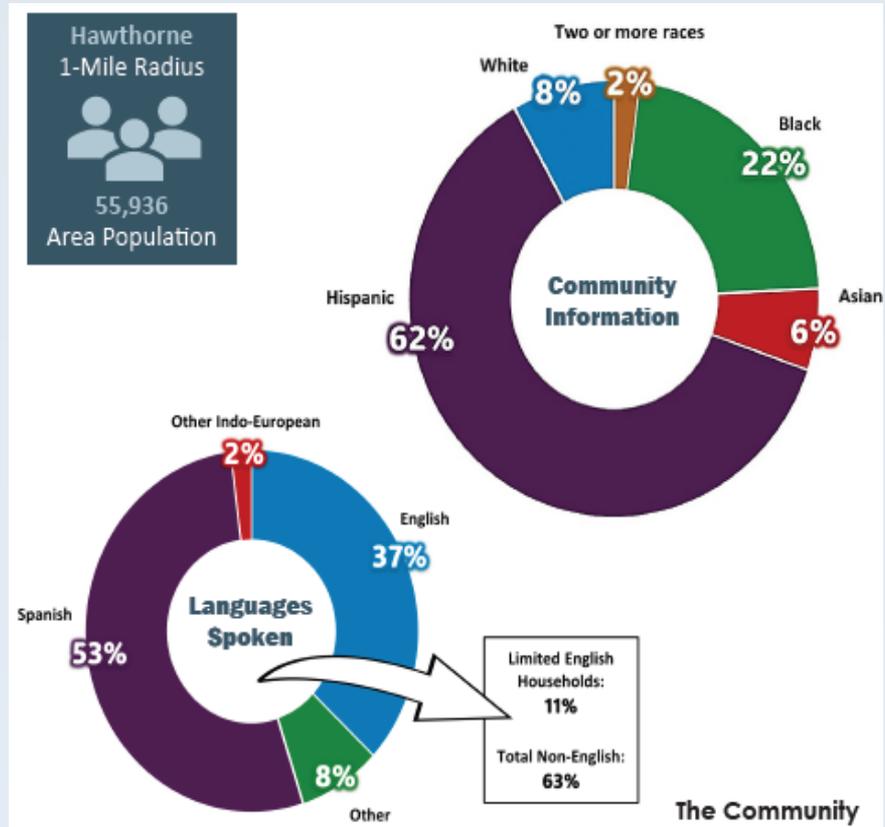


EPA Updates

- Draft Community Involvement Plan!



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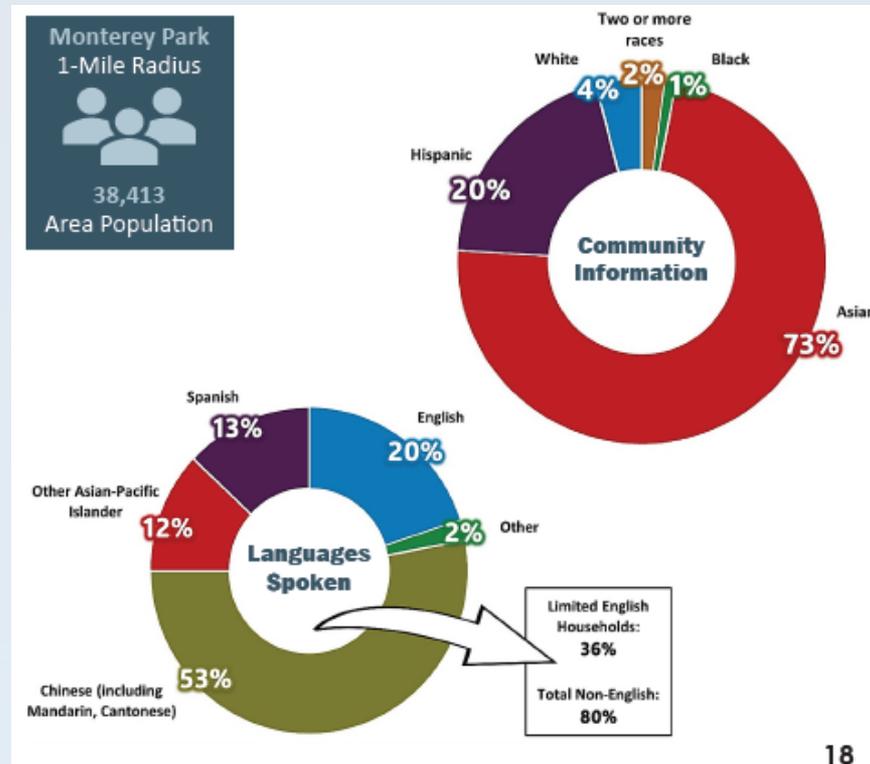


The Community



EPA Updates

- Draft Community Involvement Plan!





EPA Updates

- Draft Community Involvement Plan!
 - Requesting FCEC feedback (due May 9)

Questions or Comments?





