StreamNet Steering Committee Meeting
September 2, 2021
9:00 AM – 1:00 PM (PDT)

Join the MS Teams meeting

Or call in (audio only)
+1 207-387-0436,,32104982# United States, Portland
Phone Conference ID: 321 049 82#

StreamNet
www.streamnet.org

Welcome and Introductions

Please mute yourself when not speaking

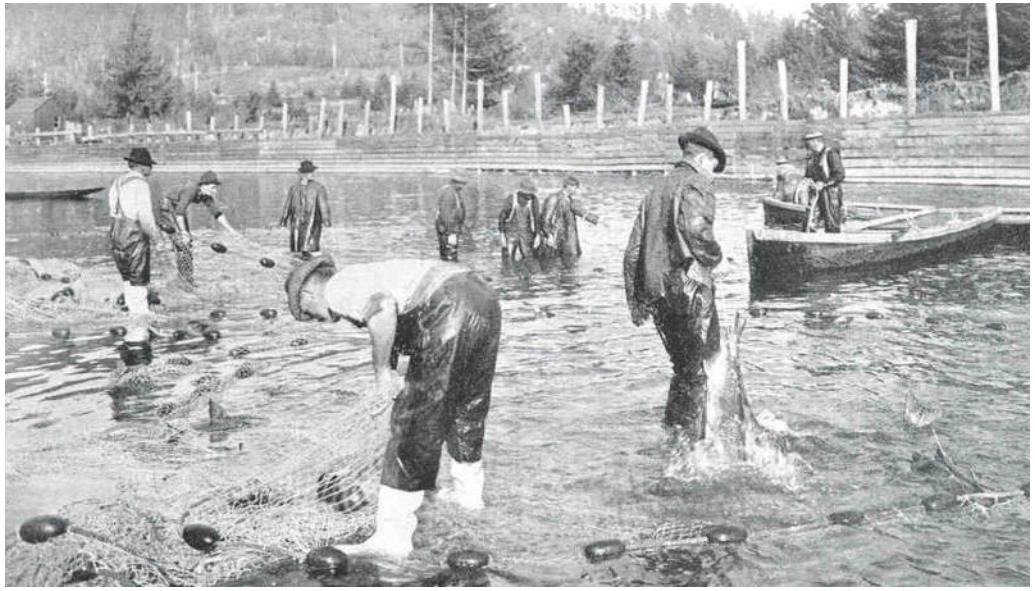
- *6 for phone audio
- Microphone icon on the control bar for computer audio

Agenda

(times are approximate)

TIME	AGENDA ITEM
9:00	Welcome and Introductions
9:15	HCAX Progress
9:30	Fish Monitoring Work Group's Task Groups Updates
10:00	StreamNet/CAP Teams
10:15	Stretch Break
10:20	Data Quality – GIS Data followed by CAX HLI Data QA/QC Review
11:00	NPCC Salmon and Steelhead HLI Task Request Update
11:20	StreamNet Program Budget High-Level Update
11:30	Steering Committee Member Updates (verbal updates)
1:00	Adjourn

HCAX Progress Update



HCAX

Coordinated Assessments Partnership
Fish and Habitat Data Exchange

Hatchery indicators **C**oordinated **A**ssessment e**X**change

- CAP task funded by EPA through WA GSRO
- Facilitated by PNAMP & StreamNet staff
  - Builds off previous work, including StreamNet DES, CAX, RMIS, FINS, PTAGIS

Goal: identify and share key salmon and steelhead hatchery indicators across the Pacific Northwest using standardized metrics and HLIs to

- improve consistency in the information communicated with the public, and used for environmental reporting required for regional decision-making in multiple forums
- contribute to reporting on salmon and steelhead for states, tribes, tribal consortia, federal agencies and other partners

HCAX Project Participants

* Indicates EPA Grant Partners

- BPA
- Chelan PUD
- Confederated Tribes of the Colville Reservation*
- Confederated Tribes of the Umatilla Indian Reservation
- CRITFC
- Idaho Power
- IDFG
- NOAA
- NPCC
- ODFW
- PSMFC/RMIS
- PSMFC/StreamNet*
- Shoshone-Bannock Tribes
- USFWS
- USGS/PNAMP*
- WA Governors Salmon Recovery Office*
- WDFW*
- Yakama Nation Fisheries

HCAX Schedule

March 11, 2021

- Workshop 1, confirmed metrics/indicators and organized by phases

June 2, 2021

- Biologists Work group 1, break-out groups reviewed and provided input on field-names, definitions, and development of standardized pick-lists

June – September 2021

- Additional input received, compiled existing content, refined field-names and definitions, and compiled pick lists for next work group

