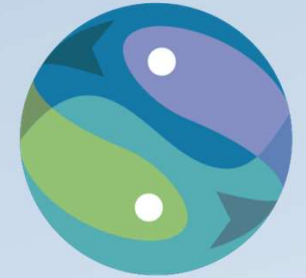


StreamNet Steering Committee Meeting



February 19-20, 2025

Pacific States Marine Fisheries Commission
205 SE Spokane Street, Suite 100
Portland, OR 97202

Microsoft Teams meeting: [link](#)
Meeting ID: 259 486 566 16
Passcode: nX9Th9Td

Or call in (audio only)
[+1 207-387-0436,,127380574#](#)



Agenda

(times are approximate, PACIFIC TIME ZONE)

DAY 1 February 19

TIME (Approximate)	AGENDA ITEM
1:00 pm PACIFIC TIME ZONE (2:00 pm MST)	Welcome and introductions (Nancy Leonard and Mari Williams) - Room and MS Teams - Reminder to review Committees and provide staffing updates as needed
1:20	SPOTLIGHT Fishing Regulations Database project update (Megan G)
2:05	StreamNet 2yr budget and SOW Updates (Nancy)
2:15	Fish Monitoring Working Group Updates (Meg Dethloff)
2:30	FMWG Terms and Definitions task group updates (Mari and Jen)
2:45	HCAX Data Workshop at WA/BC AFS (Mari and Jen)
2:55	Ontology Workshop at WA/BC AFS (Jen and Mari)
3:05 pm	Break
3:15	StreamNet Tech Team Updates (Megan)
3:25	QA/QC Tool 2025 Launch (Greg)
3:40	CAP Updates (Megan)
4:00	HCAX Tabular Query Development (Greg)
4:15	TBD
4:45 pm	Adjourn

DAY 2 February 20, 2025

TIME (Approximate)	AGENDA ITEM
9:00 AM PACIFIC TIME ZONE (10:00 AM MST)	Welcome (Nancy/Mari)
9:05	Annual Report to BPA (Nancy/Mari)
9:50	Northwest Power Conservation Council Amendment Updates (Kris Homel)
10:20 pm	Break
10:30	CA Strategic Plan Development (Mari/Jen/Nancy)
11:05	CRITFC CBFW Library Updates (Tami Wilkerson)
11:15	PSMFC GIS Update (Van Hare)
11:30	TBD
12:00 pm	Lunch
1:00 pm	Welcome back
1:05	SPOTLIGHT BPA's CAX Data Status Tool Overview (Russell Scranton & Brian Maschoff)
1:50	ETIS 2025 Webinar Series Recap (Sam Cimino)
2:00	Next SN SC meeting - Location and dates
2:20	Break
3:30	Partner Updates - StreamNet Steering Committee members verbal updates (2-5min) - Please provide updates to Mari via email for inclusion in the notes
4:30	The End

Welcome!

In the interest of fostering an open and welcoming environment, StreamNet commits to making participation in our activities a positive and valuable experience to all:

**Be
Respectful**

**Be
Accountable**

**Communicate
Effectively**

**Value
Differences**

Collaborate

Welcome and Introductions

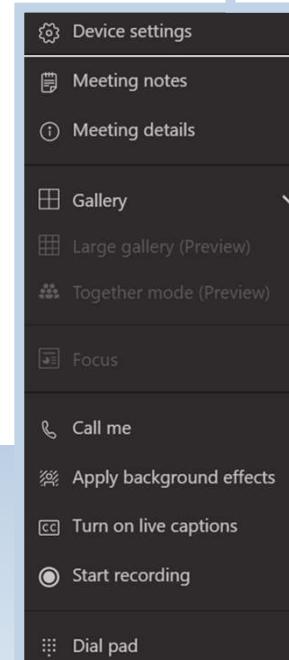
All participants,
please use the chat to introduce yourself
(name and affiliation)

Please leave web cameras on to facilitate discussion

Please mute yourself when not speaking.
Use *6 to mute phone audio.
Use the microphone icon on the control bar to mute computer audio.



Check device settings
if you are having
problems with
audio/video



StreamNet

www.streamnet.org

Review of Current Memberships

[StreamNet Steering Committee - StreamNet](#)

[SN Tech Team](#) / [SN DDT](#)

Natural [CA DDT](#)

Hatchery CA DDT (web list in development)

Name and Affiliation	SN SC Members	SN TT Members	CAP DDT Members
Nancy Leonard (Chair, PSMFC)	x		
Mari Williams (PSMFC)	x	x	x
Brady Allen (BPA)	x		
Russell Scranton (BPA)	x		
George Batten ESA-CCT	x	x	x
Sheryn Olson (CRITFC)	x		
Tami Wilkerson (CBF&W Library)	x	x	x
Angie Schmidt (IDFG)	x		
Evan Brown (IDFG)	x		
Dawn Anderson (MFWP)	x		
Kris Homel (NPCC)	x		
Jon Bowers (ODFW)	x		
Jen Bayer (PNAMP)	x		
Todd Gilmore (USFWS)	x		
Brodie Cox (WDFW)	x		
Mike Banach (Co-chair, PSMFC)		x	x
Greg Wilke (Co-chair, PSMFC)		x	x
Van Hare (PSMFC-GIS Center)		x	x
John Arterburn (Colville Tribes)		x	x
Denise Kelsey (CRITFC)		x	x
Evan Brown (IDFG)		x	x
Chris Harrington (IDFG)		x	x
Elizabeth Davis (IDFG)		x	
Bekki Waskovich (IDFG)		x	x
Kasey Bliesner (ODFW)		x	x
Jon Bowers (ODFW)		x	x
Jake Chambers (ODFW)		x	x
Nadine Craft (ODFW)		x	x
Peter Robinson (ODFW)		x	x
Todd Gilmore (USFWS)		x	x
David Hines (USFWS)		x	x
Michelle Groesbeck (WDFW)		x	x
Leslie Sikora (WDFW)		x	x
Michelle Steg (YN)		x	x
Vacant (MFWP)		x	x

Spotlight Fish Regs

Megan Griffiths and Greg Wilke



Pacific Coast-Wide Fishing Regulations Database

Megan Griffiths & Greg Wilke



Pacific Coast-Wide Fishing Regulations Database

Purpose

Facilitate accounting for mark-selective impacts in salmon species exploitation rate and other analyses by developing links between fishing regulations and existing catch information systems (e.g., Regional Mark Information System [RMIS]).

→ Example Use Case: Assess mark-selective impacts in the Chinook Technical Committee (CTC) exploitation rate analysis (ERA).

Goal

Compile Pacific salmon fishing regulations in a structured database to enable fishery recovery data to be linked to specific regulations.

→ Prioritizing Chinook mark-selective fishery (MSF) regulations from 2009 to present.



Pacific Coast-Wide Fishing Regulations Database

2023-2024 Objectives

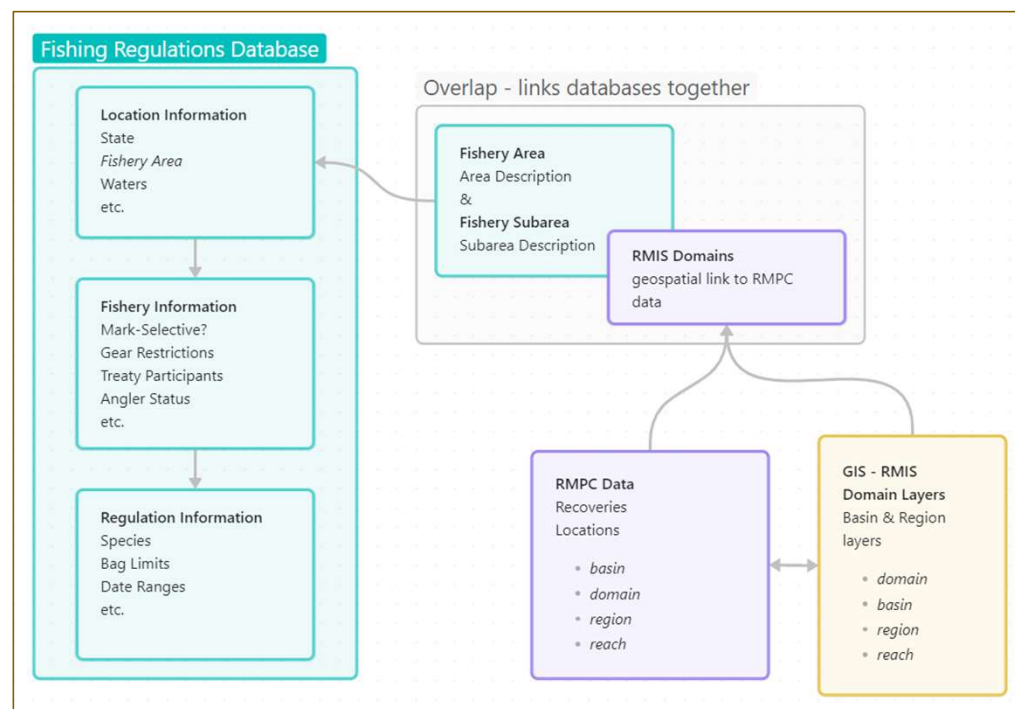
- PSMFC hosted database
- Front-end development database, data submission and data query user interfaces
- Back-end database schema development
- Link MSF status, RMIS catch/sample data, and RMIS basin geospatial data
- Compile regulation data



Pacific Coast-Wide Fishing Regulations Database

Progress

- Data compilation
 - Completed 2 pilot datasets
- Database front-end:
 - Data entry form development
 - Data query development
- SQL relational database schema
- Metadata documentation
- Explored connection to RMIS data



Pacific Coast-Wide Fishing Regulations Database

Data Compilation

• Pilot Datasets:

- **WA & OR Ocean Regulations – Commercial and Recreational**
- **Columbia River Mainstem Regulations – Commercial and Recreational**

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2023. (Page 1 of 2)

Area and Season	Salmon Species	Actual Quota		Special Restrictions ^{a/}
		Chinook	Coho	
U.S./Canada Border to Cape Falcon, OR (U.S./Canada Border to the Queets River)	All except coho	26,000 with ^{b/} sub-allocation by area	-	Chinook minimum size limit of 27 inches total length. Weekly landing and possession limits in place and modified inseason. Salmon Troll Yelloweye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones closed. Vessels must land and deliver their fish within 24 hours of any closure of this fishery and landings were generally restricted to area of catch. Refer to complete 2023 ocean salmon regulations for detailed landing and notification requirements.
May 1-10; May 17-June 21; June 24-29 (The Queets River to Cape Falcon, OR)				
May 1-June 21; June 24-29				
July 1-Aug. 2; Aug. 17-Sept. 30	All salmon	13,000	30,400 ^{c/}	Chinook minimum size limit of 27 inches total length. Coho minimum size limit of 16 inches total length. All coho must be marked with a healed adipose fin clip through August 25. No chum retention north of Cape Alava beginning August 1. Weekly landing and possession limits for Chinook and coho in place and modified inseason. Coho quota was modified inseason to allow for non-mark selective retention. Salmon Conservation Area, Cape Flattery and Columbia Control Zones closed. Grays vessels must land and deliver their fish within 24 hours of any closure of this fishery and landings were generally restricted to area of catch. Refer to complete 2023 ocean salmon regulations for detailed landing and notification requirements.

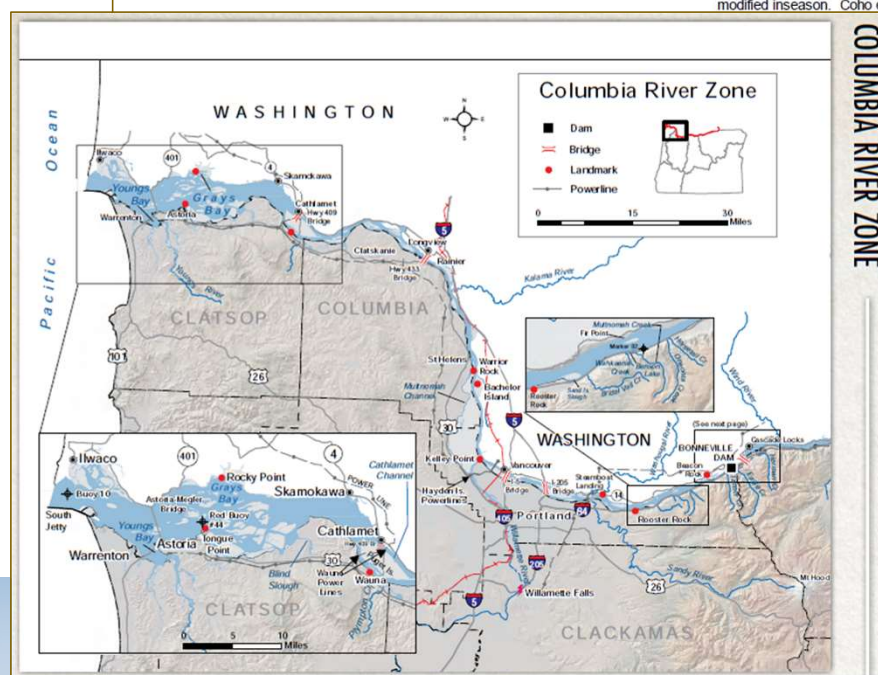


Image Sources: Pacific Fishery Management Council. 2024 Review of 2023 Ocean Salmon Fisheries & WDFW Sport Fishing Regulation Pamphlet 2023



Pacific Coast-Wide Fishing Regulations Database

Regulations Data Entry Form

Hierarchy ID:

Location

* Country:

* State / Province:

* Fishery Region:

* Fishery Area:

Fishery Subarea:

Catch Area Description:

Waters:

Catch Area Code:

Fishery Area Map:

Fishery Description

* Fishery Type:

* Regulation Gear:

Regulation Authority:

* Angler Status:

* Treaty Participants:

Source link:

Issued:

Area of Application:

Season

* Fishery Management Year:

* Start Date:

Save

Clear

CLONE

Image Source: [QW Data Entry Form](#)

Data Entry & Form Front End Development

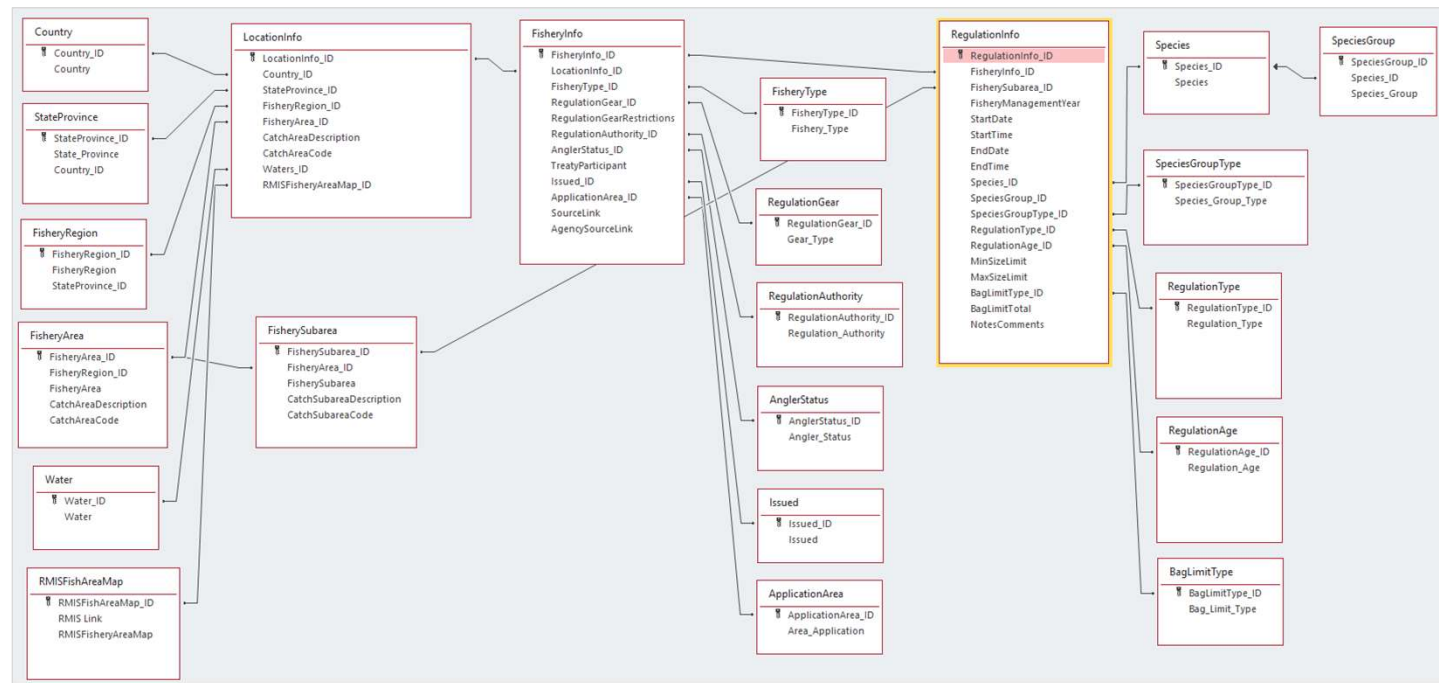
- Ocean data entry - in Google Sheets/Forms
- Highlighted a need for:
 - Relational database schema
 - SQL Server database
 - Data entry form with stand-alone functionality



Pacific Coast-Wide Fishing Regulations Database

Developed Relational Database and Schema

- Tested with Columbia River Mainstem regulations data entry
- Moved to SQL Server



Pacific Coast-Wide Fishing Regulations Database

TABLE I-2. Summary of actual treaty Indian commercial ocean and Area 4B troll salmon seasons for 2023.

Tribe and Area	Seasons ^{a/}			Minimum Size Limit (Inches)		Special Restrictions	
	Salmon Species	Dates	Days	Chinook	Coho		
Quinault							
Areas 2-3	All except coho	May 1-June 30	61	24	-	Six nautical mile radius from the mouth of the Queets River and two nautical mile radius from the mouth of the Quinault River: closed to commercial fishing.	
	All	July 1-Sept. 15	77	24	16		
Hoh							
Areas 2-3	All except coho	May 1-June 30	61	24	-	Six nautical mile radius from the mouth of the Hoh River: closed to commercial fishing.	
	All	July 1- Sept. 15	77	24	16		
Quileute							
Area 3	All except coho	May 1-June 30	61	24	-		
	All	July 1-Sept.15	77	24	16		
Makah							
Areas 3, 4 and 4A	All except coho	May 1-June 17	61	24	-	1,000-foot closure around stream mouths.	
		June 18-June 30	61	24	-		
	All ^{b/}	July 1- Sept. 15	77	24	16		1,000-foot closure around stream mouths.
Area 4B	All ^{b/}	Jan. 1-Apr. 15	105	22	16	1,000-foot closure around stream mouths.	
	All except coho	May 1-June 17	61	24	-		
		June 18-June 30	61	24	-		
		All ^{b/}	July 1- Sept. 15	77	24		16
S'Klallam							
Area 4B	All ^{b/}	Jan. 1-Apr. 15	105	22	16	Troll gear must not be operated closer than 1,000 feet away from any stream or river mouth in area 4B, or within a 1,000 yard radius from the mouth of the Elwha River.	
	All except coho	May 1-June 30	61	24	-		
		All ^{b/}	July 1- Sept. 15	77	24		16
		All ^{b/}	Nov. 1-Dec. 31	61	22		16

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period were 45,000 Chinook and 57,000 coho. These quotas include troll catches by the S'Klallam and Makah tribes in Washington State Statistical Area 4B from May 1-Sept. 15. The overall Chinook quota was divided pre-season to provide 22,500 Chinook for the May 1-June 30 Chinook-directed season and 22,500 Chinook for the July 1-Sept. 15 all-salmon season. The balance of the Chinook quota from the spring period was added to the summer period in season. Single point, single shank barbless hooks were required in all ocean fisheries.

b/ Retention of steelhead prohibited; retention of chum prohibited beginning August 1.