Program Updates

- Los Angeles wildfires
 - General pause in all outreach from January 6-14th
 - Then pauses in outreach depended on area/conditions through February 16th

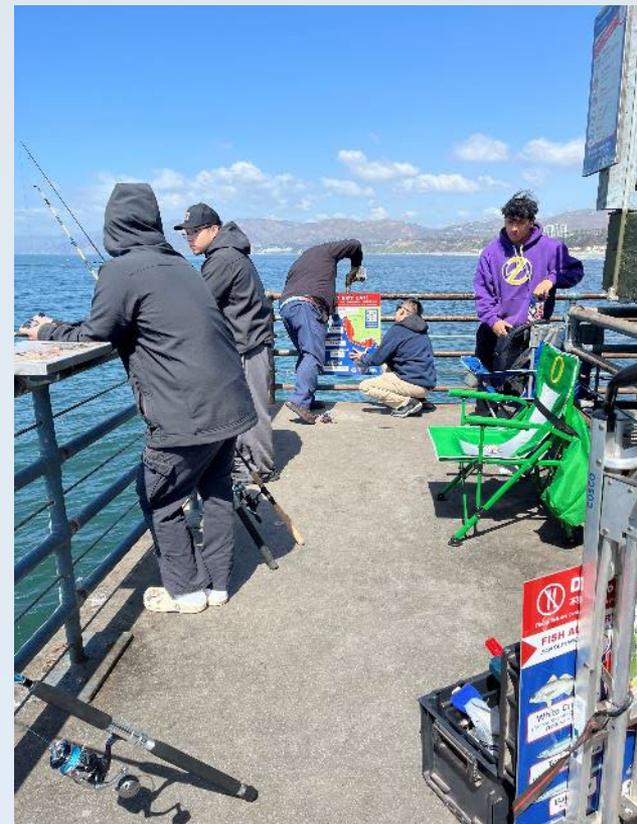


New York Times



Program Updates

- New pier sign installation!





Program Updates

- New pier sign installation!

Phase 1

- Cabrillo Pier (✓)
- Redondo Beach Pier (✓)
- Hermosa Beach Pier (✓)
- Santa Monica Pier (✓)
- Venice Pier
- Manhattan Beach Pier
- Seal Beach Pier
- Belmont Pier
- Pier J

Phase 2

- Playa Del Rey Beach
- Rocky Point
- Royal Palms/White's Point
- Torrance Beach
- Ballona South
- Dockweiler State Beach
- El Segundo Beach (jetty)
- Marina Del Rey Pier



Program Updates

- Transition to electronic tally forms coming soon

Educational Outreach Tally Sheet

EA USE: Form # _____ Last Modified April 19, 2024

Date: 11/3/24 Pier Location: Redondo Outreach worker(s): Matias + Noah
 Total # anglers on pier at beginning/end of shift: 12/1 Start Time: 4:00 End Time: 4:30 Day Outreach Night Outreach

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

	Is the person an adult or a child	Did they agree to speak to you?	Is the person receiving outreach for the 1 st 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	Tip cards Distr. (English, Spanish, Chinese, Vietnamese)	Zip Code	Species and Number of Fish Caught (make a note if the number is an estimate)	NOTES
4	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	—	E	E	92140		
2	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> New <input checked="" type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	AOP	E	E	—		
3	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Tip-card	E	2 (E)	90745		
4	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	AOP	E	—	—		
6	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Signage	E	E	95160		
7	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	AOP	E	—	—		
8	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	AOP	E	—	—	1 C106	C+R
9	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	—	E	E	93534		
10	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	AOP	E	—	—		
11	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Tip-card	E	E	Vegay, Nevada		
12	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	AOP	E	—	How much fish? 15oz filling		
13	<input type="checkbox"/> Adult <input type="checkbox"/> Child	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> New <input type="checkbox"/> Repeat	<input type="checkbox"/> No <input type="checkbox"/> Yes						

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

Signature: Matias Date: 11/3/24
 Print Name: Matias Giberroni

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



Angler Outreach Program Survey Report

October 9, 2024

Location: Santa Monica
 Start Time: 11:00
 End Time: 11:02
 Weather: Clear, 60.4°F

Respondent Type: Adult

Agree to Speak? Yes

Respondent Information

Outreach Status: New
 Contamination Awareness: Not Aware
 Awareness Source: AOP Team

Intent: Keep and Consume
 Zip Code: 99999

Tip Card Handed Out? Yes
 Tip Card Language: Other/Russian
 Tip Card Source: AOP Outreach
 Primary Language: Russian
 Secondary Language: English

Fish Species Information

Species Caught: Top smelt
 Count: 2
 Species Caught: Octopus
 Count: 1
 Species Caught: White Seabass
 Count: 3

Additional Notes: _____

Photograph: 

Sample Report



Program Updates

- All 2023-2024 Annual Reports are posted to pvsfish.org
- Spring newsletter coming out in May
- Outreach Educator lanyards are now in use:



