

Informal Hatchery Workgroup

January 8, 2024



Northwest **Power** and
Conservation Council

Meeting Logistics

- Conference room attendees
 - Use a microphone at the table so that virtual attendees can hear you.

- Virtual attendees
 - Turn camera on to break into the discussion.

Agenda

1:00 PM (PDT)	Welcome and Introductions
---------------	---------------------------

1:15 PM - 3:00 PM

1. Informal Hatchery Workgroup - Background and Progress
--

2. Brief review of the Workgroup's Hatchery Website

3. Update - Program Tracker Hatchery Tool (<i>draft</i>)
--

4. Next steps and Discussion

5. Update - Program Tracker Hatchery Tool as a resource for the Council's Program Performance effort
--

Background

- Hatchery information and data availability need identified by past Reviews (2011 RME & AP Category Review, Research Review, ISRP reviews - ISRP documents 2010-44A and 2018-8).
- Regional Coordination Forum support for a workgroup to focus on the Basin's hatcheries (2019).
 - Purpose and Importance
 - Mitigation and Conservation
 - Science and progress
- Informal Hatchery Workgroup formed (2019)

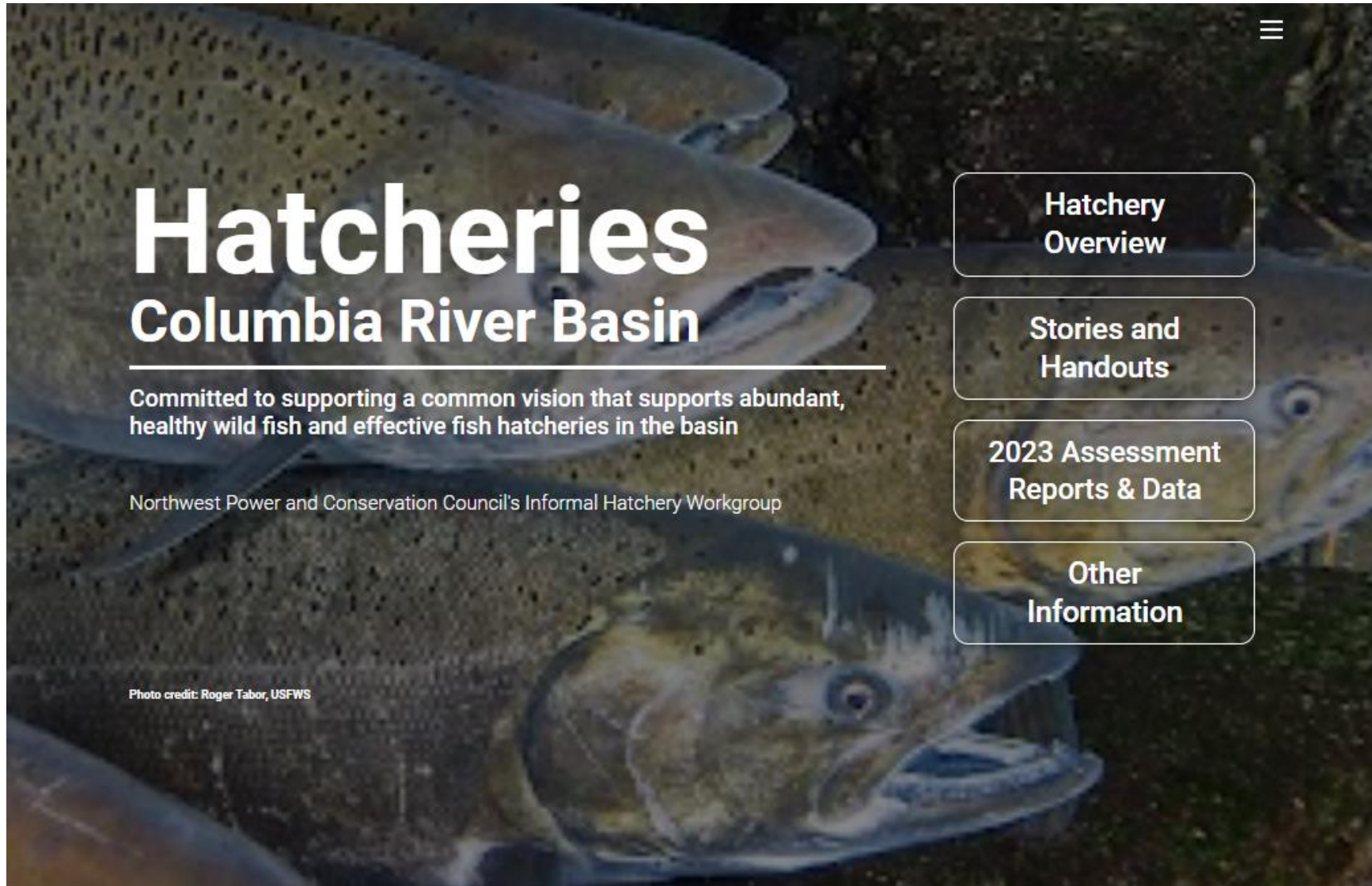
Workgroup progress

Informal Hatchery Workgroup

Meetings

- [February 2022](#)
- [September 2021](#)
- [May 2021](#)
- [December 2020](#)
- [September 2020](#)
- [March 2020](#) (DRAFT Story Map)
- [October 2019](#)
- [June 2019](#) (development of mission statement)
- [May 2019](#)