Data Entry Continued

- Columbia River Mainstem Regulations – sport & commercial
- Quicker in new relational database
- Better captures hierarchy in regulations and area of application



Pacific Coast-Wide Fishing Regulations Database

Compiled Data So Far:

- Currently 934 regulations in the database
- 153 are mark-selective for coho or chinook
- Capturing annual/daily bag limits and quotas
- 20 Fisheries including sport hook & line, commercial troll/tangle/gillnet, and treaty fisheries

SpeciesGroup_ID	SpeciesGroupType_ID	RegulationType_ID	RegulationAge_ID	MinSizeLimit	MaxSizeLimit	BagLimitType_ID	BagLimitTotal
Chum Salmon	All	Non-Selective	Any			Daily	2
Pink salmon	All	Non-Selective	Any			Daily	2
Sockeye salmon	All	Non-Selective	Any			Daily	2
Coho salmon	All	Mark-Selective	Any	16		Daily	2
Coho salmon	All	Non-Selective	Any	16		Daily	2
Chinook salmon	All	Non-Selective	Any	22		Daily	1
Coho salmon	All	Mark-Selective	Any	16		Quota	79800
Coho salmon	All	Non-Selective	Any	16		Quota	21740
Chinook salmon	All	Non-Selective	Any	22		Quota	11490
Pink salmon	All	Non-Selective	Any			Quota	
Sockeye salmon	All	Non-Selective	Any			Quota	
Chinook salmon	All	Non-Selective	Any	24		Quota	22500
Chum Salmon	All	Non-Selective	Any			Quota	
Pink salmon	All	Non-Selective	Any			Quota	
Sockeye salmon	All	Non-Selective	Any			Quota	
Chinook salmon	All	Non-Selective	Any	24		Quota	22500
Chum Salmon	All	Non-Selective	Any			Quota	
Pink salmon	All	Non-Selective	Any			Quota	
Sockeye salmon	All	Non-Selective	Any			Quota	
Chinook salmon	All	Non-Selective	Any	24		Quota	22500
Chum Salmon	All	Non-Selective	Any			Quota	
Chum Salmon	All	Non-Retention Fishery	Any			Quota	
Chum Salmon	All	Non-Selective	Any			Daily	2
Chum Salmon	All	Non-Retention Fishery	Any			Daily	0
Pink salmon	All	Non-Selective	Any			Daily	2
Sockeye salmon	All	Non-Selective	Any			Daily	2
Chinook salmon	All	Non-Selective	Any	24		Daily	1
Chinook salmon	All	Non-Selective	Any	24		Daily	2
Chinook salmon	All	Non-Retention Fishery	Any	24		Daily	2
Coho salmon	All	Mark-Selective	Any	16		Daily	2
Coho salmon	All	Non-Selective	Any	16		Daily	2
Chinook salmon	All	Non-Selective	Any	24		Quota	8710
Chinook salmon	All	Non-Retention Fishery	Any	24		Quota	8710
Coho salmon	All	Mark-Selective	Any	16		Quota	16600
Coho salmon	All	Non-Selective	Any	16		Quota	4800
Chum Salmon	All	Non-Selective	Any			Daily	2
Pink salmon	All	Non-Selective	Any			Daily	2
Sockeye salmon	All	Non-Selective	Any			Daily	2



Pacific Coast-Wide Fishing Regulations Database

Fishing Regulations
Coastwide Chinook and Coho

Site in development

About | API | Contact | Login

Search GO

Regulation Filters

Location Info

- Country (1)
- State / Province (1)
- Fishery Region (2)
- Fishery Area (3)
- Waters (2)

Fishery Info

- Fishery Type (2)
- Regulation Authority (2)
- Treaty Participant (7)

Regulation Info

- Fishery Subarea (15)
- Regulation Type (5)
- Management Year (1)

Regulation results (292)

Filters: Washington

< Previous 1 2 3 4 5 Next >

Project Metadata Report Data Issue

Columbia River Mainstem Mark-Selective

Fishery Region: Columbia Basin Rivers WA State / Country: Washington, United States
Fishery Area: Columbia River Mainstem Water: Fresh
Fishery Subarea: Buoy 10 Fishery

Regulation Information

Regulation Type: Mark-Selective	Start Date: 7/31/2023	Management Year: 2023
Regulation Age: Any	End Date: 8/19/2023	
Species: Salmon Species	Species Group: Chinook salmon	Species Group Type: Hatchery
Bag Limit Type: Daily	Bag Limit Total: 1	Min Size: 0
		Max Size: 0

Regulation Notes: Two adult salmonid daily bag limit, only one Chinook allowed. Chinook must be adipose-fin clipped and Coho must be hatchery. Steelhead retention prohibited.

[View More...](#)

Columbia River Mainstem Mark-Selective

Fishery Region: Columbia Basin Rivers WA State / Country: Washington, United States
Fishery Area: Columbia River Mainstem Water: Fresh
Fishery Subarea: Buoy 10 Fishery

Regulation Information

Regulation Type: Mark-Selective	Start Date: 7/31/2023	Management Year: 2023
---------------------------------	-----------------------	-----------------------

Database Front End - Data Query

- Query via:
 - searching key terms
 - ex: Washington, Columbia River, Buoy 10, Mark-selective
- Query via advanced filter selection
- [Data Query Link](#)



Pacific Coast-Wide Fishing Regulations Database

Data Query

- Expanded and condensed view of regulation information

Regulation results (292)

Filters: Washington

< Previous 1 2 3 4 5 Next >

Project Metadata

Columbia River Mainstem

Fishery Region: Columbia Basin Rivers WA
Fishery Area: Columbia River Mainstem
Fishery Subarea: Buoy 10 Fishery

State / Country: Washington, United States
Water: Fresh

Regulation Information

Regulation Type: **Mark-Selective** Start Date: 7/31/2023 Management Year: 2023
Regulation Age: **Any** End Date: 8/19/2023
Species: **Salmon Species** Species Group: **Chinook salmon** Species Group Type: **Hatchery**
Bag Limit Type: **Daily** Bag Limit Total: 1 Min Size: 0 Max Size: 0
Regulation Notes: Two adult salmonid daily bag limit, only one Chinook allowed. Chinook must be adipose-fin clipped and Coho must be hatchery. Steelhead retention prohibited.

[View More...](#)

Columbia River Mainstem

Fishery Region: Columbia Basin Rivers WA
Fishery Area: Columbia River Mainstem
Fishery Subarea: Buoy 10 Fishery

State / Country: Washington, United States
Water: Fresh

Regulation Information

Regulation Type: **Mark-Selective** Start Date: 7/31/2023 Management Year: 2023

Columbia River Mainstem

Mark-Selective

Fishery Region: Columbia Basin Rivers WA
Fishery Area: Columbia River Mainstem
Fishery Subarea: Buoy 10 Fishery

State / Country: Washington, United States
Water: Fresh

Regulation Information

Regulation Type: **Mark-Selective** Start Date: 7/31/2023 Management Year: 2023
Regulation Age: **Any** End Date: 8/19/2023
Species: **Salmon Species** Species Group: **Chinook salmon** Species Group Type: **Hatchery**
Bag Limit Type: **Daily** Bag Limit Total: 1 Min Size: 0 Max Size: 0
Regulation Notes: Two adult salmonid daily bag limit, only one Chinook allowed. Chinook must be adipose-fin clipped and Coho must be hatchery. Steelhead retention prohibited.

Fishery Information

Regulation Authority: Oregon Department of Fish and Wildlife and Washington Department of Fish and Wildlife Joint Staff Reports
Fishery Type: **Sport / Recreational** Regulation Gear: **Hook & Line**
Issued: **Inseason** Regulation Gear Restrictions:
Angler Status: **Non-Treaty** Treaty Participant: **Non-Treaty**
Application Area: **Area** Source: [Link](#) RMIS: [Link](#) Map: [Link](#)

[View Less...](#)



Pacific Coast-Wide Fishing Regulations Database

Data Query

- Data queries can be downloaded in CSV and JSON
- Eventual data submission via API

Fishing Regulations

Coastwide Chinook and Coho

Site in development

Search

GO

About

API

Contact

Login

Regulation Filters

Location Info

Country (1)

State / Province (1)

Fishery Region (1)

Regulation results (3)

Filters: Mark-Selective Chinook salmon

Columbia River Mainstem

Fishery Region: Columbia Basin Rivers WA

Fishery Area: Columbia River Mainstem

Fishery Subarea: Buoy 10 Fishery

Download: csv | json

Project Metadata

Report Data Issue

Country (1)

State / Province (1)

Fishery Region (1)

State / Country: Washington, United States

Water: Fresh

Download: csv | json

Project Metadata

Report Data Issue

C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	
1	Country	StateProv	FisheryRe	FisheryAn	FisherySu	CatchAre	CatchAre	CatchSub	CatchSub	FisheryTy	AnglerSta	Applicatio	Issued	Regulatio	GearType	Regulatio	SourceLin	TreatyPar	BagLimitT	BagLimitT	StartDate	StartTime	EndDate	EndTime	FisheryM	MinSizeLi	MaxSizeLi	Species	SpeciesG
2	United Sta	Washingt	Columbia	Columbia	Buoy 10 Fi	null	null	null	Buoy 10 Fi	Sport / Rex	Non-Treat	Area	Inseason	Oregon D	Hook & Lir	null	https://do	Non-Treat	Daily	1	Tue Aug 0	null	Sun Aug 21	null	2023	0	0	Salmon S	Chinook s
3	United Sta	Washingt	Columbia	Columbia	Buoy 10 Fi	null	null	null	Buoy 10 Fi	Sport / Rex	Non-Treat	Area	Inseason	Oregon D	Hook & Lir	null	https://do	Non-Treat	Daily	1	Thu Aug 2	null	Sun Aug 2	null	2023	0	0	Salmon S	Chinook s
4	United Sta	Washingt	Columbia	Columbia	Buoy 10 Fi	null	null	null	Buoy 10 Fi	Sport / Rex	Non-Treat	Area	Inseason	Oregon D	Hook & Lir	null	https://do	Non-Treat	Daily	1	Wed Aug 3	null	Mon Sep 0	null	2023	0	0	Salmon S	Chinook s

[[{"RegulationId":171,"FisheryId":2,"Country":"United States","StateProvince":"Washington","FisheryRegion":"Columbia Basin Rivers WA","FisheryArea":"Columbia River Mainstem","FisherySubarea":"Buoy 10 Fishery","CatchAreaCode":null,"CatchAreaDescription":null,"CatchSubareaCode":null,"CatchSubareaDescription":null,"Buoy 10 Fishery from OR, WA joint staff reports. The Buoy 10 fishery traditionally targets fall Chinook and Coho from the Buoy 10 line upstream to the Tongue Point/Rocky Point line","FisheryType":"Sport / Recreational","AnglerStatus":"Non-Treaty","ApplicationArea":"Area","Issued":"Inseason","RegulationAuthority":"Oregon Department of Fish and Wildlife and Washington Department of Fish and Wildlife Joint Staff Reports","GearType":"Hook & Line","RegulationGearRestrictions":null,"SourceLink":"https://docs.cbful.org/Fishing%20Regulations%20Database/30-int/2024JulyColumbiaRiverManagement.pdf","TreatyParticipant":"Non-Treaty","BagLimitType":"Daily","BagLimitTotal":1,"StartDate":"2023-08-01T00:00:00.000Z","StartTime":null,"EndDate":"2023-08-30T00:00:00.000Z","EndTime":null,"FisheryManagementYear":2023,"MinSizeLimit":0,"MaxSizeLimit":0,"Species":"Salmon Species","SpeciesGroup":"Chinook salmon","SpeciesGroupType":"Hatchery","RegulationType":"Mark-Selective","RegulationAge":"Any","Water":"Fresh","NotesComments":"Two adult salmonid daily bag limit, only one Chinook allowed. Chinook must be adipose-fin clipped and Coho must be hatchery. Steelhead retention prohibited","RMISLink":null,"FisheryAreaMap":null},{\"RegulationId\":179,\"FisheryId\":2,\"Country\":\"United States\",\"StateProvince\":\"Washington\",\"FisheryRegion\":\"Columbia Basin Rivers WA\",\"FisheryArea\":\"Columbia River Mainstem\",\"FisherySubarea\":\"Buoy 10 Fishery\",\"CatchAreaCode\":null,\"CatchAreaDescription\":null,\"CatchSubareaCode\":null,\"CatchSubareaDescription\":null,\"Buoy 10 Fishery from OR, WA joint staff reports. The Buoy 10 fishery traditionally targets fall Chinook and Coho from the Buoy 10 line upstream to the Tongue Point/Rocky Point line\",\"FisheryType\":\"Sport / Recreational\",\"AnglerStatus\":\"Non-Treaty\",\"ApplicationArea\":\"Area\",\"Issued\":\"Inseason\",\"RegulationAuthority\":\"Oregon Department of Fish and Wildlife and Washington Department of Fish and Wildlife Joint Staff Reports\",\"GearType\":\"Hook & Line\",\"RegulationGearRestrictions\":null,\"SourceLink\":\"https://docs.cbful.org/Fishing%20Regulations%20Database/30-int/2024JulyColumbiaRiverManagement.pdf\",\"TreatyParticipant\":\"Non-Treaty\",\"BagLimitType\":\"Daily\",\"BagLimitTotal\":1,\"StartDate\":\"2023-08-01T00:00:00.000Z\",\"StartTime\":null,\"EndDate\":\"2023-08-30T00:00:00.000Z\",\"EndTime\":null,\"FisheryManagementYear\":2023,\"MinSizeLimit\":0,\"MaxSizeLimit\":0,\"Species\":\"Salmon Species\",\"SpeciesGroup\":\"Chinook salmon\",\"SpeciesGroupType\":\"Hatchery\",\"RegulationType\":\"Mark-Selective\",\"RegulationAge\":\"Any\",\"Water\":\"Fresh\",\"NotesComments\":\"Two adult salmonid daily bag limit, only one Chinook allowed. Chinook must be adipose-fin clipped and Coho must be hatchery. Steelhead retention prohibited\",\"RMISLink\":null,\"FisheryAreaMap\":null}]]



Pacific Coast-Wide Fishing Regulations Database

Download: [csv](#) | [json](#)

[Project Metadata](#) [Report Data Issue](#)

State / Country: Washington, United States
Water: Marine

Management Year: 2023

Species Group Type: All

Min Size: Max Size:

away from 3 stream or river mouth in area 4B, or within a 1,000 yard
ed.

Regulation Gear: Troll

Regulation Gear Restrictions: Single point, single shank barbless hooks
were required in all ocean fisheries.

Treaty Participant: S'Klallam Tribal Fishery

RMIS: [Link](#) Map: [Link](#)

[View Less...](#)

Report Data Issue

Regulation Information

Data that need correction:

<input type="checkbox"/> Regulation Type	<input type="checkbox"/> Fishery Area/Subarea	<input type="checkbox"/> Start/End Dates
<input type="checkbox"/> Regulation Age	<input type="checkbox"/> Fishery Type	<input type="checkbox"/> RMIS Link
<input type="checkbox"/> Regulation Notes	<input type="checkbox"/> Bag Limit	<input type="checkbox"/> Source
<input type="checkbox"/> Species Group Type	<input type="checkbox"/> Map	<input type="checkbox"/> Other
<input type="checkbox"/> Species	<input type="checkbox"/> Gear	

Description of Data Issue:

Attachments:

[Choose File](#) No file chosen

Contact Information

Name	<input type="text"/>	E-mail	<input type="text"/>
Agency/ Dept:	<input type="text"/>	Phone:	<input type="text"/>

[Submit](#) [Close](#)

Data Query

- Data error reporting in development
 - Will capture the query/filters in report



Pacific Coast-Wide Fishing Regulations Database

Metadata

- Created project metadata and controlled vocabulary
- Developing link to metadata from data query

Fish Regulations Database - Draft Fields								
Source: Fish Regulations Relational Database								
Field Name	SQL Key	SQL Table Name	Definition	UnitOfMeasure	DataType	Accepted Values/Codes/Conventions	Required	DataEntryRules
AgencySourceLink	N/A	FisheryInfo	URL or agency website link to published fishing regulation PDF.		Hyperlink	URL or Hyperlink	Required if SourceLink is null.	URL or Hyperlink to the regulation PDF on the management agency site.
Angler_Status	AnglerStatus_ID	AnglerStatus	Categorization of the angler as a resident, or non-resident when residency is applicable, and tribal nation treaty fishery participant or non-treaty fishery participant.		Text	Resident Non-Resident Treaty Non-Treaty Not Applicable All	Required in FisheryInfo table	Populated from look up table - restricted to accepted table values which are required to validate. Query/Search Term. Can't be left blank/null.
Area_Application	AreaApplication_ID	ApplicationArea	Value used to designate if a regulation is applicable to an entire state/province, a specific region within the state/province, or a specific area within both the state/province and region.		Text	State/Province Regional Area	Required in FisheryInfo table	Populated from look up table - restricted to accepted table values which are required to validate. Query/Search Term. Can't be left blank/null.
Bag_Limit_Type	BagLimitType_ID	BagLimitType	Categorization of bag limits by time of application, e.g. regulation applies to one day, one week, one year, etc., and type of limit e.g. possession, daily/weekly bag limit, quota, etc.		Text	Possession Possession Exception Not Applicable Daily Daily Exception Weekly Weekly Exception Annual Quota	Required in RegulationInfo table	Populated from look up table - restricted to accepted table values which are required to validate. Query/Search Term. Can't be left blank/null.
Country	Country_ID	Country	The country where the fishing regulations are published, applicable, and enforced.		Text	United States Canada	Required in StateProvince.Coun try_ID	Populated from look up table - restricted to accepted table values which are required to validate. Query/Search Term. Can't be left blank/null.
CatchAreaCode	N/A	FisheryArea	Numeric code used by the fishery regulation authority to designates catch area zones where area and subarea specific regulations are applicable and enforced. OR Example: 10 Waldport WA Example: 2-1 Willapa Bay		Text	#####	No	Commercial catch areas should be matched to associated recreational catch areas and catch area codes where applicable.