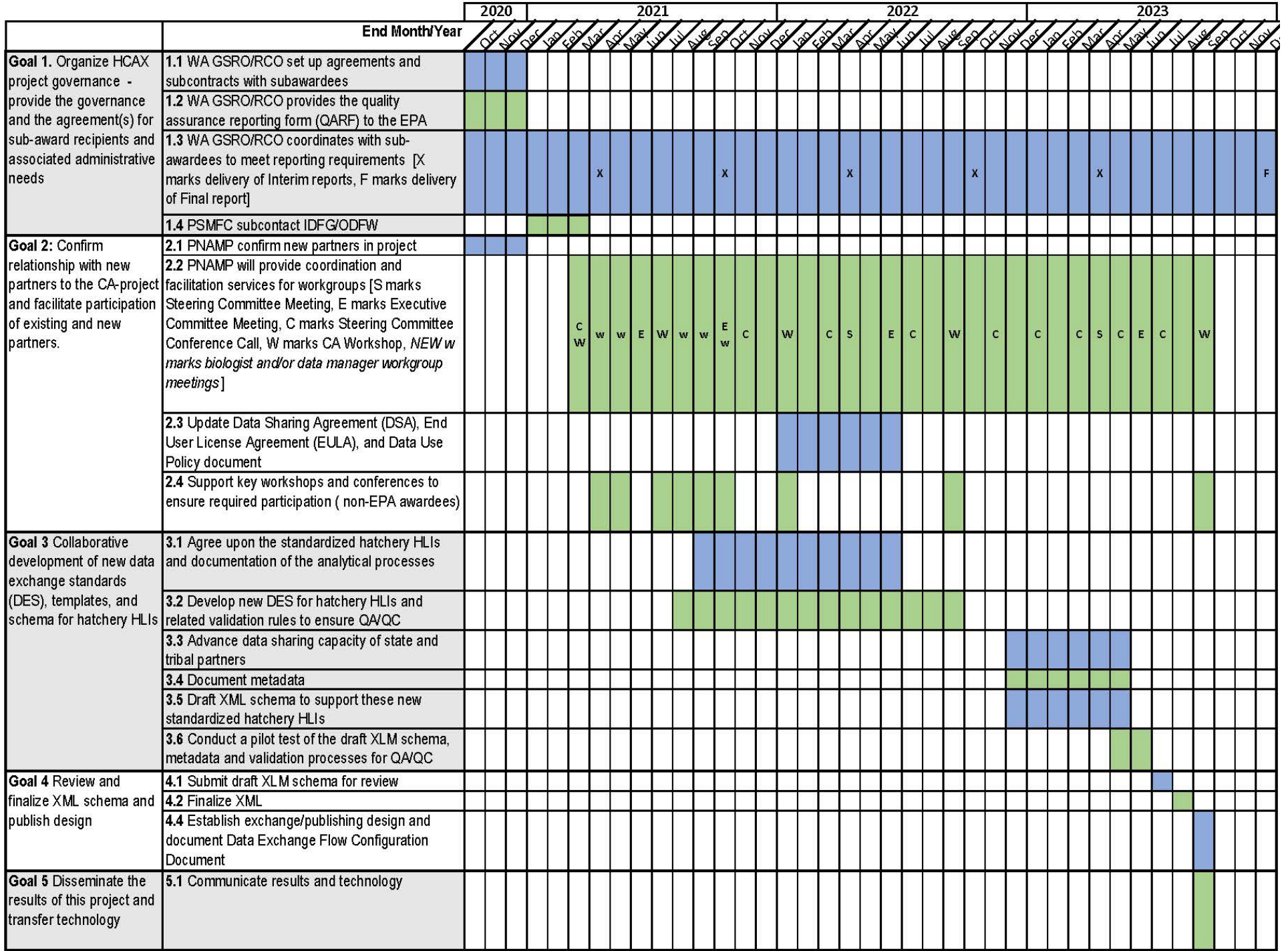
September 15, 2021

- Biologists Work group 2, break out groups to review revised product and discuss proposed pick lists

September 2021 – August 2022

- Biologists finalize product then pass on to data managers work group to develop data sharing rules and procedures

Out Year Schedule



PNAMP Fish Monitoring Work Group

Task Group Updates

Van, Greg, Russell

pacific northwest aquatic monitoring partnership

https://www.pnamp.org/project/fish-monitoring-work-group

Objective, Purpose

- Provide a forum for collaborative development of tasks that advance regional fish monitoring practices;
- Support the CAP Effort and StreamNet by facilitating discussions among data providers and reporting/decision makers related to fish monitoring data sharing and reporting needs.
- Make the workgroup meetings a
  forum where new information can be exchanged and openly discussed by peers outside of AFS, or open opportunities for new workshops that inform monitoring practices.

pacific northwest aquatic
monitoring partnership

StreamNet/CAP Related FMWG Task Groups

Task Group	Status	Update by
Upcoming task groups - Carrying capacity DES - Snorkel & electrofishing DES	Initiating soon	Russell Scranton
Clarify "smolt equivalent" to improve the CA DES	First meeting during Fall	Russell
Fish populations names and boundaries	First meeting mid/late September	Van Hare
Data Display on CAP Fish HLI tools (CAX)	Completed. Recommendations shared with StreamNet	Greg Wilke

pacific northwest aquatic monitoring partnership

CAP DES: Outmigrant (A4) – Define Smolt Equivalent (Task 2)

Task Team Leads:
Mike Banach
mbanach@psmfc.org

Russell Scranton
rwscranton@bpa.gov

Purpose:

- Defining Smolt Equivalent
- Discussing Classification Categories of Out-migrants, including
  - Smolt Estimate at Trap
  - Smolt Equivalent Estimate at Trap (Pop fit will be population estimate)
  - Smolt Equivalent Estimate Outside population (e.g. Lower Granite Estimate)
- Review other DES issues identified in February 2021 survey (e.g. consistent location definitions in SARS, RperS and Out-migrant DES)

Meeting: initial during Fall 2022

Products: recommend to CAP DDT improvements to the definition and fields.

Fish Population Names and GIS Boundaries (Task 5)

Task Team Leads:
Van Hare
vhare@psmfc.org

Evan Brown
evan.brown@idfg.idaho.gov

Purpose: Define fish population names and boundaries (e.g. non-ESA bull trout, white sturgeon) for more effective communication of data via the StreamNet tools.

Products: List of recommend population names and boundaries (polygons layer) to be used by PSMFC-StreamNet tools

Next Steps: Task leads are preparing to initiate and convene the task team. Currently working on a shared document outlining a proposed process and will be seeking feedback from the larger group

Meeting: first meeting in September/October with date to be selected with task team volunteers via doodle poll.

Super Population – HLI CAX (Task 6)

StreamNet HLI Display (Task 7)

Task Team Leads:
Tom Iverson
t.k.iverson@comcast.net

Nancy Leonard
nleonard@psmfc.org

Purpose: Improve how information on the CAP Fish HLIs query is conveyed, with specific focus on:

- Populations with no HLI estimates
- HLI estimates for groups of populations
- HLI estimates for partial populations

Participants: Attendees combined for May and June meetings

Russell Scranton, BPA
Sheryn Olson, CRITFC
Evan Brown, IDFG
Tom Iverson, consultant
Mari Williams, NOAA/PSMFC
Kris Homel, NPCC
Jake Chambers, ODFW
Kasey Bliesner, ODFW
Nadine Craft, ODFW
Bekki Waskovich, ODFW
Greg Wilke, PSMFC
Nancy Leonard, PSMFC
Van Hare, PSMFC
Meg Dethloff, PNAMP/USGS
Doug Threloff, USFWS
Ethan Crawford

Products: Draft recommendations for consideration by StreamNet

Super Population – HLI CAX (Task 6)

StreamNet HLI Display (Task 7)

Task Group Recommendations for Consideration by StreamNet

1) General recommendations
   - Remove “Non-TRT” in population names and keep the ESA status field
   - Provide a filter for HLIs data categories
   - Provide additional filters to sort content

2) Subpopulation HLIs data
   - Include with population scale HLIs data, with population scale estimates appearing at the top of the list.
   - Suggestions on how to label subpopulation scale HLIs and their display.

3) Populations without data
   - Add content about status of data availability for that population
     - Example: Extirpated, no data available; Monitoring exists but data are not currently available on this site and provide the user information about where these data can be accessed
   - Suggestions on where to obtain and how to display this new information