**Fish Contamination
Education Collaborative**
OUTREACH EDUCATOR



pvsfish.org



Angler Outreach





Pier Angler Outreach Summary

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

**Pauses in outreach due to LA wildfires
January 6 – February 16, 2025**





Pier Angler Outreach Summary

- Outreach covers an estimated 43 miles of coastline





Pier Angler Outreach Summary

- Pier Angler Outreach August 2024-February 2025

5,234 total anglers contacted; **4,233 anglers interviewed**

**2,361 (45%)
new**

**2,427 (46%)
reported awareness**

1,910 Tip-cards handed out

- 1,725 – English
- 156 – Spanish
- 23 – Chinese
- 6 – Vietnamese

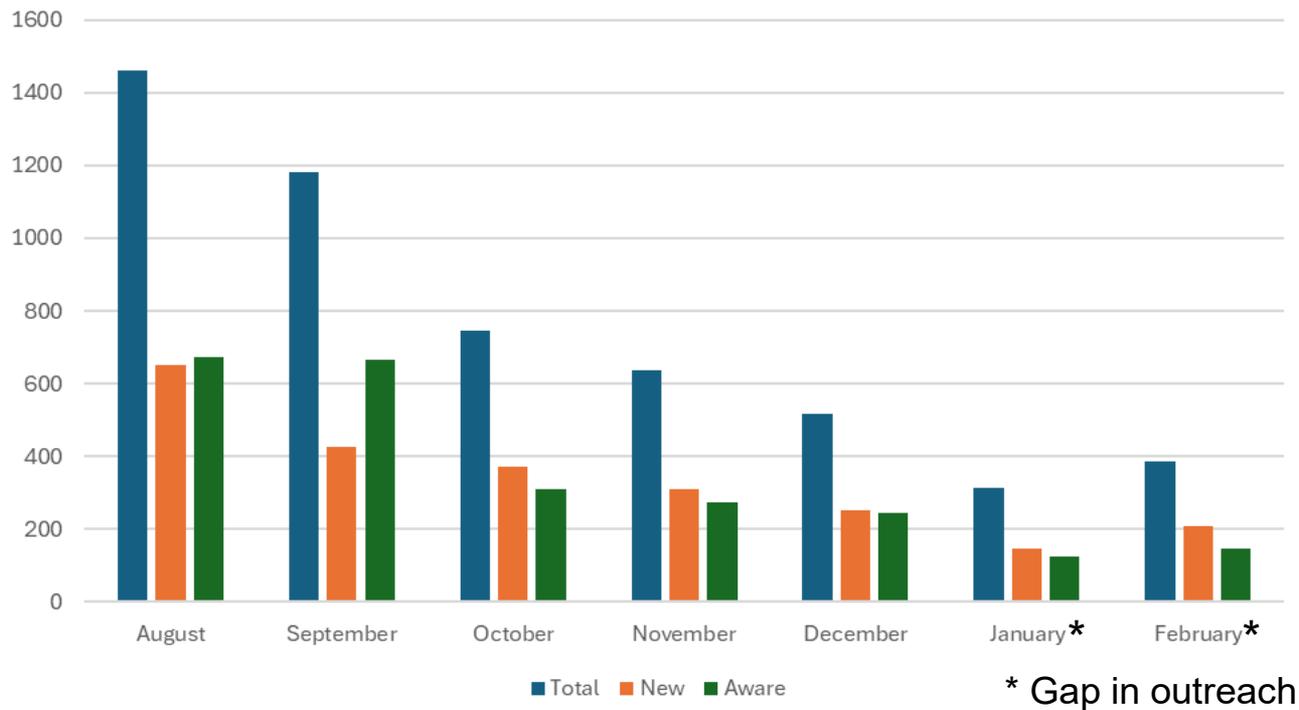
Awareness sources

- DNC pier signage (14.7%)
- Pier angler outreach (74.9%)
- Tip-cards (1.7%)
- Internet, media, friend/family, and other (8.7%)
- Community events (0%)



Pier Angler Outreach Summary

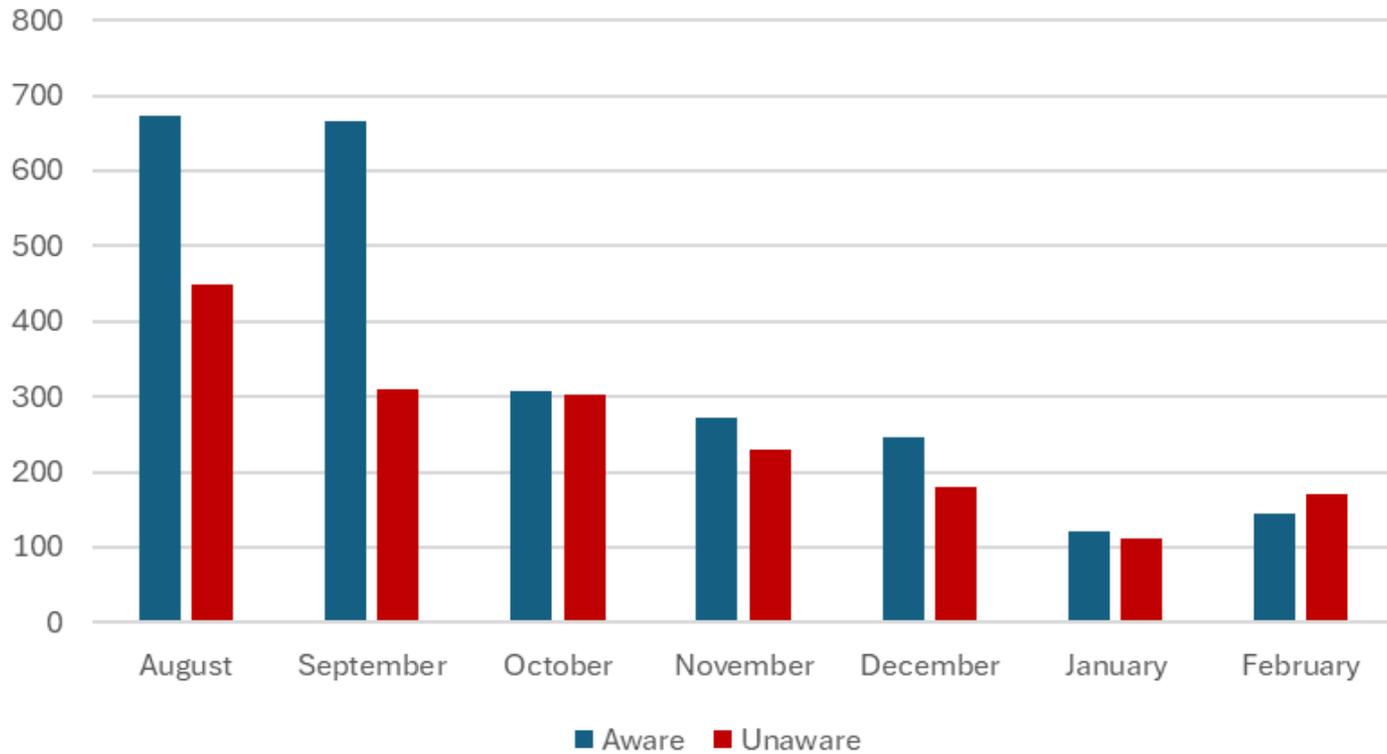
Total Pier Anglers Reached
August 2024 - February 2025
(Cabrillo and DBS&A, Day and Night)