Fishing Regulations

Coastwide Chinook and Coho

Regulation Filters

Location Info

- Country (1) ▾
- State / Province (1) ▾
- Fishery Region (1) ▾
- Fishery Area (1) ▾

Regulation results (20)

Download: csv | json

Filters: Washington ✕ S'Klallam Tribal Fishery ✕

< Previous 1 2 3 4 Next >

Marine Areas 1 to 4 - US/Canada Border to WA/OR Border

Fishery Region: Marine Area
Fishery Area: Marine Areas 1 to 4 - US/Canada Border to WA/OR Border
Fishery Subarea: Marine Area 4B - Friday Harbor

State / Country: Washington, United States
Water: Marine

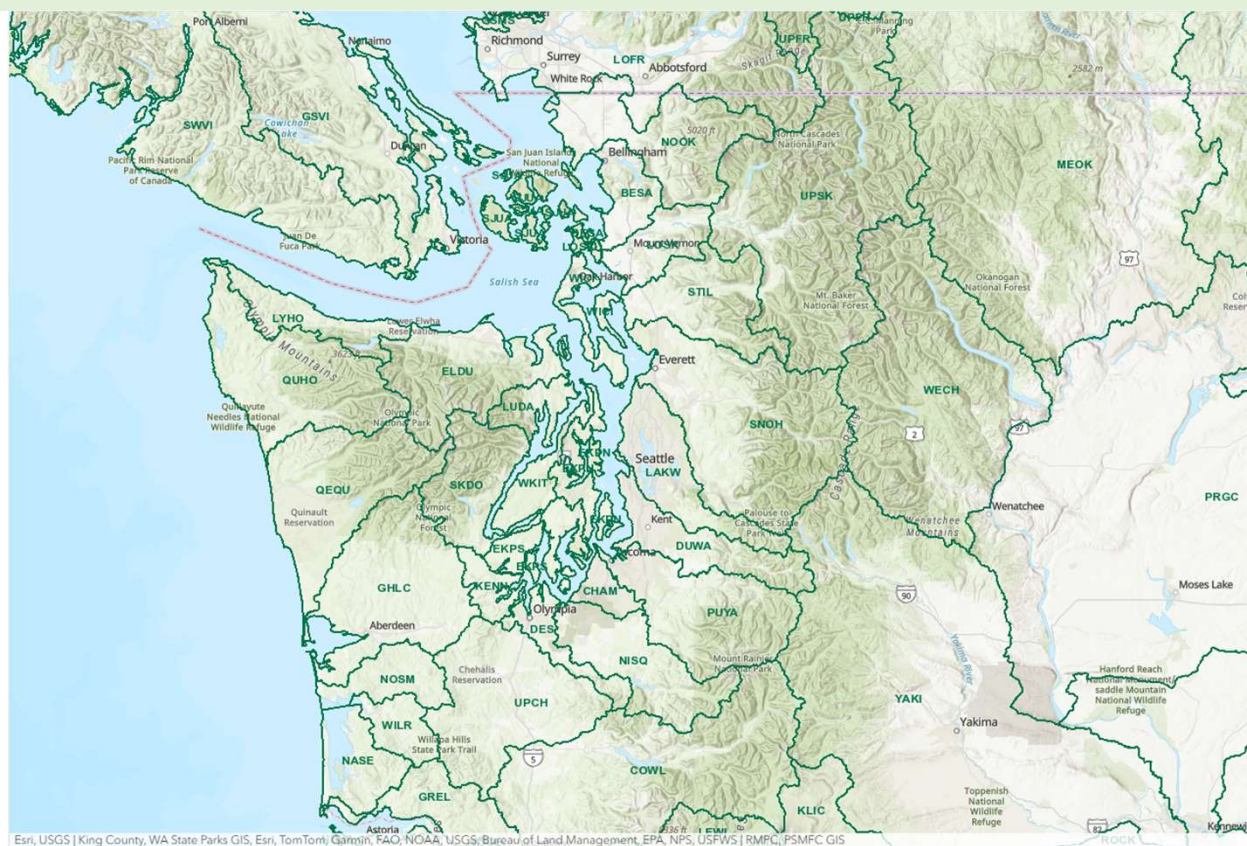
[Project Metadata](#) [Report Data Issue](#)



Pacific Coast-Wide Fishing Regulations Database

RMIS Data Connection

- Plan for GIS fishery area mapped data entry
- Explored available GIS resources for mapped regulation areas and RMIS basins
- Met with partners to gather mapped fishery resources



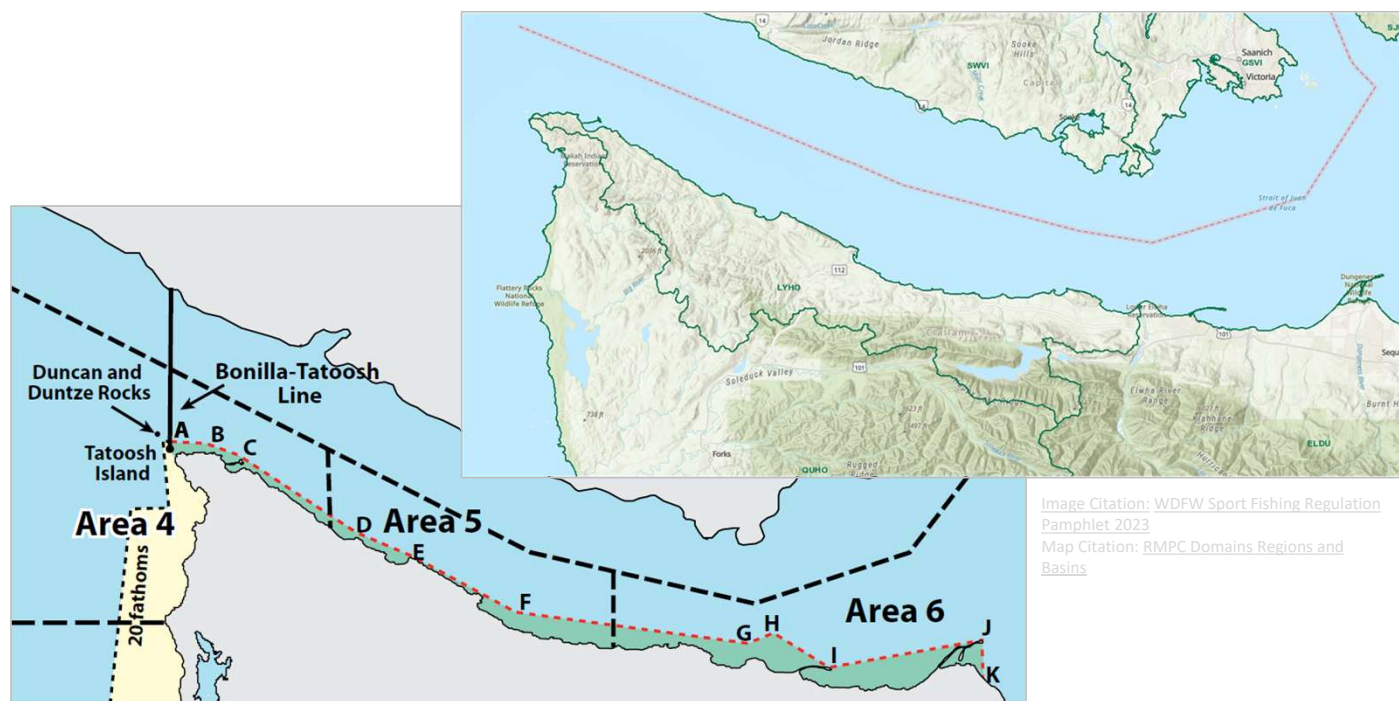
Map Citation: [RMPC Domains Regions and Basins](#)



Pacific Coast-Wide Fishing Regulations Database

RMIS Data Connection

- Assessed RMIS data and regulation data cohesion
- Time Intensive Barrier - RMIS Basins contain multiple fishery areas with both MSF and non-MSF data



Pacific Coast-Wide Fishing Regulations Database

Decisions Made

- Prioritized back-end database development over data entry
 - Improve data entry efficiency and assure data quality

Project Barriers

- Staff resources for breadth of regulation data compilation
- Need for solid back-end database structure before further development of RMIS connection



Pacific Coast-Wide Fishing Regulations Database

Next Steps

- Continue data entry form and data query refinements
- Connection to RMIS Data & RMIS mapped basins
- GIS/Mapping focused fishery area data entry
- Data entry:
 - Compile all regulations for year 2023
 - Started data compilation back up with SE Alaska regulations
 - Continue to develop relational schema with more complex data entry
 - Additional staff available for data entry in 2025



StreamNet 2yr budget and SOW update for BPA Contract

Nancy Leonard



StreamNet 2yr budget and SOW 2026-2027 Process Timeline

Performance Period:	October 1, 2025 to September 30, 2027
---------------------	---------------------------------------

Begin SOW & Budget Drafting:	March 30, 2025-May 30, 2025
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Submit draft SOW & Budget to BPA:	June 1, 2025-June 30, 2025 (Budget, SOW, inventory)
-----------------------------------	--

Address BPA comments:	July 1- Aug 30, 2025
-----------------------	----------------------

PSMFC returns signed contract:	Sept 1-30, 2025
--------------------------------	-----------------

PSMFC sends contracts to partners:	Oct 1-Nov 15, 2025
------------------------------------	--------------------

*contracts will be 2 yrs except for MFWP

Cost Share update:	Oct-Nov 2026
--------------------	--------------





PNAMP

Fish Monitoring Work Group

Updates



pacific northwest aquatic
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Task Leadership



Task Lead	Task #
Mike Banach (PSMFC)	4,7
Jen Bayer*	1,4
Kasey Bliesner* (ODFW)	2,7,10
Morgan Bond (NOAA)	1
Evan Brown (IDFG)	9
Tim Copeland (IDFG)	1
Megan Dethloff*	1-10
Marika Dobos* (IDFG)	2,3,10
Lara Erikson* (PSMFC)	6,8
Polly Gibson (ODFW)	10
Van Hare (PSMFC)	9
Kris Homel (NPCC)	8
Tom Iverson (consultant)	5
Nancy Leonard* (PSMFC)	2,5,6
Russell Scranton* (BPA)	1,2,3,7,10
Mari Williams* (PSMFC)	4
Megan Griffiths (PSMFC)	2

ACTIVE

1. Carrying Capacity Standards
2. Rotary Screw Trap (RST) Data Collection
3. PIT Tag Array Data and Related Data Analyses
4. Update Terms and Definitions Used in CAP Data Standards

COMPLETED

5. Data Display
6. Data Display: Implementation
7. CAP DES Juvenile Outmigrant Refinement: Define Smolt Equivalent
8. MAFAC and NPCC SPI
9. Fish Management Units Boundaries and Attributes
10. Juvenile Density (Snorkel & Electrofishing)

*indicates participation in FMWG Core Team

In Case You Missed It

October 17, 2024 presentation:

*Flowing Forward: Key Insights from the Middle Fork John Day River
Intensively Monitored Watershed 2024 Summary Report*

Kasey Bliesner, Melody Feden, Ian Tattam

Oregon Department of Fish and Wildlife

January 16, 2025 presentation:

Putting Time Back into Space-for-Time Mark-Recapture Models

Russell W. Perry, Dalton J. Hance, and Adam C. Pope

U.S. Geological Survey

For more information about the PNAMP Fish Monitoring Work Group,
reach out to Meg Dethloff @mdethloff@usgs.gov

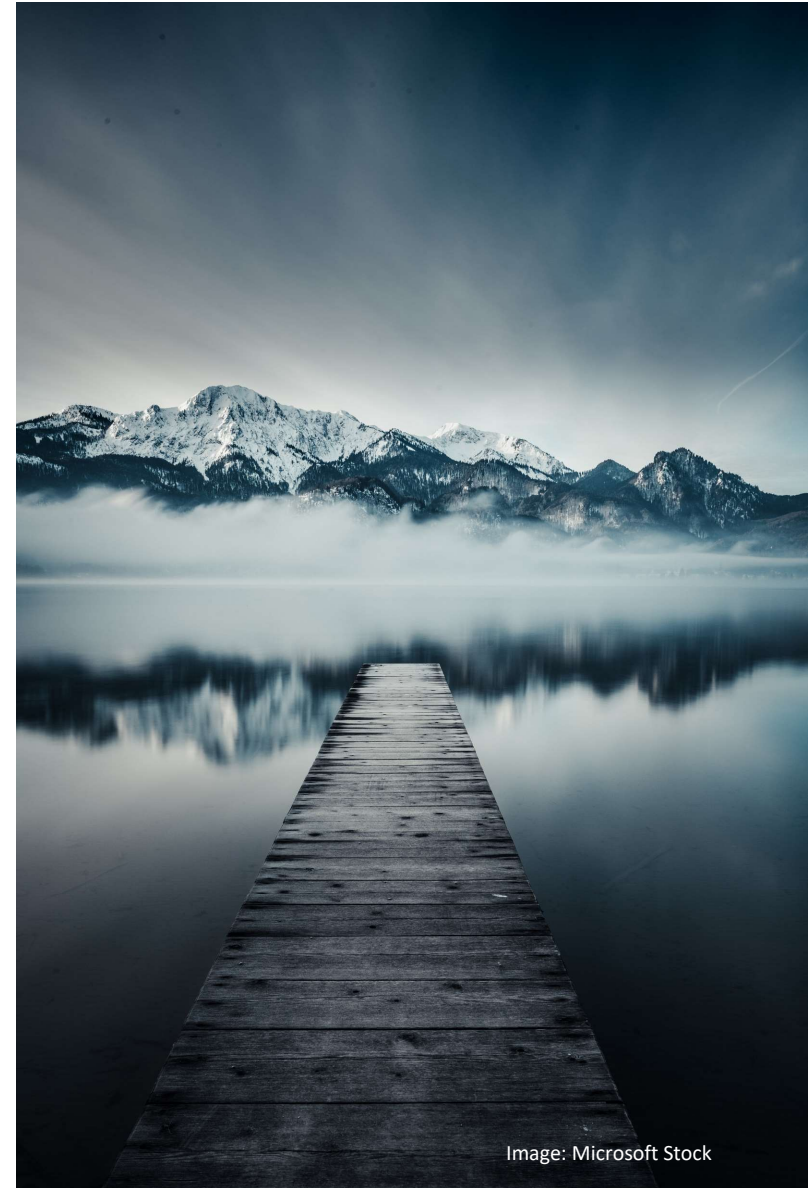


Image: Microsoft Stock



Carrying Capacity Standards

Review of carrying capacity estimation methods, including: Habitat expansion, stock-recruit models, quantile regression, Individual based models, and food web modeling.

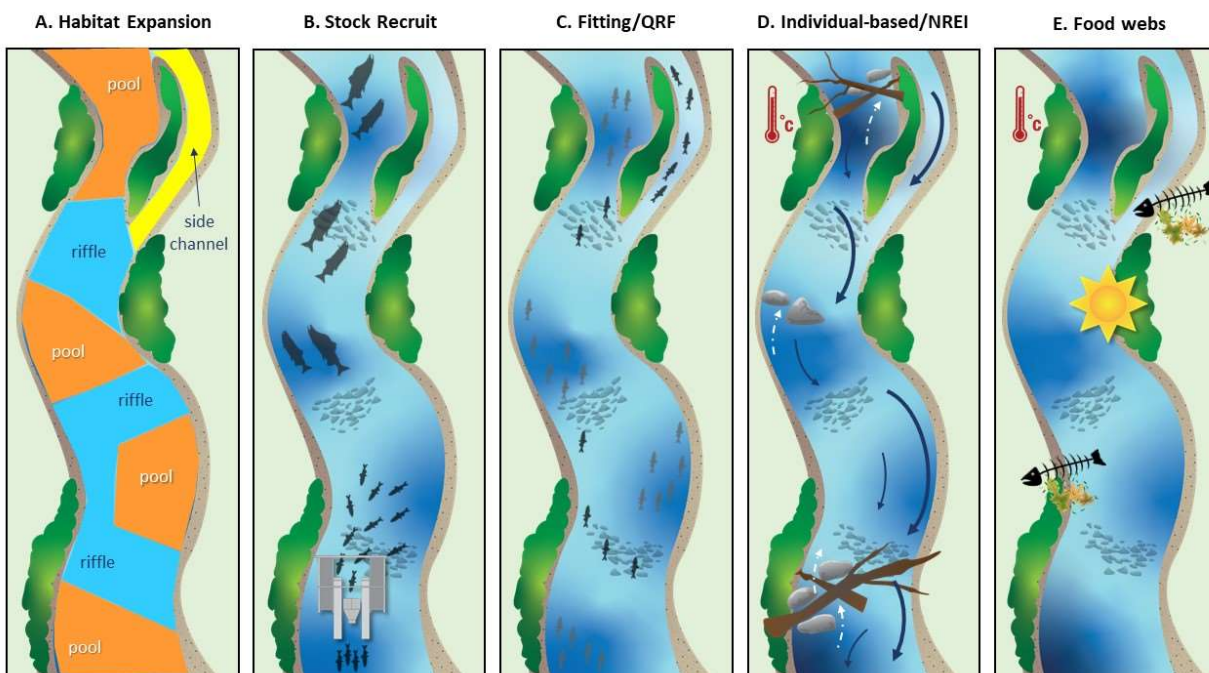
Authors: Morgan H. Bond, Timothy Copeland, Tim Beechie, Sean M. Naman, Joe R. Benjamin, J. Ryan Bellmore, Kevin E. See, Correigh Greene, Jennifer M. Bayer, Meg Dethloff, and Russell Scranton

Progress:

- Authors are editing sections to match tone and brevity
- Editing final discussion section, tables and figures

Next Steps:

- Meeting with all authors to review and finish synthesis
- Full draft of document for external review



Task Leads:

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Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov

Image: Morgan Bond, NOAA



PIT Tag Array Data and Analyses

Purpose: This task is focused on documenting and recommending improvements to data management and analytical methods and tools for PIT tag array data.

