

# StreamNet Steering Committee Meeting

**February 19-20, 2025**

**In-person location**  
PSMFC

**Hybrid meeting**  
**with MS Teams access**

## **Meeting Material:**

[Five-Year Plan for Coordinated Assessments Partnership 2nd revision of the 2019 adopted version \(rev Nov 2022\)](#)

## Day 1

### Attendance: (name, affiliation)

**In Person:** Mike Banach (PSMFC), Jon Bowers (ODFW), Megan Griffiths (PSMFC), Nancy Leonard (PSMFC), Mari Williams (PSMFC), Meg Detloff (USGS), Jen Bayer (USGS), Tami Wilkerson (CRITFC), Brodie Cox (WDFW), Greg Wilke (PSMFC), Sheryn Olson (CRITFC)

**Online:** Angie Schmidt (IDFG), Evan Brown (IDFG), George Batten (ESA for CCT), Dawn Anderson (MFW&P), Van Hare (PSMFC), Kris Homel (NPCC), Jake Chambers (ODFW), Elizabeth Davis (IDFG), Michelle Groesbeck (WDFW), Kasey Bliesner (ODFW), Nadine Craft (ODFW), Lara Erikson (PSMFC), Todd Gilmore (USFWS), Bekki Waskovich (IDFG)

### Action Items:

#### All StreamNet SC members

- **Strategic Plan Feedback:** Review the current coordinated assessment plan and provide feedback on potential updates and improvements.
- **Review CA Data Status tool:** Password protected page at:  
<https://www.streamnet.org/data/hli/data-updates-cap/caxstatustool/> password: caxstatustool
  - send input to Mari/Brian/Russell

#### StreamNet funded partners

- **QA/QC Tool 2025 Launch:**
  - Tami Wilkerson offered to be secondary reviewer.
  - Target completion – Fall 2025 & Fall Steering Committee Report
- **BPA Annual Report**
  - Use sharepoint/onedrive to update assigned sections

- Due April 1<sup>st</sup> to CBFish

#### StreamNet BPA contract (Nancy/Mari)

- StreamNet 2yr budget and SOW Updates: Jake – Add Hatcheries Coordinated Assessment data development to go with the Natural Origin language in SOW
- BPA Annual Report:
  - Section VI.C. - Nancy – double check that the QAQC is in the strategic plan/pulled out of the SOW – note that we are continuing that. Make sure that HCA is in first bullet
  - Create more explicit metadata section
  - Evan suggests adding utilizing Monitoring Methods to the QAQC bullet
  - Section VI.D. “Recommendation to establish StreamNet as system of record for exchange with BPA NPCC Program”. “Recommendation to appropriately support data flow to StreamNet” – make this a separate recommendation.
  - Add a bullet around identifying and funding StreamNet & partner’s needs and the specifics of those needs

#### NW Power Council Addendum Recommendations (Nancy/Mari)

- Pull info from the SN BPA report to submit by April 17<sup>th</sup> to submit as SN SC

#### For Mari:

- Member Updates: IDGF - Add Evan to CAP Core Team, Liz and Bekki to the Tech and DDTs
- Schedule CA DDT meetings mid year
- CA Strategic Plan Development:
  - Schedule a meeting with Nancy, Jen, Neil after WA BC to start CAP 5yr plan reorganization
- StreamNet needs to update the URL on the website for CBFWL.
- GIS Update: Add fish distribution/extirpated areas discussion to next Tech Team meeting
- Next SN SC: Send doodle poll for dates before Oct 5th

#### For Greg/Mike:

- Develop implementation plan for Trend Groups query linkage
- Remind QA/QCers to complete before SN SC Fall – Greg will summarize and present at next SC.
- HCAX Tabular Query Development (Greg):
  - Goal to have link out for demo/test soon – Greg email out to reviewers
  - Mike asked users to review the information that is shown in the query to make sure that user info is captured as wanted

#### For Jen/PNAMP:

- Ontology Workshop: Will share a TeamsLink via SN SC email list if it is able to be hosted hybrid virtual attendance - Evan/Kasey/Sharron interested in virtual attendance
- CA Strategic Plan Development: CAP Core team will meet in April - Will send out a doodle for the April meeting

## Accomplishments:

Let's include this going forward to ease inclusion in the BPA AR and webpage highlights.

## Agenda

### Welcome and Introductions

- Mari led review of current membership – asked for agency updates on staff changes – noted that HCAX DDT is under development and asked for partner's member recommendations
  - IDGF: Add Elizabeth Davis to CAP DDT members

### SPOTLIGHT Fishing Regulations Database project update (Megan G)

**Pacific Coastline Fishing Regulations Database:** Greg Wilke and Megan Griffiths provided an update on the Pacific Coastline Fishing Regulations Database project, including progress on data entry, database development, and future plans for linking regulations to RMIS data. They are including temporary and emergency regulations. They are working with Ray Beamesderfer as SME and are using JSR/TAC reports, with the intention of providing users with the ability to link the regulation data to harvest datasets for evaluation and analysis.

