**StreamNet Steering Committee Meeting**

**February 21-22, 2023**

Idaho Department of Fish and Game

600 S Walnut St, Boise, ID 83712

Microsoft Teams Hybrid Meeting

**Attendees:**

In-person: Angie Schmidt, Brodie Cox, Cedric Cooney, Chris Harrington, Dawn Anderson, Evan Brown, George Batten, Greg Wilke, Jen Bayer, Mari William, Matt Schwartz, Michelle Steg-Geltner, Mike Banach, Nancy Leonard, and Rebecca Waskovich.

Remote: Anneliese Myers, Barry Hodges, Bill Bosch, Binh Quan, Brady Allen, Daylen Isaac, Denise Kelsey, Haley Nuetzel, Jacob Chambers, Jon Hess, Jorge Gonzales, Joseph Feldhaus, Kris Homel, Kurt Tardy, Lara Erikson, Michelle Groesbeck, Nadine Craft, Neil Ward, Russell Scranton, Sam Cimino, Sheryn Olson, Tami Wilkerson, Tara Garrison, Todd Gilmore, and Yvonne Dettlaff.

**Action Items:**

* Van and Evan to loop in Ace with MFWP on the Bull Trout polygons and the guidance developed through the FMWG task group for creating generalized polygons
* CAP QA/QC pilot will be implemented with the new metrics to inform ROI assessments as requested by StreamNet Steering Committee in 2022 and reviewed during this meeting.
* StreamNet/CAP Technical Team to
  + Sam and Greg to continue discussion related to developing a reproducible workflow tool for reporting via MonitoringResources.org and ways to leverage it as a useful tool. Provide SN SC with recommendations on options to move forward considering both changes/tasks that could be implemented by PNAMP and StreamNet, and possibly starting with a smaller subset of trends that are easier to connect to projects. Recommendations could be implemented during FY25 to provide time to assess funding for the work.
  + assess feasible, and if yes recommend approach, for partners using Survey 1,2,3 to exchange knowledge and share products/forms in a shared location (e.g. Sharepoint, StreamNet GITHUB).
* CAP-MAP Fish HLIs user interface
  + Greg will update the existing CAP Fish HLIs map query with the requested pop-up box to display data availability for populations without HLIs in the data system, and incorporate input from SN SC as received before the next SN SC meeting (see slide 138 for due dates)
  + Nancy will oversee development of the interactive user interface for the MAFAC content that will be developed as a separate tool from the CAP Fish HLIs and will reflect input provided by SN SC (see slide 138 for due dates)
  + Nancy to contact Columbia Basin Collaborative to inform on MAFAC tool and discuss potential used by CBC
  + Nancy will add to the SN ExCom 2023 agenda both of the above items for their review and input.
* Next Steering Committee Meeting
  + Fall 2023 will be in Olympia and hosted by WDFW. Nancy will send a doodle to confirm meeting date
  + Spring 2024 could consider MFWP. Dawn and Nancy will discuss
* 2023 Executive Committee Meeting
  + Jen will send out a doodle poll to identify the 2023 StreamNet Executive Committee meeting to be held jointly with PNAMP Steering Committee in Portland, Oregon as done in 2022.
* Input on the updated FY24-25 Budget and Statement of Work/Work Elements due 4/14; returned for final review 4/21 with final input due 4/28; Draft SOW/WE and budget to BPA COR 5/5 per agreed timeline for review by Brady (COR) and final submittal to BPA 6/1
* Input on draft CY2022 Annual Report to BPA first draft due Feb 27th, 2nd draft to SN SC 3/6, input due 3/15, final report due to BPA & SN SC 3/31/23

**Meeting Documents:**

All meeting documents are available from the StreamNet Steering Committee webpage:

* [PowerPoint slide deck](https://www.streamnet.org/sn-scmeeting-slides-feb2023-final-web/)
* [Agenda](https://www.streamnet.org/sn-sc-feb2023agenda_final-web/)

**Meeting Notes:**

**Welcome and introductions**

New BPA COR Brady Allen

***Spotlight:* Jon Hess, Senior Fisheries Geneticist at Columbia River Inter-Tribal Fish Commission** Hagerman Parentage Based Tagging Data

* FISHGEN
* Need for hatchery naming standardization for broodstock spawning group
* PBT replacing CWT in Beecham’s DFO lab

**WDFW:** Brodie Cox

* FishID coming out with AI
* Bounty
* Fishbooks into reproducible report generating platform
* ESRI dev conference presenting use of Flutter – cross platform code
* FMX – NWFIC data exchange
* Being consumed by central IT but funding is complicated
* Hired new hatchery database developer
* Updated chinook modeling for lower tributaries, updating to CAX
* New fish distribution data
* Spotlight presentation could be updating fish distribution – Maddie Grey
* Updating data dictionary to be more like CAX
* Haven’t started on management of genetics data