Progress:

- Identified presenters, coordination meeting with presenters to discuss webinar format and goals
- Dates, times, topics confirmed

Next Steps:

- Build event pages, gather abstracts and presentation details for program, prepare announcements
- Distribute the save the date for the webinar series

Task Leads:

Marika Dobos (IDFG)
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Russell Scranton (BPA)
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Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov



PIT Tag Array Data and Analyses

2025 Webinar Series

Every third Thursday from 10-11:30 am (PDT)

Date	Topic
April 17	Fish Monitoring Work Group Meeting
PIT Tag Data and Analysis 2025 Webinar Series	
April 24	-Mastering advanced reports and data extraction in PTAGIS -Mastering skills in Excel for managing PIT detection data
May 1	-GitHub How-to
May 8	-Wrangling and Preparing PIT Tag Data using PITcleanr -R in GitHub resources to access PTAGIS, DART, MR, and StreamNet data & PIThy updates
May 15	-Columbia Basin Research: DART & Tools -PitPro demo
May 22	-Honing skills in R for graphics and managing detection data

Task Leads:

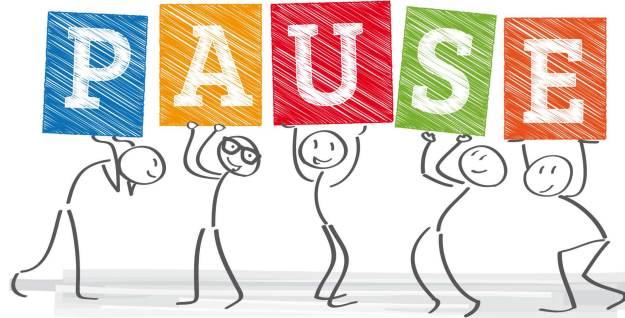
Marika Dobos (IDFG)
marika.dobos@idfg.idaho.gov

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rwscranton@bpa.gov

Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov



Rotary Screw Trap (RST) Data Collection



Purpose: A comprehensive resource for Columbia River Basin rotary screw trap specific information from multiple regional systems and sources.

Current Milestone: working to develop the dashboard as a tool for connecting facility data, location info, contact info for management entity, etc.

Ideas & Planned Updates

- More advanced filtering: by year, etc.
- Obfuscate sensitive location info
 - Remove lat/long from data view
- Include trap purpose: LCM, tagging, etc.
- Work with FMWG & PNAMP to have biologists QC CRB data
 - Once dashboard is out of development stage

Task Leads:

Kasey Bliesner (ODFW)
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Mari Williams (PSMFC)
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Megan Griffiths (PSMFC)
mgriffiths@psmfc.org

FMWG Terms and Definitions

Mari Williams and Jen Bayer





Update Terms and Definitions Used in CAP Data Standards

Purpose: This task will focus on review and update of terms and definitions in StreamNet Data Standards that support CAP data (CAX HLI DES and HCAX DES) and StreamNet Fish Monitoring Trends DES to effectively convey the terms' intent and provide consistency between DESs.

Why:

Very high priority identified at 2023 CAP Workshop

Will increase confidence in CAP data

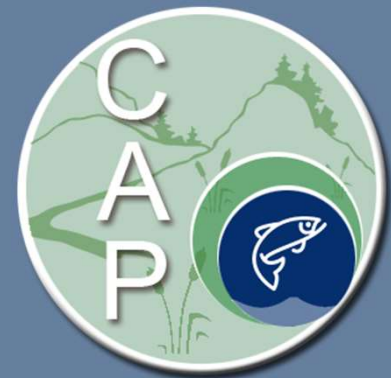
Will enable linking CAP controlled vocabularies to other datasets within PSMFC and externally

Task Leads:

Jen Bayer (USGS/PNAMP)
jbayer@usgs.gov

Mari Williams (PSMFC)
mwilliams@psmfc.org

Mike Banach (PSMFC)
mbanach@psmfc.org





Update Terms & Definitions in CAP Data Standards

Timeline

- **COMPLETED:**
 - extract terms and definitions from CAP and SN DESs
 - review and flag – limited this to CA DESs **765 terms**, with **197 items flagged**.
 - **November – January 2025:** small group reviewed flagged items
 - Kasey Bliesner, Bekki Waskovich, Elizabeth Davis, Evan Brown, Phil Sandstrom, Dan Auerbach, Jen Bayer, Mike Banach, Mari Williams
 - 12 already resolved
 - 19 reviewed and unchanged
 - 7 crosswalk with other programs (PTAGIS and RMIS)
 - 134 recommended for adoption, with recommended changes
 - 25 recommended for further review by SME and DES teams
- **January 30, 2025** DDTs for Natural and Hatchery DESs convened





Update Terms & Definitions in CAP Data Standards

Next

- **Format DDT items recommended for adoption for broad review in MS Forms and disperse to FMWG and CAP**
- **Update StreamNet data services to align with these controlled vocabulary updates**
- **March:** updates will be incorporated into workshops at WA/BC AFS in Vancouver, BC (Salmon Ontology and HCAX data access)

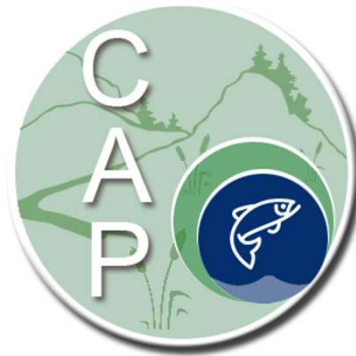


Hatchery Data Workshop at WA/BC AFS

Mari Williams & Jen Bayer



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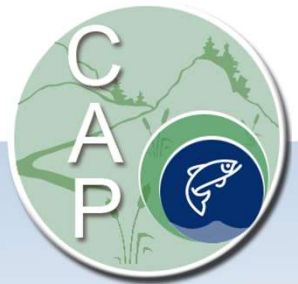


StreamNet

Hatchery Data Workshop

In this workshop, you will:

- Understand development process and elements of data standards (the technical specifications that describe how data should be stored or exchanged for consistent collection and interoperability across different systems and users) using CAP's Hatchery Coordinated Assessment (HCA)
- Learn about data availability, with emphasis on hatchery data
- Learn how to access data via CAX (and potentially other systems)
- Understand the metadata included in CAX, which provides the necessary information to support proper data citation and attribution
- Provide input to inform future data systems



Ontology Workshop at WA/BC AFS

Jen Bayer and Mari Williams



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StreamNet

Ontology Workshop

By the end of the workshop, attendees will be able to:

- Understand the key principles and methodologies of knowledge modeling.
- Learn how to build and apply an ontology to structure data for cross-organizational integration.
- Identify and address challenges in integrating heterogeneous data from different systems and organizations.
- Gain hands-on experience in creating and refining ontologies that support data interoperability and semantic clarity.
- Develop strategies for ensuring the scalability and sustainability of data models in collaborative environments.





Stretch Break
back at

StreamNet Technical Team Updates

Megan Griffiths



Tech Team Updates

Example Group of Associated TrendIDs

19967 Trends

« Previous 1 2 3 4 5 6 7 8 9 10 Next » 10 25 100 Download Clear Selections

Trend ID	Data Category	Stream	River Mile	Species	Run	Production	Life Stage	Count Type	Years
53619	Freshwater Harvest	Butte Creek	from RM 0 to RM 35.57	Coho salmon	N/A	Unknown	Adult	Freshwater sport	1978-1994
180642	Hatchery Returns	Fork Creek	from RM 0.33 to RM 0.33	Steelhead	Winter	Hatchery	Adults and jacks	Total live fish	1995-2008
90569	Fish Counts	Humbug Creek	from RM 0 to RM 11.34	Steelhead	Winter	Natural	Adults and half-pounders	Index of live fish	1968-1969
100313	Hatchery	Snake	from	Steelhead	Summer	Hatchery	Adults	Total live	2003-2009

Jan 30th, 2025 - Tech Team DDT Meeting:

- Reviewed Trend Group Query Display, Terms & Definitions

StreamNet DES:

- Current DES 2024.1 - effective Feb 1, 2024
- No planned updates for StreamNet DES currently



Queries Link to Trend Groups

Trend Detail

[Back to FMD Search](#)[Download](#)

Freshwater Harvest | Trend ID: 53619 | Compiler: ODI

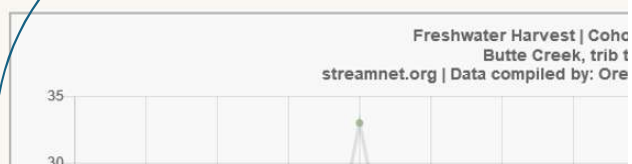
Species: Coho salmon Run: N/A Subrun

Stream: Butte Creek, tributary to Pudding River River Mile: from RM 0 to RM 35.57

Count Type: Freshwater Production: Unknown Life Stage: Sport

Trend Comment: Catch estimates are by run year unless otherwise specified. Run years in Oregon... [\(expand\)](#)

THIS DATA SET IS RELATED TO OTHERS. [CLICK HERE TO SEE THESE ASSOCIATIONS.](#)



NOSA Detail

[Back to HLI Search](#)[Download](#)

Natural Origin Spawner Abundance (NOSA)

Population Name: South Fork Clearwater River Upper Mainstem - Chinook salmon

Waterbody: South Fork Clearwater River Run: Spring/summer

Contact Agency: Nez Perce Tribe (See download for contact info)

Pop fit: Same Best Value: Yes Method Number: 2

Protocol/Method: PIT tag Based Escapement Estimation Above Lower Granite Dam v1.0

Method URL: <https://www.monitoringresources.org/Document/Protocol/Details/2187>

THIS DATA SET IS RELATED TO OTHERS. [CLICK HERE TO SEE THESE ASSOCIATIONS.](#)



Hatchery Releases Detail

Hatchery Releases

(HCAX query system to be created)

THIS DATA SET IS RELATED TO OTHERS. [CLICK HERE TO SEE THESE ASSOCIATIONS.](#)

Data Set 53619 Is Associated With These Larger Groups

Data Set Group #	Name	Description	Comments	Download
50000	John Day River Lower Mainstem Tributaries Summer Steelhead Radd Counts	A collection of common trends of the same species, run, category, count type, sampling method, and calculation method for the John Day River Lower Mainstem summer steelhead population.	No comment.	



Tech Team Updates

Trend Group Query Display:

Decided Action: Revisit after time to think about implementation

- Think about how to signify TrendID time period
 - Some data no longer collected
- Keep in mind, data alignment across Natural Coordinated Assessments (NCA) and Hatchery (HCA)
 - Example: brood vs spawn year



2025 QA/QC Tool Launch

Greg Wilke



2025 Coordinated Assessments QA/QC

Streamnet Records Review

Data Category: Nosa | 98 Agency: All Complete: All Independent Review: All QA Round: All

98 Records

« Previous 1 2 3 4 5 10 25 100 Clear Selections

Year	Data Category	PopID	Population Name	Agency	Reviewed By	Review Time	Complete	Independent Review Complete
2016	Nosa	1023	Lochsa and Selway River summer Steelhead	IDFG			No	No
2022	Nosa	230	Big Creek - fall Chinook salmon	ODFW			No	No
1967	Nosa	511	Okanogan River summer/fall Chinook salmon	CCT			No	No
1994	Nosa	17	Big Creek - spring/summer Chinook salmon	IDFG	EMB	1020	Yes	No
2010	Nosa	238	Hood River - fall Chinook salmon	ODFW	Jake Chambers	20	Yes	No
2021	Nosa	223	Sandy River - spring Chinook salmon	ODFW	Megan Griffiths	15	Yes	Yes

- Larger Record Set – 80 Records/Agency (CCT smaller set)
- 80 Records for Secondary Review (?)
- Populations & Data Categories expanded
- Target Completion – Fall 2025 & Fall Steering Committee Report
- Focus on Primary Problem Areas: URLs, Data Display

[Streamnet Data Records Review - x](#)

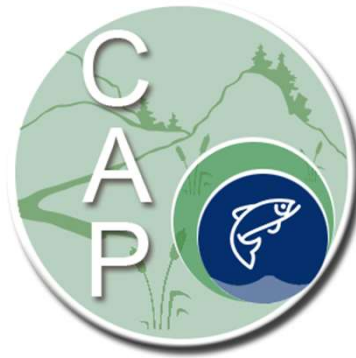


Coordinated Assessments Updates

Megan Griffiths



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StreamNet

CAP DES Updates

Coordinated Assessments Hatchery Data Exchange Standards

Version 2025????

Approval Date: not yet determined

Effective Date: not yet determined

Draft 1/27/2025

Prepared by:
Pacific States Marine Fisheries Commission
StreamNet Project

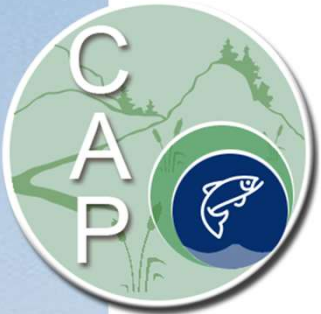
for

Pacific Northwest Coordinated Assessments Hatchery Data Exchange Standards Development Team

Last DES Updates:

- **NCA DES 2024.05.17** - effective 7/22/24
- **HCA DES 2023.06.14** - effective 6/14/2023

Tech Team/DDT meeting held 1/30/25 to discuss updates.



CAP DES Updates

HCA DES Approved Updates:

- Removal of HatcheryProgramID verbiage
- Adopted compound logical key
- Return Definition updated
- Terms & Definitions FMWG minor changes as approved by DDT

Implementation Schedule:

- **Final HCA DES Version** – to be sent out around end of February
 - **Tentatively effective 5/1/2025**

NCA DES Updates:

- **No new updates of note**
- Reminder of TimeSeriesID additions
- Mike has been looking into Natural Keys for all tables



CAP Fish HLI DataStatus Table

Field Name	Field Description	Data Type	Codes/Conventions for DataStatus Table	
ID (unique)	Value used by computer to identify a record.	GUID	<p>This value is a globally unique identifier (GUID) exactly 36 characters long.</p> <ul style="list-style-type: none"> <i>When submitting a new record, you may include this value or leave it blank.</i> If you include this value, then it will be used by the central system. If you leave it blank then a value will be created for you, and it will be sent back to your system where it must be incorporated. <i>When updating or deleting records this value must be included.</i> 	
TimeSeriesID	StreamNet-defined code for the time series represented by this record. Assigned by data compilers or regional data assemblers as appropriate.	Integer	<p>TimeSeriesID is used in several tables in both the CA natural and hatchery origin DES documents. A TimeSeriesID cannot be used more than once in this table.</p> <p>For records in this table: The TimeSeriesID must be a value used in one of the DES tables.</p>	See the TimeSeriesID field in the Coordinated Assessments data exchange standard tables for the current list of codes by agency.
DataStatus	The reason a TimeSeriesID is no longer report or is not currently reported.	Integer	<p>Enter the Data Status here. Select from the following: <i>[Do not include comments in brackets.]</i></p> <ul style="list-style-type: none"> Funding for monitoring ceased <i>[this includes natural population estimates or hatchery programs]</i> Agency decision to discontinue data collection <i>[there can be several reasons, describe in the Comments field]</i> Agency decision to not report due to data sensitivity Production of these fish stopped at the hatchery Hatchery program was eliminated Facility closed or removed 	<ul style="list-style-type: none"> Inadequate sampling to produce estimates <i>[there can be several reasons, describe in the Comments field]</i> Data is collected, but does not fit the DES Run of fish extinct, data collection ceased Data collection is intermittent The agency does not monitor the population
Comments	Any issues, problems, questions about this record that were not already captured in other places.	Text ∞	<p>If possible, it is useful to briefly provide information about the DataStatus.</p> <p><i>A comment is required if DataStatus = Agency decision to discontinue data collection or Inadequate sampling to produce estimates.</i></p>	
UpdDate	The date and time that the record was created or updated.	Datetime	This can be the time a record was created, or the last time it was edited. This field tells the end user when the record was last modified at the source organization.	

DataStatus Table going into both Natural DES & Hatchery DES

- Reviewed in TT/DDT joint session
- Approved for inclusion in HCA DES new version



CAP DES Adaptive Management

Proposed Modifications:

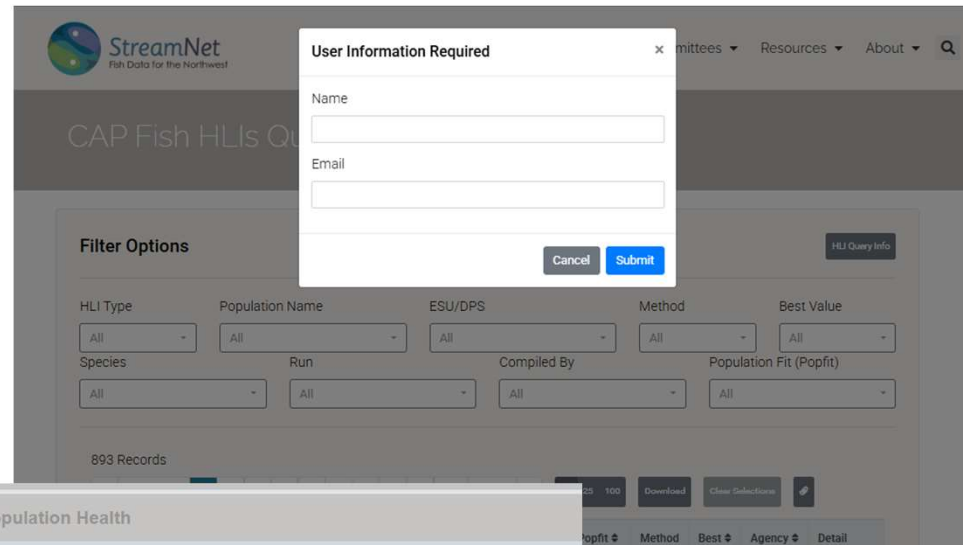
- ReleaseStrategy Discussion
- HatcheryPrograms Table Discussion
 - Remove HatcheryFacilityName and StockID
 - Stock Composition Indicator
 - HatcheryXHatcheryStock -> PopulationXHatcheryStock
- Spawning and Returns Proposal



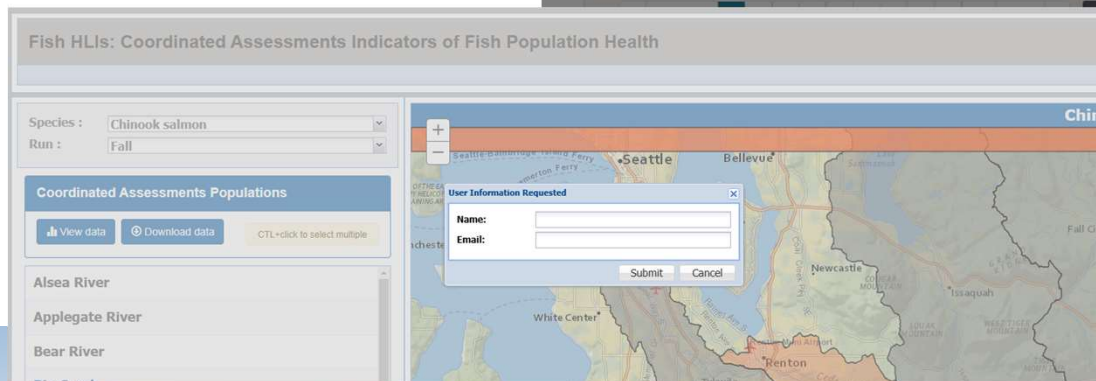
Data Download User Info

Data User Info Request Popup:

- Added to download buttons
- Popup cookie lasts for 60 days
 - Per Data Use Agreement
- Potential for excess data user info



The screenshot shows the StreamNet website interface for CAP Fish HLIs. A modal popup titled "User Information Required" is displayed over the main content. The popup contains two text input fields labeled "Name" and "Email", and two buttons at the bottom: "Cancel" and "Submit". The background interface includes a header with the StreamNet logo and navigation links, a "Filter Options" section with dropdown menus for HLI Type, Population Name, ESU/DPS, Method, and Best Value, and a table of results showing 893 records.