- 2019: Informal Hatchery Workgroup formed, developed [Mission Statement](#).
 - Focus on importance and success of artificial program activities in meeting mitigation and conservation objectives in the Columbia River Basin.
- 2020-2022: Developed website with story maps and handouts (Communication tool)
- Current: Hatchery information and data compilation (Tracking and reporting tool)



Update - hatchery information compilation

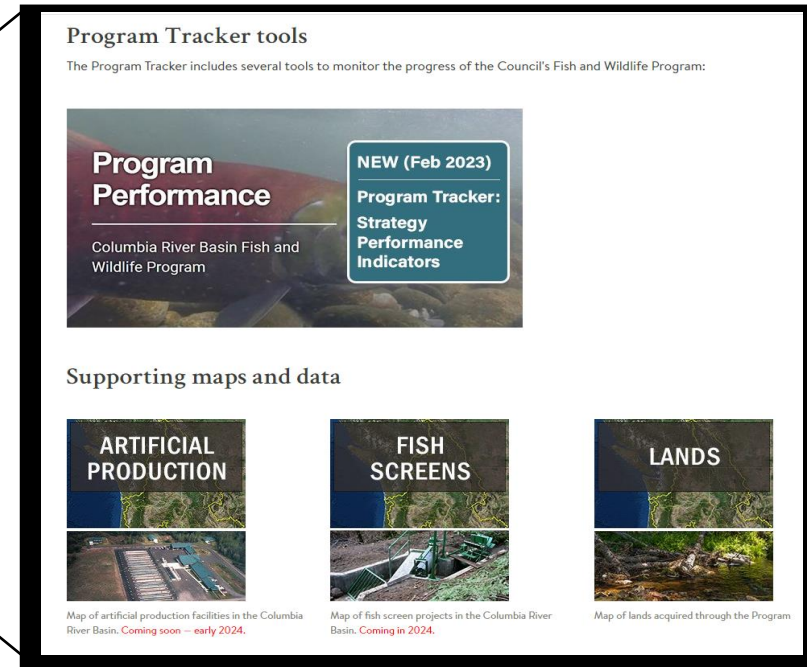
Refinement of Tools – Program Tools

IHWG's [Hatchery Website](#)



- Tool for **communicating** information on hatcheries broadly

Council's resource tools and maps ([Program Tracker](#))



- Tools for **tracking and reporting** FW Program information and performance
(Goals, Objectives and Indicators)