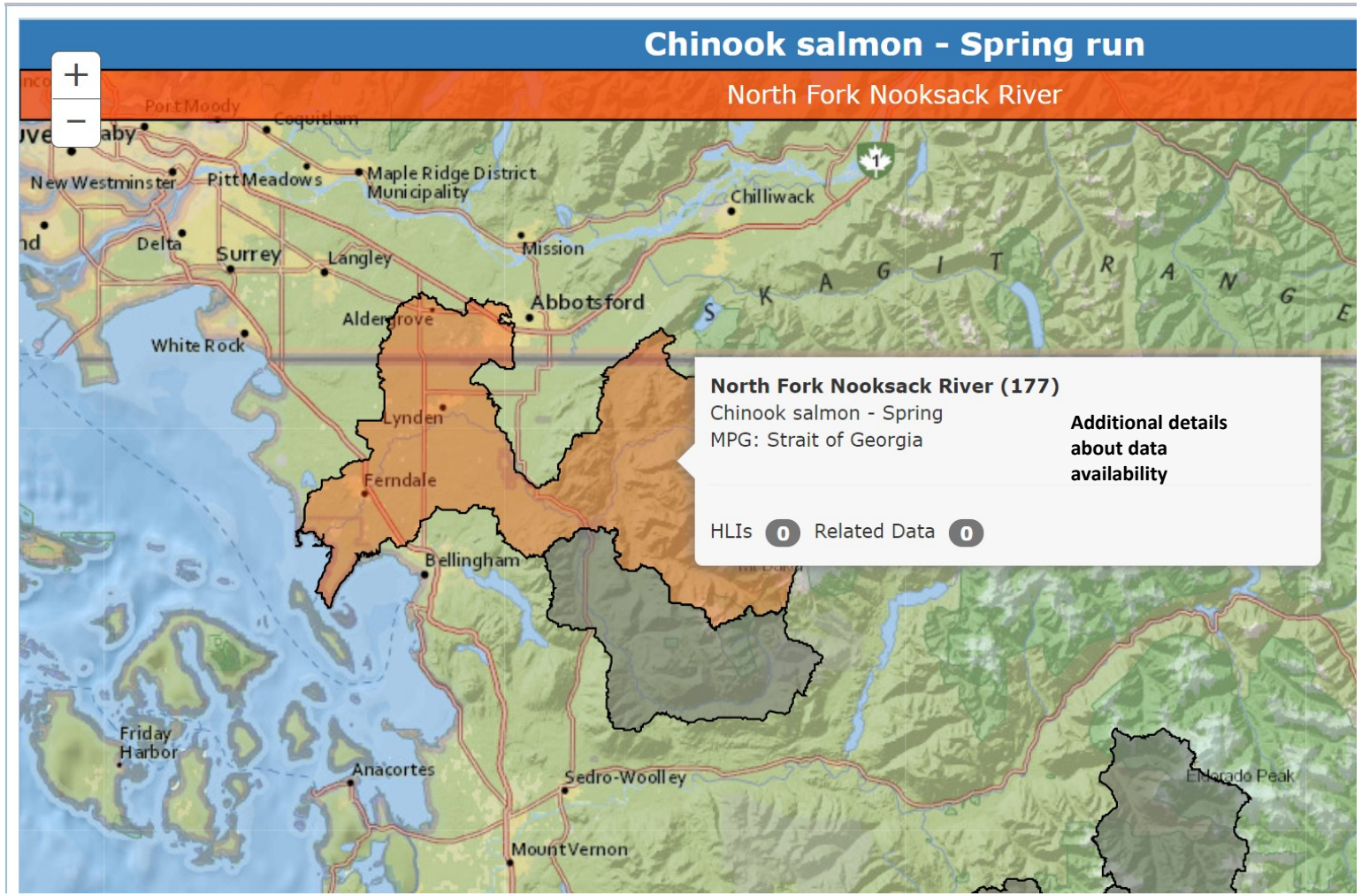
4) Superpopulations and other groupings
   - Separate out HLI estimates for ‘superpopulations’ or other approved groupings from the population/subpopulation estimates
   - Suggestions provided on how to display these different groupings
     - Example a ‘superpopulation’ represents fish from multiple populations that are monitored as one group; MAFAC groupings represent summation of multiple HLI estimates.

StreamNet Proposed Approach to Address Task Group Recommendation #3

Super Population – HLI CAX (Task 6)

StreamNet HLI Display (Task 7)

Populations without data

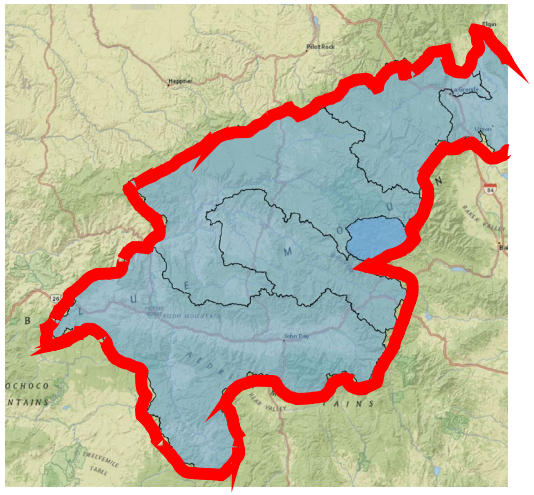


StreamNet Proposed Approach to Address Task Group Recommendation #4

Super Population – HLI CAX (Task 6)

StreamNet HLI Display (Task 7)

Superpopulations and other groupings



Fish Monitoring Work Group Meetings

- Three or four times per year
- Each meeting will include:
  - Information sharing: emerging technology/hot topics
  - Progress on Tasks
  - Discussion of what's on the horizon/new ideas
- Next Meeting October 21 10:00-11:30

Task Meetings

At the discretion of the Task leader and/or online in Teams

StreamNet & CAP Teams

Mike Banach

CAP DES Development Team

StreamNet Technical Team

StreamNet DES Development Team

StreamNet and CAP Teams

- StreamNet teams
  - SNEC (Executive Committee)
  - SNSC (Steering Committee)
  - SN Technical team
  - SN DDT (DES development team)
    - A subset of the technical team
    - Consults others for help when needed

- CAP teams
  - Core team
    - Creates & directs 5-year plans
    - Directs outside requests to appropriate CAP groups
    - Decides DES data categories
    - Conducts occasional workshops
  - CAP DDT (DES development team)
    - Participants can vary for specific topics
    - Can consult PNAMP FMWG for help if needed

CAP DDT

- Charter finalized May 4, 2021
- Co-Chair volunteer from Primary Representatives for about two years
- Co-Chair responsibilities include
  - Participate in FMWG related to DES proposals
  - Work with Chair to convene CAP DDT meetings and assists with tasks
  - Assist Chair with ad hoc work groups and conveying products / recommendations
  - Work with Chair to develop DESs
  - Support, as needed, preproduction testing
  - Conduct outreach with the Chair to data providers as needed
- ***Need to identify the first co-chair!***

CAP DDT – Next Tasks

Current DES proposals

- Priority 1: Add TrendID to HLI tables
- Priority 2: Break age data into its own table
- Priority 3: Better define "smolt equivalent" (FMWG first)
- "Null record" type fields for confidence limits, age data, MethodNumber
- Next meeting a.s.a.p., to accomplish priority #1 and start on priority #2. Priority #3 right on their heels.

