



**CALIFORNIA FISH
PASSAGE FORUM**



**PACIFIC STATES
MARINE FISHERIES
COMMISSION**

Passage Assessment Database (PAD) Expert Review Webinar

**March 20th, 2024
CDFW Region 2- North Central**

Agenda

- 10:00am** Overview of Webinar
- 10:05am** Introductions
- 10:15am** Overview of the California Fish Passage Forum
- 10:30am** Presentation on PAD and the PAD Plan Effort
- 11:15am** Roundtable Discussion focused on Region 2

Holly Steindorf

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Neal Scheraga

Data Management Specialist
Neal.Scheraga@wildlife.ca.gov

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Statewide Aquatic Connectivity Coordinator
CDFW Andrew.Hampton@Wildlife.ca.gov

General Overview

Learn about the resources available through the California Fish Passage Forum

Learn about utilizing expert knowledge to review and add to non-Caltrans records of barriers in anadromous waterways to the Passage Assessment Database (PAD).

Discuss priorities, projects, and successes and issues encountered in advancing fish passage projects in Region 2- North Central

CDFW MANAGEMENT REGIONS



Introductions

Please fill out your watershed of expertise using the Google Form.

<https://forms.gle/recYdiLpbSndqoZu8>

In the Chat

- Introduce yourself
- What area/watershed are you working in?

PAD Plan, Region 2 - Local Fish Passage Expertise Assessment

The California Fish Passage Assessment Database (PAD) and California Fish Passage Forum are undertaking a statewide effort to review and update records in the PAD. The information gathered through this effort will improve the PAD, which is an important tool to improve fish passage in California used by restoration practitioners, decision-makers, funders, and fish passage professionals.

To be effective, the data in the PAD needs to accurately depict fish passage constraints (e.g., the number of barriers that exist and where they are located.) Verification of these barriers by local experts is a critical component of this effort, and we are hoping you can contribute the current conditions of these barriers. This effort is focused on barriers within [California Department of Fish & Wildlife - Region 2](#).

****Please fill out this form to indicate which watersheds you have local knowledge/experience of the presence and/or status of fish passage barriers, and if you would be willing to contribute to this effort.****

The local knowledge of experts is vital to this effort, and we recognize this is likely an additional task on top of your daily workload. But we hope you'll be willing to help in this effort and we greatly appreciate your consideration.

Thank you in advance!

Members of the California PAD and California Fish Passage Forum

holly.flann95@gmail.com [Switch account](#)



* Indicates required question

Email *

Your email



CALIFORNIA FISH PASSAGE FORUM

**Mission: To protect and revitalize
anadromous fish populations in
California by restoring connectivity of
freshwater habitats throughout their
historic range.**



A 2019 Project lead by Trout Unlimited to install a large bottomless culvert at the Skunk Train crossing of Noyo River, east of Fort Bragg.

Members



**CALIFORNIA FISH
PASSAGE FORUM**



**NOAA
FISHERIES**



Our Objectives

Seven strategic objectives including:

- Funding removal/remediation of barriers, assessment and research work.
- Improving collaboration/information sharing of agencies/organizations.
- Collating and elevating resources for practitioners.
- Increasing access to streamlined permitting options.
- Outreaching successes of fish passage restoration across our geographic scope.



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STRATEGIC FRAMEWORK

2023–2028

Updated December 2023



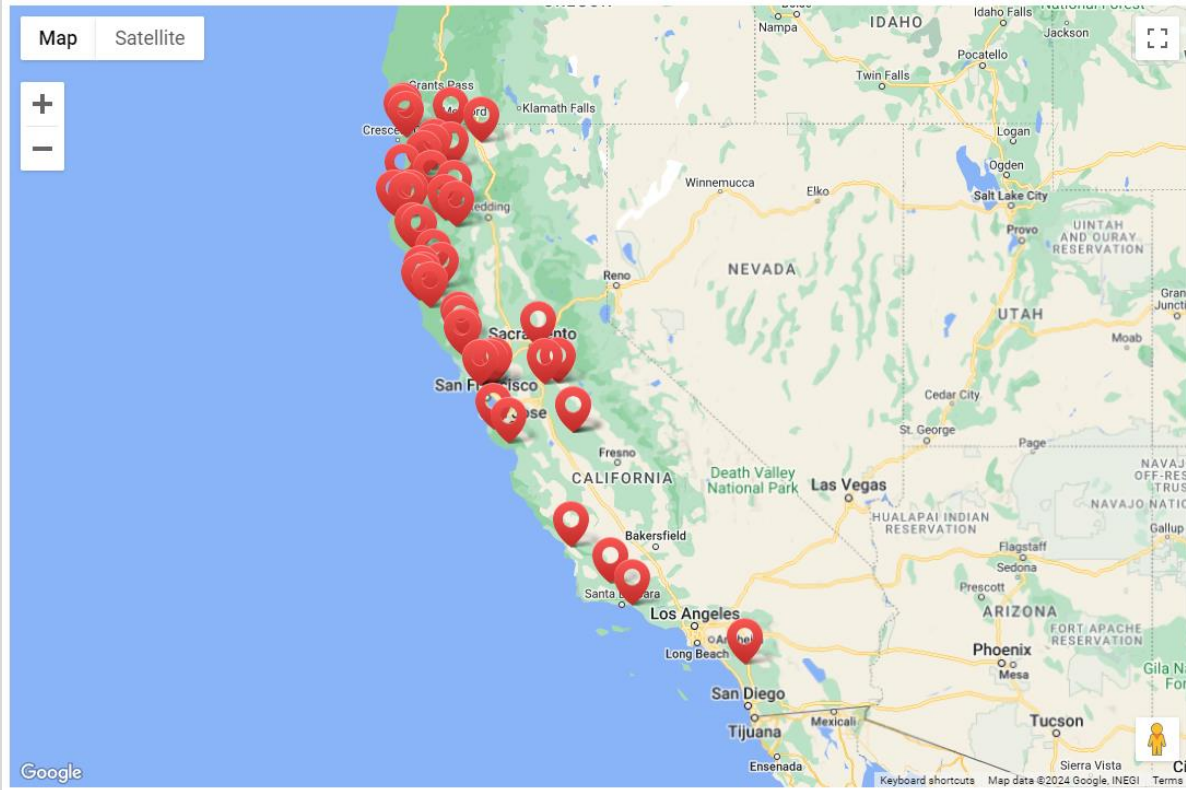
WWW.CAFISHPASSAGE.ORG

WWW.CAFISHPASSAGEFORUM.ORG

Past Work



CALIFORNIA FISH PASSAGE FORUM



Barriers to Tidal Connectivity | Symposium | BTC Map Viewer | PMEP | CFPF | PLCI

- BTC - Culverts**
Publicly available culvert datasets
- BTC - Tidegates**
Publicly available tidegate datasets
- BTC - Levees and Dikes**
Publicly available levee and dike datasets
- BTC - Railways**
Publicly available datasets on railroads
- BTC - Roads**
Publicly available road datasets
- BTC - Areas Behind Tidal Barriers**
Dataset identification of deluged areas


Forum Map of Funded Projects


57 PROJECTS SUPPORTED


50+ BARRIERS REMEDIATED


295+ MILES OF ACCESS


1.7M+ IN FUNDING

Barriers to Tidal Connectivity Hub site 

Past Work



CALIFORNIA FISH PASSAGE FORUM

Fish Passage Monitoring Methods

Prepared for the California Fish Passage Forum

By
Ross Taylor and Associates

July 20, 2015

Fish Passage Monitoring Methods Report

California Fish Passage Forum
Fish Passage Barrier Removal Monitoring Worksheet

A General Info

Project Name: _____
Barrier name and GPS Coordinates: _____ Lead organization: _____
Monitoring Contact: _____ Phone: _____ Email: _____

PRE-IMPLEMENTATION		POST-IMPLEMENTATION	
B Project Timing	Anticipated Start Date: _____ Anticipated End Date: _____	Construction Start Date: _____ Construction End Date: _____	
C Basic information	Date final project design was completed: _____ Anticipated stream miles restored: _____ miles Description of barrier: _____ Landowner: _____	Actual stream miles restored: _____ miles Verification methods: _____	
D Site "Passability"	Describe the following physical parameters of the project: Channel Width in Project Area: Baseline: _____ ft. Target Range: _____ to _____ ft. Channel Slope / Gradient in Project Area: Baseline: _____ % Target Range: _____ to _____ % Maximum Channel Slope: _____ % Maximum Jump Height: Baseline: _____ ft. Target Range: _____ to _____ ft. Does the project design meet regionally appropriate fish passage criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No Provide reference sources used to develop target ranges: _____	Describe the as-built parameters at the site: Channel Width in Project Area: As-Built Condition: _____ ft. Channel Slope / Gradient in Project Area: As-Built Overall Slope: _____ % As-Built Maximum Channel Slope: _____ % Maximum Jump Height: As-Built Condition: _____ ft. Does the as-built conditions fall within the target ranges listed at left? <input type="checkbox"/> Yes <input type="checkbox"/> No Comments: _____	

Fish Passage Barrier Removal Performance Measures & Monitoring Worksheet



Forum Meeting in November 2023 with field tour of the Jackson Family Wines yellowjacket creek project

Upcoming Events



CALIFORNIA FISH PASSAGE FORUM

- Anyone Attending Salmonid Restoration Federation Conference March 26-29? Show of hands! Come see us at the poster session.
- April 5th Funding and Resources Webinar
- Next set of PAD Expert Webinars (Region 1 Coastal and Region 1 Inland) Put in the chat if you want an invite.
- November 2024, Date TBD- Forum Meeting in Sacramento with an associated field day outreach event!

A screenshot of the California Fish Passage Forum website. The header includes the logo and navigation links: ABOUT, IDENTIFY + ASSESS BARRIERS, FUNDING, PERMITTING, MONITORING, and INTRANET. The main content area features a large image of a forest with sunlight filtering through the trees, overlaid with the text "Protecting and Restoring Anadromous Fish Habitat". Below this, there is a section titled "UPCOMING EVENTS". At the bottom, there are three call-to-action boxes: "ABOUT US" (describing the forum's mission), "NEWSLETTER" (with a subscription form including fields for Name, Email, and Organization, and a "Subscribe" button), and "WE'D LOVE TO HEAR FROM YOU" (with contact information for Holly Steindorf, Coordinator).

WWW.CAFISHPASSAGEFORUM.ORG



**CALIFORNIA FISH
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FUNDING AND RESOURCES FOR FISH PASSAGE PROJECTS

**COLLABORATIVE WEBINAR
APRIL 5TH, 2024**

The California Fish Passage Forum invites agencies, non-profits, and restoration practitioners including municipalities, resource conservation districts, and tribes to attend our informational webinar on Friday, April 5th, 2024



MORNING SESSION 10AM-11:30AM

UPCOMING FUNDING OPPORTUNITIES

Representatives from federal agencies and state agencies outline the funding opportunities, project eligibility, and match requirements opening in FY24 and FY25.