- **Project Overview:** Greg Wilke and Megan Griffiths provided an overview of the Pacific Coastline Fishing Regulations Database project, which aims to compile fishing regulations for Oregon, Washington, and Alaska into a centralized database. Regulations are complex and often overlap in time and space and/or modified during seasons.
- **Data Entry Progress:** They discussed the progress made in data entry, including the completion of two pilot datasets (WA/OR ocean regulations and Columbia River regulations) and the development of a relational database schema to improve data entry efficiency.
- **Database Development:** The team has developed both the front-end and back-end of the database, including a data entry form and a query system. The database has been officially launched on PSMFC servers. They included a feedback mechanism for users to report incorrect information. Also working on metadata link from the query system.
- **Future Plans:** Future plans include linking the regulations database to RMIS data, mapping fishery areas, and exploring the inclusion of other species such as groundfish. They also plan to continue developing the connection to RMIS data and improve the database's scalability.

## StreamNet 2yr budget and SOW Updates (Nancy)

Jake – Add Hatcheries Coordinated Assessment data development to go with the Natural Origin language in SOW

**Budget Planning:** The team discussed the upcoming budget planning process for the next two-year agreement, including drafting the budget in March and aiming for a signed contract by September.

- **Budget Drafting:** The team plans to start drafting the budget in March for the next two-year agreement, covering the period from October 1, 2025, to September 30, 2027.
- **Contract Timeline:** The goal is to have the budget reviewed by June 1st, allowing for any necessary adjustments before aiming for a signed contract by September. They acknowledged potential delays due to staffing changes at Bonneville.
- **Indirect Policy Change:** The team discussed an upcoming change in the indirect policy, which will consolidate the indirect amounts into a single rate. This change is not expected to impact the overall budget significantly.

## Fish Monitoring Working Group Updates (Meg Dethloff)

**Fish Monitoring Work Group:** Jen Bayer provided updates on the Fish Monitoring Work Group tasks, including the Middle Fork John Day River IMW summary report, the pit tag array data webinar series, and the Rotary screw trap data collection dashboard.

- **IMW Summary Report:** Jen Bayer reported on the Middle Fork John Day River IMW summary report, which was well-received and is accessible on the PSMFC YouTube page.
- **Carrying capacity standards:** The task group is working on publishing a paper on methods review, hope to have it available for external review mid-2025.
- **PIT Tag Array Webinar:** The team is organizing a webinar series focused on PIT tag array data and related analysis, scheduled to start in April. The series will cover various tools and techniques for managing and analyzing PIT tag data. Will cover PTAGIS, Excel, GitHub, PITcleanr, DART, MR, StreamNet, PIThy, PitPro, and R for graphics and managing detection data.
- **Rotary Screw Trap Dashboard:** The development of a dashboard for Rotary screw trap data collection is currently on hold due to limited staff resources. The dashboard aims to compile specific information from multiple regional systems and sources.

## FMWG Terms and Definitions task group updates (Mari and Jen)

**Terms and Definitions Task Group:** Mari and Jen discussed the progress of the Fish Monitoring Work Group Task Group on CA terms and definitions, including the review process and the goal of achieving consistency across data exchange standards.

- **Review Process:** Mari and Jen outlined the review process for the terms and definitions task group, which involves compiling terms from the DES, flagging relevant terms, and conducting layered reviews with a small team of experts and then reviewed minor DES changes via survey and major DES changes via DDT meeting.
- **Survey and Feedback:** The team has sent out surveys to gather input from the Fish Monitoring Work Group and the CAP mailing list, receiving around 20 responses. The goal is to achieve consistency across data exchange standards.
- **Next Steps:** The next steps include incorporating feedback, developing another survey for items still in question, schedule DDT meetings for any further discussion needed on major DES changes, updating the (dev)DES throughout the process, and aligning the StreamNet data services with the approved changes. The team plans to present the updates at the upcoming WA/BC AFS workshop.

## HCAX Data Workshop at WA/BC AFS (Mari and Jen)

Mari and Jen announced the upcoming WA/BC AFS half day workshop in March, which will include sessions on hatchery data access, controlled vocabulary development, and data sharing agreements. CAP was asked by the WA/BC hatchery evaluation work group to do a workshop at WABC AFS for helping people access HCAX data that is now going into CAX

- **Workshop Sessions:** The WA/BC AFS workshop in March will feature sessions on hatchery data access, controlled vocabulary development, and data sharing agreements. The workshop aims to provide access information and gather input from participants.
- **Participant Engagement:** The workshop will offer opportunities for participants to provide feedback and engage in discussions on improving data access and sharing practices, agreements, and requirements. The team plans to present the new query system for hatchery data at the workshop.

## Ontology Workshop at WA/BC AFS (Jen and Mari)

Jen and Mari discussed the full day ontology workshop planned for the WA/BC AFS conference, focusing on integrating data across systems and engaging international participants. Co-leads from Canada DFO and NCEAS's DataOne.