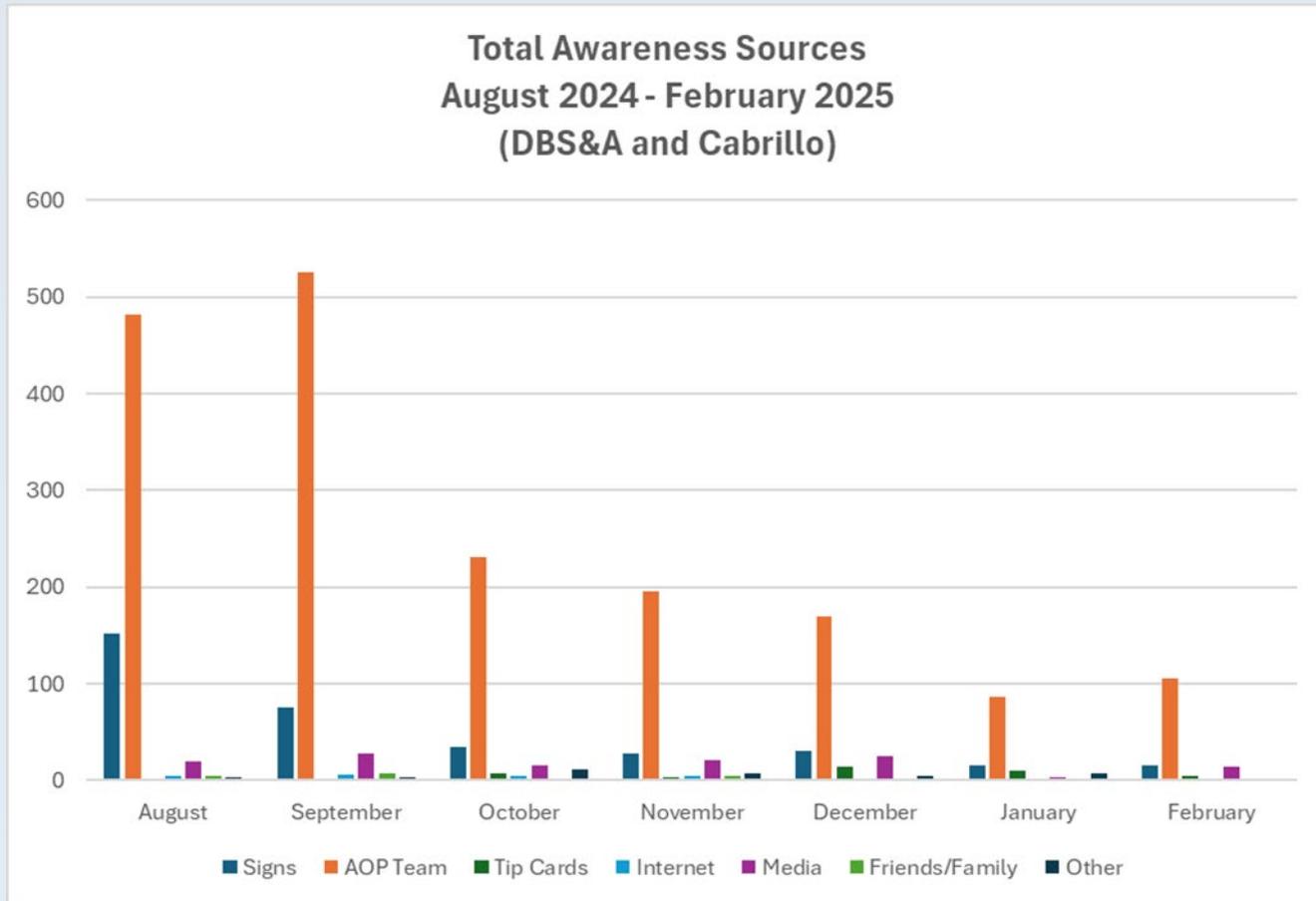
Pier Angler Outreach Summary

Total Reported Awareness of Fish Contamination
Advisories at All Piers





Pier Angler Outreach Summary





Pier Angler Outreach Summary

Zip code analysis

- 402 zip codes provided from August 2024-February 2025; 2,308 anglers provided a zip code
- 31 counties represented
 - Los Angeles County by far the most common (1,867 anglers)
 - Other common counties were Orange (146 anglers), San Bernardino (117 anglers), Riverside (64 anglers), and Ventura (23 anglers)
 - 14 anglers were from outside the U.S. – Argentina, Bulgaria, China, Mexico, Russia, and Ukraine