AFTERNOON SESSION 12PM- 1:30PM

RESOURCES TO ENHANCE YOUR FISH PASSAGE PROJECT

Learn about strategies and resources for elevating and supporting your projects, including putting together cost-share packages, free consultations on streamlined permitting pathways, and tools for monitoring and evaluating your projects.

[Click here to Register](#)



Funding



CALIFORNIA FISH PASSAGE FORUM

- The forum awards about 250-350K in funding annually through NFHP. Required 1:1 non-federal match. Good source of funding for covering cost increases, monitoring, assessments, and leveraging additional funds. Closed for this year, releases each spring.
- Many sources of funding available each year, both federal and non-federal. Visit the Fish Passage Portal for federal opportunities. Notable state sources include CDFW FRGP, DWR, SCC, and others.

A screenshot of the Fish Passage Portal website. The page features a navigation bar with links for "Fish Passage Portal", "View Projects", "Find Funding", "Resources", "Content Library", and "Image Library". The main content area has a large background image of a river flowing through a forest with yellow autumn foliage. Overlaid on the image is the text "Fish Passage Portal" and a subtitle: "A resource for all stakeholders of fish passage and aquatic connectivity projects. Presented by the Federal Interagency Fish Passage Task Force". Below the image, there is a "Welcome to the Fish Passage Portal" section with a brief description of the portal's purpose and a mention of the Bipartisan Infrastructure Law (BIL) providing funding for aquatic and ecosystem restoration.

Interagency Fish Passage Portal



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Questions?

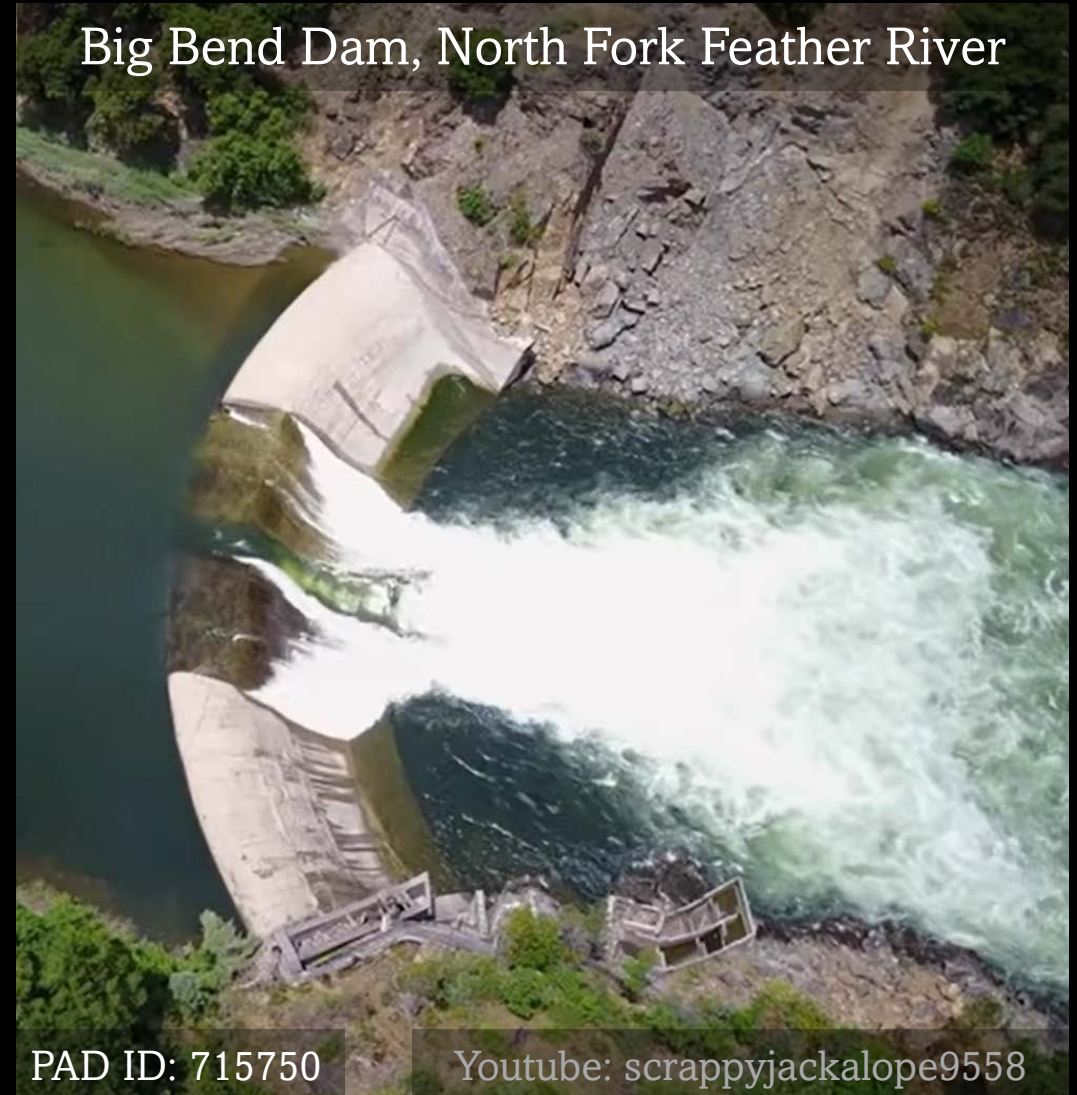
California Fish Passage Assessment Database (PAD) Region 2 Review



PAD Team
Anne Elston
Neal Scheraga



**Statewide Aquatic
Connectivity Coordinator**
Andrew Hampton



Big Bend Dam, North Fork Feather River

PAD ID: 715750

Youtube: [scrappyjackalope9558](#)

PAD Overview

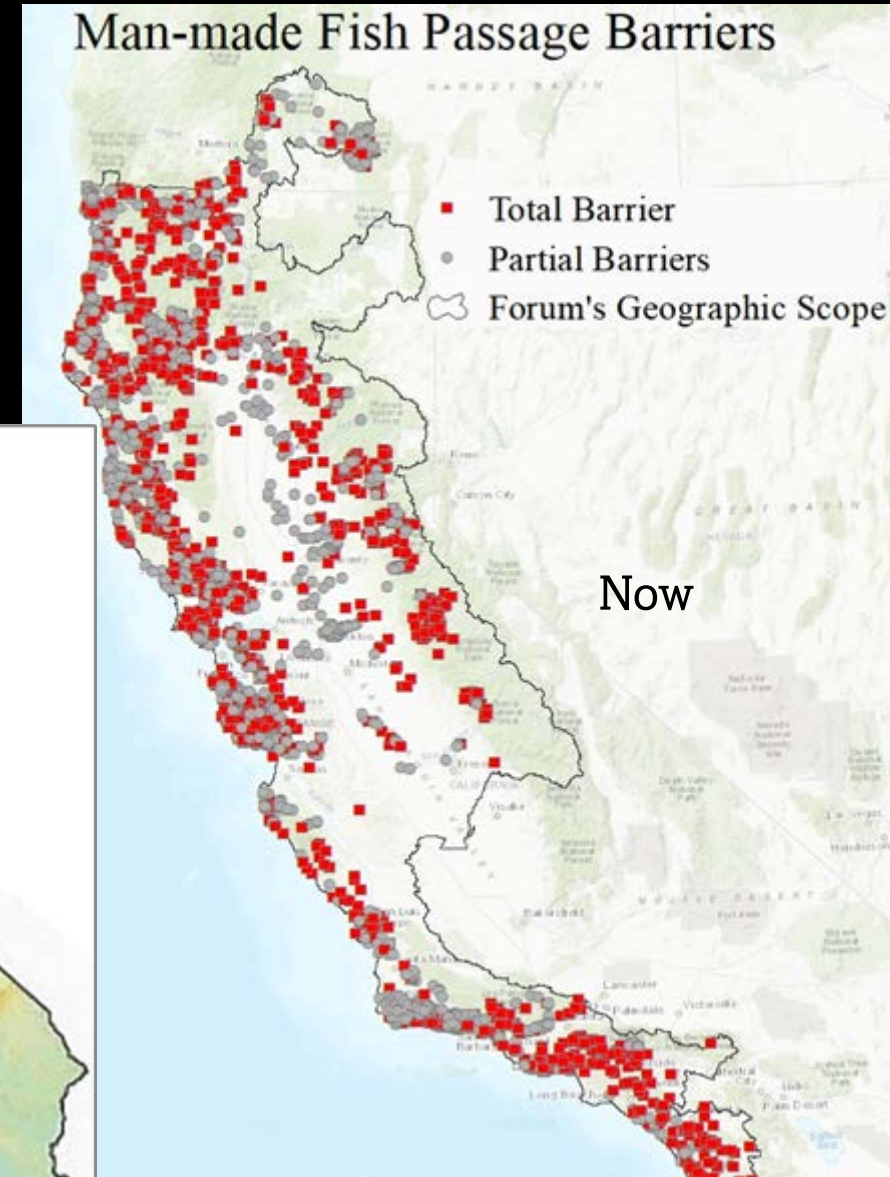
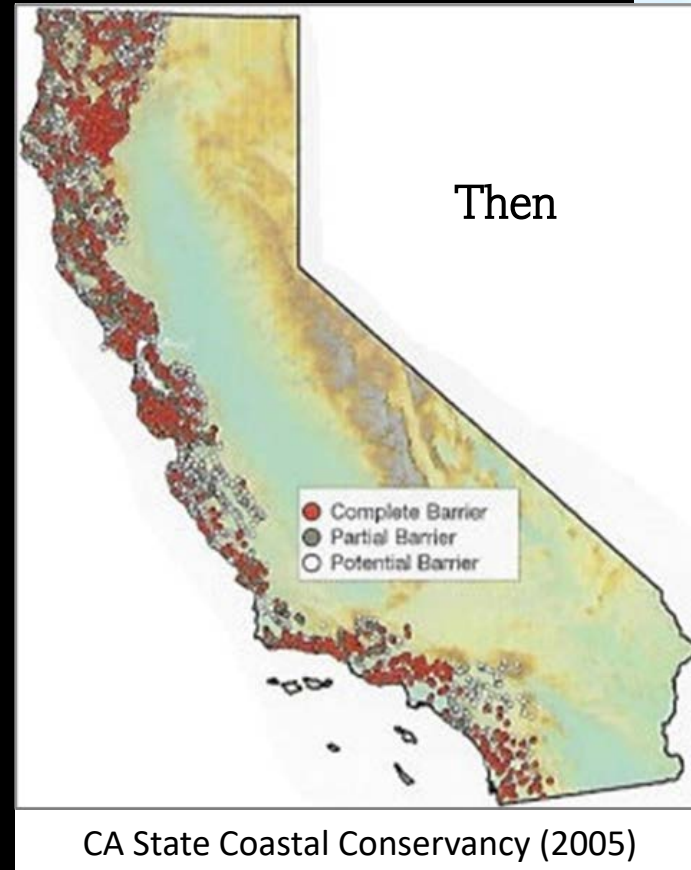
- State-wide inventory of **fish passage assessments** in anadromous waters
- Created in **2002**
- **Over 100 contributors** of data
 - Agencies
 - Organizations
 - Tribes
 - Local watershed groups
 - Consultants
- Currently **over 26,000** records