- **Workshop Focus:** The ontology workshop at the WA/BC AFS conference will focus on integrating data across systems and engaging international participants. The goal is to develop a knowledge graph for salmon data and improve data interoperability.

- **Hybrid Access:** The team is exploring the possibility of offering hybrid access to the workshop to accommodate participants who cannot attend in person. This will allow for broader engagement and collaboration.

### StreamNet Tech Team Updates (Megan)

No StreamNet DES updates in the works right now, not CA DES. Hatchery DES is coming out soon. Trend group implementation (presented at SN SC meeting in Sept 2024) into SN query systems will be done by Mike and Greg when time allows.

### QA/QC Tool 2025 Launch (Greg)

Greg Wilke provided an update on the QA/QC process for coordinated assessments records, including the selection of records for review and the need for a secondary reviewer. Tami volunteered to take on the secondary review role.

- **Record Selection:** Greg Wilke explained the process for selecting records for QA/QC review, which involves a semi-random selection to ensure a representative sample. Each agency reviews their own (80) records, and a secondary reviewer checks a subset of records. CCT reviews a smaller selection of records.
- **Secondary Reviewer:** The team discussed the need for a secondary reviewer to ensure the accuracy of the QA/QC process. Tami volunteered to take on the secondary review role, replacing the previous reviewer from Montana.
- Task to be completed in time for Greg to present results at next SN SC meeting

### CAP Updates (Megan)

Megan Griffiths provided updates on the coordinated assessments data exchange standards, including minor changes, the implementation schedule for the hatcheries DES, and the data download user information request.

- **Hatchery Data Submissions:** Representatives from Oregon, Washington, Idaho, and the Coleville Tribes provided updates on their hatchery data submissions to the coordinated assessments data exchange.

## HCAX Tabular Query Development (Greg)

Greg Wilke discussed the development of the hatchery HLI query, which will allow users to filter and download data related to hatchery high-level indicators. It will have the same user data collection as the NCA queries now have.

- Similar tabular query to the CAX data in development for HCAX
- Goal is to try and get this done by the end of the month/First of March so it can be demoed at WABC AFS, will send the link out for the SN SC and staff to test soon
- Similar process and query interface to others on StreamNet, but stock based rather than population.
- Will include a similar download user info request as others
- All hatchery HLIs so not population based, it is stock based – don't quite query the same
- Goal to have link out for demo/test soon
- Mike asked users to review the information that is shown in the query to make sure that user info is captured as wanted
- Dataset load completion and future update schedule
  - o Will likely be updated annually
  - o ODFW: have submitted a dozen or so hatchery programs for returns/brood/releases
    - Working on 2 to 3 more in LaGrande
    - All 2024 data has been submitted – no more until late 2026
    - East Region: ability to add data will be resource and staff dependent
  - o IDFG: Initially wanted to grab most current 5 years of data for hatchery returns/spawning
    - Were able to work with FINS and hatchery staff to also grab some historic steelhead/chinook data (about 2009-2013/14) will try and get those QCed and uploaded– looking to get sockeye for this range as well – will work backwards from here into historic data
    - planning on annual updates
  - o WDFW: All lower Columbia hatchery info back to 2010 has been submitted. Working on rest of state back to 2010 – hopefully submitted in next couple of weeks. Have not been able to get SAR data yet
    - Working to automate some of the new hatchery dataset compilation to help populate data moving forward **BRODIE PROMISED!!**
  - o Tribes: Some data was sent into Mike/Mari (check scope/tribes). Have been funding limited which has impacted submittal.
    - Sheryn shared links to tribal management systems and a contact for insights into the state of the data and who has what data available.

- <https://plan.critfc.org/2013/spirit-of-the-salmon-plan/institutional-recommendations/tribal-hatchery-management/>
- NPT and Shoshone-Bannock Tribes will be doing their own data.

## CA Strategic Plan Development (Mari/Jen/Nancy) (moved up from Day 2 – extra time)

**CA Strategic Plan Development:** The team discussed the development of a strategic plan for coordinated assessments, including the process for reformatting the current five-year plan and incorporating feedback from the CAP core team and steering committee.

- Mari reviewed the feedback and actions taken in response to the CAP workshop, including improvements in outreach, content delivery, process improvements, and funding efforts.
- Once CAP core team likes the draft- give it to the SN SC for review – by 2025 ExCom meeting members will hopefully be able discuss this – goal is to have first CAP strategic plan by end of 2025
- CAP Core team will meet in April (no date set yet) and revisit – email Mari ideas if you want to share ideas now
  - Will send out a doodle for the April meeting
  - Add Evan Brown to the Core Team
- See slides for identified/in progress/completed actions from CAP
  - Jake added that the [HILI Data Update page is now live](#) – asked for by data consumers in the workshop – gives context for when folks will provide/update data to CAX
    - DataStatus table as well