Angler Outreach DBS&A + Cabrillo August 2024-February 2025





Angler Outreach Day/Evening Participant Breakdown

Reporting Period: August 2024 – February 2025 (6 months)

Daytime Outreach

- ▶ New: 1,830 (48%)
- ▶ Aware: 1,921 (51%)

- ▶ Total Daytime Anglers Interviewed: 3,314

Evening Outreach

- ▶ New: 531 (46%)
- ▶ Aware: 506 (44%)

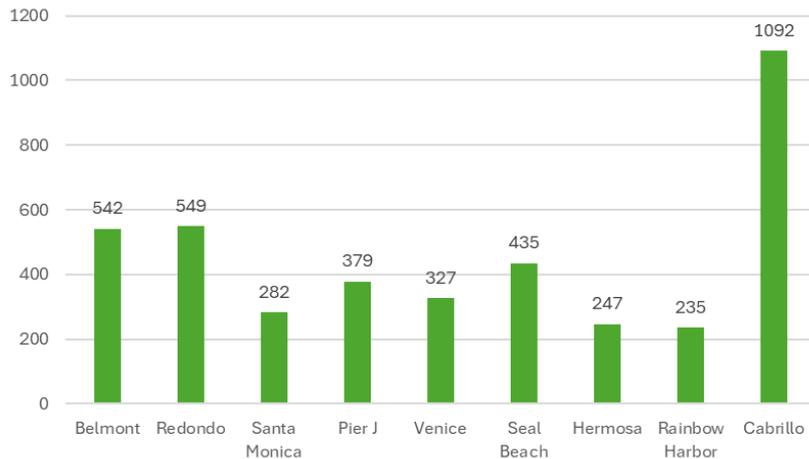
- ▶ Total Evening Anglers Interviewed: 919