Other barrier datasets by comparison:

Oregon - 41,000 records

Washington - 21,000 records

Alaska - 2,500 records



Passage Assessments are collected as

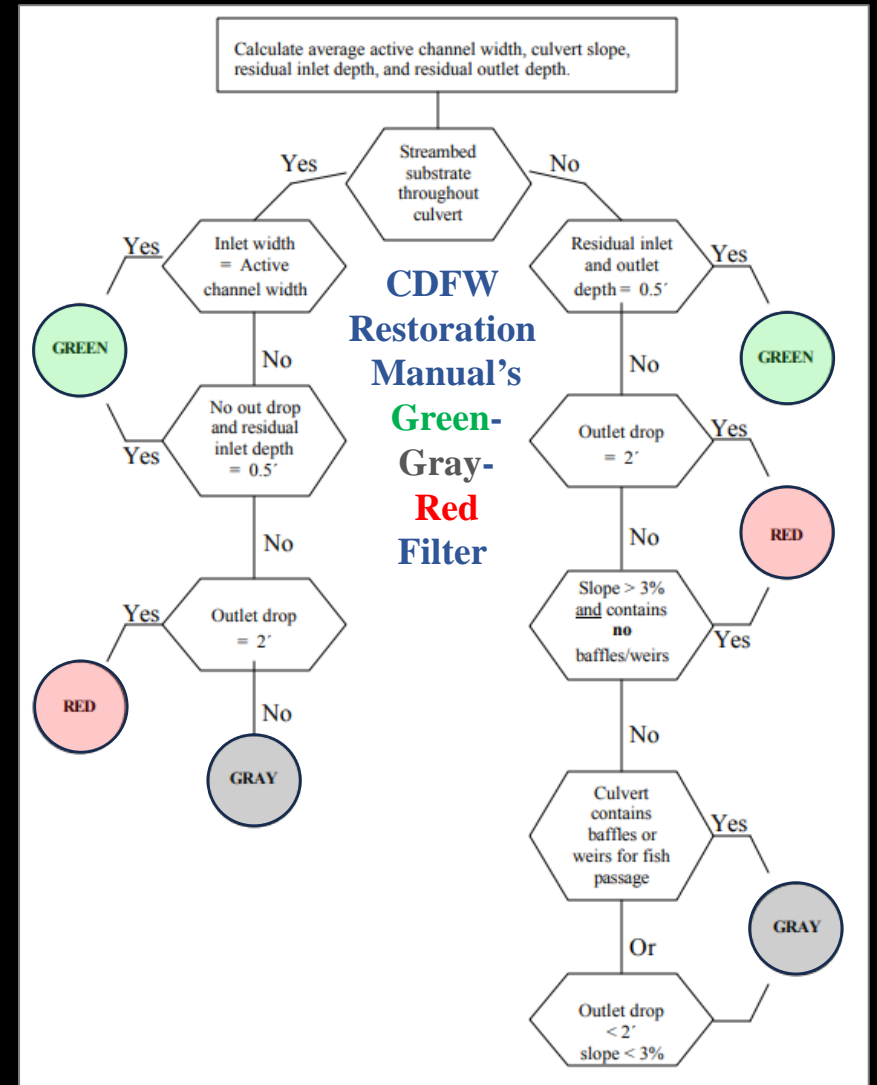
- Single assessments conducted at a structure
- Assessments based on structure ownership (e.g., Caltrans)
- Watershed-scale assessments



Types of Fish Passage Assessments

Protocols vary and include:

- Professional Judgment
- Rapid Assessment Protocols
- CDFW Restoration Manual's Green-Gray-Red Filter
- USFS Green-Gray-Red Filter
- Hydraulic modeling (FishXing and HEC-RAS)



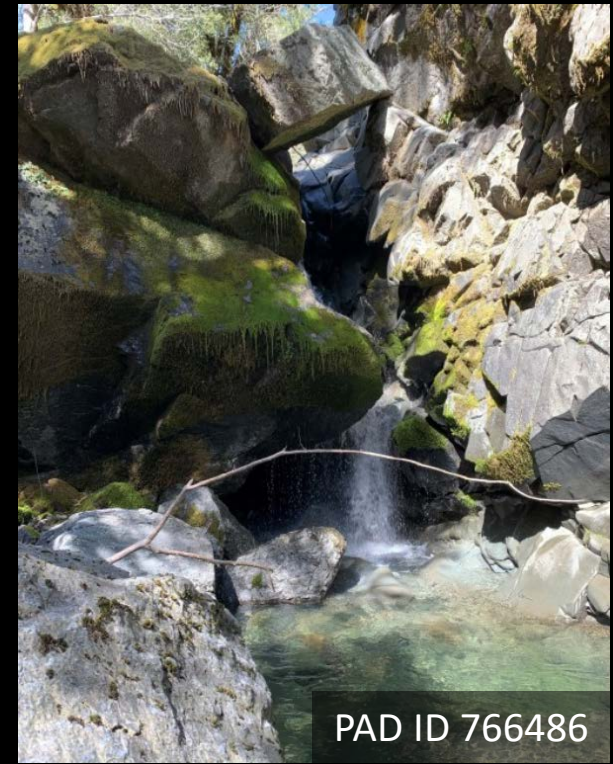
PAD Data Includes:

- Anthropogenic and natural features
- Potential and confirmed obstacles
- Non-barriers and total barriers
- Barriers at specific flows and to certain species and/or life stages
- Remediations
- Diversions
 - Screened and Unscreened



PAD ID 705148

Concrete Channel on San Miguelito Creek, Tributary to Santa Ynez River



PAD ID 766486

Waterfall on Bear Creek, tributary to Mad River in Humboldt County



PAD ID 718710

Shasta Dam on the Upper Sacramento River. Photo courtesy of Bureau of Reclamation

Critical Information

- Type of site/structure*
- Barrier status*
- Protocol used for assessing barrier status*
- Treatment information*
- Location*
- Ownership
- Species and life stages
- Habitat quality and quantity
- Photos

* Required information to update PAD

Hwy 197 Culvert on Sultan Creek, tributary to the Smith River in Del Norte County (PAD ID 707143)



Before



After

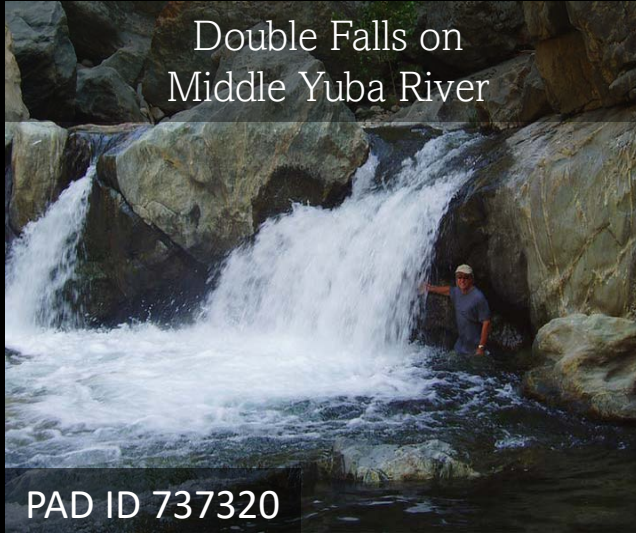
After: Adult salmonid swimming upstream past the culvert.



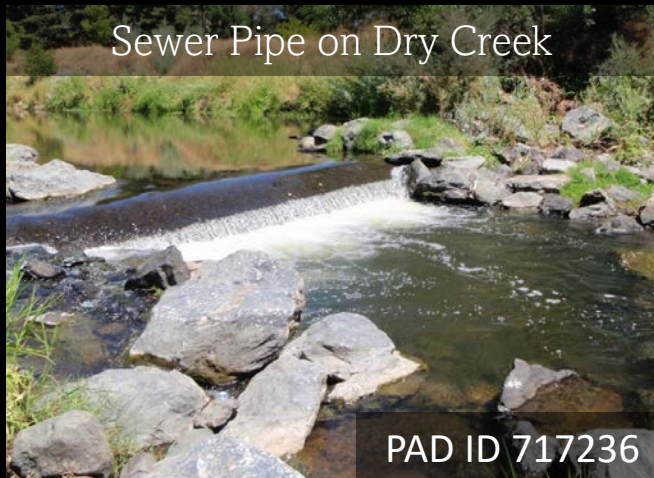
Video provided by Melinda Molnar of Caltrans