StreamNet Tech Team & DDT – Next Tasks

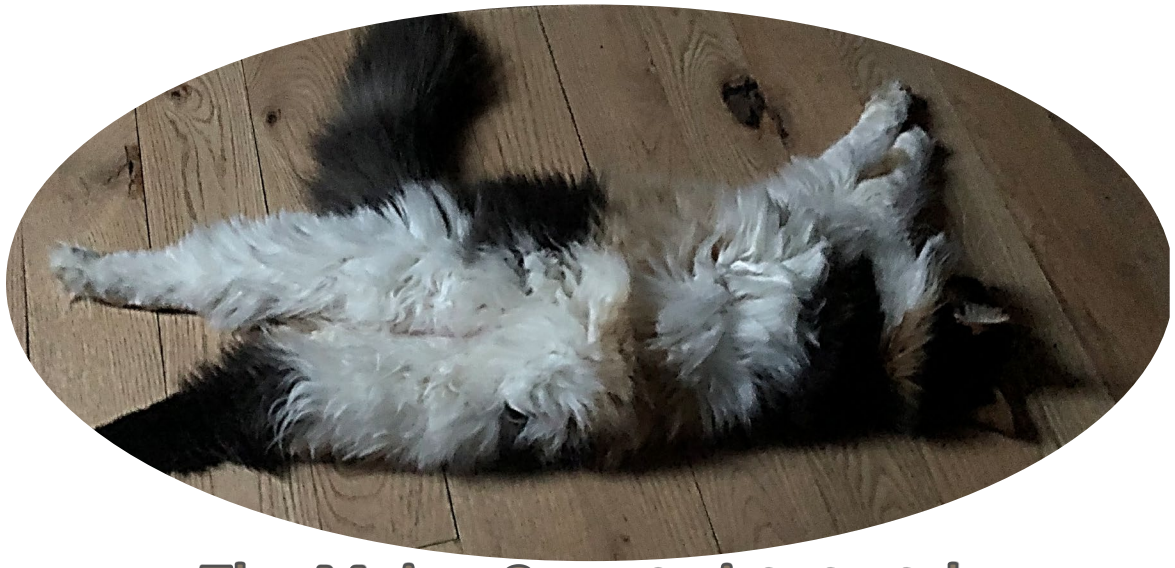
Current topics

- Retiring deleted TrendIDs
- How are we submitting & processing references these days?
- Locations: current situation and where do we go from here?
- Dam table & hatchery table: current data and where do we go from here?
- Next meeting hopefully this fall.

Stretch Break

be back in 5 minutes

Back at 10:20



The Maine Coon twist stretch

Quality Control

GIS Data and CAP Fish HLIs

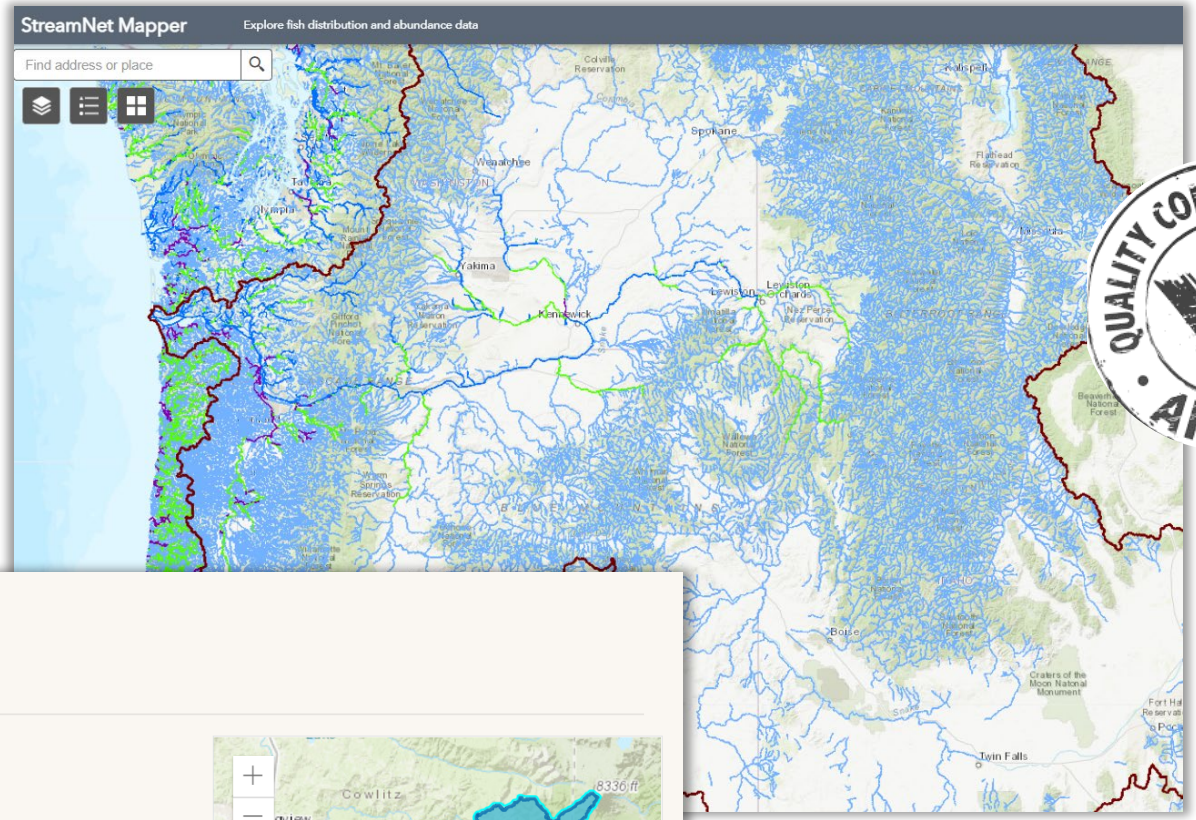
Van, Nancy

Quality Control – GIS

Van

<u>Planned updates and QA/QC</u>

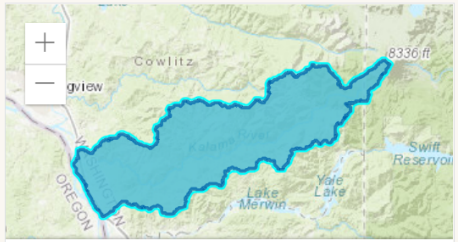
- Fish distribution refresh
- Population boundaries
- Fish monitoring locations (aka ‘trend locations’)



Back to HLI Search | Download

Natural Origin Spawner Abundance (NOSA)

Population Name: Kalama River - fall Chinook salmon
Waterbody: Kalama River **Run**: Fall
Contact Agency: Washington Department of Fish and Wildlife (See download for contact info)
Pop fit: Same **Best Value**: Yes **Method Number**: 1
Protocol/Method:
Method URL:
https://fortress.wa.gov/dfw/score/score/species/population_details.jsp?stockId=1595