Engagement Total – Interviewed Daytime and Evening Anglers: 4,233

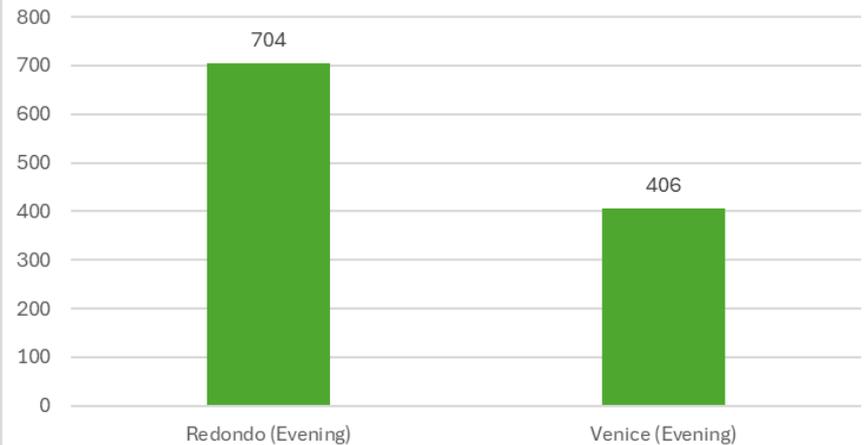


Daytime and Evening Anglers by Pier

Total Number of Daytime Anglers by Pier



Total Number of Evening Anglers by Pier

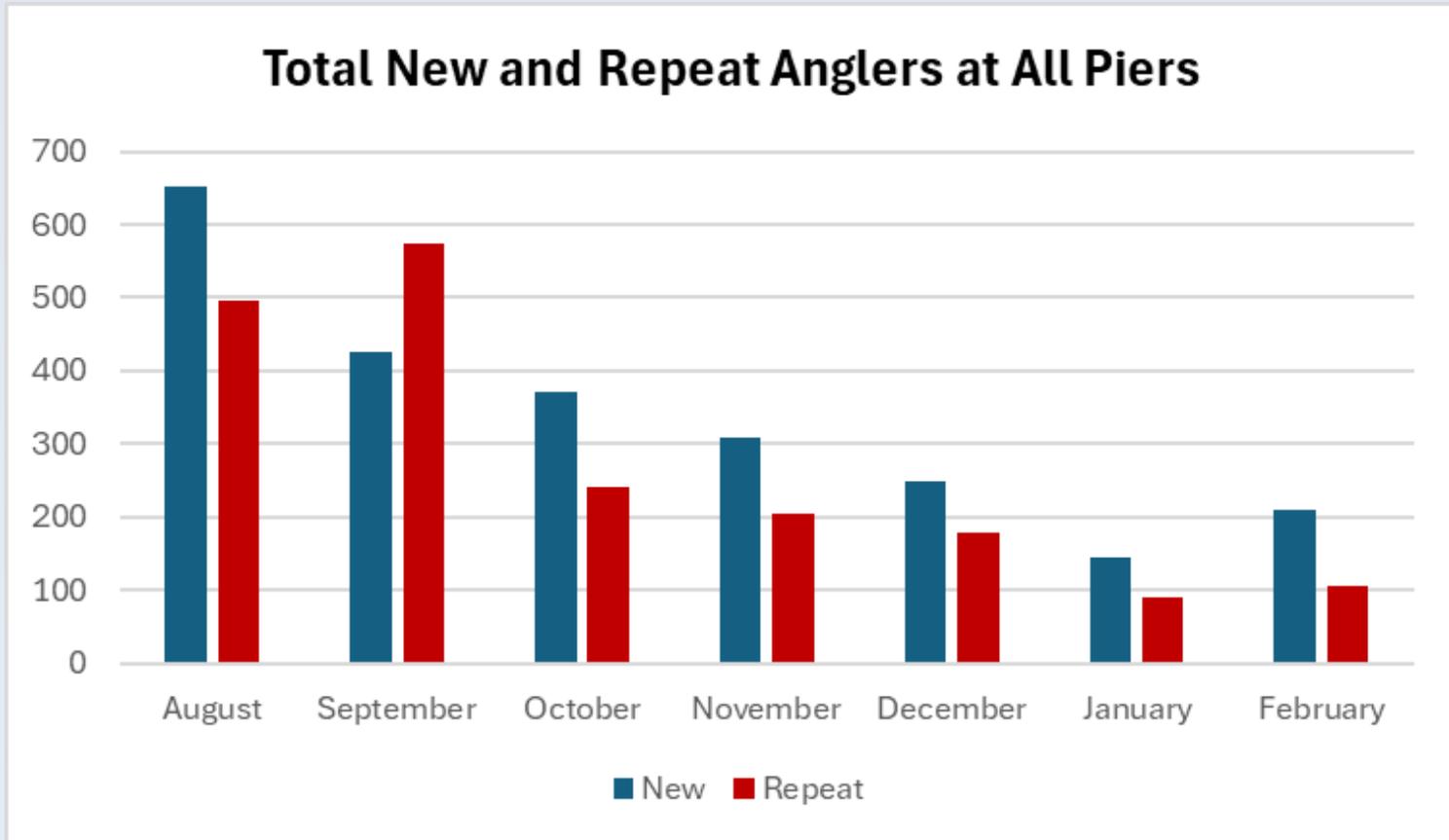


Cabrillo was the busiest pier during daytime outreach

Redondo was the busiest pier during evening outreach



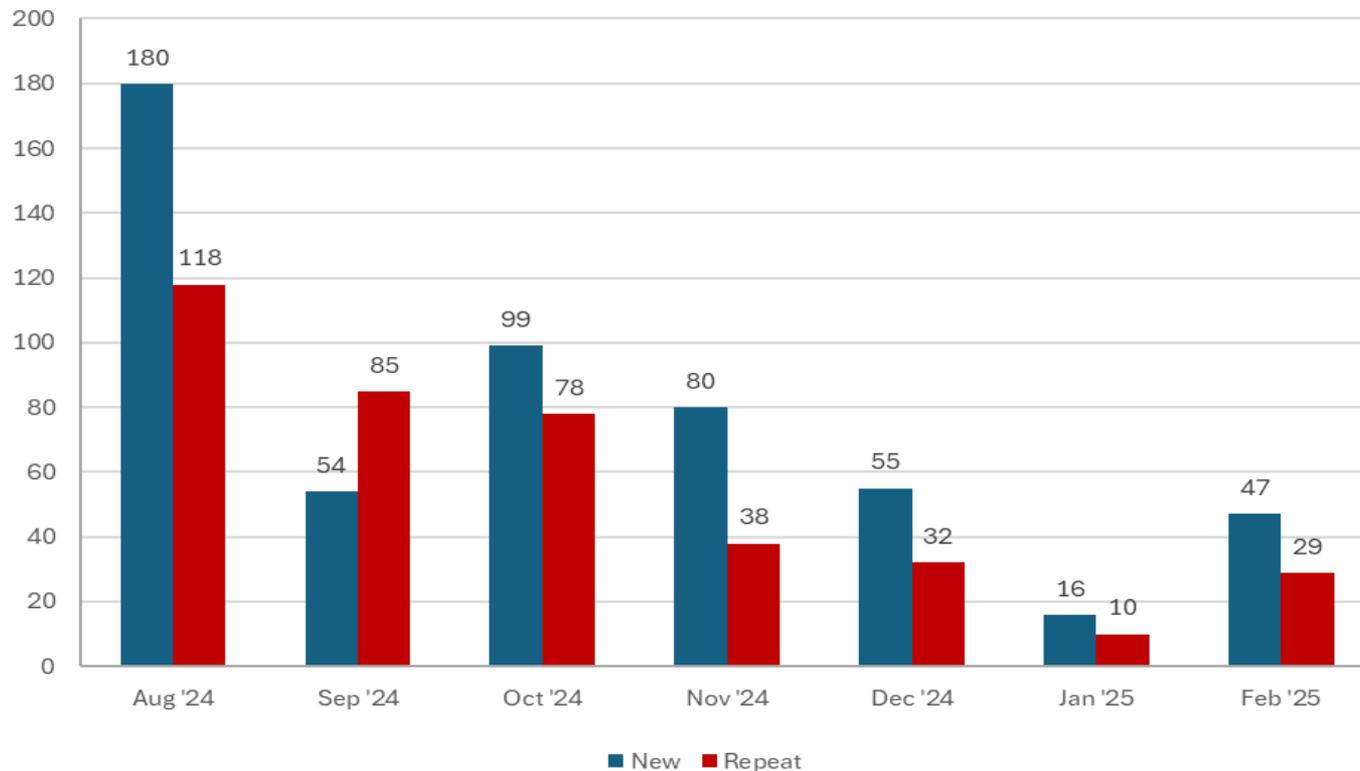
New and Repeat Anglers from August 2024 – February 2025