Site Types

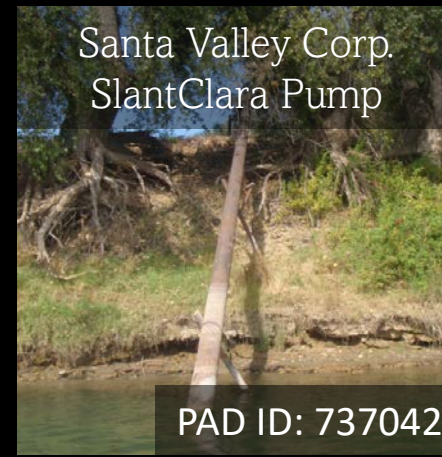
Non-Structural



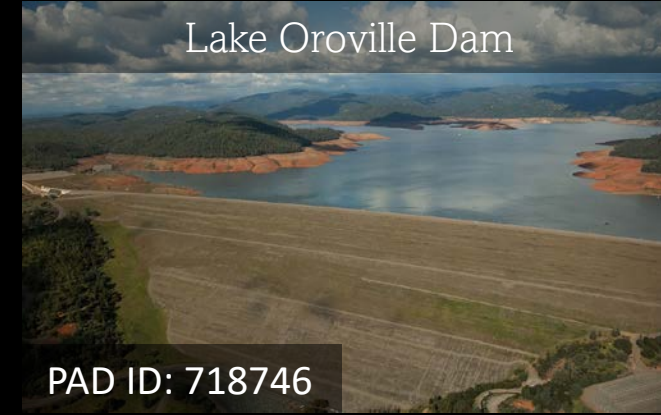
Utility Crossings



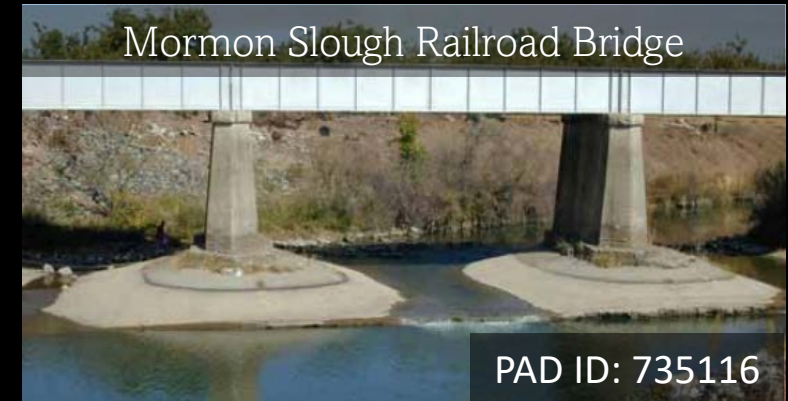
Diversions



Dams



Road Crossings



Barrier Status in the PAD

Hwy 32 over the Sacramento River



Not a Barrier



New Bullards Bar Dam on the North Yuba River



Total Barrier



Barrier Status *continued*

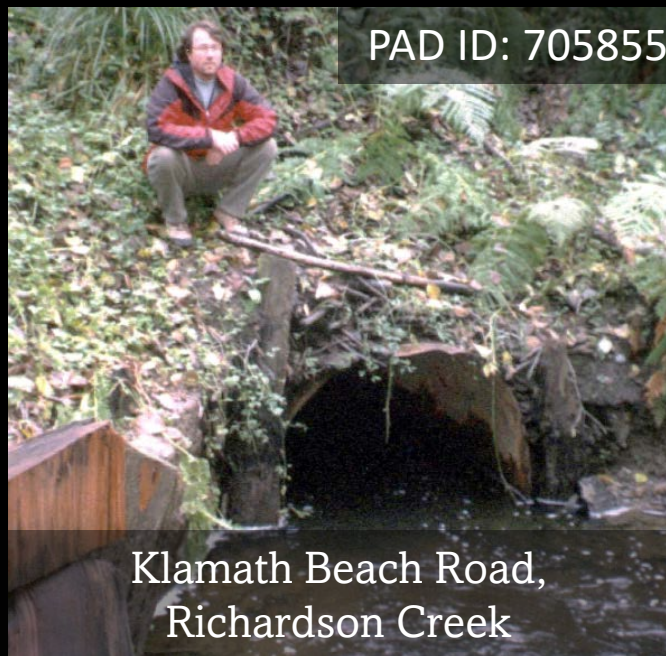
Partial Barrier



Adult Salmon: ✓



Juvenile Salmon: ✗

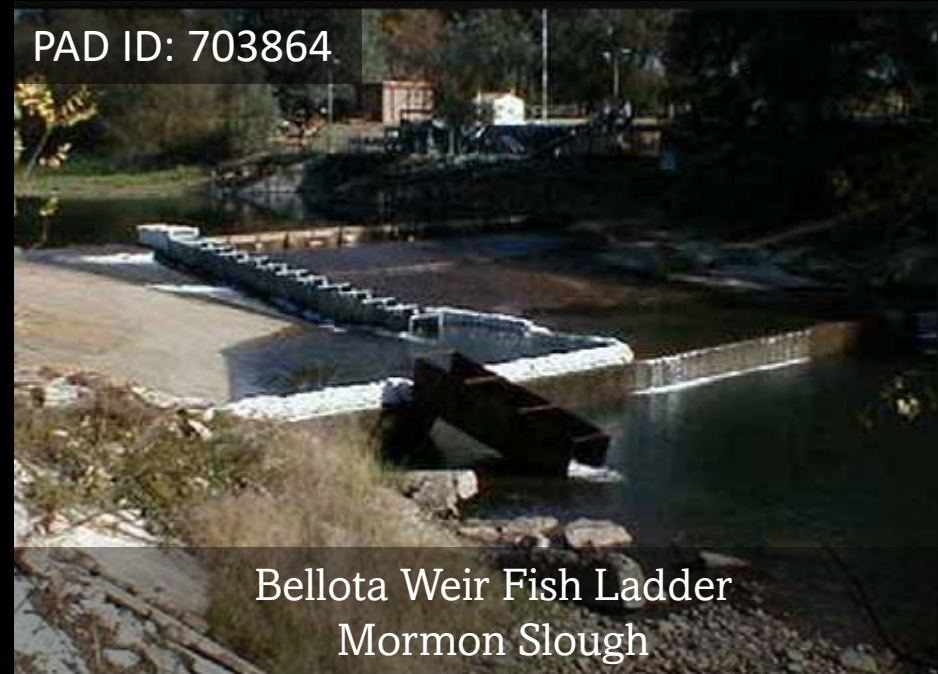


Temporal Barrier

Low Flows: ✗



High Flows: ✓



Barrier Status *continued*

Unscreened Diversion

No screen or Does not meet CDFW & NOAA Criteria



Screened Diversion
Screened & Meets CDFW & NOAA Criteria



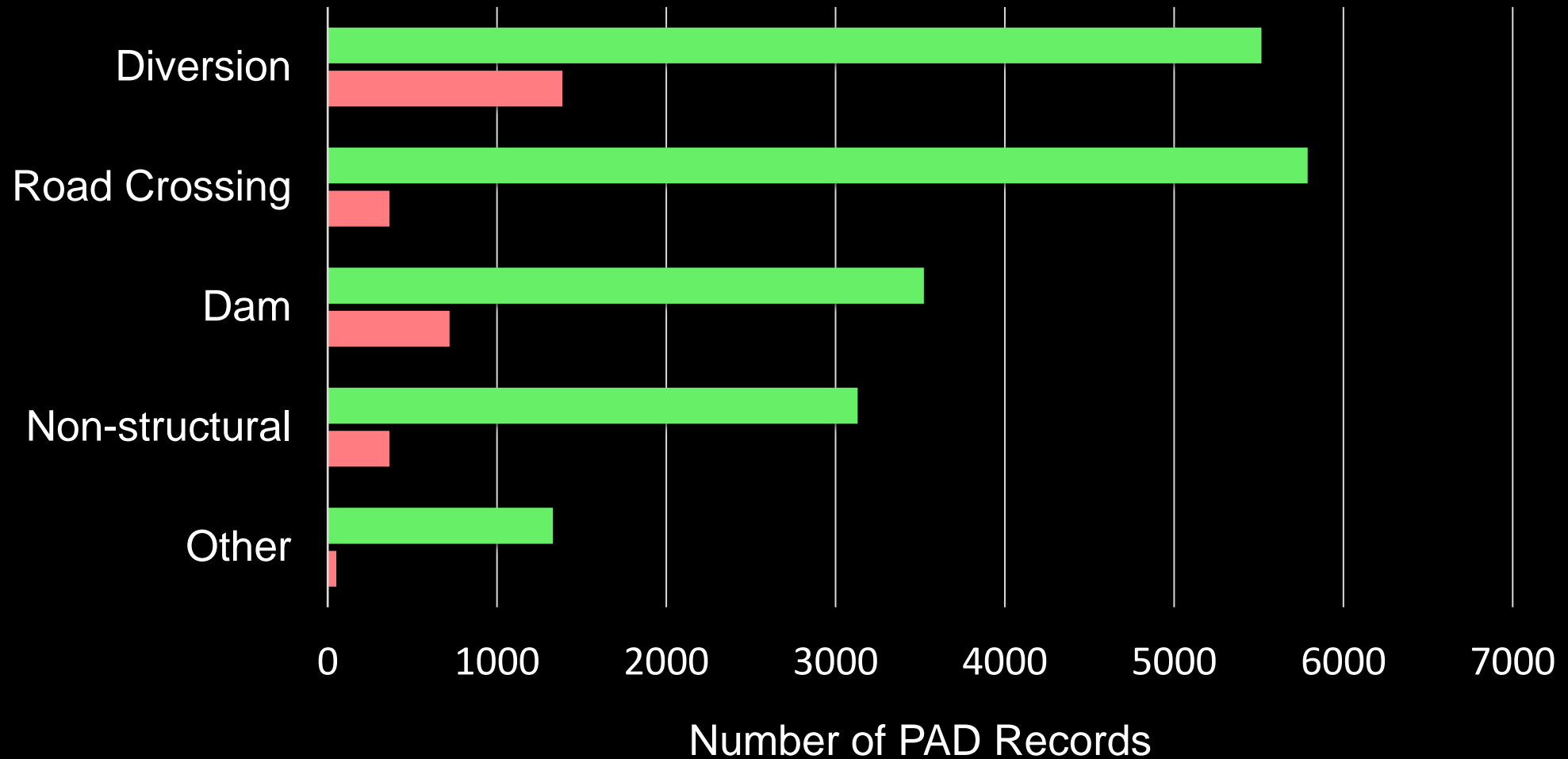
Slant Pump.



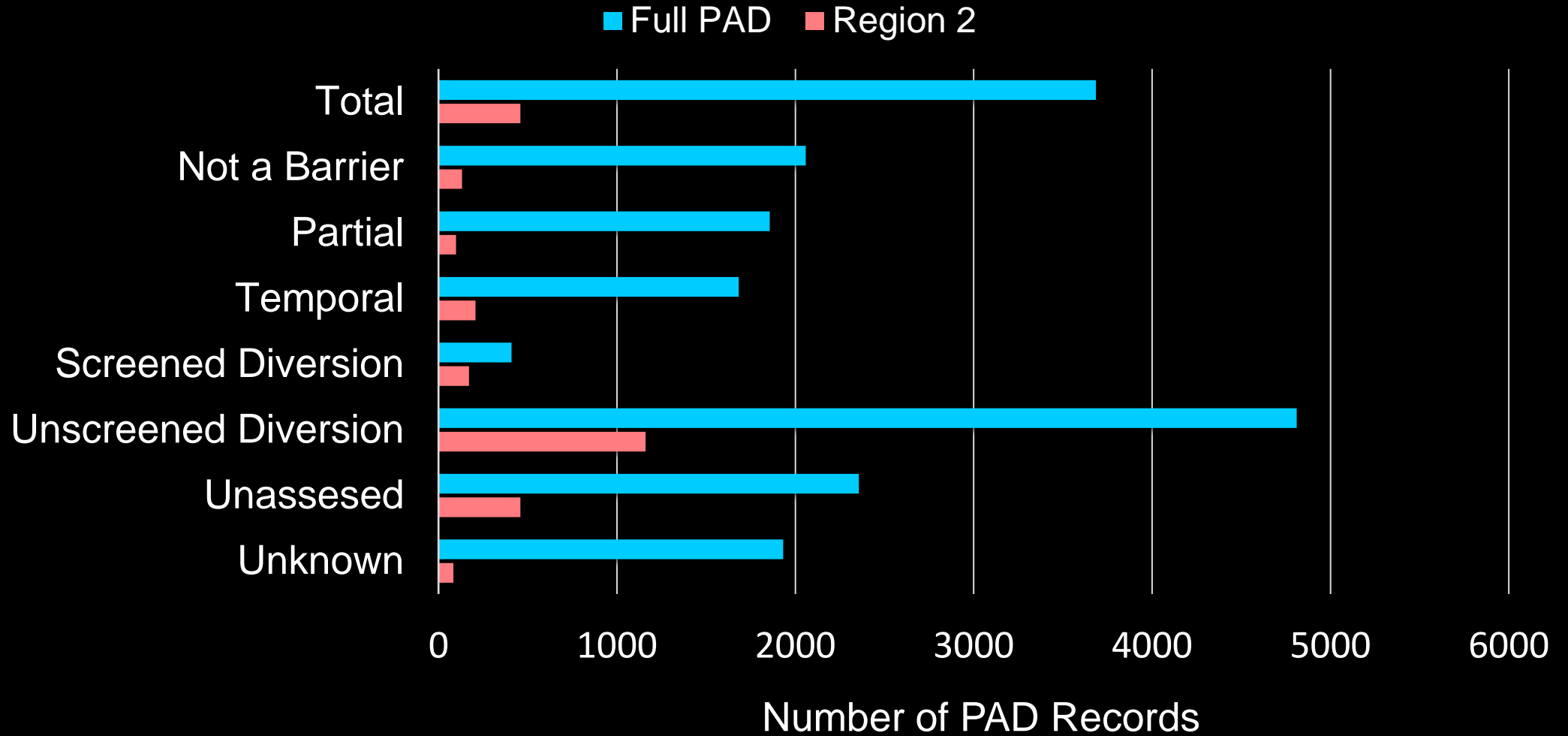
Screen on pump **Does not meet criteria.**