## Day 2

### Attendance: (name, affiliation)

**In Person:** Mike Banach (PSMFC), Jon Bowers (ODFW), Megan Griffiths (PSMFC), Nancy Leonard (PSMFC), Mari Williams (PSMFC), Meg Detloff (USGS), Jen Bayer (USGS), Tami Wilkerson (CRITFC), Brodie Cox (WDFW), Greg Wilke (PSMFC), Sheryn Olson (CRITFC), Kris Homel (NPCC), Russell Scranton (BPA)

**Online:** Angie Schmidt (IDFG), Evan Brown (IDFG), George Batten (ESA for CCT), Dawn Anderson (MFW&P), Van Hare (PSMFC), Jake Chambers (ODFW), Elizabeth Davis (IDFG), Michelle

Groesbeck (WDFW), Kasey Bliesner (ODFW), Nadine Craft (ODFW), Lara Erikson (PSMFC), Todd Gilmore (USFWS), Bekki Waskovich (IDFG), Brian Maschoff (Salmonetics for BPA)

## Annual Report to BPA (Nancy/Mari)

Accessible via SharePoint or OneDrive for external partners.

### **Title Page Formatting:**

- New formatting to match BPA's needs.

### **Recommendations:**

- Contributors asked to add dates to their recommendations for tracking purposes.
- No comments from the group on edits/concerns for sections above recommendations.
- Lessons learned from last year included.

### **Section VI.A:**

- Maintenance of ongoing work.
- Leveraging EPA water quality exchange connection options.
- Improving data access and coordination.
- Focus on updates to functionality and usability of the website.

### **Section VI.C:**

- QAQC should be in the SOW and in the strategic plan.
- Include HCA in the first bullet. It needs to be identified in tandem with NCA for a year or two to transition to the understanding that CA is NCA and HCA.
- Enhancing metadata and monitoring methods.

### **Section VI.D:**

- Developing polygon layers.
- Official recognition and better-established relationships.
- Explicitly listing HCAX with Fish HLI and FM Data.
- Core user groups: BPA, NPCC, NOAA, state/tribal info, and data systems.

### **Section VI.F:**

- Encouraging data system development.
- Improving metadata visibility online.
- Tying data systems together using CARE & FAIR data management principles.

### **Section VI.G:**

- SN TT/DDT meetings are twice a year or more as needed.
- Annual work plan for tech teams.
- Committees to meet before each SN SC to make recommendations.

**Lessons Learned:**

Efficient approaches to access and utilize needed expertise.  
Streamlining draft process with SharePoint OneDrive access.

**Key Points:**

Emphasis on improving data access and quality.  
Collaboration with various partners and leveraging existing resources.  
Focus on maintaining and enhancing current systems before adding new data categories.  
Encouraging transparency and structured planning for tech teams and committees.