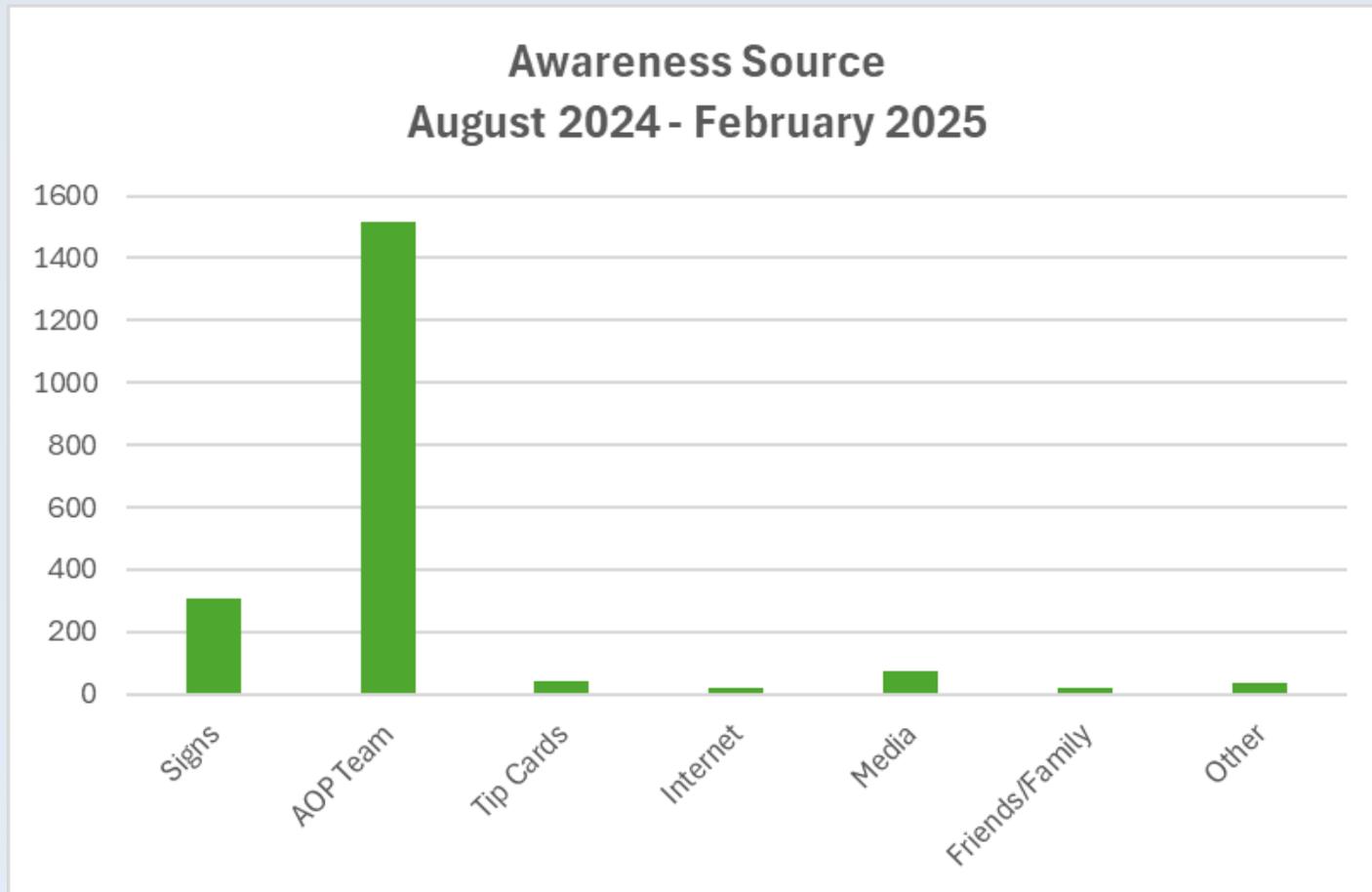
New and Repeat Evening Anglers from August 2024 – February 2025 Venice and Redondo Beach Pier

Total anglers surveyed from Venice and Redondo Beach Pier





Angler Awareness Sources

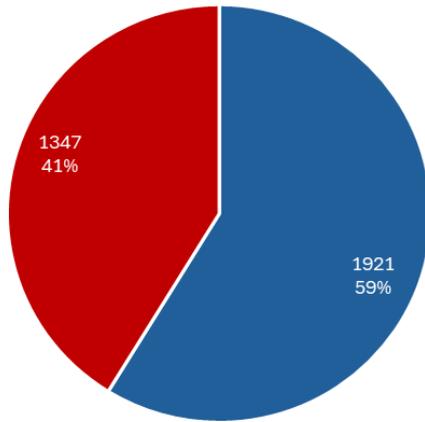




Anglers Reportedly Aware of Fish Contamination August 2024– February 2025

Daytime outreach

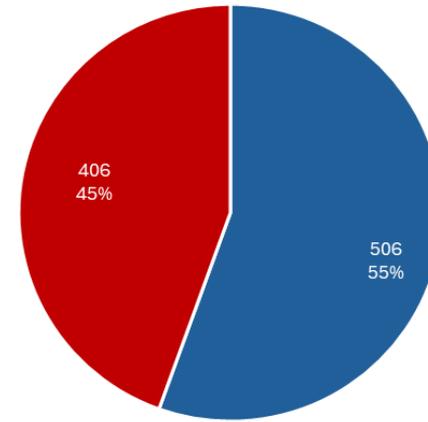
Total Anglers Aware of Fish Contamination
Advisories During Daytime Hours (8:00AM-3:59PM)



■ Yes ■ No

Evening outreach

Total Anglers Aware of Fish Contamination
Advisories During Evening Hours (4:00-8:00PM)



■ Yes ■ No



DBS&A and Cabrillo Outreach Observations

- Belmont and Redondo Beach Piers are consistently the most active, while Rainbow Harbor is consistently the least active
- The AOP team has become the most cited source of awareness, where in the past it has been signage
- Continued outreach efforts are necessary, as large numbers of anglers remain unaware of contamination issues
- Replacement DNC signs may impact reported awareness sources and are hoped to increase reported awareness.