Kalama River - fall Chinook salmon

Quality Control – GIS

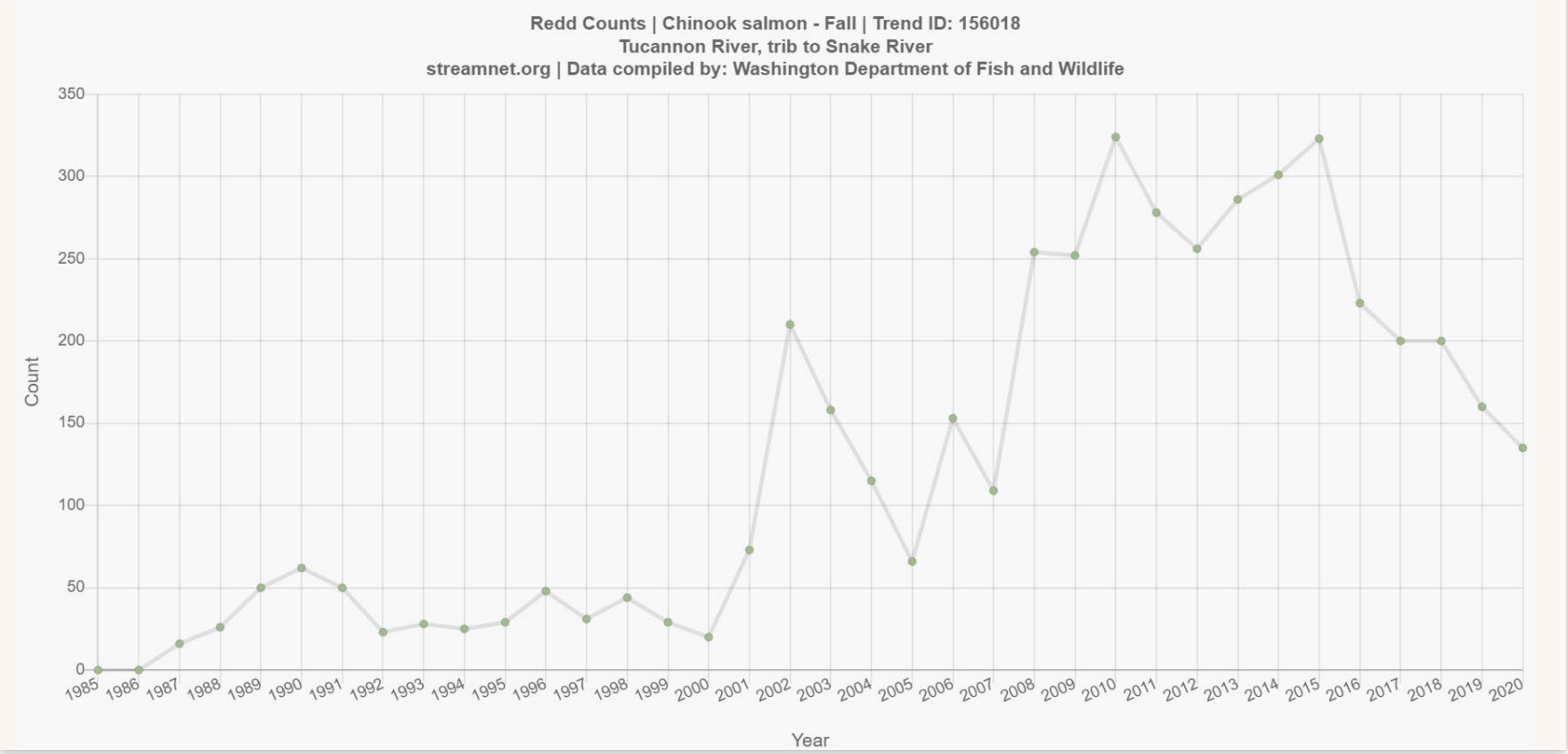
streamnet.org/data/trends/trend/?trendid=156018

Trend search

Download

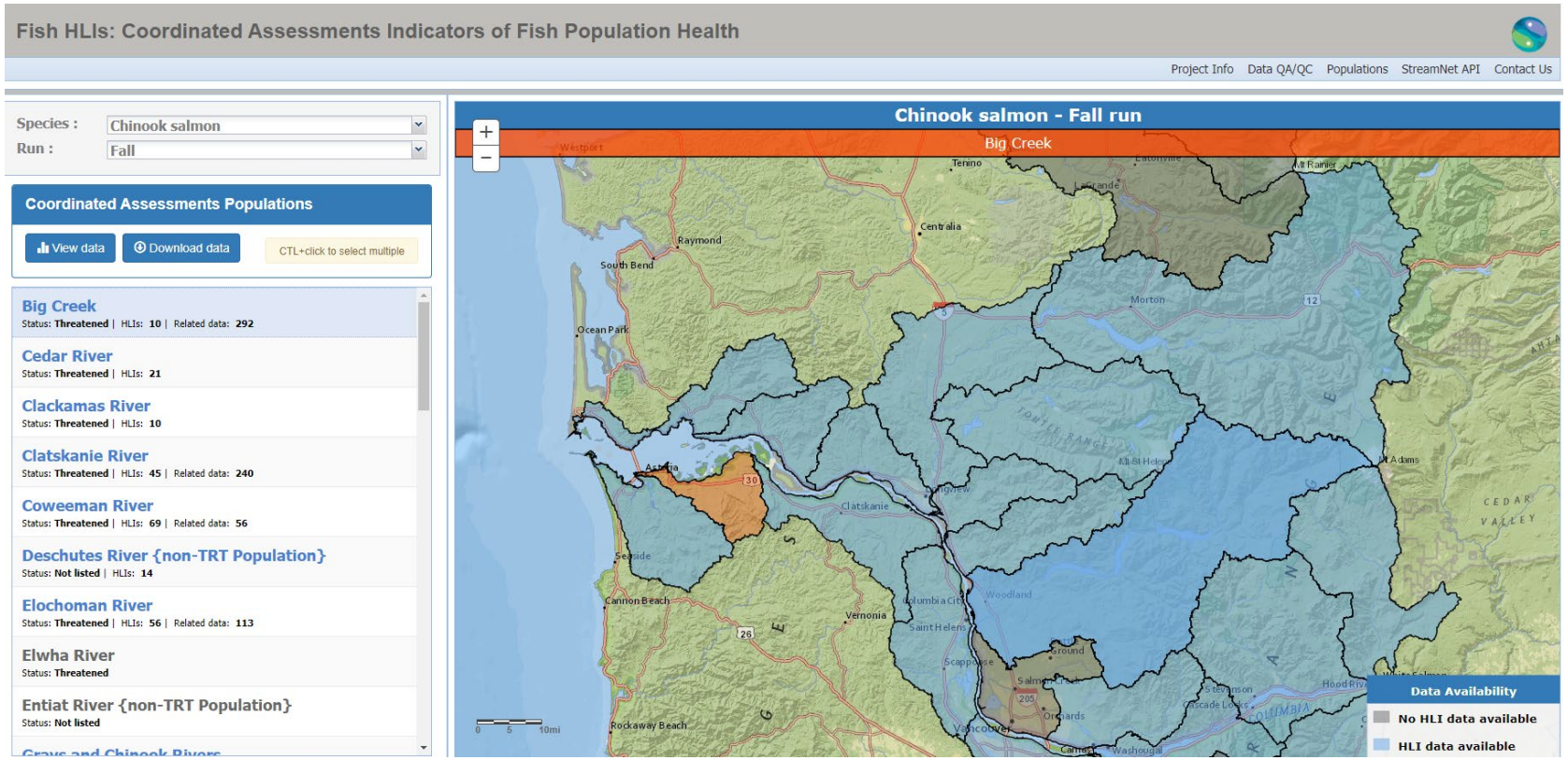
Redd Counts | Trend ID: 156018 | Compiler: WDFW