## Northwest Power Conservation Council Amendment Updates (Kris Homel)

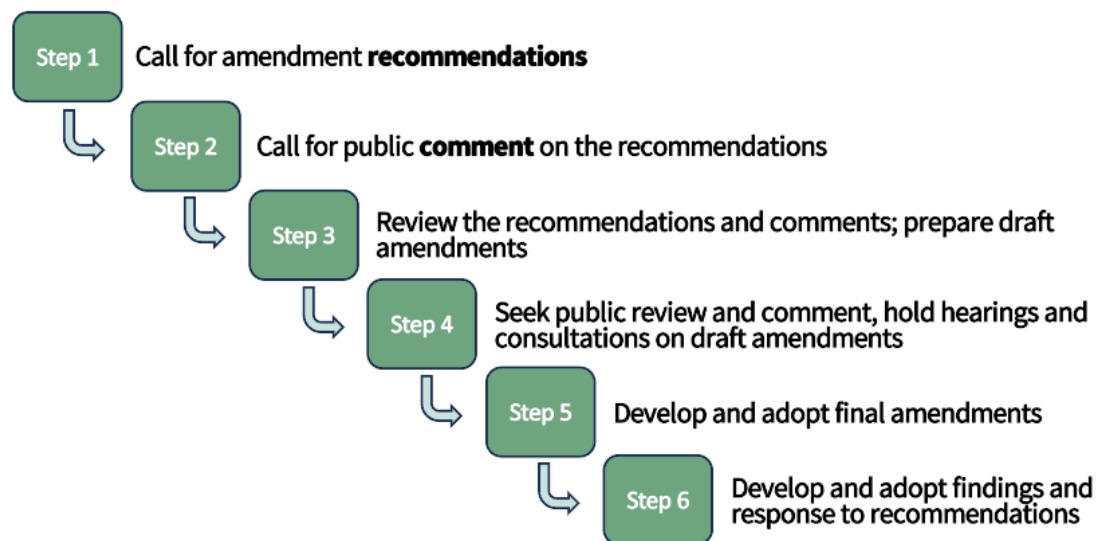
### NPCC Presentation

- **Council Responsibilities:** The Council has three main responsibilities: developing and amending a program to protect, mitigate, and enhance Fish and Wildlife affected by the hydro system; ensuring an adequate, efficient, economical, and reliable power supply; and providing for public participation in program development and power supply planning.
  - **Responsibilities Overview:** The Council's responsibilities include developing and periodically amending a program to protect, mitigate, and enhance Fish and Wildlife affected by the hydro system. This involves treating the spawning grounds and habitat of the Columbia River and its tributaries as a system. Additionally, the Council ensures the region has an adequate, efficient, economical, and reliable power supply. The third responsibility is to provide for wide public participation in developing the program and facilitating the orderly planning of the power supply.
  - **Fish and Wildlife Program:** The program to protect, mitigate, and enhance Fish and Wildlife includes measures that can be taken at the dam, such as operations or structural changes, and offsite actions in the main stem, tributaries, estuary, or ocean. These measures are implemented by action agencies, councils, and projects. The program aims to protect and mitigate all Fish and Wildlife, not just those listed under the ESA.
  - **Public Participation:** The Council emphasizes the importance of public participation in developing the program and planning the power supply. This includes accepting recommendations from state and federal Fish and Wildlife agencies, the region's Indian tribes, and the public. Public comments, hearings, and consultations are integral parts of the process to ensure a comprehensive and inclusive program.

**Program Amendment Process:** The Council's program amendment process is tightly scripted by the Power Act and involves a six-step process, starting with a call for recommendations from various agencies and the public, followed by public comments, draft amendments, public hearings, and final adoption of amendments.

- **Six-Step Process:** The amendment process begins with a call for recommendations from federal and state Fish and Wildlife agencies, tribes, and the public. This is followed by a 90-day period for receiving recommendations, after which the recommendations are put out for public comments for 30-45 days. The Council then reviews all recommendations and comments to prepare draft amendments. Public review and comments on the draft amendments are conducted through hearings and consultations. The final amendments are developed and adopted, followed by a legal review to

## Overview of Fish and Wildlife Program Amendment steps

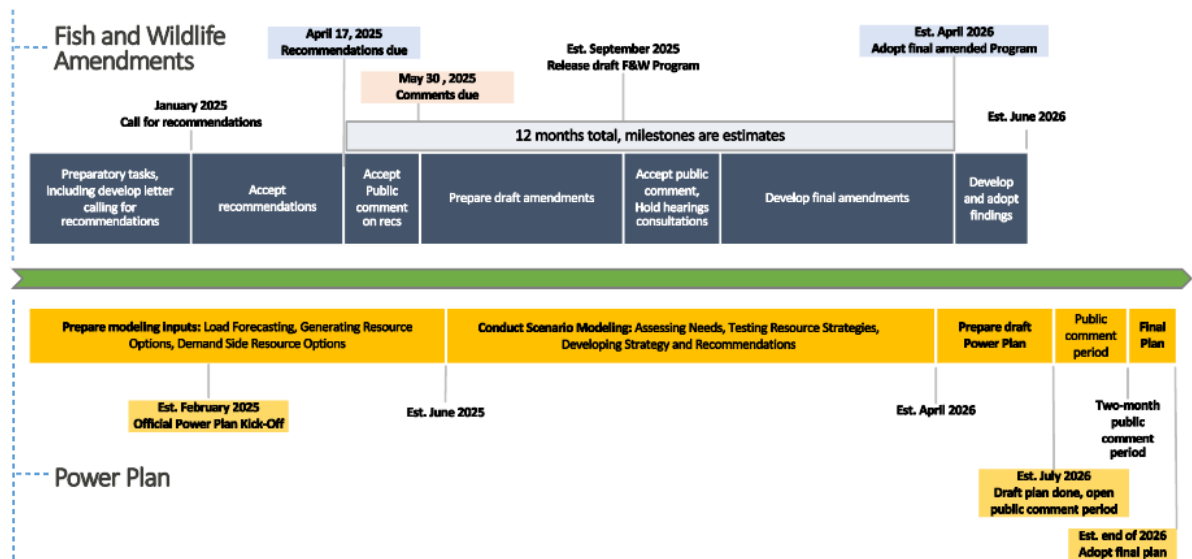


develop findings on each recommendation, explaining why it was included or not.

- **Timeline and Deadlines:** The timeline for the Fish and Wildlife Amendments is guided by the date when the next power plan needs to be adopted, which happens every five years. The Fish and Wildlife Program must be adopted before the power plan to ensure any modifications to dam operations for the benefit of fish are considered in the power plan. Key dates include January 17th for the call for recommendations, April 17th for the end of the recommendation period, and May 30th for the end of the public comment

period.

*DRAFT - SUBJECT TO CHANGE*



- **Public Involvement:** Public involvement is crucial throughout the amendment process. The Council conducts public hearings and consultations to gather input on the draft amendments. The public can submit recommendations and comments through the Council's website, and all recommendations are made available to the public for review. The Council's Public Affairs Division works to get the word out about the amendment process through social media campaigns, interviews, and other outreach efforts. The Council emphasized the importance of public participation in the amendment process, including public comments, hearings, and consultations, to ensure a comprehensive and inclusive program.
- **Recommendation Submission:** Participants were guided on how to submit recommendations through the Council's website, including accessing the recommendation page, submitting recommendations, and receiving email confirmations.