**MFWP:** Dawn Anderson

* Continuing to work on traditional datasets
  + Our internal fish distribution editor has needed some editing to incorporate hydro changes it wasn't handling correctly. It is written in old technology and will need to be rewritten and brought up to current coding. Weighing our options for javascript 4, Esri AGOL or similar tech.
  + Still working on our 24 k hydro and planning how to move the data over to the new linework. Moving to the new hydro will change rivermiles for stream data. This will require a delete and replace of our data at StreamNet. Planning on to complete this by the end of 2023 calendar year.
    - Conversations with our state library who is the steward of the NHD and keeping tabs on effort through NSGIC - National States Geographic Information Council
* Discussions about moving the Yellowstone and Westslope Cutthroat native trout assessments to the Wyoming system have started again. Martin Koenig with IDFG has been in touch with WINTI - Western Native Trout Initiative about moving the databases. MTFWP’s new native species coordinator is involved
* Several requests from biologists for mapping and sampling support
  + YCT annual reporting, bathymetric maps for native fish restoration
* Genetics
* Outside of StreamNet
  + AIS reporting and data support
  + Fishing regulation mapping - all need to be redone, moved to Pro, make consistent with our Wildlife regulations maps
  + Preparing for the deprecation of ArcGIS and moving to ArcPro - need to move existing ArcMap projects over into Pro.
  + We are having to move/update most of our scripts and toolboxes from python 2 to python 3. This includes scripting our data updates, map updates and a fish toolbox.
  + Planning to move our Java 3x applications to JS4 or finding other alternatives that do not require custom coding.
  + Our legislative session started in January and will go into May.

**Colville Tribes:** George Batten

* Maintenance phase for OBMEP
* EDT cycle
* Wes Tibbits is producing broodstock report

**PNAMP:** Jen Bayer

* Data visualization – fast fun java
* Remote sensing
* CAP workshop
* NHD + high res on hold
  + Could push for more info

**USFWS:** Todd Gilmore

* AquaManager software to manage hatchery production seems fish farm focused rather than hatchery, under review for new data management system
* Reviewing applicants for Data Manager position in Portland (vice Doug Threloff).

**Shoshone-Bannock Tribes:** Kurt Tardy

Not in Attendance (day 1); No update provided

**ODFW:** Cedric Cooney

* Creating and improving data flow from field to CAX
* Updating and migrating Salmon Recovery Tracker
* ArcMap to Pearl
* Discussion around having a local NHD that we manage here in the PNW
* Private forest accords
* OR conservation plan GIS position still empty
* Data sharing agreements, signing

**IDFG:** Angie Schmidt and Evan Brown

* New director, Jim Fredericks
* IFWIS in tech services bureau added the website development team
* data coordination and leveraging
* New project manager revamping the hunt manager tools
* After ODFW’s presentation on Creel in Survey 1, 2, 3, Chris and Brock are setting up a similar version for Idaho

**CRITFC:** Sheryn Olson, Denise Kelsey, Tami Wilkerson

* Many positions open
* CMOP and 11 tribes
  + West Coast Ocean Alliance wants coastal ocean health dashboard
* Data governance standards and policy development
  + March 8th webinar on data governance by Bob Snyder
  + TEAMS Meeting ID: 267 812 691 132 Passcode: GyWMUi
* Almost ready to hire a contractor for CDMS project
* Have to mostly use consultants for software development
* ITMD meeting coming up

**CRITFC Library:** Tami Wilkerson

* We are about 65% through reconciling the Library's SN source reference documents (creating metadata and URLs, fixing errors, etc.)

**NPCC:** Kris Homel

* Working on compiling info for performance indicators and migrating info into program tracker, going live in 24hrs (2/22)

**BPA:** Russell Scranton, Matt Schwartz, Brady Allen

* Update trends exchange
* Juvenile density task team is gathering juvenile survey data to use in FDAT with Dan Isaac, includes a spreadsheet data exchange template
* May ask for spawner location data, recognizes it is sensitive and is working on how to securely frame, store, and serve the data

**NOAA:** Mari Williams

* rCAX development with Eli Holmes

**PSMFC-StreamNet**

* through FMWG developing guidance on how to create generalized polygons that could be maintained by PSMFC and be build based on distribution. These would be used for data queries. Also developing draft generalized polygons for all focal species to support BPA CBFISH contracting need.
* For the FMWG task, developing the guidance using Bull Trout and the available USFWS and state information to generate polygons. Evan and Van working on this
* Request to loop in Ace with MFWP on the Bull Trout polygons and guidance document.