Species: Chinook salmon
Run: Fall
Subrun: N/A
Stream: Tucannon River, trib to Snake River
River Mile: from RM 0 to RM 62.13
Count Type: Redd count
Production: Mixed
Life Stage: Adult
Trend Comment:



Quality Control – CAP Fish HLIs

Nancy



Purpose of CAP Fish HLIs Quality Control

Conduct review of data and current processes and issues, and recommend approach:

- Ensure fields and content meet expectations
- Fields are value-added
- Available content is submitted to correct fields
- Supporting content is provided and stable (URLs work)
- FAIR principles are applied
- Downloaded content is understood by data consumers
- Supporting content/metadata/URLs provide clarity

Information Sources

- 2019 QA/QC procedures summaries by StreamNet-funded members
- Summary of 2021 interviews with data providers and data consumers
- Manual review of CAP Fish HLI records, focused on NOSA and OutJuv HLIs

Draft StreamNet QA/QC Plan

Quality Assurance

- Describes general data QA steps/tasks to be completed by all data stewards in data collection, entry, and compilation in preparation for submitting to StreamNet/CAP Fish HLIs
- Reflects what is or should be done

- Provides a consistent set of tasks across all data stewards
- General guidance on the need to highlight reoccurring problematic fields
- Identifies current problematic fields and issues to be addressed

Draft StreamNet QA/QC Plan

Quality Assurance	Quality Control

•Describes general data QA steps/tasks to be completed by all data stewards in data collection, entry, and compilation in preparation for submitting to StreamNet/CAP Fish HLIs
•Reflects what is or should be done
	•Describes tasks during and post-data submittal
	•Reflects existing validation rules during submittal
	•Describes new visual QC procedure that
	  •builds/expands on current data stewards' tasks
	  •adds independent reviewers' tasks
	  •Clarifies SN-PSMFC tasks
	•Builds on timestamps to document QC checks

•Provides a consistent set of tasks across all data stewards
•General guidance on the need to highlight reoccurring problematic fields
•Identifies current problematic fields and issues to be addressed

Draft StreamNet QA/QC Plan

Quality Assurance	Quality Control	Quality Data Visualization

•Describes general data QA steps/tasks to be completed by all data stewards in data collection, entry, and compilation in preparation for submitting to StreamNet/CAP Fish HLIs
•Reflects what is or should be done
	•Describes tasks during and post-data submittal
	•Reflects existing validation rules during submittal
	•Describes new visual QC procedure that
	  •builds/expands on current data stewards' tasks
	  •adds independent reviewers' tasks
	  •Clarifies SN-PSMFC tasks
	•Builds on timestamps to document QC checks
		•Describes considerations and content improvement to more effectively communicate data
		•Builds on current approach

•Provides a consistent set of tasks across all data stewards
•General guidance on the need to highlight reoccurring problematic fields
•Identifies current problematic fields and issues to be addressed

Draft StreamNet QA/QC Plan

Quality Assurance

- Describes general data QA steps/tasks to be completed by all data stewards in data collection, entry, and compilation in preparation for submitting to StreamNet/CAP Fish HLIs
- Reflects what is or should be done

Quality Control

- Describes tasks during and post-data submittal
- Reflects existing validation rules during submittal
- Describes new visual QC procedure that
  - builds/expands on current data stewards' tasks
  - adds independent reviewers' tasks
  - Clarifies SN-PSMFC tasks
- Builds on timestamps to document QC checks

Quality Data Visualization

- Describes considerations and content improvement to more effectively communicate data
- Builds on current approach

Issues Beyond QA/QC Data Flow Tasks

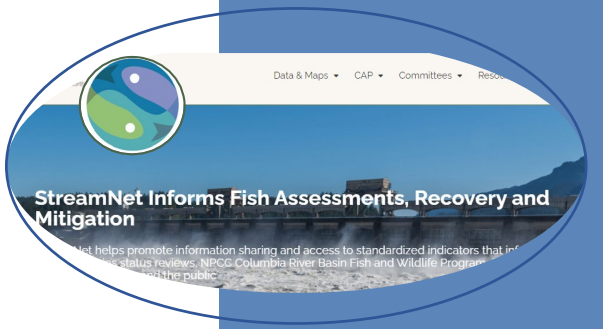
- Describes issues that need to be addressed to strengthen data flow and use that are beyond the data stewards' responsibilities
- Proposes existing groups that may be best suited
  - SN DDT
  - CAP DDT
  - PSMFC SN staff
  - PNAMP FMWG
  - Collaboration with PNAMP and CBF&W Library

- Provides a consistent set of tasks across all data stewards
- General guidance on the need to highlight reoccurring problematic fields
- Identifies current problematic fields and issues to be addressed

Next Steps

- **October 4**
  - Share draft QA/QC Procedures for review with SN SC members, CAP DDT, ITMD members
- **November 1**
  - Input received
  - Additional remote meetings to discuss items that can't be easily addressed
- **December 6**
  - Revised QA/QC Procedures sent for last review to same groups
  - Draft implementation plan for CY22 and onwards sent for review
- **December 20**
  - Input on revised document and draft implementation plan
- **January 10**
  - Finalized QA/QC Procedures
  - Revised CY22 and onwards implementation plan outlined (plan remains flexible)
    - Tasks for data stewards
    - Tasks to be addressed by PSMFC-SN and PNAMP/Library collaborations
    - Tasks to be addressed via existing SN/CAP Teams
    - PNAMP Fish Monitoring Work Group

NPCC salmon and steelhead HLI task request update



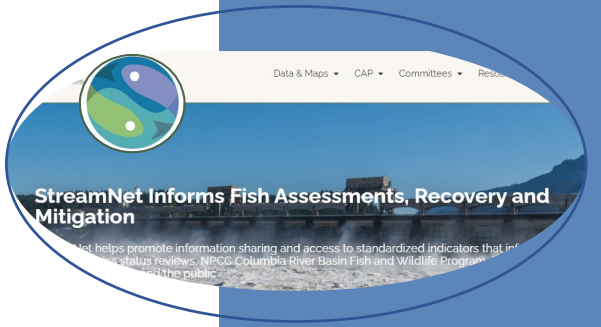
Mike

NPCC Request

1) Summarize by populations within MAFAC stock groups indicating the number that has CAP NOSA and/or escapement estimates

- Whether the estimates represent a whole or partial population
- Whether the estimates include or excludes jacks

2) Summarize by populations within MAFAC stock groups trends indicating the number that have trends data relating to adult abundance



Note: the below additional requests are being addressed through FMWG Data Display Task Group Recommendations (earlier agenda item)

- For populations with no data in StreamNet/CAP indicate known availability of data (e.g. none, located elsewhere)
- Display the population polygons for the 216 extant populations and 117 extirpated populations, some of which are being reintroduced (total = 333).
- Display the polygons for 27 MAFAC stocks.

