**StreamNet Steering Committee Meeting**

**March 4, 2021**

**9:00 AM to 12:30 PM (PT)**

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| **Agenda** |  |
| 9:00 | Welcome and introductions. |
| 9:10 | Update on FMWG February 11th meeting and next steps. |
| 9:30 | Update on HCAX upcoming March 11th workshop. |
| 9:40 | Update on SN Website refresh and next steps. |
| 10:10 | CY 2020 Annual Project Report to BPA. |
| 10:30 | BREAK |
| 10:40 | Update and discussion on CAP DDT Charter. |
| 11:10 | Manual quality control (QC) review of the coordinated assessments HLI data (Fish HLIs) and next steps. |
| 11:40 | SN SC members’ updates and announcement. |
| 12:30 | A**djourn** |

**Attendees**

PSMFC - StreamNet: Mike Banach, Van Hare, Nancy Leonard, Kate Sherman, Greg Wilke.

Colville Tribes: John Arterburn, George Batten (Sitka Technology Group).

CRITFC: Denise Kelsey and Sheryn Olson (ITMD), Tami Wilkerson (CRITFC Columbia Basin Fish and Wildlife Library).

IDFG: Angie Schmidt, Evan Brown.

ODFW: April Brenden-Locke.

MFWP: Dawn Anderson.

WDFW: Brodie Cox.

USFWS: Doug Threloff.

BPA: Tom Pansky, Matthew Schwartz, Russell Scranton.

NPCC: Kris Homel, Mark Fritsch.

NOAA: Mari Williams.

PNAMP: Jen Bayer.

CAP support: Tom Iverson (Tom K Iverson Natural Resource Consulting).

NPCC contracted data stewards: Neil Ward, Binh Quan (QW Consulting).

**Action Items**

* **FMWG tasks**: All, consider if you or your staff would like to participate in the four FMWG tasks contributing to PSMFC/CAP/StreamNet work. The four tasks will be led by Mike Banach (task 1), Tom Iverson (task 2 and 3), and Van Hare and Evan Brown (task 4). Contact Jen, Nancy or the task lead to be added as a participant.
* **Live Poll on Website Icons:** per the SN SC input during the meeting StreamNet PSMFC staff will have the ‘Data Store’ icon be replaced by the draft icon with the download symbol and will have the ‘Committee & Teams’ icon be replaced by the draft icons showing a mixture of people and tables/computers.
* **Website:** All, if you or your staff are interested in assisting in reviewing and testing the website before it goes live in July, and you haven’t already contacted Nancy, please email Nancy.
* **Annual Report:** All to provide comments and input to Nancy via email by March 11. Nancy will send Revised version of report for review by March 19 with final edits due back by March 29. Nancy will submit report to BPA on April 5.
* **MS Teams:** ODFW, IDFG, Colville Tribes to confirm which email address Nancy should use to create their guest accounts on the SN SC Teams Channel.
* **CAP DES Charter:** Mike will revise the charter per input received and discussion during the SN SC meeting and send the document to the SN SC and CAP DDT members.
* **QC:** All to provide names of staff with experience with preparing data following the CAP DES and/or working with the data accessed from the CAP Fish HLI (CAX) to inform the QC manual procedure. Organization by organization meetings will be set up with Mike B, Nancy L, and Neil W. after March 15, 2021.
* **Next meeting:** Nancy will send a doodle poll to the group to schedule the SN SC meeting for fall 2021.

**Meeting Documents**

* Agenda
* PowerPoint slides
* Draft CY 2020 Annual Report for Bonneville.

*The PowerPoint presentation for this meeting will be posted on the StreamNet website along with these meeting notes. The draft annual report will not be posted on the website.*

**Introductions**

No changes made to the agenda.

Meetings held after April 1 2021 will be using MS Teams link and phone line.

Introductions were made by Chat with Nancy reading out the names and people having their web camera on.

Kris Homel is now representing the NPCC on the Steering Committee.

Sheryn Olson is now the CRITFC ITMD project lead.