2025 DNC Pier Sign Routine Inspection Results

As of March 2025, 50 pier sign locations were inspected during routine angler outreach (42 inspected by DBS&A, 8 inspected by Cabrillo):

- 28 in good condition- *25 of these are new signs!*
- 2 in fair condition
- 5 in poor condition
- 15 signs are reported missing

New signs have been installed by LACDPH at Cabrillo Pier, Redondo Pier, Hermosa Pier, and Santa Monica Pier!



Pier Angler Outreach



Questions or Comments?





BREAK





Community Outreach





Community Outreach Summary

- Participation at outreach events in early 2025 were cancelled due to the wildfire emergency and evacuations in Los Angeles County
- Outreach partners will have attended 6 community events since the last FCEC meeting; at the first 3 of these events, so far:
 - ~17,000 people attended the events!
 - ~ 1,000 people interacted with the FCEC booths



Community Outreach – DBS&A

Cabrillo Marine Aquarium Whale Fiesta – February 2

Three Aquarium of the Pacific Events:

- Noche De Estrellas – March 21
- Children's Festival – March 29-30
- Earth Day April 26-27





Observations/Recommendations

- Outreach Materials
 - In the fishing game, some fish have stronger magnets than others, leading to the same species being caught repeatedly; *fixing this soon!*
 - Anglers like the fish ID cards and expressed intentions to display them in fishing vessels
 - In the current booth setup, the tri-fold display board does not stand up to strong winds
- Several guests expressed awareness of contamination due to having seen the documentary “Out of Plain Sight”
- Recommendation: the Cabrillo Marine Aquarium’s Exploration Center would be a good location for a permanent interactive FCEC outreach installation.



Community Events – CCHC

CCHC attend the following events:

- CCHC Walkathon 2025 – April 26
- City of Alhambra, 2025 Eco Fair – April 27



Community Events – BPSOS

BPSOS is looking for suitable events.





Bait Shop Outreach

During this reporting period, DBS&A visited 36 of the 40 bait shops:

- A total of 3,305 tip cards were distributed to 36 bait shops
 - 1,000 English
 - 1,000 Spanish
 - 825 Chinese
 - 330 Vietnamese
 - 75 English and 75 Spanish older design tip cards distributed to shops that requested additional materials
- Two shops no longer want to distribute FCEC materials.



Community Outreach – LACDPH

Public Health Nurse Orientation

- Presented to newly hired nurses at orientations
2/19/2025 – 30 PHNs attended
- Provided educational resources for the PHNs to distribute to patients and other interested community members



Community Outreach – LACDPH

Public Information Clearinghouse

- Continue to maintain and update LACDPH's Fish Contamination website:
 - Fish advisories
 - Educational materials
- Fill requests for fish contamination information
 - CBOs
 - Health/Medical Professionals
 - General Public/Schools
 - County Departments



Community Outreach – LACDPH

Pier Signs!





Community Outreach – LACDPH

Santa Monica Pier





Community Outreach – LACDPH

Cabrillo Pier





Community Outreach – LACDPH

White Point/Cabrillo Pier





Community Outreach – LACDPH

Redondo & Hermosa Beach Piers





Community Outreach

Questions or Comments?





Program Proposals

DNC Pier Sign Locations

- Plan to follow recommendations for other coastal sign locations (based on annual report)
 - For example, removing signs at El Porto/El Segundo
- Seeking additional input on other coastal locations!

DO NOT EAT!
不要吃 **¡NO CONSUMA!** **KHÔNG ĂN**
These fish are contaminated with chemicals known to cause serious health problems

FISH ADVISORY
SANTA MONICA PIER TO SEAL BEACH PIER

Learn more at pvsfish.org

White Croaker
(Tomcod, Kingfish) *Corvina blanca*, 白姑魚, Cá Đù Trắng

Topsmelt
Pejerrey pescadillo, 羅眼漢魚, Cá Suốt

Barracuda
梭子魚, Cá Nhòng

Barred Sand Bass
Cabrilla de arena, 墨斑刺魷, Cá Vược Cát cấm

Black Croaker
Corvina negra, 黑姑魚, Cá Đù Đen

LOGO PLACEHOLDER

EPA



Program Proposals

- Pause printing paper curriculum guides until:
 - Content is updated
 - Establish partnerships with the LA Unified School District
- DNC stickers?





FCEC Action Items

1. Provide feedback (by **May 9**) on the Draft Community Involvement Plan
2. Provide feedback and recommendations (by **May 28**) on:
 - additional pier sign placements
 - paper curriculum guides
 - stickers



Open Forum





THANK YOU!

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

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EPA Region 9

JordanWard.Renee@epa.gov