Site Types of Region 2 in the PAD * Only non-Caltrans records

■ Full PAD ■ Region 2



Barrier Statuses of the PAD * Only non-Caltrans records





Accessing PAD

Shortcut: calfish.org/pad

📌 [Kicking off the Second Largest Dam
Removal in California](#)

About

Data Access

Status and Source

Priority Barriers

Barrier Removals

Additional Resources

Map Viewer - Updated 12/22/2023 and accessible on 1/5/2024

Yes - Layer names: [California Fish Passage Assessment Database](#)

The CalFish map viewer displays PAD records with other fisheries and stream related data sets, and allow one to analyze barriers in relation to each other and in the context of the watershed. Each site info includes structure and stream name, type and barrier status, protocol used for passage assessment, survey team and survey date, ownership information and other site specifics. User-defined queries can narrow down the search through the barrier data and provide summaries and tables. Both the customized maps and query result table can be printed out or exported.

When using the map viewer, you will be prompted to either login with your state username and password, or use the public BIOS viewer. All CalFish layers are public layers and do not require a special log-in or state credentials.

Feature and Map Services - Updated 12/22/2023 and accessible on 1/5/2024

The PAD is also available as a [feature](#) service. The service allows users to access the latest PAD spatial file. Each time PAD is updated it gets automatically updated in the GIS layer created by this service. Therefore, there is no need to download the latest GIS file.

CalFish Data Downloads - Updated on 12/22/2023 and accessible on 1/5/2024

Yes - Passage Assessment Database (PAD)



[View larger...](#)



GIS File Geodatabase & Layer File (3.5 MB zip)



[View metadata](#)



Google Earth Kmz File (5.6 MB zip)

***Please note:** If you encounter a download error, please use a web browser that is not Google Chrome (i.e., Firefox, Internet explorer, etc.). Chrome no longer supports ftp links.

The Passage Assessment Database (PAD) is an ongoing inventory of known and potential barriers to anadromous fish in California. The PAD compiles currently available fish passage information from many different sources, and allows past and future barrier assessments to be standardized and stored in one place. The database is set up to capture basic information

PAD Data Portal

Passage Assessment Database (PAD) - Query

Select Fields To View


Select Criteria

View Query Results

View Documents


Print

More Actions

2,003 rows return from a total of 27,024. 

Search Criteria: *County Contains (Humboldt)*

Rows per page: 50

1 2 3 4 5 6 7 8 9 10 ... 

Page 1 of 41

<input type="checkbox"/>	PAD_ID	Stream Name	Tributary To	Site Name	Passage Type	Barrier Status	Protocol	Assessed By	County
<input type="checkbox"/>	715289	Achelth Creek	Klamath River	Steep Gradient	Non-structural ...	Unknown	Professional Judgem...	California Department of Fish and Wil...	Humboldt
<input type="checkbox"/>	757949	Adams Creek	Price Creek	Culvert at stream mi...	Road crossing...	Unassessed	Professional Judgem...	California Department of Fish and Wil...	Humboldt
<input type="checkbox"/>	706169	Ah Pah Creek	Klamath River	subsurface flow	Non-structural ...	Temporal	Professional Judgem...	Yurok Tribal Fisheries Program	Humboldt
<input type="checkbox"/>	706170	Ah Pah Creek	Klamath River	braided channel	Non-structural ...	Remediated, fi...	Professional Judgem...	Yurok Tribal Fisheries Program	Humboldt
<input type="checkbox"/>	706171	Ah Pah Creek	Klamath River	Gradient and boulde...	Non-structural ...	Temporal	Professional Judgem...	Yurok Tribal Fisheries Program	Humboldt
<input type="checkbox"/>	706172	Ah Pah Creek	Klamath River	Series of log jams	Log Debris Ac...	Remediated, fi...	Professional Judgem...	Yurok Tribal Fisheries Program	Humboldt
<input type="checkbox"/>	761808	Ah Pah Creek	Klamath River	Hwy 101 Xing	Road crossing...	Unassessed	GIS	Pacific States Marine Fisheries Comm...	Humboldt
<input type="checkbox"/>	707881	Aikens Creek	Klamath River	Bridge	Road crossing...	Unknown	Professional Judgem...	U.S. Forest Service	Humboldt
<input type="checkbox"/>	715418	Aikens Creek	Klamath River	Rock Fall	Non-structural ...	Unknown	Professional Judgem...	California Department of Fish and Wil...	Humboldt
<input type="checkbox"/>	720535	Aikens Creek	Klamath River	Aikens Creek Low F...	Non-structural ...	Temporal & Total	Professional Judgem...	California Department of Fish and Wil...	Humboldt
<input type="checkbox"/>	761729	Aikens Creek	Klamath River	Hwy 96 Xing	Road crossing...	Unassessed	GIS	Pacific States Marine Fisheries Comm...	Humboldt
<input type="checkbox"/>	715492	Albee Creek	Bull Creek	Bridge	Road crossing...	Not a barrier	Professional Judgem...	California Department of Fish and Wil...	Humboldt
<input type="checkbox"/>	758028	Albee Creek	Bull Creek	High gradient and lo...	Non-structural ...	Unknown	Professional Judgem...	California Conservation Corps	Humboldt
<input type="checkbox"/>	715310	Allen Creek	Eel River	high gradient and tw...	Road crossing...	Total	Professional Judgem...	California Conservation Corps	Humboldt



8 1: 2,311,162

50 km
20 mi

Legend

California Fish Passage Assessment Database [ds69]

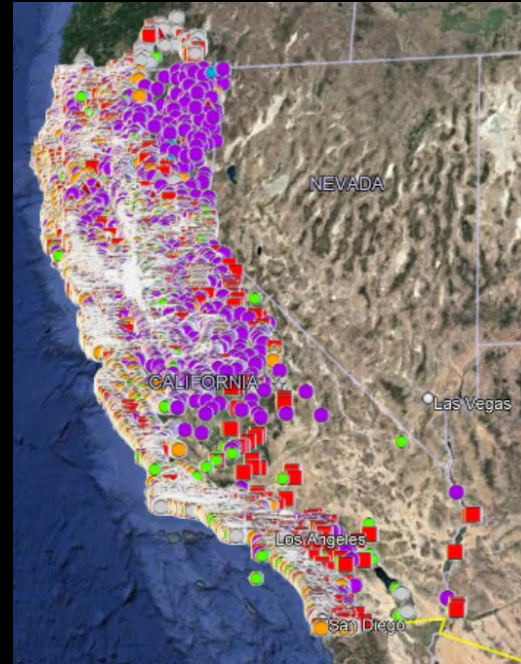
California Fish Passage Assessment Database _ ds69

- ▲ Natural Partial Barrier
- ▲ Natural Total Barrier
- Not a Barrier
- Partial Barrier
- Remediated, Fish Response
- Unconfirmed
- ★ Screened Diversion
- Total Barrier
- Unassessed
- Unknown Passage Status
- ★ Unscreened Diversion

PAD in Google Earth



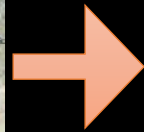
Hayer Dam Removal (PAD ID: 717225)



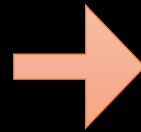
CreatedBy	<Null>
StructOwner	<Null>
LandOwner	<Null>
Notes	Boulder cluster comprised of large and smaller boulders thought to have fallen from canyon walls. This boulder cluster and a downstream one on North Fork Battle are thought to limit passage at all flows and have extensive planning work to design solutions to modify them to allow salmonid passage at low and high flows. There are multiple of other natural barriers on this Creek which are considered to limit passage at low flows.
FishWayType	<Null>
FishWayStatus	<Null>
TrfRecom	<Null>
Watershed	Battle Creek
County	Shasta
CalWatHR	Sacramento River
CalWatHU	WHITMORE
CalWatHA	Manton
CalWatHSA	Battle Creek
CalWatNo	550712
NHDCOMID	76957851
NHDCOMMeas	1.538789
LLID	<Null>
BegFt	<Null>
Route	<Null>
PostMile	<Null>
DivOper	<Null>
DivMobile	<Null>
Updated	2/27/2020
Source	<Null>
WebLegend	Natural Total Barrier
Point_X	-121.917151
Point_Y	40.425254
Photo	<Null>



2002



2006



Present

Remediated

California Fish Passage Assessment Database
Project

METHODOLOGY AND DATA STANDARDS
DOCUMENTATION

June 2021

CONTENT

Introduction	2
Database Structure	4
Passage Locations	7
Data Quality and Limitations	8
Data Standards	10

CONTACT

Anne Elston, Data Management Specialist for the PAD/PAD
Administrator Pacific States Marine Fisheries Commission (PSMFC)
1010 Riverside Pkwy, West Sacramento, CA 95605,
Anne.Elston@wildlife.ca.gov or aelston@psmfc.org,
(916) 376-1706