- **Meeting schedule:**

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

- **Program Goals and Objectives:** The Council's program includes five goals and 37 objectives aimed at protecting and mitigating all Fish and Wildlife, not just those listed under the ESA.

Questions/Discussion:

- Nancy – can we extract recommendation from the annual report and drop them in that website?
  - o Kris: yes!
- Nancy – did StreamNet ever submit to this and can we submit it as StreamNet?
  - o Kris will look for submittals from PSMFC era 2010
- Nancy – how in detailed do you want changes to the reports?
  - o Kris: Emphasize priorities and info gaps – track changes version level of detail not necessary.
- Nancy – is there any interest in StreamNet trying to provide a list of bullets that has been shares with the partners?
  - o Jen, Brodie, Mike all agree we should
  - o Kris – ideas for StreamNet recommendations for funding: MAFAC, data gaps, needs for data stewards
  - o Brodie: “You don't wanna look like a self-licking ice cream cone, you know”

## CRITFC CBFW Library Updates (Tami Wilkerson)

- **Digital Collections:** Tami discussed the library's digital collections, including the Cryptic video archive, general videos and photographs, and the David Robert Matheny photograph collection, which documents the Indian fishery at Celilo Falls.
- **Library Updates:** Tami provided an update on the library's recent accomplishments, including processing 840 bankers' boxes of items, implementing remote access to journal and database subscriptions, and overhauling the library's website.
  - **Processing Bankers' Boxes:** The library processed 840 bankers' boxes of items over two years, which included gray literature, reports, books, and journals. Many items were duplicates, but a significant number were added to the library's collection.
  - **Remote Access Implementation:** In 2023, the library implemented remote access to journal and database subscriptions for individuals in the Columbia Basin Fish and Wildlife program and tribal fisheries departments. This service has been popular, with 85 people signing up in the first six months.
  - **Website Overhaul:** The library's website was overhauled to have a more modern, clean look, making it easier to navigate. A new fisheries data resource page was added, providing links to various data resources from the Columbia River basin.

Jake: StreamNet needs to update the URL on the website for CBFWL and asked Tami to pass along any other good CBFW Library finds.

## PSMFC GIS Update (Van Hare)

**Fish Facilities Data Set:** Van provided an update on the West Coast Fish Facilities data set, which aims to break down silos across programs and ensure accurate and comprehensive data on fish facilities.

- **Data Set Overview:** The West Coast Fish Facilities data set aims to break down silos across programs and ensure accurate and comprehensive data on fish facilities. The data set includes various types of facilities, such as hatcheries, acclimation and release sites, and net pens.
- **Geographic Coverage:** The data set covers the Columbia River basin and has been expanded to dissolve the boundary, to include facilities in the Puget Sound, coastal areas of Oregon and Washington, and California. The QAQC process ensured spatial accuracy and reconciled facility names and attributes.

- **Collaboration and Updates:** The project involved collaboration with various agencies, including WDFW, California, and Idaho, to update and verify the data. The data set is now ready to be revealed and integrated into existing applications.
- **QAQC Process:** The QAQC process for the fish facilities data set involved comparing datasets from various agencies, ensuring spatial accuracy, and reconciling facility names and attributes.
- **Regional Fish Distribution Update:** PSMFC GIS staff will process regional fish distribution updates and encouraged submissions from partners, emphasizing the importance of accurate and up-to-date data.
- **Historical Distribution:** The group discussed the need to include historical distribution and extirpated species in the fish distribution layers to provide a more comprehensive understanding of fish populations and what may change or have changed over time.
- **Data Collection Sites:** Van emphasized the importance of tracking the locations and statuses of data collection sites, including fish traps and other facilities, to ensure accurate historical data.

## Partner Updates (emailed information below)

### Todd Gilmore, USFWS

Hired new Assistant Regional Director for Fish and Aquatic Conservation - Eric MacMillan (vice Judy Gordon). Eric comes from our Headquarters Branch on the East Coast.

Made decision that our current internal hatchery database (Columbia River Information System database) fulfills our needs better than any of the off-the-shelf databases we've tested.

Formed an internal database team to review and update our hatchery database and provide recommendations to our Fisheries Leadership Team. Members of database team include our Regional Data Manager, Olympic Peninsula fish biologist, Columbia Fish and Wildlife Conservation Office Database Developer, and me.

Deployed Columbia River hatchery database (Columbia River Information System database) to one of our Olympic Peninsula National Fish Hatcheries (Quilcene NFH). Currently, Olympic Peninsula NFHs are using a lot of historical spreadsheets to keep track of their fish production data. Will be nice to have data in a database versus lot history spreadsheets.