NPCC Wild Fish Indicators Group (S1-3)		StreamNet / CAP Fish HLI			
Group	Number of populations (tot with blocked)	Group	Number of pop with data	Number of pop without data	Comment
Lower Columbia Spring Chinook	9	CBPTF Lower Columbia Spring Chinook group	6	3	
Lower Columbia Fall chinook (tules)	21	CBPTF Lower Columbia Fall Chinook (tules) group	20	1	
Lower Columbia Fall Chinook (late brights)	2	CBPTF Lower Columbia Fall Chinook (late bright) group	2	0	
Lower Columbia Fall (brights)	--	--	--	--	We suspect this is a duplicate
Lower Columbia Coho	25	CBPTF Lower Columbia Coho group	23	2	Includes Willamette.
Lower Columbia Chum	16	CBPTF Lower Columbia Chum group	5	12	StreamNet splits Cowlitz into fall & SU
Lower Columbia Summer Steelhead	6	CBPTF Lower Columbia Summer Steelhead group	26	4	Currently lumped in StreamNet
Lower Columbia Winter Steelhead	17	CBPTF Lower Columbia Winter Steelhead group			
Southwest Washington Winter Steelhead	7	CBPTF SW Washington Winter Steelhead group			
Mid Columbia Spring Chinook	14	CBPTF Mid-Columbia Spring Chinook group	6	6	
Mid Columbia Summer/Fall Chinook	1	CBPTF Mid-Columbia Summer/Fall Chinook group	0	1	We presume this is Chinook,
Mid Columbia Coho	5	[Not in CAP Fish HLI.]	0	5	Not in CAP, "Reintroduced HOF"
Mid Columbia Sockeye	2	[No populations specified in CAP Fish HLI.]	0	2	Not in CAP, Historical/Reintroduced HOF
Mid Columbia Summer Steelhead	20	CBPTF Mid-Columbia Summer Steelhead group	17	3	
Upper Columbia Spring Chinook	4 (5)	CBPTF Upper Columbia Spring Chinook group	3	2	StreamNet splits Okanogan into native and reintroduced.
Upper Columbia Summer Chinook	7 (8)	CBPTF Upper Columbia Summer Chinook group	3	1	
Upper Columbia Fall Chinook	3 (4)	CBPTF Upper Columbia Fall Chinook group	0	1	
Upper Columbia Coho	4 (5)	[No populations specified in CAP Fish HLI.]	0	4	Not in CAP, "Reintroduced HOF"
Upper Columbia Sockeye	2 (3)	CBPTF Upper Columbia Sockeye group	0	2	
Upper Columbia Summer Steelhead	5	CBPTF Upper Columbia Summer Steelhead group	4	1	
Snake River Spring/Summer Chinook	68	CBPTF Snake River Spring/Summer Chinook group	37	15	
Snake River Fall Chinook	2	CBPTF Snake River Fall Chinook group	1	1	
Snake River Coho	5	[No populations specified in CAP Fish HLI.]	0	5	Not in CAP, "Reintroduced HOF"
Snake River Sockeye	9	CBPTF Snake River Sockeye group	1	5	
Snake River Summer Steelhead	26	CBPTF Snake River Summer Steelhead group	23	3	
Upper Willamette Spring Chinook	7	CBPTF Willamette Spring Chinook group	7	0	
Upper Willamette Winter Steelhead	4	CBPTF Willamette Winter Steelhead group	4	0	
Total	291	Total	186	63	

Methodology

HLI data (NOSA/escapement):

- The summary data are derived for individual populations for all populations in CBPTF/MAFAC groups.
  - The list of populations was derived from the CBPTF/MAFAC groups.
- When a population is included in a superpopulation such data are not included in the summaries. For example, if a NOSA value is available for the superpopulation (population A) + (population B):
  1. if neither of those populations have other data specific to themselves, then neither population is included in these summaries.
  2. if only one of the populations has other data specific to itself, then only that population is included in these summaries.
  3. if both populations have other data specific to themselves, then both populations are included in these summaries.
  4. data from the superpopulation itself is never included.
- Number of records shown reflects **ONLY THOSE RECORDS** with NOSA/escapement estimates.
  - If estimates were not calculated for a year then they are **NOT** included in the totals. Because of this, the year range is sometimes larger than the number of records reported.
- Populations may have NOSA/escapement estimates at the whole population scale, for a portion of the population, or both.
  - These are listed separately, and the total number of records reported.
- When NOSA/escapement estimates are calculated for both with and without jacks, then years of data are shown for each.

Methodology

- **Fish monitoring data ("trends")**
- Populations from all CBPTF/MAFAC groups were included.
- Number of records shown includes **ALL** records, including those when no count was made.
  - If counts were not made for a year then they **ARE** included in the totals.
  - Further refinement will be needed if the exact number of estimates is desired.
- Number of records shown reflects only those records tied to a population in the CBPTF/MAFAC groups.
  - Most monitoring (trend) data are not tied to a CAP fish HLI population.
  - Thus, other data do exist for most or all populations, even if not included here.
- Hatchery return data are not included.
- The fish monitoring data are usually at geographic scales much smaller than a population.
  - Most are indexes of abundance, not abundance estimates.

Organization of Summary Data by Populations

- MAFAC stock groups with count of populations that have CAP Fish NOSA estimate and/or escapement estimate, with and without jacks

					Geographic scale: Whole Population						Geographic scale: Partial Population					
SuperPopID	CA PopID	MAFAC Group	CA Population Name	Total Records	Estimate Type	From Year	To Year	Total Records	Including Jacks	Excluding Jacks	Estimate Type	From Year	To Year	Total Records	Including Jacks	Excluding Jacks
1033	258	CBPTF Lower Columbia Chum group	Big Creek - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	267	CBPTF Lower Columbia Chum group	Clackamas River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	259	CBPTF Lower Columbia Chum group	Clatskanie River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	252	CBPTF Lower Columbia Chum group	Cowlitz River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	344	CBPTF Lower Columbia Chum group	Cowlitz River - summer Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	260	CBPTF Lower Columbia Chum group	Elochoman River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	261	CBPTF Lower Columbia Chum group	Grays and Chinook Rivers - fall Chum salmon	19	NOSA	2001	2019	19	0	19	--	--	--	0	0	0
1033	253	CBPTF Lower Columbia Chum group	Kalama River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	254	CBPTF Lower Columbia Chum group	Lewis River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	265	CBPTF Lower Columbia Chum group	Lower Gorge Tributaries - fall Chum salmon	20	NOSA	2000	2019	20	0	20	--	--	--	0	0	0
1033	262	CBPTF Lower Columbia Chum group	Mill, Abernathy, and Germany Creeks - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	255	CBPTF Lower Columbia Chum group	Salmon Creek - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	256	CBPTF Lower Columbia Chum group	Sandy River - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	263	CBPTF Lower Columbia Chum group	Scappoose Creek - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0
1033	266	CBPTF Lower Columbia Chum group	Upper Gorge Tributaries - fall Chum salmon	82	NOSA	1938	2019	82	0	82	--	--	--	0	0	0
1033	257	CBPTF Lower Columbia Chum group	Washougal River - fall Chum salmon	18	NOSA	2002	2019	18	0	18	--	--	--	0	0	0
1033	264	CBPTF Lower Columbia Chum group	Youngs Bay - fall Chum salmon	0	--	--	--	0	0	0	--	--	--	0	0	0