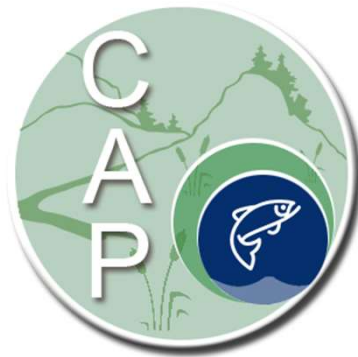


The screenshot shows the "Fish HLIs: Coordinated Assessments Indicators of Fish Population Health" interface. On the left, there are dropdown menus for "Species" (Chinook salmon) and "Run" (Fall), and a list of river populations including Alsea River, Applegate River, Bear River, and Big Creek. A "Download data" button is visible. A modal popup titled "User Information Requested" is displayed over a map of the Pacific Northwest, showing cities like Seattle, Bellevue, and Renton. The popup contains two text input fields labeled "Name" and "Email", and two buttons at the bottom: "Submit" and "Cancel".



HCAX Web QUERY!!!

Greg Wilke



Hatchery HLI Query

Filter View

Filter Options

Hatchery HLI Query Info

Hatchery HLI Type

Stock Name

Species

Run

Compiled By

Hatchery Program

Hatchery Name

HatcheryReturns

All

All

All

All

All

All

17 Records

« Previous 1 2 Next »

10 25 100

Download

Clear Selections

HLI	ID	Span	Yrs	Species	Run	Hatchery	Agency	Detail
HatcheryReturns	596000	2010-2022	13	Chum salmon	Fall	Big Creek Hatchery	ODFW	596000 details
HatcheryReturns	596003	1991-2023	33	Steelhead	Winter	Clackamas Hatchery	ODFW	596003 details
HatcheryReturns	596008	1984-2023	40	Chinook salmon	Spring	Marion Forks Hatchery	ODFW	596008 details
HatcheryReturns	596009	1984-2023	40	Chinook salmon	Spring	McKenzie Hatchery	ODFW	596009 details
HatcheryReturns	596020	2002-2023	22	Chinook salmon	Spring	Sandy Hatchery	ODFW	596020 details
HatcheryReturns	596025	1984-2023	40	Chinook salmon	Spring	Clackamas Hatchery	ODFW	596025 details
HatcheryReturns	596026	1984-2023	40	Chinook salmon	Spring	South Santiam Hatchery	ODFW	596026 details
HatcheryReturns	596079	1984-2023	40	Coho salmon	N/A	Sandy Hatchery	ODFW	596079 details
HatcheryReturns	596089	1984-2023	40	Chinook salmon	Spring	Willamette Hatchery	ODFW	596089 details
HatcheryReturns	596091	1999-2023	25	Steelhead	Winter	Sandy Hatchery	ODFW	596091 details

Hatchery HLI Query

Detail View

◀ Back to HLI Search

Download

Hatchery Returns

Stock Name: Clackamas River - winter Steelhead

Hatchery Facility: Clackamas Hatchery

Run: Winter

Contact Agency: Oregon Department of Fish and Wildlife (See download for contact info)

TimeSeriesID: 596003

Protocol/Method: Hatchery and Genetic Management Plan (HGMP) - Clackamas River Hatchery Winter Steelhead Program

Method URL: <https://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLName=42024.xml>

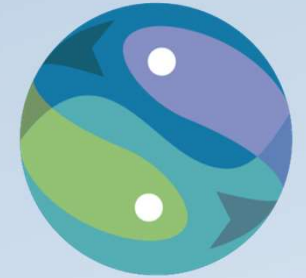
Esri Canada, Esri, HERE, Garmin, USGS, NGA, ... Powered by Esri

Return Year	Program	Operator	Total Return	Last Updated
2023	Clackamas River Winter Steelhead Program	Oregon Department of Fish and Wildlife	439	2024/04/04 02:48:29
2023	North Santiam River Spring Chinook Salmon Program	Oregon Department of Fish and Wildlife	3917	2024/04/04 02:48:28
2023	McKenzie River Spring Chinook Salmon Program	Oregon Department of Fish and Wildlife	723	2024/04/04 02:48:28
2023	Sandy River Spring Chinook Salmon Program	Oregon Department of Fish and Wildlife	2047	2024/04/04 02:48:29
2023	Clackamas River Spring Chinook Salmon Program	Oregon Department of Fish and Wildlife	2192	2024/04/04 02:48:29
2023	South Santiam River Spring Chinook Salmon Program	Oregon Department of Fish and Wildlife	5698	2024/04/04 02:48:30
2023	Sandy River Coho Salmon Program	Oregon Department of Fish and Wildlife	4573	2024/04/04 02:48:29

TBD CBRI OR CBC



StreamNet Steering Committee Meeting



February 19-20, 2025
Day 2

Pacific States Marine Fisheries Commission
205 SE Spokane Street, Suite 100
Portland, OR 97202

Microsoft Teams meeting: [link](#)
Meeting ID: 259 486 566 16
Passcode: nX9Th9Td

Or call in (audio only)
[+1 207-387-0436,,127380574#](#)

Agenda

(times are approximate, PACIFIC TIME ZONE)

DAY 1 February 19

TIME (Approximate)	AGENDA ITEM
1:00 pm PACIFIC TIME ZONE (2:00 pm MST)	Welcome and introductions (Nancy Leonard and Mari Williams) - Room and MS Teams - Reminder to review Committees and provide staffing updates as needed
1:20	SPOTLIGHT Fishing Regulations Database project update (Megan G)
2:05	StreamNet 2yr budget and SOW Updates (Nancy)
2:15	Fish Monitoring Working Group Updates (Meg Dethloff)
2:30	FMWG Terms and Definitions task group updates (Mari and Jen)
2:45	HCAX Data Workshop at WA/BC AFS (Mari and Jen)
2:55	Ontology Workshop at WA/BC AFS (Jen and Mari)
3:05 pm	Break
3:15	StreamNet Tech Team Updates (Megan)
3:25	QA/QC Tool 2025 Launch (Greg)
3:40	CAP Updates (Megan)
4:00	HCAX Tabular Query Development (Greg)
4:15	TBD
4:45 pm	Adjourn

DAY 2 February 20, 2025

TIME (Approximate)	AGENDA ITEM
9:00 AM PACIFIC TIME ZONE (10:00 AM MST)	Welcome (Nancy/Mari)
9:05	Annual Report to BPA (Nancy/Mari)
9:50	Northwest Power Conservation Council Amendment Updates (Kris Homel)
10:20 pm	Break
10:30	CA Strategic Plan Development (Mari/Jen/Nancy)
11:05	CRITFC CBFW Library Updates (Tami Wilkerson)
11:15	PSMFC GIS Update (Van Hare)
11:30	TBD
12:00 pm	Lunch
1:00 pm	Welcome back
1:05	SPOTLIGHT BPA's CAX Data Status Tool Overview (Russell Scranton & Brian Maschoff)
1:50	ETIS 2025 Webinar Series Recap (Sam Cimino)
2:00	Next SN SC meeting - Location and dates
2:20	Break
3:30	Partner Updates - StreamNet Steering Committee members verbal updates (2-5min) - Please provide updates to Mari via email for inclusion in the notes
4:30	The End

Welcome and Introductions

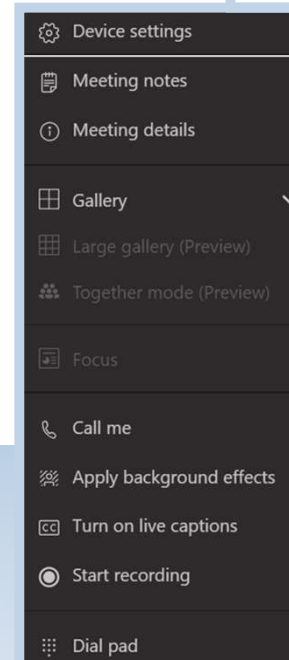
All participants,
please use the chat to introduce yourself
(name and affiliation)

Please leave web cameras on to facilitate discussion

Please mute yourself when not speaking.
Use *6 to mute phone audio.
Use the microphone icon on the control bar to mute computer audio.



Check device settings
if you are having
problems with
audio/video



StreamNet

www.streamnet.org

Welcome!

In the interest of fostering an open and welcoming environment, StreamNet commits to making participation in our activities a positive and valuable experience to all:

**Be
Respectful**

**Be
Accountable**

**Communicate
Effectively**

**Value
Differences**

Collaborate

StreamNet Annual Report to BPA

Mari Williams and Nancy Leonard



Annual Report to BPA

[SharePoint Folder](#)

[OneDrive File](#)

1988-108-04 EXP STREAMNET
Project # 1988-108-04

FY24 Annual Progress Report
Report covers work performed from: January 2024 – December 2024
Report Created: April, 2025

Prepared by

Nancy Leonard, Mari Williams, Mike Banach, Greg Wilke, and Van Hare (PSMFC),
John Arterburn (Colville Tribes) and George Batten (ESA. for Colville Tribes),
Denise Kelsey, Tami Wilkerson, Sheryn Olson (CRITFC),
Evan Brown and Angie Schmidt (IDFG),
Dawn Anderson (MFWP),
Cedric Cooney, Jon Bowers, Jake Chambers, Nadine Craft, Megan Griffiths, and Peter Robinson
(ODFW),
Jen Bayer (PNAMP),
Todd Gilmore (USFWS) and
Brodie Cox (WDFW).

Pacific States Marine Fisheries Commission
205 SE Spokane Street, Suite 100
Portland, OR 97202

Report covers work performed under BPA Contract # 78040 REL 60
Report was completed under BPA Contract # 78040 REL 60

"This report was funded by the Bonneville Power Administration (BPA), U.S. Department of Energy, as part of BPA's program to protect, mitigate, and enhance fish and wildlife affected by the development and operation of hydroelectric facilities on the Columbia River and its tributaries. The views in this report are the author's and do not necessarily represent the views of BPA."



Recommendation to the Executive Committee

VI. Discussion – Recommendations and Lessons Learned

- A. Recommendation for Supporting a Broader Group of Data Categories to Support Regional Information Need
- B. Recommendations to Secure Funding for Quality Data Exchange
- C. Recommendation to Enhance and Maintain Access to High Quality Data
- D. Recommendation to Establish StreamNet as System of Record for BPA/NPCC Program
- E. Recommendation to Adequately Support State and Tribal Data Management Personnel and Participation in StreamNet
- F. Recommendation to Explore Opportunities and Assess Process to Connect Regional Systems
- G. Recommendation Commit to Regular StreamNet and CAP Technical Team Meetings
- H. Lessons Learned about the Benefits of Streamlining Internal Data Submission for Direct Staff Data Submittal to CAP and StreamNet
- I. Lessons Learned about the Importance of Communicating QA/QC and Improving Access to Data Consumers
- J. Lessons Learned on Efficient Approach to Access Needed Expertise
- K. Lessons Learned about the Importance of Documentation for Data Integrity and Succession Planning



VI. A. Supporting a Broader Group of Data Categories to Support Regional Information Needs

- Support expanding data flow for resident and anadromous fish from agency/tribal data systems to StreamNet data systems that contribute to informing the NPCC 2020 Addendum (goals, objectives, and indicators); and BPA and USFWS bull trout and sturgeon needs. For instance, some bull trout and resident fish time-series data are submitted to StreamNet's Fish Monitoring Data (trends) system; this could be expanded to be comprehensive and better support BPA, NPCC and USFWS.
- Support participation, either by providing in-kind or BPA funding, **joint task groups** of StreamNet and the PNAMP Fish Monitoring Work Group (FMWG) to ensure proper **representation** by state and tribal natural resources experts to work on tasks that contribute to improving expanding data managed by StreamNet.
- Support implementation of the **Coordinated Assessments Partnership Strategic Plan** by strongly encouraging BPA, NPCC and USFWS to build on StreamNet/CAP successes for improving access to fish and related habitat data.
- Assist in securing short-term funding to support CAP co-leads to perform outreach with potential data providers outside of the Columbia River Basin to better support NOAA and USFWS. StreamNet has secured NOAA IJFA funding in recent years to support outreach by StreamNet and PNAMP (CAP co-leads).
- Confirm with StreamNet partners the status of new tasks, to ensure these are completed before deciding to add on new tasks. Work with the StreamNet technical committees to ensure that tasks are being completed.



VI. B. Recommendations to Secure Funding for Quality Data Exchange

- Assist in securing funding to support StreamNet and CAP task maintenance, data quality, automation of the entire data flow process including calculations, and new tasks to better support the reporting needs of BPA, NOAA, NPCC, and USFWS.
- Facilitate discussions among BPA, NPCC, NOAA, and USFWS on funding avenues that could be secured to address new tasks, and to reduce the budget shortfall associated with decline in the purchasing power of the budget (i.e., the level funded budget will effectively decline as costs increase).
- Encourage BPA to consider providing and/or increasing funding for Columbia River Basin data stewards, especially with Tribal partners.
- Encourage and support BPA and NPCC decisions to provide critical cost-of-living adjustments to all StreamNet partners, to facilitate meeting the needs of BPA and NPCC (while keeping up with inflation). The \$2,318,894 does not take ODFW portfolio funding adjustments into account.
- Continue discussions with NOAA about contributing to StreamNet annual budget to maintain current support for their data needs and explore further enhancement to better address their information needs for the PNW.
- Support efforts by StreamNet and PNAMP to secure alternative sources of funding to complement BPA funding such as EPA grants by providing letters of support and exploring synergies among federal agencies and multi-state compacts that consume StreamNet data.



VI. C. Recommendation to Enhance and Maintain Access to High Quality Data

- Support implementation of the CAP Fish HLIs StreamNet **Quality Assurance Quality Control Plan** for StreamNet funded partners by providing BPA funding for this task.
- Support participation, either by providing in-kind or BPA funding, by all data providers and data consumers in discussions to refine or develop new data categories and exchange standards in PNAMP FMWG/StreamNet task groups to address issues that require input from a broader group of experts including biologists, fisheries managers, and CBF&W librarian.



VI. D. Recommendation to Establish StreamNet as System of Record for BPA/NPCC Program

Encourage NPCC, in addition to BPA, to officially recognize PSMFC StreamNet GIS and the StreamNet database systems (Fish HLI and Fish Monitoring Data) as the System of Record for the Program. This would ensure that the underlying information informing BPA and NPCC assessments and reporting tools are based on the same information, thus reducing the potential for inconsistencies and confusion. This would also allow for a common set of information used among StreamNet, BPA, and NPCC GIS-based tools ensuring consistency in data display (e.g. hatchery facilities location and cross-walk of non-standardized names) across BPA, NPCC Program, as well as other partners.



VI. E. Recommendation to Adequately Support State and Tribal Data Management Personnel and Participation in StreamNet

- Encourage BPA and NPCC to consider providing and/or increasing funding for personnel supporting data management and exchange with StreamNet, especially with Tribal partners, including personnel fulfilling tasks related to data stewards, data coordinators, data analysts, data specialists, GIS technician, software developers, API software programmer/analyst, database administrators, data managers, and project analysts. This funding could be managed through the StreamNet project to facilitate coordination and engagement of all data providers submitting to the StreamNet data systems. This funding should complement, and not reduce, existing funding provided through individual projects and or through data management projects including the CRITFC ITMD (2008-507-00) project that partially supports data stewards, and the Intermountain Province / Pend Oreille Subbasin Data Management Project (2011-020-00).
- The Executive Committee should continue to encourage and invite other data providers, including CRITFC member tribes, NWIFC member tribes, SBT, NPT, and others to participate in and/or become members on both the Executive Committee and Steering Committee. Based on past discussions, funding may be required to secure the participation of tribes in StreamNet and CAP.
- Strengthen engagement and coordination among data stewards (e.g., database administrators, programmers, GIS experts) by leveraging existing teams and maintaining a regular meeting schedule.



VI. F. Recommendation to Explore Opportunities and Assess Process to Connect Regional Systems

- Encourage ongoing conversation with data providers to assess the feasibility of connecting records across systems and whether there are aspects of the data submittal process that can be improved/modified to facilitate submitting to these systems.
- Encourage assessing and understanding which data systems are being accessed by the same data consumers and whether it would be beneficial to facilitate data use by aligning overlapping fields and terms (e.g. fish population names)



VI. G. Recommendation Commit to Regular StreamNet and CAP Technical and DES Development Team Meetings

- The technical team should meet virtually on a quarterly basis, or as needed; to discuss project related technological improvements, updates to data systems, challenges and shared solutions, and improvements to data exchange standards and processes. The technical team audience for each meeting is dependent on the agenda topic(s)
- During 2025 and onwards, the technical committee should focus on updates to existing data exchange standards (DES) for CA HLIs (natural origin fish). There is currently a backlog of pending updates and edits to approve, including 1) update validation rules, implement changes in databases, and publish updated DES's, and 2) review and develop DES tables, schema, and database for Hatchery Origin HLIs.