**Centralized data requests discussion within individual member updates**

* IDFG working on developing
* WDFW same, especially for internal data requests
* MFWP has a staff person in the Director’s office
* Public records requests
* Internal workflow through central office

**Review revised CAP QA/QC tool for 2023** (Greg Wilke and team)

* Group discussion on whether modified metrics will address request of capturing more details during 2023 to inform effort
* SN records review –
  + Repeat will be done with better geographical balancing and a larger sampling
  + March 1st kick off
  + App.streamnet.org/app/data review

**Update on revised CAP-Map Fish HLIs user interface** (Nancy)

Input due from all participants after meeting, see meeting slides for product to review

* Nancy will update Columbia Basin Collaborative about the MAFAC tool being developed to see if they have input and if of interest for their goal tracking. Could share with CBC technical work group.

**StreamNet data to Monitoring Resources connections** (Greg Wilke, Nadine Craft and Jake Chambers)

Group discussion on options and next steps

**Monitoring Resources:** Sam Cimino

* Connecting fish monitoring data trends to BPA plans and projects
* Trend is parent to more than one table
* Begin year and end year sometimes has funding changes or overlaps
* One protocol per study plan is challenging
* Draft status vs final
* Looking at options to credit other funding sources
* CA data implementation would be a lot bigger than FMD to accomplish connecting to MR.org
  + Huge and what real benefit?
  + Citations?
* Feedback is good to help address updates and fixing things within the given funding
* Trying to sort access to others’ content to update it or assume ownership at staff changes
* Could adding a maintenance requirement for 1x per year review and update to be included in the funding help
* Biologists started shifting methods from annual reports into MR, intended to provide a reproducible workflow for reports
* There is low hanging fruit that could be good to use as proof of concept and show the biologists what’s in it for them
  + Journal publication requirements?
  + Tech team discussion to be scheduled to further discuss what might be possible to explore further in FY24 or FY25
  + Invest in data stewards again

**StreamNet Budget** (Nancy)

Group discussion on current FY23 budget status and upcoming FY24-25 budget needs

Budget – end of 2-year contract, planning for 24 & 25, spending out 2023 funds

* + Planning in MS Teams file
  + Input on SOW and budget due to Nancy per timeline in slides.

**Annual Report to BPA**

* Input due to Nancy per timeline on slide 138 with target date of April 2 to submit to BPA
* For the report recommendation section
  + GIS data layers a priority – Dawn Anderson will review
  + Push through the 2 DES modifications approved
  + Work on scheduling technical team updates at least once a year. These do not need to be in-person meetings. The technical team could engage in more communication – virtual meetings and/or emails to supplement the once-a-year tech meeting

**Spotlight: Yakama Nation Fishery Hatchery Data Management and Sharing (Michelle Steg-Geltner and Anneliese Myers)**

New facility started with survey 123, recommendations:

* Offload data to avoid fees
* Tribal discount
* Archive users and put data into commons
* Law enforcement discount

Could be useful to compile a recommendations documentation of lessons learned or exchange of knowledge related to Survey 123 forms and usage

YN will share forms if folks are interested.

**HCAX Project update (Mike Banach)**

* Lookup table
* Request for test data
* Running into local name issues and would benefit from regional standardization (RMIS stock names are problematic)
* Hatchery stock table like populations table for Natural Origin
* IDFG tried to add trapping, spawning, and release data
* Final disposition – released above, released into recycle, taken in and spawned, released/outplant for another location, and mortalities
* FINs is a primary HO data source/repository for IDFG and ODFW (for a portion)
* Target how we show users what they will get out of HCAX – OFWIM, NWFCC, or AFS symposium?
* Crosswalk FINs – DES worksheets

**HCAX data exchange survey (Nancy Leonard)**

* Hatchery stock and PBT group
* Spawn = hatchery site
* Summary of survey results (34 respondents) see slides
* Interest in connecting data systems at PSMFC (RMIS, FINS, StreamNet/CAX)
* Proper use of data requires understandable content describing the data and depends on the audience – scientists are different than journalists.
* Define how data sharing, accessibility, and metadata benefits programs and biologists to encourage engagement with the process. OFWIM or AFS symposium? Recruit speakers
* Reality check on who is driving this goal – research? Science?
* Coordinate management needs to use the same data/indicators vs variety of similar, but different.
* Centralized data requests
* Coordination concerns – it is important to have the biologists sending data into HCAX/CAX to the workshop/s
* Script efficiencies still require ongoing support and internal or contracted understanding of their functionality
* Data documentation standards and minimum information standards are the goal, can we track hourly staff time per project to do return on investment estimates for efficiencies?

**CAP Workshop April 12-13 (Mari Williams, Jen Bayer)**

* April 12-13 in Portland, OR Edith Green Federal Building and online
* Focus: discussing challenges and identifying solutions for data sharing
* Future data sharing topics
* Future of efficient data sharing mechanisms
* Adjacent opportunity: Cultural Competency and Relevancy, and Indigenous Knowledge Workshop with Sammy Matsaw, Jr, PhD