**Update on FMWG February 11th meeting and next steps**

The Fish Monitoring Work Group (FMWG) is a forum for collaborative development of tasks that advance regional fish monitoring practices. The purpose of the FMWG is multifold and includes supporting the CAP and StreamNet by facilitating discussions among biologists to inform data sharing supporting regional assessments and, reporting. The FMWG is also a forum to discuss emerging technology, share expertise, and explore opportunities for new workshops that inform monitoring practices (<https://www.pnamp.org/project/fish-monitoring-work-group>)

The FMWG will meeting three or four times per year. Each meeting agenda will include items focused on information sharing, emerging technology/hot topics, progress made by task groups, and discussion of what’s on the horizon/new ideas.

The FMWG is led by the FMWG Core Team that provides planning support, assists with tasks being addressed by the Task Groups, plans meetings/workshops and agenda items, and reports to the PNAMP Steering Committee. Current members of the FMWG Core Team include Marika Dobos (IDFG), Russell Scranton (BPA), Jen Bayer (PNAMP), Nancy Leonard (StreamNet), and Kasey Bliesner (ODFW). The FMWG Core Team is searching for additional members and interested individuals can coordinate with your agency PNAMP SC representative or directly with Jen Bayer.

During the FWMG February 11, 2021 meeting discussions focused on the type of tasks, activities, and topics that the FMWG could facilitate including topics and tasks that FMWG participants provided input on through the pre-meeting survey. Some of these tasks, topics and activities included new ideas for training or collaboration such as smolt analytics, best management practices for smolt analytics, analytical tool training, and PIT array and tag analysis support, and tasks such as improving data visualization and web-based queries for accessing data from regional data systems. Some tasks that could be informed by FMWG task groups also included tasks to improveme the quality and type of data shared in the region through regional data systems either by refining existing data categories (e.g. SAR) or development of new data categories to be shared (e.g. smolt equivalents). There was also a lot of interest to improve and expand the CAP/StreamNet DES (e.g., bull trout, sturgeon) and for standardizing the exchange for other data categories that may fit other data systems (e.g. snorkel and electrofishing).

Any new tasks will only proceed when a lead has been identified and supported by Core Team staff availability. Some leads have volunteered for these tasks: Smolt Out-migrant DES (A4) CAP, Carrying Capacity DES, Snorkel Survey and Electrofishing DES, Population Names, Smolt Trap Operation DES, and four CAP/StreamNet specific tasks. The four tasks informing CAP/StreamNet are currently seeking participants:

Task 1:  More clearly define "smolt equivalent" to improve the CA DES

* + Complete task identified during 2019 Smolt Analytics workshop
  + Seeking interested participants to work on this task, some participants identified during the FMWG meeting and pre-FMWG meeting survey.
  + Task lead: Mike Banach

Task 2:  Guidance for how to display populations/stocks without HLIs on the queries

* + Develop recommendations by August 2021 to inform SN ExCom
    - Seeking interested participants to work on this task, some participants identified during the FMWG meeting and pre-FMWG meeting survey.
  + Task lead: Tom Iverson

Task 3:  Improving display and access to superpopulations / subpopulations (stocks) estimates on the web-queries

* + Develop recommendations by August 2021 to inform SN ExCom
    - Seeking interested participants to work on this task, some participants identified during the FMWG meeting and pre-FMWG meeting survey.
  + Task lead: Tom Iverson

Task 4: Defining standard fish species names and boundaries for StreamNet tools (non-ESA)

* + Complete task identified during 2019 Smolt Analytics workshop
    - Seeking interested participants to work on this task, some participants identified during the FMWG meeting and pre-FMWG meeting survey.
  + Task lead: Van Hare and Evan Brown

*Group Discussion:*

None

*Action Items:*

* + **FMWG:** if you or your staff would like to participate in the four FMWG tasks contributing to CAP/StreamNet work. The four tasks will be led by Mike Banach (task 1), Tom Iverson (task 2 and 3), and Van Hare and Evan Brown (task 4). Contact Jen, Nancy or the task lead to be added as a participant.