VI. H. Lessons Learned about the Benefits of Streamlining Internal Data Submission for Direct Staff Data Submittal to CAP and StreamNet



VI. I. Lessons Learned about the Importance of Communicating QA/QC and Improving Access to Data Consumers



VI. J. Lessons Learned on Efficient Approach to Access Needed Expertise



VI. K. Lessons Learned about the Importance of Documentation for Data Integrity and Succession Planning



Annual Report to BPA

Due Date	Item
Dec 23, 2024	Document shared to SN SC members and external partners
Feb 20	SN SC meeting review of current timeline
March 5	Input from SN SC members on 1st draft
March 12	2nd draft report sent to SN SC members
March 25	Final input from SN SC member due
April 1	Final report submitted to BPA and sent to SN SC members



Stretch Break

back at

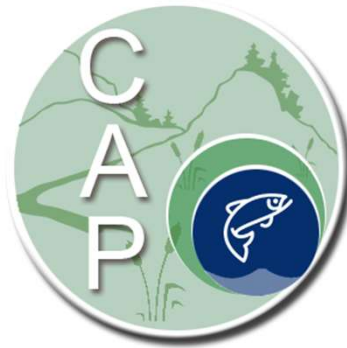


Coordinated Assessments Strategic Plan

Nancy Leonard, Jen Bayer, & Mari Williams



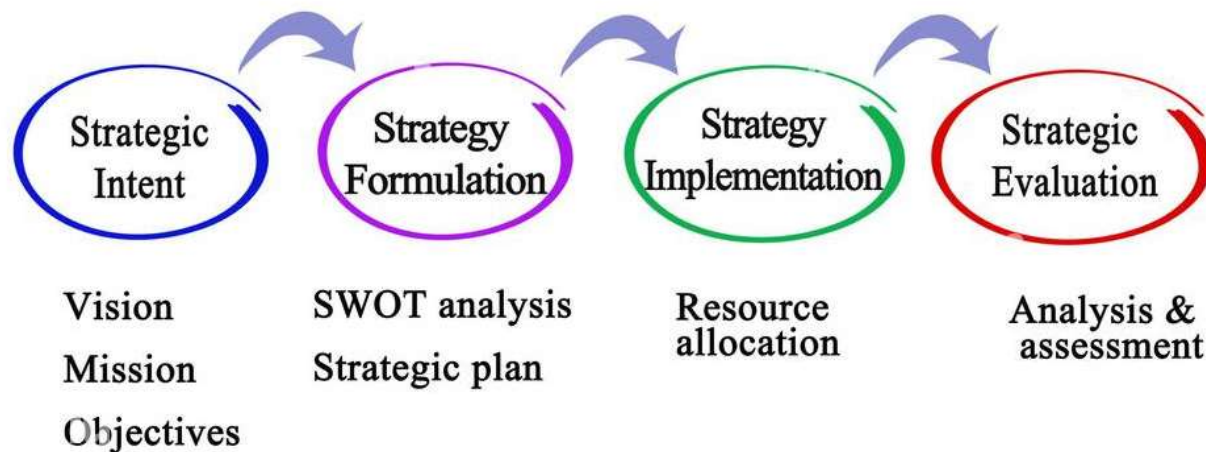
pacific northwest aquatic
monitoring partnership



StreamNet

Why a new format and title for CAP 5-year Plan

- The Plan content and how it has been used is more aligned with a strategic plan
- Propose reorganizing existing content to align with Strategic Plan elements



Approach for CAP Strategic Plan



Discussions and Suggestions for CAP Strategic Plan

Feedback on proposed approach?

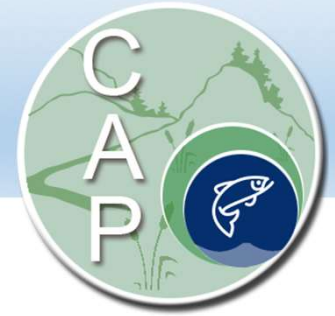
Existing items we should highlight more? Remove?

New items we should consider?

Suggestions on how do we address assessing progress?



Projects Identified at CAP 2023 Workshop



Outreach

- Landing page/website improvements
- Training videos
- Training materials (not videos)
- Communication materials
- Community development

Process Improvements

- DESs Accessibility
- Update Charter
- QAQC metadata review

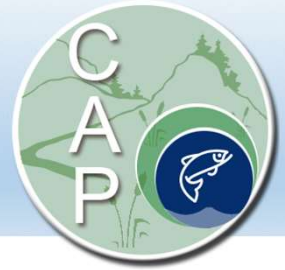
Content and Delivery

- Query improvement
- DES updates
- Data citation
- Capture data user information

Funding

- Data management and exchange capacity

Actions started or completed - Outreach



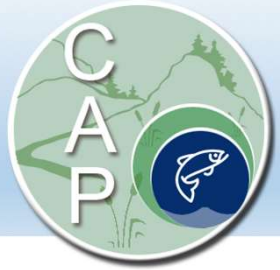
Identified

- Landing page development
- Training videos
 - for data submittal
 - for data download and use
- Training materials (not videos)
- Communication materials
- Community development
 - Listening sessions – working with PNAMP FMWG as needed
 - Record spotlight presentations
 - CAP workshops

Actions

- CAP focused presentations:
 - WA Salmon Recovery Conference 2023
 - AFS 2023 Grand Rapids
 - Oregon AFS 2024
 - World Fisheries Congress 2024
- Management/executive level presentations:
 - UCUT, Salish Sea collaborative, CBC, NPCC, CRBRP
- SNSC Spotlight presentations recorded and posted to PNAMP YouTube channel
- Bi-yearly CA DDT meetings
 - Natural CA DES vers 2024.6
 - Hatchery CA DES vers 2 pending!
- Webpage improvements including acronym translation
- FMWG and StreamNet engagement strengthened

Actions started or completed – Content and Delivery Improvements



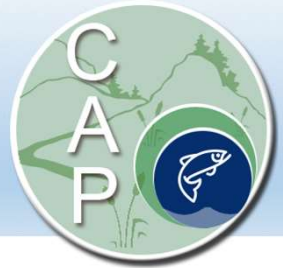
Identified

- Query improvements
 - Preview data prior to download
 - Date range filter option
- DES updates
 - Definition updates
 - Update data download fields
 - Reduce acronyms use
 - NA/Null values
- Data citation
 - Automation
 - Updated guidance document for publication
- Capture Data User information

Actions

- Hatchery CAX query development
- FMWG Terms and Definitions, including NullRecord
- Download user data capture
- CA DDT TimeSeriesID development to provide automated dataset citation development
- Data Sharing / Use Agreement updated through HCAX development

Actions started or completed – Process Improvements



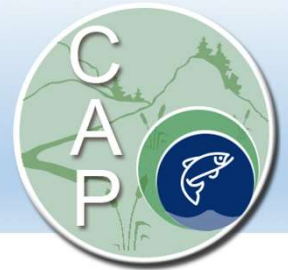
Identified

- Accessibility and collaborative improvement of DESs
 - Crosswalk definitions for consistency
 - Upgrade to collaborative and versioned management platform
- Update Charter
 - Document procedures for transfer of records responsibilities
- QAQC metadata review
 - Add contact information to yearly review

Actions

- Crosswalk performed as part of FMWG Terms and Definitions task
- Fish Management Unit Boundaries and Naming Conventions
- Transfer of trend groups
- Engaging in international discussions on salmon data mobilization

Actions started or completed – Funding



Identified

- Identifying limitations to current workload and capacity
- Capacity building funding options
- Shared folder for proposals without budget details submitted for language reuse

Actions

- EPA Exchange Network grants all around!
- IJFA funds
- Work plans formulated to manage or match staff resources

CRITFC Columbia Basin Fish and Wildlife Library Updates

Tami Wilkerson





Columbia Basin Fish and Wildlife Library: 2022-2025 Highlights

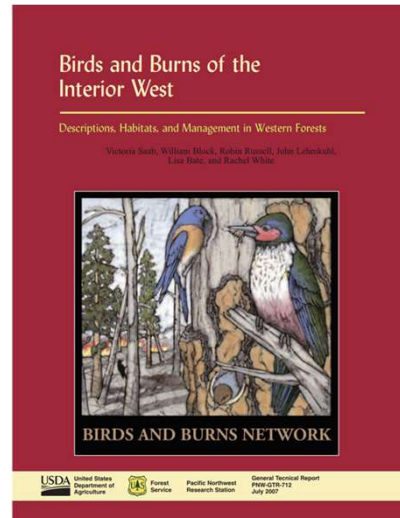
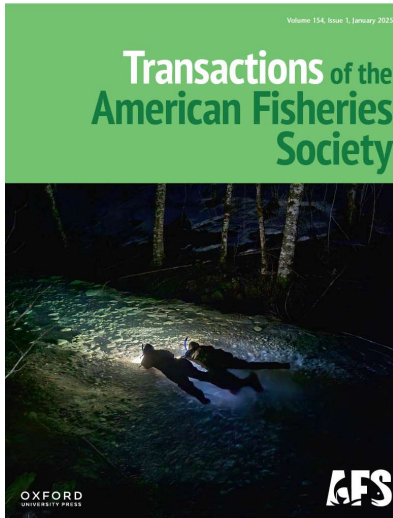
StreamNet steering committee
February 20, 2025

Background



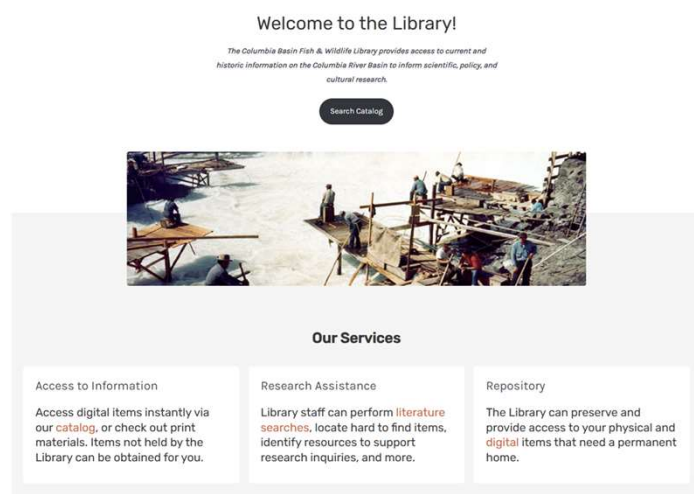
- Brief History
- Library Collection
 - 20,000+ print documents, 20,000+ digital documents
 - Focus on 'grey' literature
- Staff and Users

2022-2023 Highlights



- Storage Items
- Quarterly Article and Dataset Searches
- Access to Journal and Database Subscriptions
- David Marshall Collection

2024-2025 Highlights



- PSMFC Portland Library
- StreamNet Reference Table Updates
- Digital Collections
- Website Overhaul

NPCC Update and Amendment process

Kris Homel

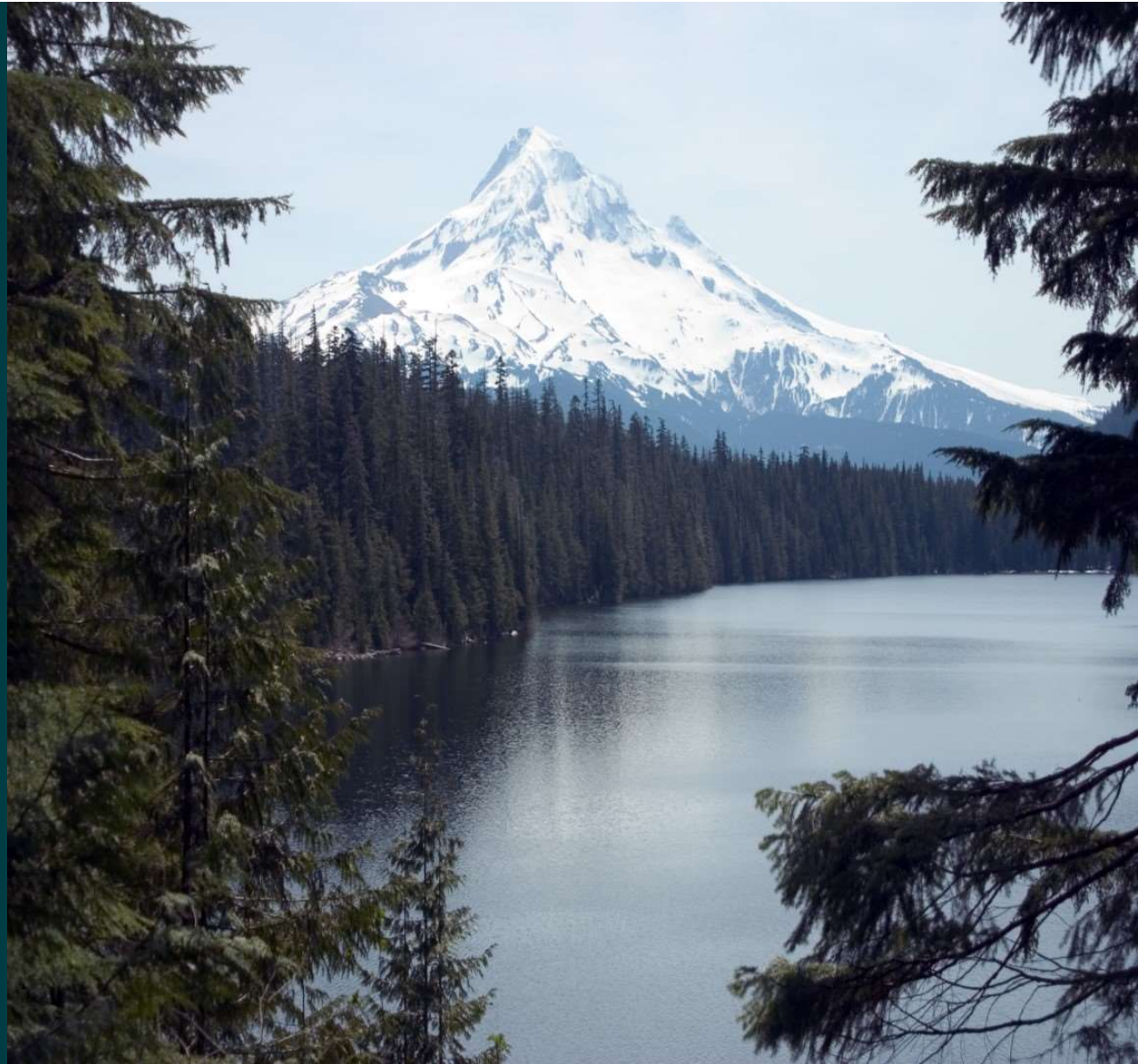


2025-2026 Amendment Process Update

StreamNet Steering Committee Meeting
Portland, Oregon
Kris Homel



Northwest **Power** and
Conservation Council



1. **Develop and periodically amend a Program to protect, mitigate and enhance the fish and wildlife** affected by the development and operation of the hydropower dams, including related spawning grounds and habitat of the Columbia River and its tributaries...
2. While doing so, also assure the region an **adequate, efficient, economical and reliable** power supply
3. Provide for **wide public participation** in developing the Fish and Wildlife Program and

Northwest Power Act



1. **Develop and periodically amend a Program to protect, mitigate and enhance the fish and wildlife** affected by the development and operation of the hydropower dams, including related spawning grounds and habitat of the Columbia River and its tributaries...
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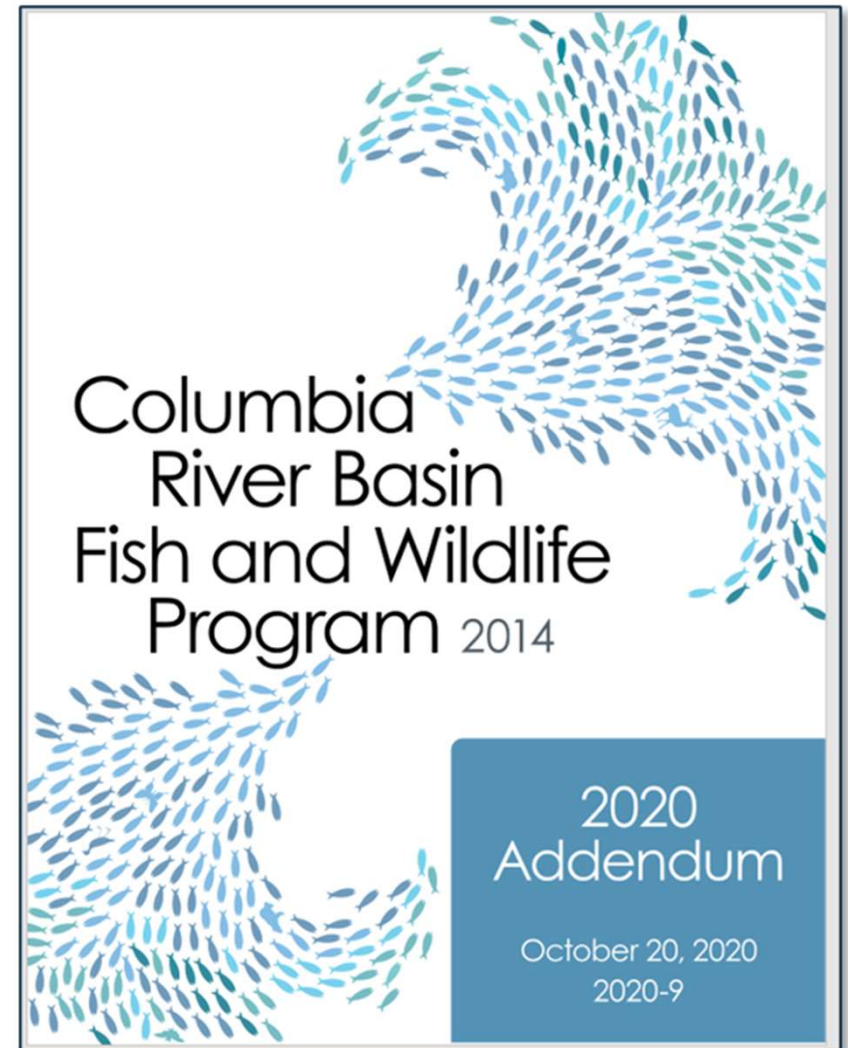
Northwest Power Act



The Fish and Wildlife Program includes:

- **Measures describing actions**
 - At the dams
 - Offsite (in mainstem/ tributaries/ estuary/ ocean)
 - Implemented by action agencies, Council, and through projects
- **Measures are organized by strategy**
 - 23 Program strategies
- **Goals and objectives**
 - 5 goals, 37 objectives

Protection and mitigation for all Fish and Wildlife affected by the hydrosystem – not just listed species