- MAFAC stock groups with count of populations that have trends data sets relating to adult abundance estimates or counts

SuperPopID	CA PopID	MAFAC GROUP	CA Population Name	Data Category	From Year	To Year	Records
1033	261	CBPTF Lower Columbia Chum group	Grays and Chinook Rivers - fall Chum salmon	Spawner Abundance Est.	1945	2019	229
1033	261	CBPTF Lower Columbia Chum group	Grays and Chinook Rivers - fall Chum salmon	Spawner Counts	1985	2011	57
1033	265	CBPTF Lower Columbia Chum group	Lower Gorge Tributaries - fall Chum salmon	Spawner Abundance Est.	1957	2019	120
1033	265	CBPTF Lower Columbia Chum group	Lower Gorge Tributaries - fall Chum salmon	Spawner Counts	1957	2011	54
1034	281	CBPTF Lower Columbia Coho group	Big Creek - late Coho salmon	Spawner Counts	2002	2019	36
1034	292	CBPTF Lower Columbia Coho group	Clackamas River - early and late Coho salmon	Dam / Weir Counts	1957	2020	173
1034	292	CBPTF Lower Columbia Coho group	Clackamas River - early and late Coho salmon	Redd Counts	2001	2001	1
1034	292	CBPTF Lower Columbia Coho group	Clackamas River - early and late Coho salmon	Spawner Counts	1949	2017	181
1034	282	CBPTF Lower Columbia Coho group	Clatskanie River - late Coho salmon	Spawner Counts	2002	2020	74
1034	288	CBPTF Lower Columbia Coho group	Lower Gorge Tributaries - late Coho salmon	Spawner Abundance Est.	1945	1989	45
1034	288	CBPTF Lower Columbia Coho group	Lower Gorge Tributaries - late Coho salmon	Spawner Counts	1950	1990	73
1034	273	CBPTF Lower Columbia Coho group	North Fork Lewis River - early and late Coho salmon	Spawner Abundance Est.	1944	1989	46
1034	290	CBPTF Lower Columbia Coho group	Oregon Upper Gorge Tributaries and Hood River - early Coho salmon	Dam / Weir Counts	1962	2009	79
1034	290	CBPTF Lower Columbia Coho group	Oregon Upper Gorge Tributaries and Hood River - early Coho salmon	Fish Counts	1994	2019	168
1034	276	CBPTF Lower Columbia Coho group	Sandy River - early and late Coho salmon	Dam / Weir Counts	1957	2007	118

Summary of populations with adult abundance data: NOSA / escapement HLI, and/or trends

MAFAC Group (20 of 24 MAFAC Groups)	Populations in Group	Count of populations with NOSA / Escapement	Count of populations with trend data	Count of populations with both
CBPTF Lower Columbia Chum group	17	4	3	2
CBPTF Lower Columbia Coho group	25	23	13	13
CBPTF Lower Columbia Fall Chinook (late bright) grp	2	2	2	2
CBPTF Lower Columbia Fall Chinook (tules) group	21	19	17	16
CBPTF Lower Columbia Spring Chinook group	9	6	5	5
CBPTF Lower Columbia Steelhead group	30	24	18	16
CBPTF Mid-Columbia Spring Chinook group	12	3	3	0
CBPTF Mid-Columbia Summer Steelhead group	20	17	11	11
CBPTF Mid-Columbia Summer/Fall Chinook group	1	0	0	0
CBPTF Snake River Fall Chinook group	2	0	1	0
CBPTF Snake River Sockeye group	6	1	1	1
CBPTF Snake River Spring/Summer Chinook group	52	35	35	33
CBPTF Snake River Summer Steelhead group	26	22	12	11
CBPTF Upper Columbia Fall Chinook group	1	0	0	0
CBPTF Upper Columbia Sockeye group	2	0	0	0
CBPTF Upper Columbia Spring Chinook group	5	3	3	3
CBPTF Upper Columbia Summer Chinook group	4	2	3	2
CBPTF Upper Columbia Summer Steelhead group	5	4	3	3
CBPTF Willamette Spring Chinook group	7	5	7	5
CBPTF Willamette Winter Steelhead group	4	4	4	4
Grand Total	**251**	**174**	**141**	**127**

FY 2022 StreamNet Budget

Nancy

FY 22 Overview

- BPA-StreamNet $2,072,446

Colville Tribes	$22,586	WDFW	$468,050
Sitka	$67,500	PSMFC direct	$431,935
IDFG	$324,694	Other subcontracts	$0
MFWP	$165,049	PSMFC in-direct/overhead	$75, 867
ODFW	$516,765		

(ODFW incl $53,061 portfolio funds)

- IJFA-StreamNet $87,254 (pending)

  Supports PSMFC staff and subcontracts supporting SN-CAP Technical Support (Ray Beamesderfer), Shoshone Bannock Tribes data mgmt./flow, and PNAMP facilitation and coordination

- EPA-StreamNet $194,814 (FY21, 22, 23 combined)

  Supports PSMFC staff and subcontracts supporting IDFG and ODFW

  Does not include EPA WA GSRO subcontracts with WDFW, Colville Tribes, and PNAMP

- StreamNet Program manager ~4-months of StreamNet Program manager covered by other projects

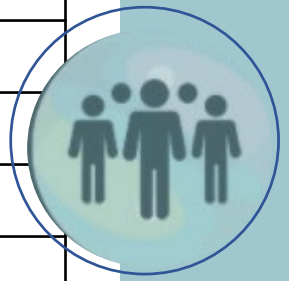
Steering Committee Member Updates

All

Steering Committee Member Updates

(Follow random order shown below, **verbal updates)**

Entity (random order)	Steering Committee member
MFWP	Dawn Anderson
WDFW	Brodie Cox
CRITFC	Sheryn Olson (ITMD), Tami Wilkerson (CBF&W Library)
IDFG	Angie Schmidt, Evan Brown
NOAA-Fisheries	Mari Williams
ODFW	Cedric Cooney
Colville Tribes	John Arterburn, George Batten
USFWS	TBD
PNAMP	Jen Bayer
NPCC	Kris Homel, Mark Fritsch
BPA	Tom Pansky, Russell Scranton, Matthew Schwartz
StreamNet (PSMFC)	Nancy, Greg, Mike, Van



2022 Spring StreamNet Steering Committee Meeting

identify dates to avoid for doodle pool

CY2021 Annual report to BPA timeline
- Feb 4, online form input submitted
- Feb 23, 1st draft out for review
- SC, discuss first draft Feb 28-March18?
- March 21, input due on draft
- March 28, final draft shared
- April 4, report submitted to BPA

Adjourned