**Update on HCAX upcoming March 11th workshop (see slides)**

The goal of the Hatchery Coordinated Assessments Exchange (HCAX) is to identify and share key salmon and steelhead hatchery indicators and supporting metrics. This is accomplished by sharing these data in a well-defined, transparent manner across the Pacific Northwest] to support reporting on salmon and steelhead for states, tribes, tribal consortia, federal agencies and other partners.

The first HCAX workshop is scheduled for March 11, 2021 and will focus on identifying the list of indicators that represents the first phase of sharing hatchery data. During March – June 2021, the biologist work group will refine and agree on indicators, which will be passed to the data managers work group to develop data sharing rules and procedures. Information on the HCAX workshops is on the PNAMP website: <https://www.pnamp.org/project/hatchery-data-sharing-hcax>

*Group Discussion:*

None

*Action Items:*

None

**Update on SN Website refresh and next steps** **(see slides)**

StreamNet PSMFC staff has been refreshing the current StreamNet website to simplify maintenance and reorganize content to better support the three main audience groups. During February the reorganization of content and icons were tested on volunteers ranging from those that know well our existing website to those that do not, including many of the SN SC members and their staff. The refreshed site will include some new content and flattening of pages resulting in merging existing content. Content will be migrated to the development site in May/ June and will need volunteers to review and test pages. Plan is to complete the redesign for a launch in July 2021

Following on the input received during February there remained 2 groups of icons that required guidance from the SN SC. The SN SC members provided input via a live poll on which icon design to move forward with for the Data Store and the Committees and Teams. Per the SN SC input StreamNet PSMFC staff will have the ‘Data Store’ icon be replaced by the draft icon with the download symbol and will have the ‘Committee & Teams’ icon be replaced by the draft icons showing a mixture of people and tables/computers.

Another item that came up from the volunteers providing input during February, was whether the current mission statement on the home page should make reference to the CAP. Per discussion with the SN SC it was decided that the current mission is a better fit for the home page as adding the CAP content would result in a lot of text for a top-level page. Also the home page should focus on the StreamNet program and not a sub-project. Content about the CAP should remain on the CAP section of the website.

*Group**Discussion:*

None

*Action Items:*

* + **Live Poll on Icons:** per the SN SC input during the meeting StreamNet PSMFC staff will have the ‘Data Store’ icon be replaced by the draft icon with the download symbol and will have the ‘Committee & Teams’ icon be replaced by the draft icons showing a mixture of people and tables/computers.
  + **Website:** All, if you or your staff are interested in assisting in reviewing and testing the website before it goes live in July, and you haven’t already contacted Nancy, please email Nancy.

**CY 2020 Annual Project Report to BPA (see slides)**

The updated webform questions greatly facilitated populating the CY2020 annual report. The draft report was shared with the SN SC in advance of the meeting. SN SC should review the sections relevant to them. Sections that need additional input have comment boxes with names of reviewers, such as the sections on USFWS, PNAMP, CRITFC ITMD, and CRITFC CBF&W Library. The remaining updates to the PSMFC data will be included in the revised draft that will be sent to the SN SC on March 19th.

The section that is still in development and would benefit from further input is Section VI Discussions – Lessons Learned and Recommendations. Initial input provided during the SN SC meeting included that it would be beneficial to breakdown within the section which items are “Lessons Learned” vs. “Recommendations”, and to edit the items so that these come across as either lessons learned and/or recommendations, instead of additional new goals.

The FY22-23 BPA Budget has not but confirmed, but for now we expect to have the same amount of funding as FY21 with the ODFW portfolio allocation remaining the same. Nancy will assess if some additional funding can be passed on to the partners before working on FY22-23. SN funded partners will work on the Excel budget line item for the FY 22-23 budget during May and June. Plan to have budget and SOW in CBFish by July 1. This year we will use MS Teams to collaboratively work on the excel file. For those whose organizations are planning on using Teams but have not yet migrating to Teams they should discuss with their organization whether PSMFC StreamNet can use their work email when adding them to the PSMFC-Teams and let Nancy know. Nancy will create a Teams channel for the SN SC and add guest accounts for this task.