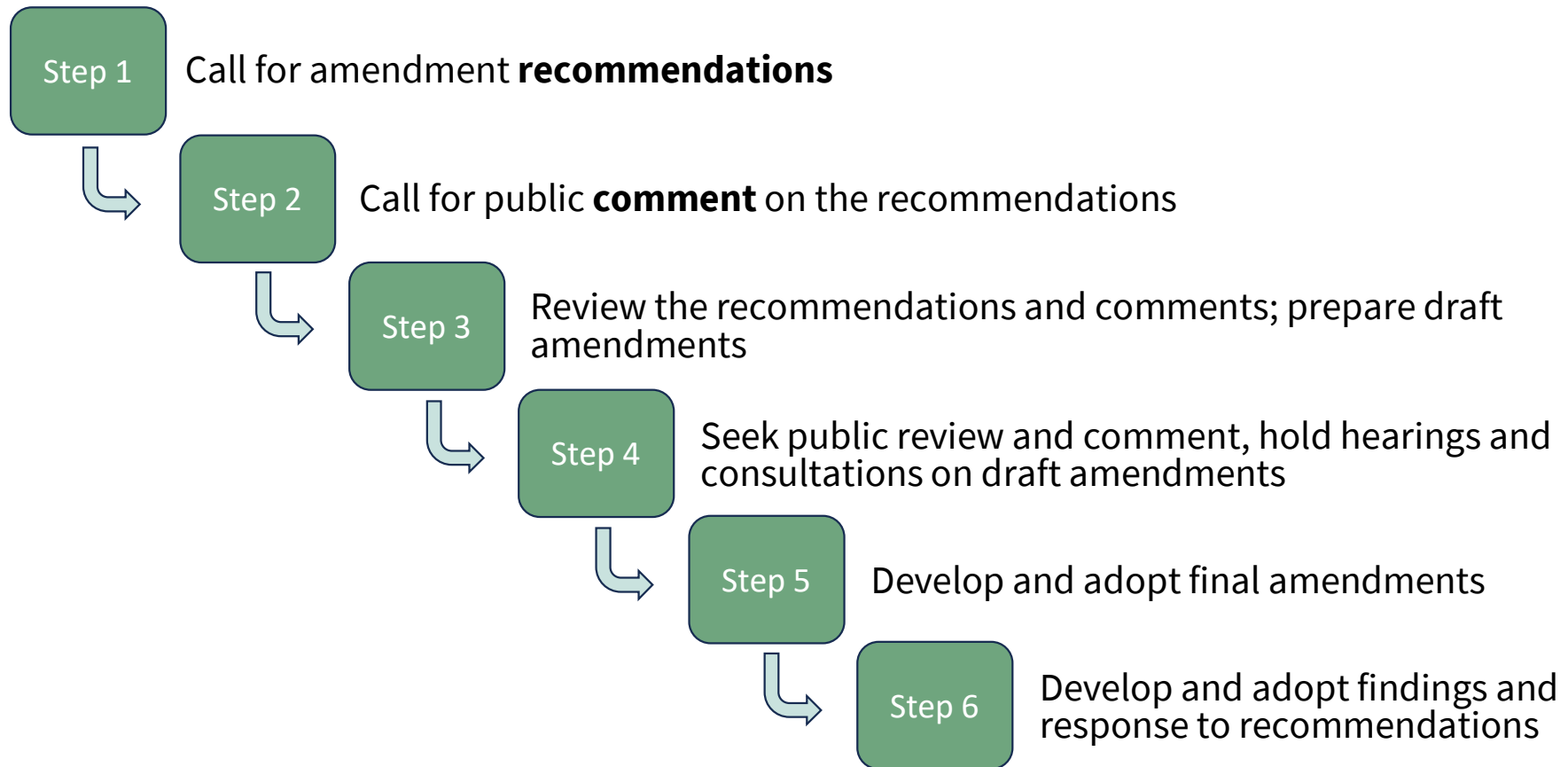


Northwest Power Act: Program amendment process



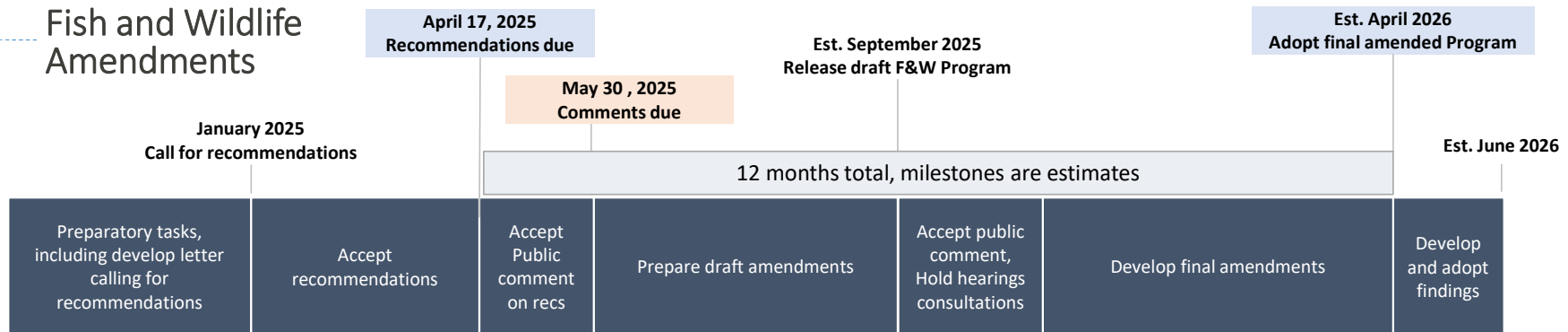
- Program amendment process is tightly scripted, step-by-step, beginning with a call to others for **recommendations**
- Process is heavily dependent on input from others, beginning with **recommendations**, especially from the state and federal fish and wildlife agencies and region's Indian tribes.
- **Recommendations**, related information, comments on recommendations and draft amendments form the bulk of the **administrative record** for Council's decisions on the program

Overview of Fish and Wildlife Program Amendment steps

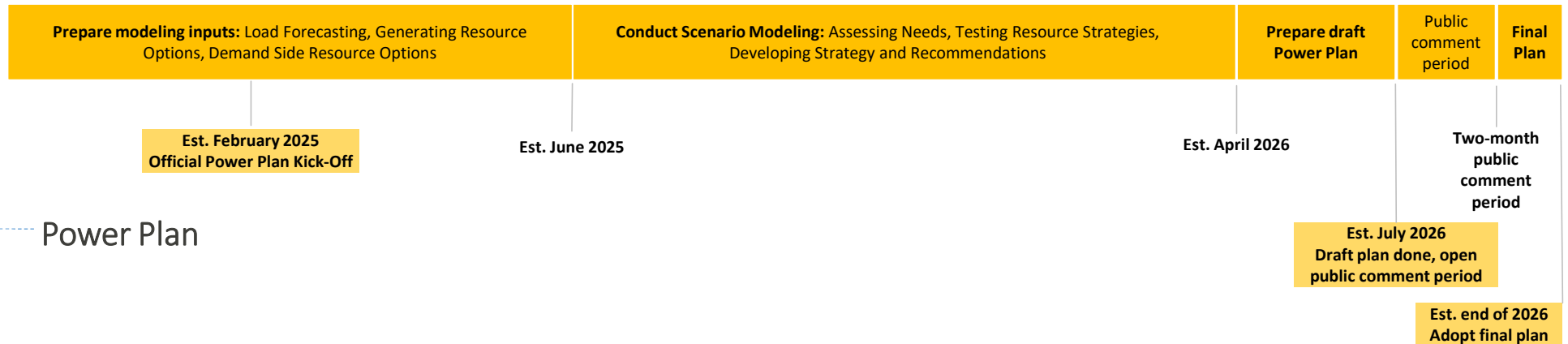


DRAFT - SUBJECT TO CHANGE

Fish and Wildlife Amendments



Power Plan



Upcoming important dates (planned)

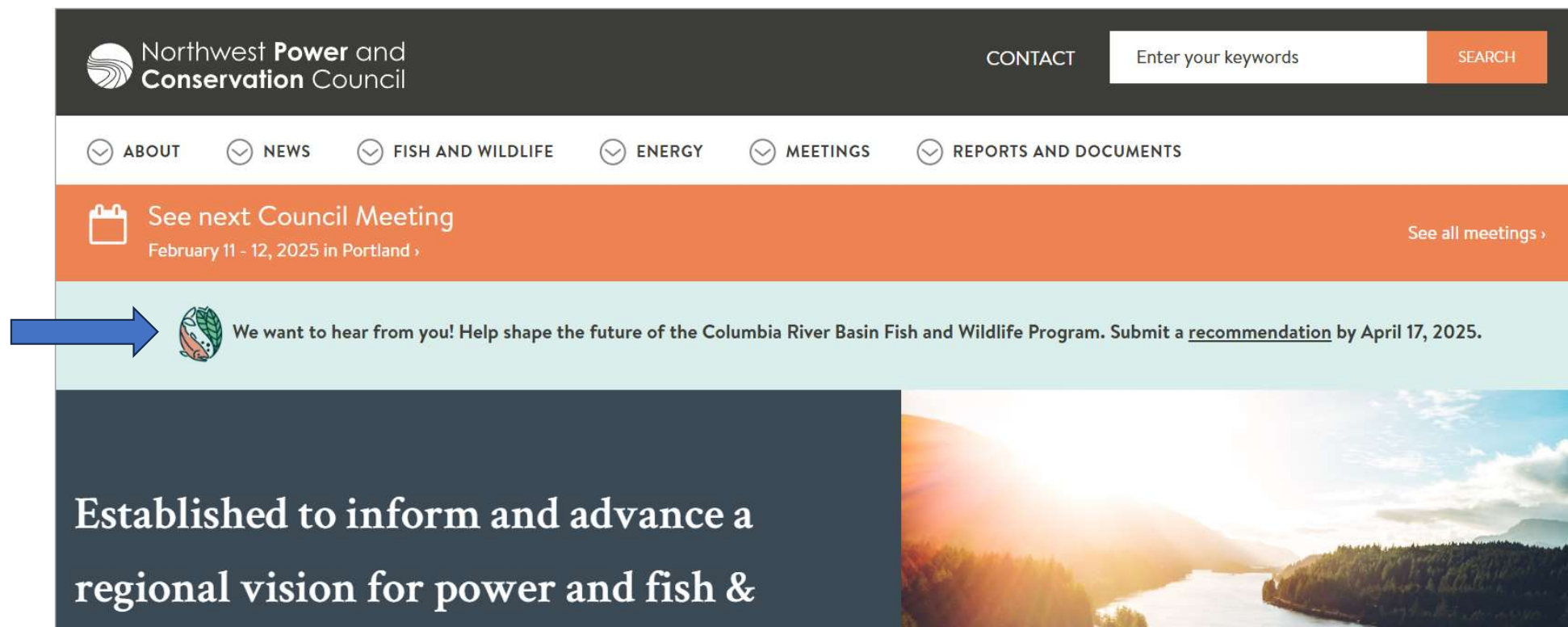
- **April 17, 2025** – Close of **recommendation** period
- **April 18, 2025** – Open public comment on the recommendations
- **May 30, 2025** – Close of comment period



**Columbia River
Basin Fish and
Wildlife Program**

Review amendment web page: how to submit a recommendation

Submit a recommendation:
Council home page (nwcouncil.org)




The screenshot shows the Northwest Power and Conservation Council website. The header includes the council's logo and name, a 'CONTACT' link, and a search bar. A navigation menu lists 'ABOUT', 'NEWS', 'FISH AND WILDLIFE', 'ENERGY', 'MEETINGS', and 'REPORTS AND DOCUMENTS'. Below the menu, an orange banner announces the next council meeting in February 2025. A light blue banner below that, highlighted by a blue arrow, invites users to submit a recommendation by April 17, 2025, to help shape the future of the Columbia River Basin Fish and Wildlife Program. The bottom of the page features a dark blue section with text about the council's mission and a scenic image of a river valley.


Northwest **Power** and
Conservation Council

CONTACT


Enter your keywords **SEARCH**

ABOUT NEWS FISH AND WILDLIFE ENERGY MEETINGS REPORTS AND DOCUMENTS

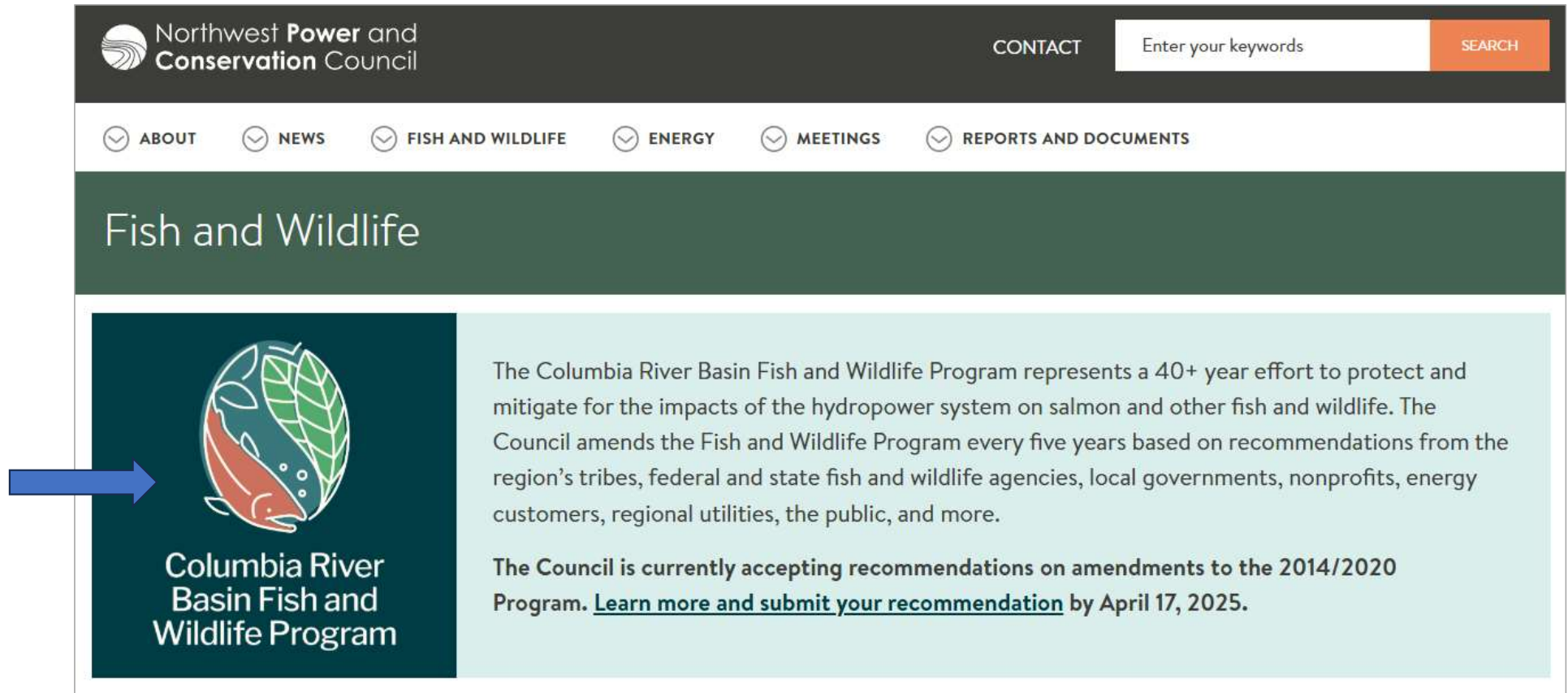
 **See next Council Meeting**
February 11 - 12, 2025 in Portland › [See all meetings ›](#)

 We want to hear from you! Help shape the future of the Columbia River Basin Fish and Wildlife Program. Submit a [recommendation](#) by April 17, 2025.

Established to inform and advance a
regional vision for power and fish &



Submit a recommendation:
F&W home page (nwcouncil.org/fish-and-wildlife)



The screenshot shows the Northwest Power and Conservation Council website. The header includes the council's logo and name, a 'CONTACT' link, and a search bar. The navigation menu features links for 'ABOUT', 'NEWS', 'FISH AND WILDLIFE', 'ENERGY', 'MEETINGS', and 'REPORTS AND DOCUMENTS'. The 'Fish and Wildlife' section is highlighted with a dark green background. Below this, a dark teal box contains the 'Columbia River Basin Fish and Wildlife Program' logo, which depicts a salmon and a leaf. A blue arrow points to this logo. To the right of the logo, text describes the program's 40+ year history and its focus on mitigating hydropower impacts on salmon and wildlife. It also states that the council is currently accepting recommendations for amendments to the 2014/2020 program, with a deadline of April 17, 2025, and provides a link to learn more and submit a recommendation.


Northwest Power and Conservation Council

CONTACT

Enter your keywords SEARCH

ABOUT NEWS FISH AND WILDLIFE ENERGY MEETINGS REPORTS AND DOCUMENTS

Fish and Wildlife




Columbia River Basin Fish and Wildlife Program

The Columbia River Basin Fish and Wildlife Program represents a 40+ year effort to protect and mitigate for the impacts of the hydropower system on salmon and other fish and wildlife. The Council amends the Fish and Wildlife Program every five years based on recommendations from the region's tribes, federal and state fish and wildlife agencies, local governments, nonprofits, energy customers, regional utilities, the public, and more.

The Council is currently accepting recommendations on amendments to the 2014/2020 Program. [Learn more and submit your recommendation](#) by April 17, 2025.

Submit a recommendation: Amendments page



Columbia River Basin Fish and Wildlife Program

The Council invites recommendations for amendments to its Fish and Wildlife Program.

About the amendment process

The Council amends its Columbia River Basin Fish and Wildlife Program every five years based largely on recommendations from the federal and state fish and wildlife agencies and the region's Indian tribes. Other federal and state agencies, the Bonneville utility customers and other regional utilities, other river users, local governments, and the general public may also submit program amendment recommendations that the Council must consider.

The current version of the Program is the [2014 Program](#) with a [2020 Addendum](#), plus more than 50 separate [subbasin plans](#).

Read the Council's full [letter to the region](#) for more background and topics to consider.

Important dates

- **January 17:** Solicitation for recommendations (read the Council's full [letter to the region](#))
- **April 17:** Close of recommendation period, open comment period

Make a recommendation

Recommendations for Program amendments are being accepted through **April 17, 2025**. If specific sections are being commented on, please reference those sections by name, page number or URL. Recommendations will be collected and published here soon after the deadline for submission.

More resources

2014 Program	Categorical Assessments:
2020 Addendum	Hydrosystem

[SUBMIT A RECOMMENDATION](#)

Easy to find at nwcouncil.org/amend which we've promoted in social media and Spotlight campaigns

Online form

nwcouncil.org/amend

Recommendations for Program amendments are being accepted through **April 17, 2025**. If specific sections are being commented on, please reference those sections by name, page number or URL. Recommendations will be collected and published at the Amendments home page soon after the deadline for submission.

You can provide a recommendation as formatted text below, or upload a Word, PDF or Zip file.

After submitting your recommendation, you'll get an email confirmation that your recommendation was received, then we'll follow up when all recommendations are made publicly available.

Quick links (open in new tab):

- [2025-26 F&W Program Amendments home page](#)
- [2014 Program](#)
- [2020 Addendum](#)

Recommendation (or upload a file below)



B *I*

The Council's program is a key step in restoring fish and wildlife populations, but here are some areas that we feel could further improve their success in some key watersheds.

body p

For longer text, upload a Word, PDF or Zip file (if multiple files needed).

No file chosen

Email confirmation to user

Your recommendation on the Council's Fish and Wildlife Program
was received  Inbox x

media@nwcouncil.org

Mon, Jan 27, 11:00 AM (2 hours ago)



to me ▼

Thank you for your recommendation, you will receive further emails as the amendments process continues. See <https://www.nwcouncil.org/amend> for more information.

Making
recommendations
available to public

Sample from the
[2018/2020](#) amendments
process when all
recommendations are
made public and
searchable by individual
or organization.

2018 recommendations and comments on the 2014 F&W Program

Recommendations were received through December 13, 2018.

Comments on recommendations were received through February 8, 2019.

Click any recommendation to view it and its associated comments.