PAD Implementation Plan

Strategy to review and update PAD

Received input from Forum S&D
Committee AND is dynamic

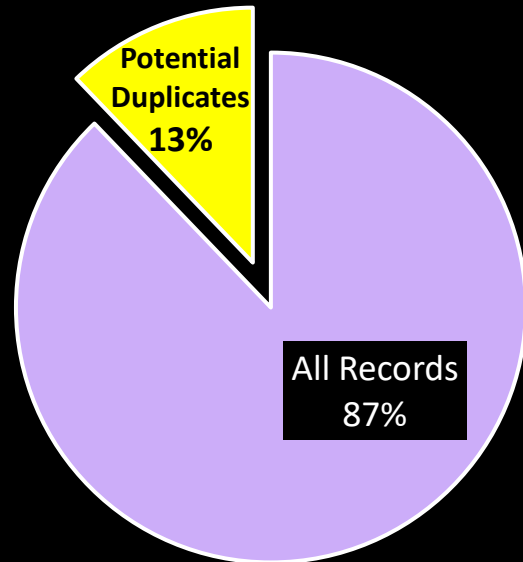
Steps:

- I. PAD Data Standards & Methodology Update
- II. Implementation:
 1. Desktop Review
 2. Expert Review

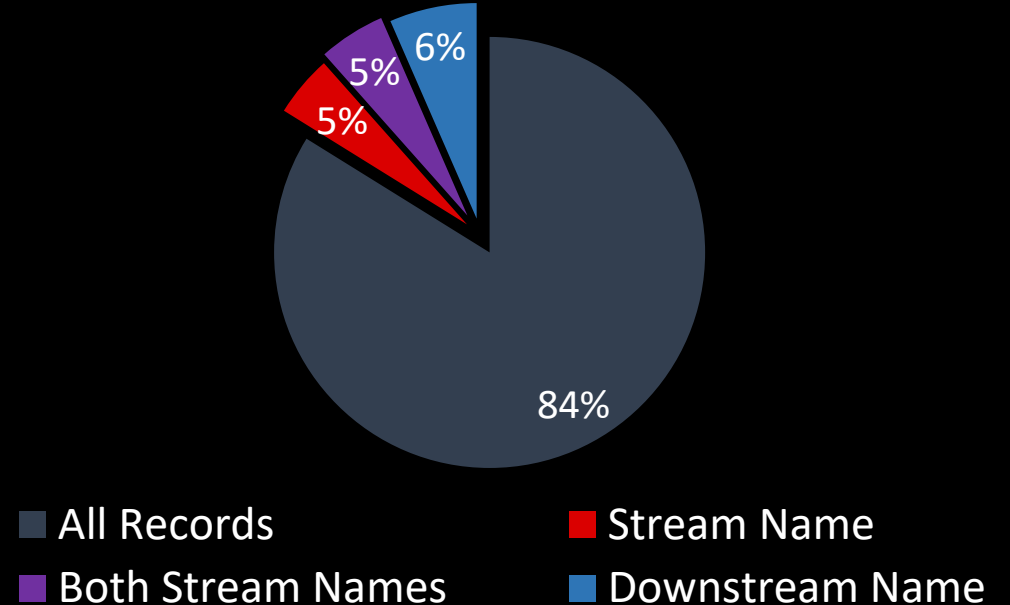
Desktop Review

- ❖ Reviewed in ArcGIS Pro
- ❖ Identified potential **duplicates**, checked **locations**, corrected Stream and Downstream **Names**

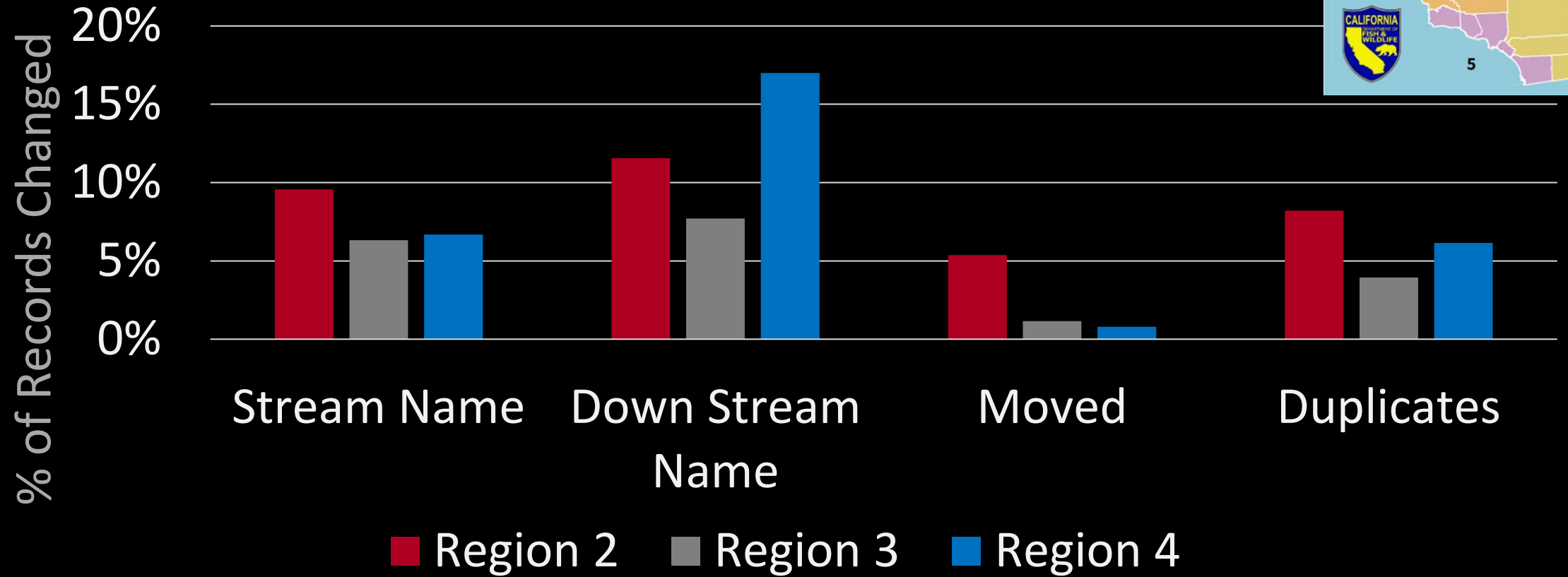
Potential Duplicate Records in Region 2



Stream Name Changes in Region 2



PAD Desktop Review Results Across Regions



Expert Review

Region by region; south to north

Created regional expert lists

Focus:

- Non-Caltrans locations
- Within Priority Watersheds



Watersheds for Targeted Review

- From Salmonid Recovery Plans and California Salmon Strategy for a Hotter, Drier Future
- Within Priority Watersheds (core, candidate and watersheds for reintroduction) identified in plans
- Self-identify the watersheds of your expertise



PAD Plan, Region 2 - Local Fish Passage Expertise Assessment

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To be effective, the data in the PAD needs to accurately depict fish passage constraints (e.g., the number of barriers that exist and where they are located.) Verification of these barriers by local experts is a critical component of this effort, and we are hoping you can contribute the current conditions of these barriers. This effort is focused on barriers within [California Department of Fish & Wildlife - Region 2](#).

****Please fill out this form to indicate which watersheds you have local knowledge/experience of the presence and/or status of fish passage barriers, and if you would be willing to contribute to this effort.****

The local knowledge of experts is vital to this effort, and we recognize this is likely an additional task on top of your daily workload. But we hope you'll be willing to help in this effort and we greatly appreciate your consideration.

Thank you in advance!

Members of the California PAD and California Fish Passage Forum

Email *

Valid email

This form is collecting emails. [Change settings](#)

Name *

Short answer text

Organization *

Please fill out this survey to participate: <https://forms.gle/paqBYi5sdbKpwdSK7>

Expert Review Steps

1. Identify Fish Passage Experts
2. Hold Webinar in Regions 1-4
3. Have Experts Self-Identify Their Watersheds of Expertise
4. Develop Materials
5. Contact Experts for Their Review

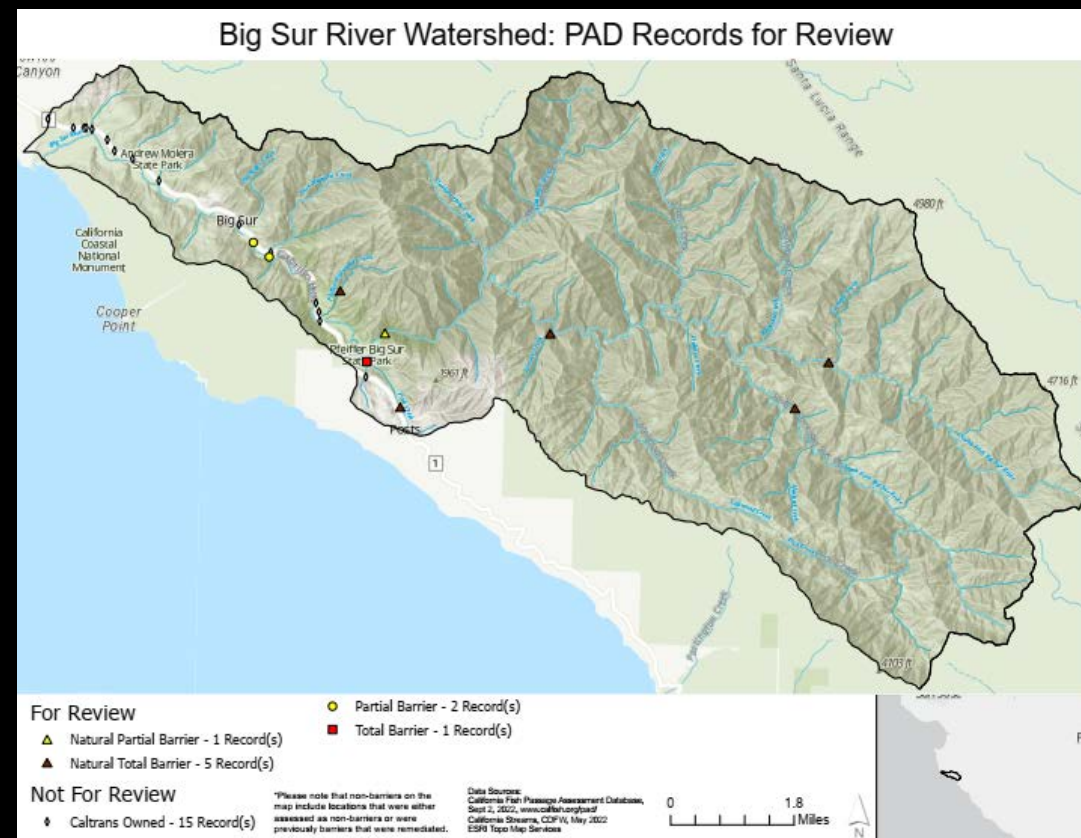
PAD_ID	Stream	NanTributary	SiteName	SiteType	BarStatus	Notes	ItemNec	TrtRecom	TrtStatus	YrTreated	ShWay	TypHWay	Stat	structOwn	andOwn	Longitude	Latitude	Reviewer	Update?	Reviewer	Protocol	ssess
758627	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Arizona style, private road crossing. The crossing had a drop of approximately 2-3 ft. onto rip-rap.										-117.325	33.4382				Professor Cardr	
758626	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	concrete, Arizona style, private driveway crossing. The crossing had drop of approximately 2 ft. o										-117.325	33.4314				Professor Cardr	
758618	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Upstream of the South Fork De Luz Creek confluence, five man-made barriers (PAD ID's 758618-										-117.324	33.4566				CDFW Ha Cardr	
758628	De Luz Cr	Santa Mar	De Luz Rc	Road cros	Partial	4 corrugated metal culverts, 27.5 ft. long and 2.0 ft. in diameter. The crossing is located a few hur										-117.324	33.4414				CDFW Ha Cardr	
712672	De Luz Cr	Santa Mar	Culvert or	Road cros	Unassess	(* location approximate, detail spatial information lacking in original dataset)										-117.323	33.3693				Professor Unass	
712673	De Luz Cr	Santa Mar	Culvert or	Road cros	Unassess	(* location approximate, detail spatial information lacking in original dataset)										-117.322	33.3801				Professor Unass	
758625	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	A concrete, Arizona style, private driveway crossing. The crossing had an estimated drop of appr										-117.322	33.4218				Professor Cardr	
758619	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Upstream of the South Fork De Luz Creek confluence, five man-made barriers (PAD ID's 758618-										-117.321	33.463				CDFW Ha Cardr	
712674	De Luz Cr	Santa Mar	Culvert or	Road cros	Unassess	(* location approximate, detail spatial information lacking in original dataset)										-117.32	33.3965				Professor Unass	
758620	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Upstream of the South Fork De Luz Creek confluence, five man-made barriers (PAD ID's 758618-										-117.32	33.4638				CDFW Ha Cardr	
758621	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Upstream of the South Fork De Luz Creek confluence, five man-made barriers (PAD ID's 758618-										-117.315	33.4717				CDFW Ha Cardr	
758622	De Luz Cr	Santa Mar	private dri	Road cros	Unassess	Upstream of the South Fork De Luz Creek confluence, five man-made barriers (PAD ID's 758618-										-117.314	33.4746				CDFW Ha Cardr	
719352	De Luz Cr	Santa Mar	Matthews	Dam	Not a barri	(* on quad Unknown										-117.312	33.4694				Professor Calif	
758623	De Luz Cr	Santa Mar	natural be	Non-struct	Temporal	Natural bedrock cascades or waterfall, and was judged to be passable during high flows. This ba										-117.308	33.4814				Professor Cardr	
758624	De Luz Cr	Santa Mar	natural lim	Non-struct	Total	18 ft. high natural bedrock waterfall which presents a complete barrier to upstream fish movement										-117.301	33.4903				CDFW Ha Cardr	