*Group**Discussion:*

Initial input provided during the SN SC meeting included that would be beneficial to breakdown within the section which items are “Lessons Learned” and “Recommendations.”

*Action Items:*

* + **Annual Report:** All to provide comments and input to Nancy via email by March 11. Nancy will send Revised version of report for review by March 19 with final edits due back by March 29. Nancy will submit the report by April 5 to BPA.
  + **MS Teams:** ODFW, IDFG, Colville Tribes to confirm which email address Nancy should use to create their guest accounts on the SN SC Teams Channel.

**Update and discussion on CAP DDT Charter (see slides)**

The draft CAP DDT Charter was reviewed by FMWG Core Team prior to being sent out for review by others; most input received was editorial in nature. There are nine areas where additional input from the SN SC is needed, some of the other items that need to be resolved can be addressed after the meeting.

The 9 areas discussed with the SN SC and their input consisted of:

1. Propose to use DES to mean something specific (Trends DES, NOSA, DES, etc)
   * *Discussion*: No dissent voiced.
2. SN & PNAMP are co-leads rather than sponsors of the CAP collaboration
   * *Discussion*: Agree that co-lead is more appropriate.
3. How is membership determined? Members vs Partners?
   * *Discussion*: currently Partners refer to those directly funded by SN and Members are others that engage such as by providing or consuming data. Some suggested we could refer to them as participants. Others pointed out it would be good to clarify the roles so that people understand what is expected from them such as time commitment. Mike will work on clarifying the terms and ensure these are used consistently.
4. What expertise should the representations that serve on the CAP DDT be expected to have?
   * *Discussion*: Some suggested that representatives be a subject-matter expert and a data management expert from each participant group. Others pointed out that may exclude some that should be engaged such as BPA and NPPC. The decision was made to not define the expertise of representatives in the charter.
5. Why is the co-chair the only one with a timeframe limitation?
   * *Discussion*: the initial thought was to fund the co-chair and the timeframe was aligned with the contract period, one FY. Based on discussions it doesn’t appear that funding the co-chair will be value added since the amount for their time commitment is not sufficient to fund a half or full FTE. Based on this information the funding aspect will be removed. Suggestions included assigning people to a 2-year time commitment for all the roles, with renewals. The only exception to this would be the chair as this position is filled by PSMFC StreamNet staff.
6. Team Operating Guidelines
   * *Discussion*: it should be clearer that new DES should be identified in the annual work plan by ExCom.
7. Decisions- what happens if there are objections?
   * *Discussion*: the text should be clarified that if there are objections that alternatives to resolve objections would be found to achieve consensus.
8. Charter amendments
   * *Discussion*: clarify in the text that amendments can be requested any time, but will be brought up for consideration at the chair’s discretion.

*Group**Discussion:*

None

*Action Items:*

* + **CAP DES Charter:** Mike will revise the charter per input received and discussion during the SN SC meeting and send the revised document to the SN SC and CAP DDT members.

**Manual quality control (QC) review of the Coordinated Assessments HLI data (Fish HLIs) and next steps (see slides)**

PSMFC StreamNet staff-initiated work in January to develop a manual QC procedure for the Fish HLI (CAX) data. The timing is ripe to tighten up the CAX and put in place a sustainable approach for quality control of the data submitted to the CAX, before we expand to hatchery indicators.

The approach for developing a sustainable QC procedure that will leverage the expertise of SN-funded data stewards and others between January 2021 and October 2021:

* Jan-Feb: Review of a representative subset of records, focused on NOSA and OutJuv HLIs
* March: One-on-one discussions with entities to understand issues and brainstorm QC process options
  + data coordination/stewards who use the CA DES
  + individuals who use these data
* April: Draft QC process that is sustainable over time
* May: Review draft QC process with SN SC members and CAP DDT members
* June: Agree to QC tasks to be addressed by SN-funded data experts to complement other efforts
* July: Produce final version of QC Procedure
* October: SN begins implementation

*Group**Discussion:*

None

*Action Items*

* + **QC:** All to provide names of staff experienced in preparing data following the CAP DES and/or working with the data accessed from the CAP Fish HLI (CAX) to inform the QC manual procedure. Organization by organization meetings will be set up with Mike B, Nancy L, and Neil W. after March 15, 2021.