[< Return to Amendments home page](#)

Filter for

STATE FISH AND WILDLIFE AGENCIES, OTHER STATE AND STATE-SUPPORTED AGENCIES

Idaho Department of Fish and Game

1 comment

Montana Fish, Wildlife & Parks

Oregon Department of Fish and Wildlife

2 comments

Washington Department of Fish and Wildlife

2 comments

Idaho Office of Species Conservation

Program amendment resources



Presented
Aug and
Sep 2022



SPIs
Goals
Objectives



Hydro: Oct 2023 + Sep 2024



Artificial Production: Oct 2024



Habitat restoration, protection,
wildlife, non-native and invasive
species, predator management:
Nov + Dec 2024



Goals and objectives report:
Dec 2024

Amendments page

- Retrospective of Program history
- Categorical Assessments of Program implementation by major category of work
- Status and Trends assessment of progress toward meeting Goals and Objectives
 - Each topic has (1) presentation, (2) video, and (3) documentation supporting presentation
- Program Tracker:
 - SPIs- updated Dec 2024
 - Goals and Objectives- in development- visuals from documentation

More resources

[2014 Program](#)
[2020 Addendum](#)
[Northwest Power Act](#)

Retrospective

- [Full version](#)
- [2 pager](#)
- August 2022 [presentation](#)
- September 2022 [presentation](#)

Goals and Objectives

- December 2024 [presentation](#) & [video](#)
- [Documentation](#)

Program Tracker
[ISAB 2024 F&W Program Review](#)

Categorical Assessments:
Hydrosystem

- September 2024 [presentation](#) & [video](#)
- October 2023 [presentation](#) & [video](#)
- [Documentation](#)

Artificial Production

- October 2024 [presentation](#) & [video](#)
- [Documentation](#)
- [Hatcheries and AP resources](#)

Habitat

- November 2024 [presentation](#) & [video](#)
- Documentation:
 - [Habitat protection](#)
 - [Wildlife mitigation](#)
 - [Non-native and invasive species](#)
 - [Predator management](#)
 - [Habitat restoration](#)

[Questions and considerations](#)

Questions and considerations

- Identified through Categorical Assessments/ Goals & Objectives

Columbia River Basin Fish and Wildlife Program: Questions and considerations from the Program categorical assessments

For additional context, please refer to nwcouncil.org/amend for recorded presentations, slides, and documentation.

Overarching Program considerations and questions

The Fish and Wildlife Program has grown considerably over 40 years, consisting of hundreds, if not thousands, of measures and objectives that range from general to very specific. These measures have led to the ongoing implementation of a substantial set of hydrosystem operations and offsite habitat and production mitigation actions.

Adaptive management has helped reshape the program over time by responding to new information, especially regarding hydrosystem operations. Emerging priorities and needs have also been partially integrated into the Program and its implementation in recent years.

More resources

[2014 Program](#)

[2020 Addendum](#)

[Northwest Power Act](#)

Retrospective

- [Full version](#)
- [2 pager](#)
- August 2022 [presentation](#)
- September 2022 [presentation](#)

Goals and Objectives

- December 2024 [presentation & video](#)
- [Documentation](#)

[Program Tracker](#)

[ISAB 2024 F&W Program Review](#)

Categorical Assessments:

Hydrosystem

- September 2024 [presentation & video](#)
- October 2023 [presentation & video](#)
- [Documentation](#)

Artificial Production

- October 2024 [presentation & video](#)
- [Documentation](#)
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Habitat

- November 2024 [presentation & video](#)
- Documentation:
 - [Habitat protection](#)
 - [Wildlife mitigation](#)
 - [Non-native and invasive species](#)
 - [Predator management](#)
 - [Habitat restoration](#)

[Questions and considerations](#)

Questions and considerations: general

1. As the basin changes and priorities evolve, are existing implementation approaches and priorities adaptable, and what type of adaptations are needed?
2. How could goals and objectives be responsive to future change in order to support a resilient program?
3. In cases of incomplete implementation of existing program measures, which measures should be given additional focus?
4. Does the Program need to be updated to create better alignment between current priorities and Program measures? What should be updated to accurately reflect current program implementation?
5. The basin-wide program measures often do not include specific implementation priorities, but rather draw on other plans such as water management plans, subbasin plans, biological opinions, etc. Is this sufficient or should the Program include more specific priorities for implementation?

Questions and considerations: ex Data Management

- **How should the Program address:**
- Habitat restoration:
 - improving the ability to track the program-level restoration implementation, considering the size and diversity of the habitat restoration effort, the limitations in data availability and data quality, and the challenges in data management?
- Wildlife mitigation:
 - the value of developing a database including all relevant information on parcels, land management plans, and continued maintenance of conservation value?
 - challenges with data management, data quality and quantity and ledger tracking for wildlife mitigation?

Month	Council meeting agenda items
February 11-12 (Portland)	<ul style="list-style-type: none"> • Program briefing <ul style="list-style-type: none"> – Strategies and issues – Part Three – Orientation to amendment webpage, process update
March 11-12 (Portland)	<ul style="list-style-type: none"> • Program briefing (topics flexible) <ul style="list-style-type: none"> – Adaptive management – Subbasin Plans
April 8-9 (Portland)	<ul style="list-style-type: none"> • Program briefing <ul style="list-style-type: none"> – Implementation provisions – Appendices • Recommendation period closes April 17* • Immediately release for public comment, 30-day public comment period • Begin reading recommendations
May 13-14 (Pasco)	<ul style="list-style-type: none"> • All day amendment work sessions <ul style="list-style-type: none"> *Will need multiple days: Extra work session likely May 28 (Webinar) • Comment period closes May 30*
June 10-11 (Missoula)	<ul style="list-style-type: none"> • All day amendment work sessions <ul style="list-style-type: none"> *Will need multiple days
July 15-16 (Portland)	<ul style="list-style-type: none"> • All day amendment work sessions <ul style="list-style-type: none"> *Will need multiple days, Extra work session likely July 29 (Webinar)

Questions?

Extra slides

Staff and Council Member tasks when recommendation period closes

- Post recommendations, request public comment on the *recommendations*.
- Share link with Council members: [read recommendations](#)
- Staff typically develops summaries of the *recommendations*, identifies issues.
- Hold work sessions to review the summaries, discuss the issues.
- Once *comments* are in, post and share with members. Incorporate into summaries and discuss issues, develop options for amendment.
- Draft amendments for amending the Program

Submit a recommendation: Council staff side

1. Staff review, organize, and prepare recommendations received.
2. When a new recommendation is received, staff assign (for internal organization):
 - a. Category (federal, state, tribe, environmental group, utility, individual, etc.)
 - b. One or more tags (generally match Program topics/themes)
 - c. Administrative notes (optional)
3. At the close of the recommendation period, an administrative record ID is assigned to each recommendation. All recommendations will then be published at nwcouncil.org/amend (next slide shows example from 2018).

PSMFC GIS Updates

Van Hare & Lilly Cohn



Update no QA/QC of West Coast Fish Facilities Dataset outside of the Columbia River Basin















QA/QC Process involved:

- 1) Compared existing PSMFC dataset with original StreamNet datasets and best available source agency data.
- 2) Confirmed locational accuracy and consistency of attribution where a facility occurs in multiple datasets. Deferred to source agency but compared locations to aerial imagery as well.
- 3) Compared and reconciled attributes, retaining [HatchID] and [DamID] while using Alternate name and Comment fields to describe edits or QA/QC questions.
- 4) Add facilities from source agency with support from partners (WDFW/CDFW)
- 5) Reconcile Facility Names based on feedback (IDFG/PTAGIS)
- 6) Coordinate to reconcile values in StreamNet datasets (Hatchery & Dams tables)
- 7) Update Facility URLs and Data Stream Links (beyond CRB)

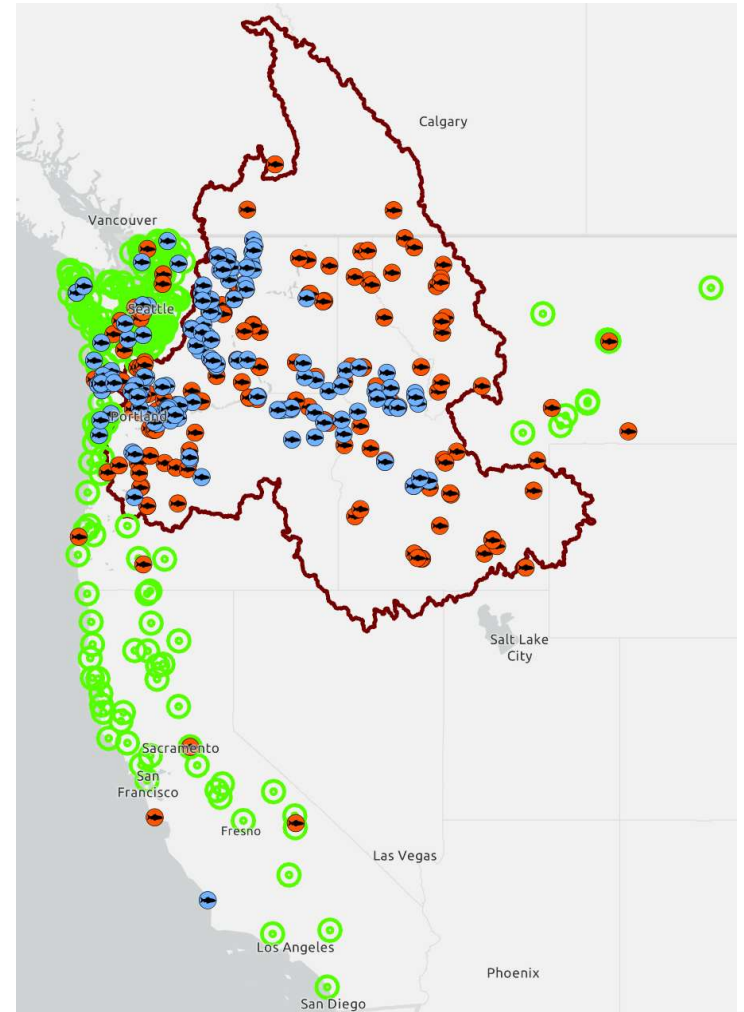


PSMFC 'Fish Facilities' dataset

Designed to promote consistent georeferencing and encourage data integration across projects & partnerships















FacSubType	
	hatchery
	acclimation and/or release site
	major dam
	dam
	other dam
	screw trap
	weir trap
	fish collection facility
	other trap
	hatchery ladder/trap
	fish ladder
	juvenile fish bypass
	instream remote detection site
	<all other values>

Hatchery facilities to be revealed...pending QA/QC

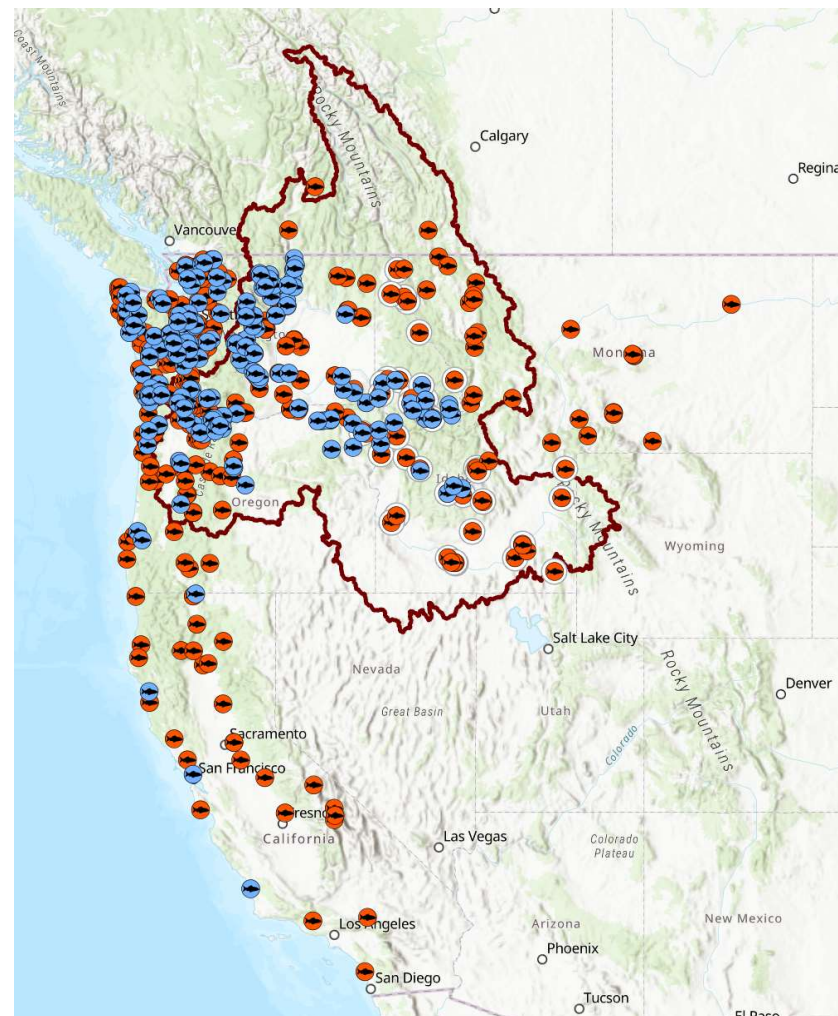


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Hatchery facilities to be revealed...pending QA/QC



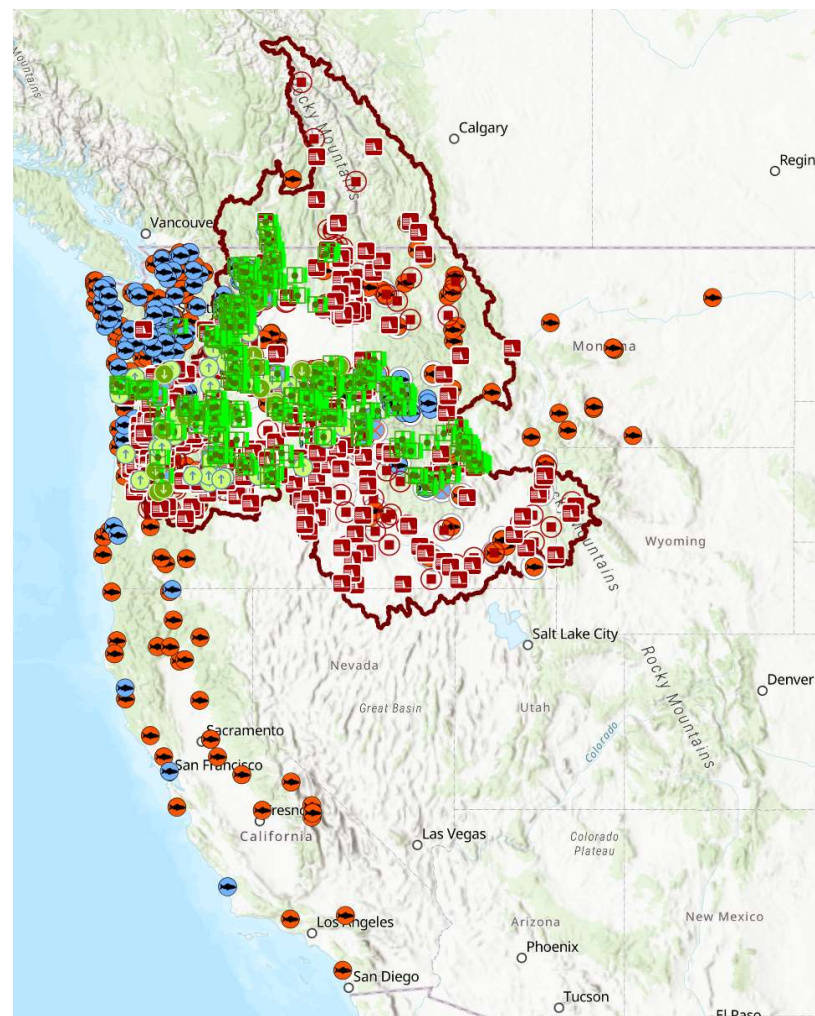
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	fish ladder
	juvenile fish bypass
	instream remote detection site
	<all other values>

3,355 Facilities in total



Coming soon...seeking review of a draft product this Spring

- Will reach out to SN Tech Team for review via a web app and map feature service
- Are we missing anything important?
- Names and subtypes accurately attributed?
- Any useful data stream links or facility URLs to add?
- Any other feedback?



Other GIS updates planned for this Spring

- Regional Fish Distribution update – welcoming submissions now
- Trend locations...as needed
- Continue to coordinate with SN Tech Team on other needs



Agenda

DAY 2 February 20, 2025	
TIME (Approximate)	AGENDA ITEM
9:00 AM PACIFIC TIME ZONE (10:00 AM MST)	Welcome (Nancy/Mari)
12:00 pm	Lunch
1:30 pm	Welcome back
1:35	Partner Updates <ul style="list-style-type: none"> - StreamNet Steering Committee members verbal updates (2-5min) - Please provide updates to Mari via email for inclusion in the notes
3:00	BREAK
3:10	SPOTLIGHT BPA's CAX Data Status Tool Overview (Russell Scranton & Brian Maschoff)
4:00	ETIS 2025 Webinar Series Recap (Sam Cimino)
4:10	Next SN SC meeting - Location and dates
4:30	The End

Lunch Break





Welcome Back



SPOTLIGHT CAP Data Status Tool

Russell Scranton & Brian Maschoff



ETIS 2025 Webinar Recap

Sam Cimino



Emerging Technologies Information Sessions 2025 Webinar Series

January 8 th	Modeling and Analysis
January 15 th	Artificial Intelligence and Machine Learning
January 22 nd	Data QA/QC
January 29 th	Genetics
February 5 th	Remote Sensing



- Each session had 3-4 presenters, and each presenter had 25-30 minutes plus Q/A
- Sessions were recorded and are now available on the PNAMP YouTube Channel
- Links to the YouTube Sessions are in the chat

Next SN SC Meeting

- Where and when?



- Location for Late 2025 (fall)
 - La Grande, Oregon?

- Potential Dates

Potential	Known Existing Conflict
August 3-9	Aug 11-15: AFS annual meeting
August 17-23	Sept 1-5: PSC TCDS meeting (Nancy Chair)
August 24-30	Sept 7-10: PSMFC annual meeting
Sept 15-17	Sept 18-21: PFMC meeting (attending subset of days)
Sept 22-26	Oct 13-17: RecFIN meeting
Sept 29-Oct 3	
Oct 6- 10	Oct 21-23: StreamNet ExCOM meeting



Member Updates and Announcements

Please email mwilliams@psmfc.org with any information you'd like included in the meeting notes

MFWP: Dawn Anderson

IDFG: Angie Schmidt, Evan Brown

CRITFC Library: Tami Wilkerson

CRITFC: Sheryn Olson and Denise Kelsey

USFWS: Todd Gilmore

Shoshone-Bannock Tribes: Kurt Tardy

ODFW: Jake Chambers

Colville Tribes: George Batten

WDFW: Brodie Cox

NOAA: Katie Barnas

NPCC: Kris Homel

BPA: Brady Allen, Russell Scranton

PNAMP: Meg Dethloff

PSMFC: **Nancy**, Lara, Greg, Mike, Mari, Megan, Van





Thanks for
joining us!