Hoping to deploy to 2 other Olympic Peninsula NFHs in next year or so (depending on staffing levels).

### Brodie Cox, WDFW

#### Current Fish Projects

- FishWa Mobile Regulations – Shellfish Beaches maps, regulations & enhancements
- WaTix Commercial Mobile Reporting for buyers – Adds several enhancements like NFC, a Fishers app, and Enforcement app
- Statewide Enterprise public user authentication – Okta beta implementation
- E-DNA database. Will serve as prototype for our eventual Genetics replacement database
- Otolith database development almost complete
- CWT tagging trailer database almost complete
- Hatchery Management System – continuing form buildout (incubation and transfers) HCAX on hold for now – will resume Summer 2025
- Testing AI POC implementation using Claude for natural language query generation for shellfish database
- Continue MSS (Mainstem Sampling) database for Lower Columbia data including PTAGIS data – moving it to PostgreSQL

- Started a Ballast Water database
- Expanded Creel and Spawning ground mobile forms for data collection
- Kicked off a BDS (us) initiated effort to standardize data collection and analysis for fish field data and HLI generation with Fish Program Science leads

#### New Hires:

- E-DNA Dev - Project
- WaTix Commercial Mobile Reporting Dev – Project NFWF grant
- GIS Fish Distribution Data Manager
- Shellfish Data Scientist

#### IDFG Updates

Angie Schmidt, IFWIS

- Leveraging ArcGIS Enterprise to create value... 'better data faster'.
  - Anadromous Creel – data turned around quickly didn't need temporary staff to hand enter data after season was over. Scoping for the feasibility of a resident creel now.
  - Spawning Ground Survey – mobile app fully deployed and widely accepted. Along with desktop app we are producing high quality data – 'better data faster'.
- Helping staff move to ArcGIS Pro and assessing GIS licensing needs within IDFG. Moving staff to ESRI Named User Licensing is much more expensive!
- Partner logins remains non-functional but we are working with our central IT agency for a solution. Thank you for your patience. Please reach out to Evan if you have specific data needs in the interim.

Evan B aka "Better Data Faster" (notes from staff)

- John Powell is being replaced by Sarah Maher as natural resource coordinator – will be a SN SC and ExCom meetings
- CAX & StreamNet data submittal continuing
- HCAX data sources and workflows derived from DES and FINS in collaboration with Hatchery Evaluations and Monitoring Staff – used modeling outputs into SQL – field data and model outputs going into SQL Server DBs.

- Worked with ODFW & WDFW & Mike/Mari on refining HCAX DES – Liz and Bekki are AWESOME! Helped move this along.
- NCA & HCA Controlled Vocab was a significant undertaking but are almost finished with that
- Put together ETIS webinar presentation
- Did not lose or break any equipment!! Used iPhone for all field data which helped to not lose equipment and also greatly improved data collection process
- In collaboration with the USGS Montana, Wyoming and other folks, we continue to try to develop the conservation efforts database for Yellowstone Cutthroat and Westlake Cutthroat in order to do our range-wide assessments in a much more efficient manner. - Eta 2026

#### Dawn Anderson, MFWP

- MT FWP Had our data accessibility meeting with BPA in December
  - Provided updated information to BPA
  - I provided granular information to internal staff for the reporting to cbfish.
    - Provided the appropriate data repository for protocols - staff will have to update if necessary
  - MM.org
    - I added our internal system as a new repository and asked USGS staff to update old database record.
- Continuing to work on our hydro. It was Ace's project, and I have other staff picking it up as they can.
- Application rewrites due to deprecated technology:
  - Fish distribution - Complicated and dependent on hydrography being updated
  - Water rights application for internal staff also dependent on hydro
- Paddlefish data dashboard - e tags implemented for a section of river and public wants to see the harvest vs. target in real(ish) time.
- Our genetics lab will use subcontract funds to continue bull trout work
- I was able to hire two positions since Sept. Have 2 still vacant. I have not started recruitment for the StreamNet position yet.
- We are in the middle of our legislative session. Fielding requests and providing information for bills.

#### Jon Bowers, ODFW Updates

Salem

- ODFW StreamNet staff are implementing a new process to add new or update large data sets related to high-level indicators (i.e., NOSA) and fish monitoring data (i.e., redd counts). Staff started testing the new procedures and drafting protocols this month. We plan to move the new functionality to Production in the spring.
- East Region Fish Research completed additions for the field TimeSeriesID (TSID) in the Coordinated Assessments (CA) natural origin tables. They also standardized and updated DES metadata type fields (i.e., Protocol Method URLs and Method Adjustments) and submitted the changes to StreamNet recently.
- In 2025 plans are to; 1) add the PNI Table to system structures and internal applications for data sharing, 2) update the data downloads, add new graphical and table features, and develop a new web map for the ODFW Recovery Tracker website, and 3) make upgrades and functionality improvements to the ODFW Data Clearinghouse.
- Held a data accessibility meeting with BPA in December and worked to tie up loose ends for identifying the proper locations to access authoritative datasets.
- Hired a GIS Coordinator (back-fill) and PFA Fish Habitat GIS Analyst. Planning to bring on a contractor to develop a map component of the Recovery Tracker app.