Fields for Review

PAD_ID
StreamName
TributaryT
SiteName
SiteType
BarStatus
Notes
TrtNeeded
TrtRecom
TrtStatus
YrTreated
FishWayType
FishWayStatus
StructOwner
LandOwner
Longitude
Latitude
Reviewed?
Update?
ReviewerComments
Protocol
AssessedBy
SurveyDate
TreatedBy
Photo
Watershed
Map Link

1. Barrier Type & Status
2. Barrier Description
3. Location
4. Owner of Land or Structure
5. Treatment Info
6. Fishway Type & Status



You will not be reviewing Caltrans Sites



PAD_ID	PassageID	StreamName	TributaryT	SiteName	SiteType	BarStatus	StructOwner
707016	8427	Salinas River	Pacific Ocean	Stone dam at Crecent Lake	Dam	Total	Encell
718833	100135	Salinas River	Pacific Ocean	Salinas Dam (Santa Margarita Lake)	Dam	Total	San Luis Obispo City
732089	11673	Salinas River	Pacific Ocean	Hwy 1 Bridge w/o potential passage constraints	Road crossing	Not a barrier	California Department of Transportation
734063	53270	Salinas River	Pacific Ocean	bridge without passage constraints	Road crossing	Not a barrier	California Department of Transportation
734080	53287	Salinas River	Salinas River	Concrete Pipe Culverts	Road crossing	Not a barrier	California Department of Transportation
734084	53291	Salinas River	Pacific Ocean	bridge without passage constraints	Road crossing	Not a barrier	California Department of Transportation
734219	53434	Salinas River	Pacific Ocean	Salinas River Bridge	Road crossing	Not a barrier	California Department of Transportation
735627	57027	Salinas River	Pacific Ocean	bridge w/o potential passage constraints	Road crossing	Not a barrier	California Department of Transportation
762263	407637	Salinas River	Pacific Ocean	bridge without passage constraints	Road crossing	Not a barrier	California Department of Transportation
731324	10856	Salinas River	Salinas River	bridge w/o potential passage constraints	Road crossing	Not a barrier	California Department of Transportation
762202	407576	Salinas River	Pacific Ocean	bridge with potential passage constraints	Road crossing	Unknown	California Department of Transportation
762289	407663	Salinas River	Pacific Ocean	Hwy 41 bridge	Road crossing	Unknown	California Department of Transportation
762530	407904	Salinas River	Pacific Ocean	bridge without passage constraints	Road crossing	Not a barrier	California Department of Transportation

Caltrans Sites:

StructureOwner = California Department of Transportation

AutoSave Off | PADReviewMoeG.xlsx | Search (Alt+Q) | Scheraga, Neal-Contractor@Wildlife

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Clipboard | Font | Alignment | Protection | Number | Styles | Cells | Editing | Analysis

	A	B	C	D	E	F	H	I	J	K	L	M	N	O
	PAD_ID	StreamName	TributaryT	SiteName	SiteType	BarStatus	TreatmentNeeded	TrtRecom	TrtStatus	YrTreated	FishWayType	FishWayStatus	StructOwner	LandOv
1	706354	East Fork Refug	Refugio Creek	Bedrock Waterfall	Non-structural	Total	No	No recommend	Unknown					U.S. Fores
2	706648	Refugio Creek	Pacific Ocean	Stream Crossing	Road crossing	Temporal	Unknown	Continue to mo	Unknown					Private lan
3	707401	Refugio Creek	Pacific Ocean	State Park crossing at up	Road crossing	Temporal		CALTRANS should consider removing this structure or modifying it so that					California State Parks	
4	706343	Refugio Creek	Pacific Ocean	#2 Refugio Road crossing	Road crossing	Temporal	Unknown		Unknown				Santa Barbara County	
5	706348	Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	Unknown	The crossings i	Unknown				Santa Barbara County	
6	706650	Refugio Creek	Pacific Ocean	Box Culvert Stream Cross	Road crossing	Temporal	Unknown	Work with land	Unknown					Private lan
7	706347	Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	Unknown	The crossings i	Unknown				Santa Barbara County	
8	706344	Refugio Creek	Pacific Ocean	#3 Refugio Road crossing	Road crossing	Total	Unknown	Complete remo	Unknown				Santa Barbara County	
9		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	Unknown	The crossings i	Unknown				Santa Barbara County	
10		Refugio Creek	Pacific Ocean	bedrock chute	Grade control	Partial	Unknown		Unknown					Private lan
11		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	Unknown	The road is very	Unknown				Santa Barbara County	
12		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Partial	Unknown		Unknown					Private lan
13		Refugio Creek	Pacific Ocean	Bedrock Chute	Grade control	Total	No	No recommend	Unknown					Private lan
14		West Fork Refug	Refugio Creek	Boulder Cascade	Non-structural	Total	No	No recommend	Unknown					Private lan
15		West Fork Refug	Refugio Creek	Culvert Stream Crossing	Road crossing	Total	Unknown	Contact the lan	Unknown					Private lan
16		West North Fork	West Fork Refu	Boulder Waterfall	Non-structural	Total	No	No recommend	Unknown					Private lan

Update
PAD Records

&

Write-in
new barriers

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Comments Share

X27

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	PAD_ID	StreamName	TributaryT	SiteName	SiteType	BarStatus	Notes	TreatmentNeeded	TrtRecom	TrtStatus	YrTreated	FishWayType	FishWayStatus	StructOwn
2	706354	East Fork Refug	Refugio Creek	Bedrock Waterfall	Non-structural	Total	impassable bet No		No recommend	Unknown				
3	706648	Refugio Creek	Pacific Ocean	Stream Crossing	Road crossing	Temporal	Sufficient pool i	Unknown	Continue to mo	Unknown				
4	707401	Refugio Creek	Pacific Ocean	State Park crossing at up	Road crossing	Temporal	Total length of structure: 0.06 miles.	CALTRANS should consider removing this structure or modifying it so that						California State
5	706343	Refugio Creek	Pacific Ocean	#2 Refugio Road crossing	Road crossing	Temporal	With sediment	Unknown		Unknown				Santa Barbara C
6	706348	Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	During higher n	Unknown	The crossings i	Unknown				Santa Barbara C
7	706650	Refugio Creek	Pacific Ocean	Box Culvert Stream Cross	Road crossing	Temporal	During low flow	Unknown	Work with land	Unknown				
8	706347	Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	During higher n	Unknown	The crossings i	Unknown				Santa Barbara C
9	706344	Refugio Creek	Pacific Ocean	#3 Refugio Road crossing	Road crossing	Total	The combined l	Unknown	Complete remo	Unknown				Santa Barbara C
10		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	During higher n	Unknown	The crossings i	Unknown				Santa Barbara C
11		Refugio Creek	Pacific Ocean	bedrock chute	Grade control	Partial		Unknown		Unknown				
12		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Total	During higher n	Unknown	The road is ver	Unknown				Santa Barbara C
13		Refugio Creek	Pacific Ocean	Culvert Stream Crossing	Road crossing	Partial		Unknown		Unknown				
14		Refugio Creek	Pacific Ocean	Bedrock Chute	Grade control	Total	Photo-observat	No	No recommend	Unknown				
15		West Fork Refug	Refugio Creek	Boulder Cascade	Non-structural	Total	Photo-observat	No	No recommend	Unknown				
16		West Fork Refug	Refugio Creek	Culvert Stream Crossing	Road crossing	Total	height of this st	Unknown	Contact the lan	Unknown				
17		West North Fork	West Fork Refu	Boulder Waterfall	Non-structural	Total	Photo-observat	No	No recommend	Unknown				
18														
19														
20														
21														
22														
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24														
25														
26														
27														
28														
29	R													

CDFW Prioritization Efforts

<https://wildlife.ca.gov/Organization/FB>

Priorities are ranked using the following criteria:

- 1) Likelihood to improve fish migration
- 2) Availability of recent fish and habitat data
- 3) Willing partners/landowners
- 4) Political support
- 5) Within a “Core” population
- 6) In an Eco-regional Significant Watershed
- 7) CDFW commitment to monitoring
- 8) Importance within the watershed

Inland Fisheries Conservation and Management

Inland Fisheries Conservation and Management consist of multiple programs responsible for conservation, recovery, and management of inland fish species. These programs and associated staff are responsible for fish species conservation including: developing management plans and recommending and conducting management actions; designing, conducting and overseeing resource assessment, monitoring, and research; coordinating habitat enhancement projects; developing angling regulation recommendations, and overseeing angling recognition projects.