**SN SC members’ updates and announcements**

Colville Tribes: Have been working on increasing efficiencies for the process used in calculating abundance numbers. Currently working on sending Chief Joe Hatchery data to SN.

CRITFC: Hired new lead for inter-tribal monitoring data project. Sheryn Olson started this past Monday.

CRITFC Library: The library is closed to the public due to COVID, but still offering all services. Continuing to work on reconciling SN source documents.

IDFG: Re-vamping server architecture, setting up environments for testing, sharing. Working with Nez Perce on hatchery return data and spawning data for SN deliverables and Hatchery HLIs to standardize metrics and display. Doing spatial QA/QC in lake, stream, spawning ground survey databases.

ODFW: Developing trend/fish data monitoring application to deliver data to SN/Fish HLI (CAX). Will be bringing on a data assistant to identify data for HCAX and support a 5-year plan. State is doing an initiative around open data- all agencies must have a visible dataset inventory that is published, although the actual data doesn’t need to be publicly accessible.

MFWP: Looking to revamp existing scripts to make more efficient (fish distribution, survey tools). Still working on hydrography- lake layer is set but streams layer is proving challenging.

WDFW: Updating databases to be able to report directly into CAX. Starting new science data committee to inform consistent analysis and reporting across the agency. Working on precursor for HCAX on a joint project with the Lower Columbia Fish Recovery Board.

USFWS: USFWS hatcheries located in Oregon and Washington investigated submitting their data into FINS. The outcome of this exploratory period has led to the decision to not have OR and WA hatcheries use FINS for their data. The Idaho hatcheries will continue using FINS.

Currently trying to figure out where the Oregon and Washington hatcheries will store their data.

BPA: BPA has an effort underway to map projects funded by BPA to the new BiOPs and Council’s Program.

NPCC: The NPCC Fish and Wildlife division will be holding its first workshop on the [Program’s objectives and indicators on March 8.](https://www.nwcouncil.org/meeting/council-program-objectives-and-indicators-workgroup-march-8-2021)

NOAA: Mari has been actively using data from the Fish HIi (CAX) for 2020 BiOp and NOAA is currently working on the status review.

PNAMP: the PNAMP and StreamNet co-hosted Emerging Technology Information web series concluded at the end of February. You can view all the presentations on the PNAMP YouTube channel which you can access from the [ETIS webpage](https://www.pnamp.org/project/emerging-technology-information-sessions). The PNAMP Remote Sensing working group is starting back up with the intent to support individuals and entities (e.g., federal, state, tribal, nonprofit) with equitable opportunities to learn and advance the use of remote sensing technologies and data for the research and management of aquatic ecosystems. The first meeting of the Remote Sensing working group is on [March 16](https://www.pnamp.org/event/pnamp-remote-sensing-forum-reboot). The Data Visualization group that merged in 2020 with the [USGS Data Visualization collaboration area in the Community for Data Integration](https://my.usgs.gov/confluence/display/cdi/Data+Visualization+Collaboration+Area), has its next meeting on March 18th with a presentation by Alvin Chang. Alvin is a senior data reporter at The Guardian and uses various viz tools to tell data driven stories. There is a MonitoringResources.org [orientation session being held on March 18th](https://www.pnamp.org/event/monitoringresources-org-orientation-for-project-sponsors-2) to help NPCC/BPA project sponsors with entering their methods/protocols in MonitoringResources.org to inform the ISRP project review.

CAP support: No update

StreamNet: Van is working on the SN website redesign and improving website interface for the GIS data sets and layers.

Need to schedule the next SN SC for this fall. Is there a preference for meeting before or after the September 9th ExCom meeting, keeping in mind the other meetings shown on the calendar. *Discussion:* Group prefers scheduling the next meeting for sometime after the ExCom meeting on September 9, so dates will be suggested in early September including dates after the SN ExCOM meeting.

*Action Items:*

* + **Next meeting:** Nancy will send a doodle poll to the group to schedule the fall SN SC meeting