## La Grande

ODFW is willing to host the fall StreamNet Steering Committee meeting in La Grande and can assist with organizing and planning as needed.

EPA Exchange Network Grant – Joseph Feldhaus, Kasey and Jake conducted interviews and identified a top candidate. The EPA money is in limbo within the federal system and without the money in hand the position cannot be offered, as of yet. This grant is to work on streamlining the Lower Snake River Compensation plan hatchery data collection, analysis, and transfer from the hatcheries to feed FINS, HMS, and HCAX. April update: the position was filled and will start on May 1<sup>st</sup>.

Inland Fish Science Program – this is a newly formed internal ODFW program bringing together East Fish Research, West Fish Research, Lower Columbia Research and the REDD group into a single program. IFSP staff (mostly Project Leads and a few others including Kasey) are working on an Operations Manual to help direct the “operations” of the IFSP. Erik Suring and Kasey are leading the Data Management section of the manual, outlining data management guidance and best practices. The hard work of the CAP, CAX and HCAX development plus the AFS Standard Methods v2 Data Management chapter that Jen Bayer and Nancy Leonard co-authored have been heavily referenced.

An "inventory" of IFSP sampling efforts is currently being compiled. Lastly, an effort is underway to describe the details of each of the participating projects and also to look for gaps and potential efficiencies in projects and staff.

### Sheryn Olson, CRITFC

Sheryn Olson, Inter-Tribal Monitoring Data Project lead, Fishery Science Dept., CRITFC

CRITFC is working on recommendations for the NPCC 5-year amendment process.

Comprehensive enterprise Data Management and Governance have not been given a very high priority – trying to advocate that as a higher priority in the NPCC amendment process.

The 4 member tribes have led movement toward more mature data management and governance systems, especially Umatilla & Yakama nations. CRITFC needs more resources.

In the last 2 years, with funding from the NOAA grant, we have made a lot of progress on the TribalCDMS: expanded query system, better UI, process improvements to development (Continuous Development/Continuous Integration implementation) and now able to display paginated, filtered very large data sets and download them.

The tribes are leveraging individual EPA exchange network grants to improve overall data management capacity with a focus on data pipelines and metadata. CRITFC does not compete with their Tribes for EPA grants so ITMD did not apply last year, but three member Tribes were awarded grants in 2024.

NOAA grant has gotten CRITFC staff involved in West Coast Ocean Alliance – worked with PSMFC GIS Center to pull current data.

### Personnel

CRITFC hired a new Grants Acquisition Manager Bethany Byrd Hill – focusing on private/large funding sources.

ITMD project lost half of Jaiming Yang's time due to completion of the 2year \$400,000 NOAA grant with West Coast Ocean Alliance.

ITMD project was awarded 2025-2027 NOAA grant that can hopefully be used to hire another. Status is awarded, but delayed at least until September 2025, upon final approval by Secretary of Commerce.

Data stewards at Nez Perce tribe were assigned to other projects – they are advertising for a new steward. Ryan K is the ITMD contact, yet, as a scientist, he has other duties.

Yakama - Bill Bosch retired and Shubha Pandit has taken his place as the ITMD contract manager, though because he is a scientist, he has other duties.

Warm Springs lost one habitat biologist/data specialist. Similarly to other tribes, Stefan Kelly is both the Restoration Manager and contact/contract specialist for the ITMD project.

### Brady Allen/Russell Scranton (BPA)

(notes from staff)

Approved continuing contracts business as normal as much as possible

Starting review process based on FY26 rate

PNAMP updates given during their agenda topic

CRITFC CBFW Library updates given during their presentation

PSMFC GIS Center updates given during their presentation

### SPOTLIGHT - BPA's CAX Data Status Tool Overview (Russell Scranton & Brian Maschoff)

Brian and Russell introduced the CAP Data Status Tool, which helps visualize and analyze coordinated assessments data. They demonstrated its features, including the ability to identify missing data, compare data sets, and visualize data spatially. They also discussed the importance of feedback and potential improvements to the tool. Nancy set up password restriction during the feedback phase.

password: caxstatustool

<https://www.streamnet.org/data/hli/data-updates-cap/caxstatustool/>

### ETIS 2025 Webinar Series Recap (Sam Cimino)

Sam provided a recap of the ETIS webinar series, highlighting the participation of over 150 individuals, 498 views on YouTube, and the success of the sessions. He mentioned the planning committee's efforts and the potential for future collaborations with other organizations. Similar ETIS sessions around the country – one in Great Lakes Region.

### Next SN SC meeting - Location and dates

The group discussed potential dates for the next meeting in La Grande, considering field seasons and other conflicts. They agreed to finalize the dates after checking schedules and potential conflicts.