Fish Production and Aquatic Pathology

CDFW operates 22 cold water fish hatcheries statewide and is one of the largest producers of trout and salmon in North America. The basic objectives of the CDFW trout and salmon hatcheries are conservation, mitigation, and recreation. The CDFW operates 13 trout and inland salmon hatcheries and 9 anadromous salmon and

California Department of Fish and Wildlife 2023 Fish Passage Priorities (Top Priorities) 12/1/2023

County	Site Name	Water Body	PAD ID
Del Norte	Rowdy Weir	Rowdy Creek	721887
Del Norte	Dominie Weir	Dominie Creek	721903
Mendocino	South Fork Noyo Water Intake Pump	South Fork Noyo River	758253
Siskiyou	Little Springs Creek	Little Springs Creek	759057
Trinity	Hwy 299 Weaverville	West Weaver Creek	720522
Siskiyou	French Creek, Diversion 43	French Creek	736799
Tehama	Deer Creek Stanford Vina Dam Fish Ladders	Deer Creek	704279
Shasta	NF Battle Creek Boulder Cluster Fish Passage	Battle Creek	765178
Del Norte	Morrison Creek Crossing	Morrison Creek	721148
Del Norte	Highway 199	Broken Kettle Creek	712954
Yolo	Fremont Weir	Sacramento River	704343
Sutter	Weir #1 Sutter Bypass	Butte Creek	703959
San Joaquin	Bellota Weir	Mormon Slough	703864
Placer	Hemphill Dam	Auburn Ravine	737315

CDFW Priorities are on BIOS

<https://apps.wildlife.ca.gov/bios6/?bookmark=1114>

Most recent →

BIOS Register

Contents X

Active Layer: **None** ?

- ▶ Graphics Layers
- ▶ External Layers
- ▼ BIOS Layers
 - ▶ Fish Passage Priorities - CDFW - 2011 [ds811] ...
 - ▶ Fish Passage Priorities - CDFW - 2012 [ds812] ...
 - ▶ Fish Passage Priorities - CDFW - 2017 [ds2806] ...
 - ▶ Fish Passage Priorities - CDFW - 2018 [ds2817] ...
 - ▶ Fish Passage Priorities - CDFW - 2019 [ds2868] ...
 - ▶ Fish Passage Priorities - CDFW - 2021 [ds2970] ...
 - ▶ Fish Passage Priorities - CDFW - 2023 [ds3137] ...
- + Add BIOS Layers

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Location

San Francisco
San Jose
Carson City
Los Angeles

Sierra Nevada Mountains
San Joaquin Valley
Mojave Desert

6 1: 9,244,648 200 km 100 mi

Esri, USGS | Mono County, California State Parks, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS | California

Next Steps

1. Self-Identify watersheds of expertise

➤ **Region 2 Watershed Form:**

<https://forms.gle/paqBYi5sdbKpwdSK7>

Wait to receive an emailed watershed packet from PAD Team

2. Record your updates in Excel and send back

❖ Tentative deadline for review: Early Summer 2024



Thank You!



— BUREAU OF —
RECLAMATION



CALIFORNIA ASSOCIATION OF
RESOURCE
CONSERVATION DISTRICTS



CALIFORNIA
COASTAL
COMMISSION

AND MANY MORE...

PAD Questions or Comments?

Examples:

- Feedback on PAD Plan?
- Other watersheds to add?
- Any other partners/experts we should include?

Contact Us:

Anne.Elston@wildlife.ca.gov

Neal.Scheraga@wildlife.ca.gov

Andrew.Hampton@wildlife.ca.gov

Polls

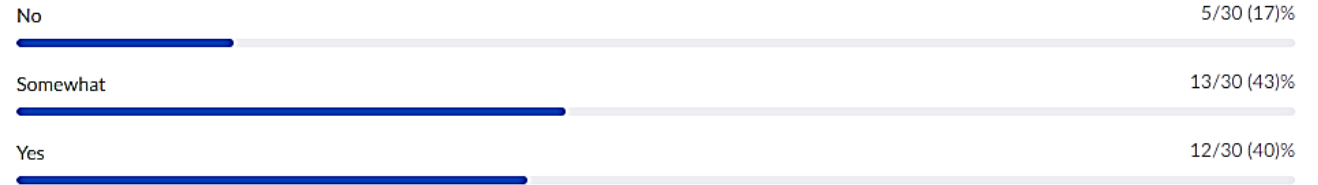


CALIFORNIA FISH PASSAGE FORUM

Poll 1-Familiarity with the Passage Assessment Database Results from Webinar

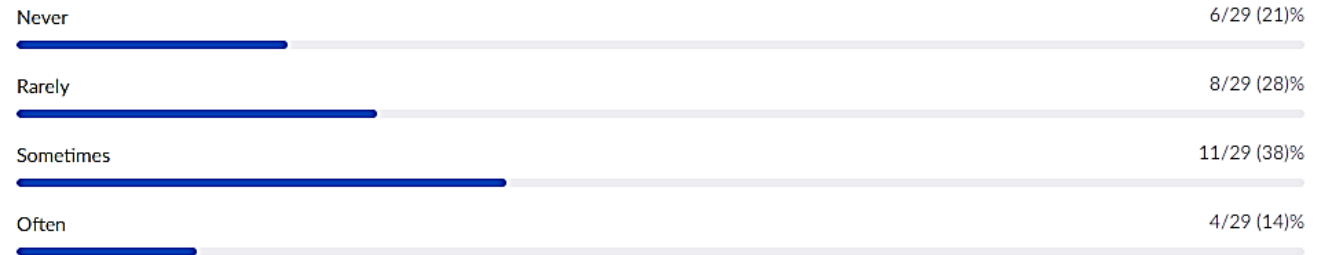
1. Are you familiar with the PAD? (Single choice)

30/30 (100)% answered



2. Do you use the PAD in your work? (Single choice)

29/30 (97)% answered



3. Have you provided updates to the PAD? (Single choice)

29/30 (97)% answered



Polls



CALIFORNIA FISH PASSAGE FORUM

Poll 2-Interest in Priority Synthesis Meetings- Results

Do you believe there is a need/and are you interested in having a platform to discuss and synthesize inter-organizational prioritization for fish passage remediation? We are developing a concept for 2x/year meetings for this purpose- would that help fill this need?

There is a need for this. There is not a lot of transparency with the decisions, and it is very impactful to the fish passage practitioners.

Yes, would be great to synthesize into one place

Seems like a great idea! I am very new to my job but would be interested

I think this would be beneficial to share info and considerations for prioritization of fish passage remediation.

Yes! Inter-organizational prioritization is very needed. Happy to contribute in organizing, presenting, or coordinating in any way. Thanks for considering this.

Yes, American Rivers is heavily engaged in this work, and the more entities we can involve in that work, the more impactful it would be!

Yes, Dry Creek Watershed was left off the initial prioritization list and would love to hear reasons why or if we can boost its prioritization. Multiple groups interested.

YES !

Yes

Yes, I believe that would be helpful for the fisheries in my district.

Yes.

Yes

Yes, I do. I think it would be helpful to have this be as transparent as possible. I also think a numbered ranking on each of those 8 criteria would be helpful

kinda. not a huge need in my own work but id be interested to sit in absolutely!

Yes to reduce duplicate efforts

Yes.

Yes, would love a smaller forum to discuss priority

No not interested, but I may not be the best to ask considered I do not deal with passage barrier regularly in my work currently.

Yes, there is a need and I think 2x/year meetings would be good.

Yes. Agencies are siloed in their work. There are great efforts to improve collaboration but this would be helpful too!

Yes, there is a need as it seems that several/many groups are doing prioritization at different levels with different needs in mind.

Yes to need, Yes to interested

Yes. I believe there is likely a need and I would be interested in attending such a meeting as well.

Agenda

- 10:00am Overview of Webinar
- 10:05am Introductions
- 10:15am Overview of the California Fish Passage Forum
- 10:30am Presentation on PAD and the PAD Plan Effort**
- 11:15am Roundtable Discussion focused on Region 2**

Holly Steindorf

Forum Coordinator
hsteindorf@nrccorp.com

Anne Elston

PSMFC PAD Manger
anne.elston@wildlife.ca.gov

Neal Scheraga

Data Management Specialist
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Region 2 Fish Passage Experts Roundtable Discussion

Objective: Discuss priorities, projects, and successes and issues encountered in advancing fish passage projects in Region 2.

Part 1: Ongoing Activities and Successes

Part 2: Issues



Region 2 Fish Passage Experts Roundtable Discussion

Prompt 1:

- What inventories/assessments are being done?
- What projects are being done?
- What monitoring efforts are informing these assessments/projects?
- Successes to share!

Polls



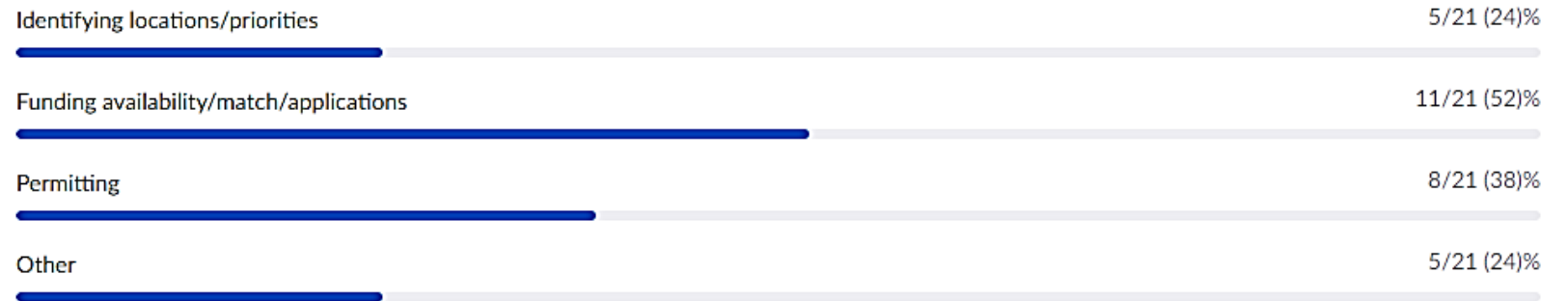
CALIFORNIA FISH PASSAGE FORUM

Poll 3-Fish Passage Issues in Region 2

Results from Webinar

1. What are your largest issues/hurdles in progressing your projects? (Multiple choice)

21/21 (100)% answered





Region 2 Fish Passage Experts Roundtable Discussion

Prompt 2:

- Share results from Zoom Poll
- What issues are most impacting the development of your projects and assessments?



**CALIFORNIA FISH
PASSAGE FORUM**



**PACIFIC STATES
MARINE FISHERIES
COMMISSION**

Thank you!

**March 20th, 2024
CDFW Region 2- North Central**