Program Tracker – Hatchery tool

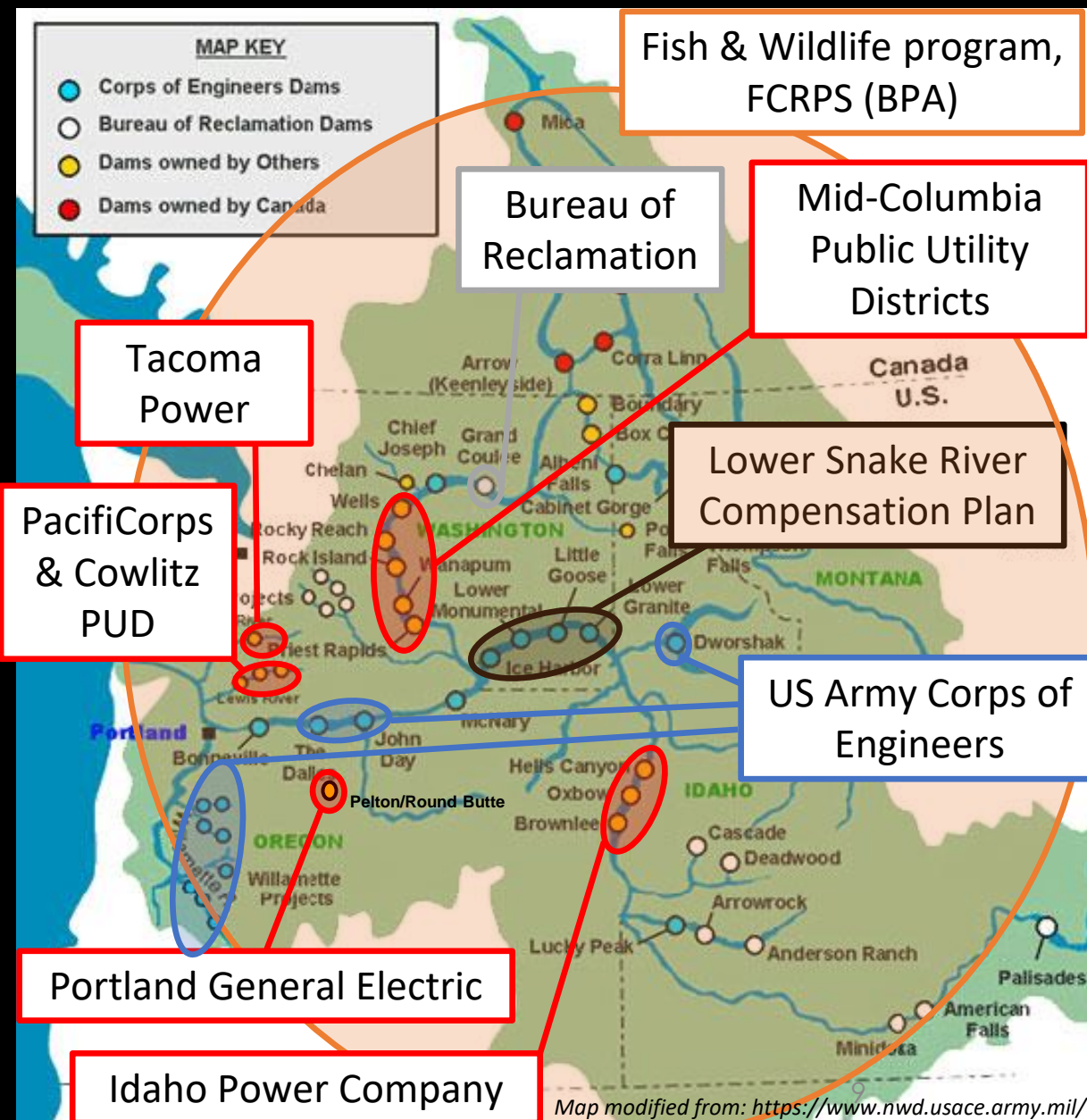
- Mapping tool developed to present information on the F&W Program's AP:
 - Asset management documents
 - Council and master planning documents
- Included most other AP facilities throughout the basin

Why expand tool and restructure?:

- Comprehensive tool for CRB-wide
- Align with organizational structure outlined by story maps (i.e., mitigation program)
 - Understand purpose of facilities and programs
 - Foundation for initiating staff work on Program Performance; Category assessment - AP



Twelve funding authorization agencies Hatchery production in the Columbia River Basin



Construction & operation of hydroelectric dams (9):

- LSRCP
- USACE
- BoR
- Private & Public Utilities
- BPA

Development Impacts (2):

- Mitchell Act
- US Fish and Wildlife Service

No mitigation requirement (1)

- Pacific Coastal Salmon Recovery Fund

Program Tracker – Hatchery tool

Expansion and Restructuring (2022-current):

✓ Phase I:

- Identify all CRB hatchery facilities
- Align with organizational structure outlined by story maps (i.e., mitigation program)

[Source info: *US v. Oregon Production Advisory Committee*]

✓ Phase II:

- Identify hatchery production associated with each mitigation program

[Source info: *US v. Oregon Production Advisory Committee and production tables in the agreement, Hatchery program managers, HGMPs, Agency websites*]

✓ Phase III:

- Compile and report data associated with F&WP hatchery production

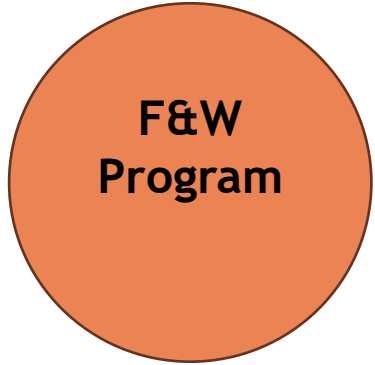
[Source info: *Hatchery program managers*]



✓ Complete
✓ In progress

Program Tracker – Hatchery tool

Phase I: Facilities and organizational structure



Information identified for each facility:

- Facility Purpose: Mitigation - Federal Columbia River Power System
- Mitigation Responsibility: BPA through the NPCC F&W Program
- Facility Funding Source: Bonneville Power Administration (“*project #*”)
- Species:
- Type: [*Hatchery or Satellite*]
- Operator:
- Year in Service:

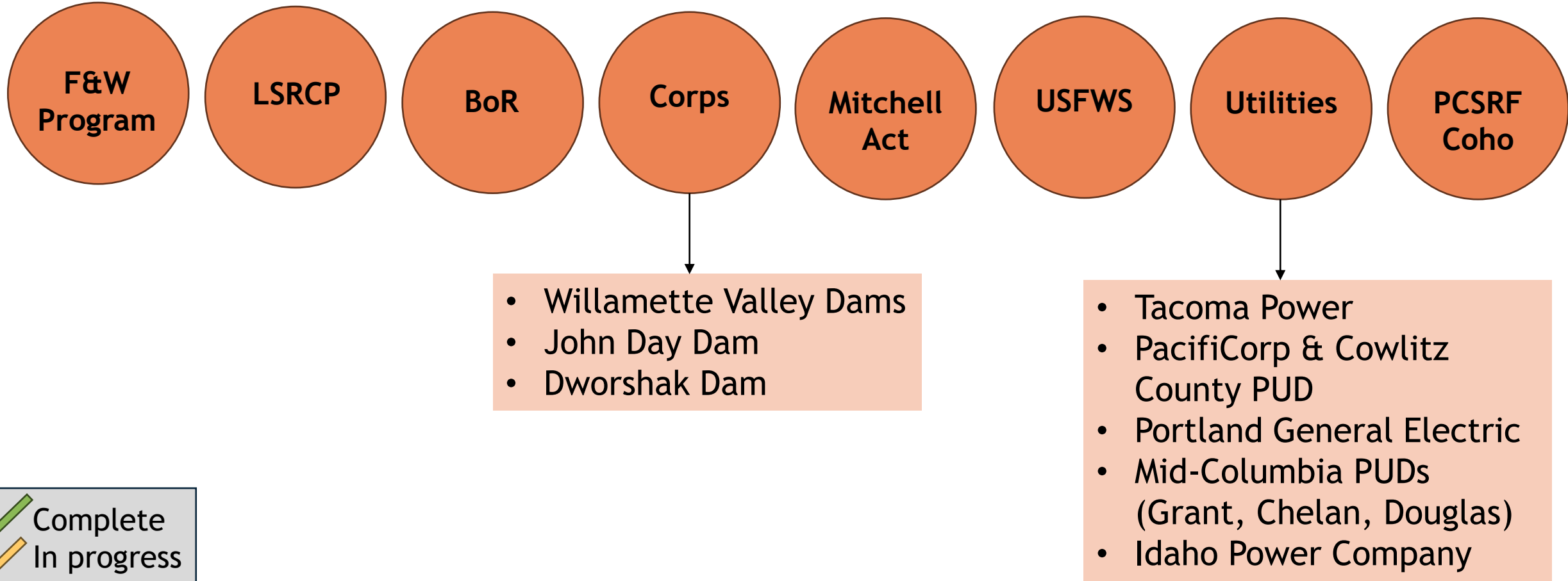
- 16 main hatcheries and their associated satellites ($n = 18$) were built/established as mitigation associated with the Federal Columbia River Hydropower System (CRB F&W Program)
 - 9 Anadromous
 - 7 Resident
- 16 main hatcheries used to support the F&W Program’s hatchery production (i.e., other mitigation authority - e.g., LSRCP, BoR, Mitchell Act, Utilities)*

* BPA funds O&M of production when fish on-station

Program Tracker – Hatchery tool

Current Status - January 2024:

✓ *Phase I: Facilities and organizational structure*



Program Tracker – Hatchery tool

Phase II: Hatchery production program information

Information identified for each hatchery production program:

- Hatchery Program Purpose
- Mitigation Responsibility
- Funding Source
- Management Objective
- ESA Listing Status
- Life Stage at Release

Example:

Umatilla River Steelhead

The Umatilla River Steelhead program was established to mitigate for the effects of the Federal Columbia River Power System on fish populations. The goals of the program are to prevent extirpation, enhance, and maintain Steelhead in the Umatilla River, and restore and maintain fisheries. Steelhead adult broodstock are collected at the Three Mile Dam Fish Facility and transferred to Minthorn Adult Holding for spawning. Steelhead are reared at the Umatilla Hatchery, and smolts are released in the Umatilla River at the Pendleton Acclimation Pond.

Hatchery program Purpose:

- Mitigation - Federal Columbia River Power System

Funding source:

- Bonneville Power Administration ([O&M projects: 1983-435-00, 1983-436-00, 1988-022-00, 1989-035-00, RM&E projects: 1989-024-01, 1990-005-00, 1990-005-01](#))

Mitigation responsibility:

- BPA through the NPCC F&W Program

Management objective:

- Fishery and Supplementation

ESA Listing Status:

- Threatened

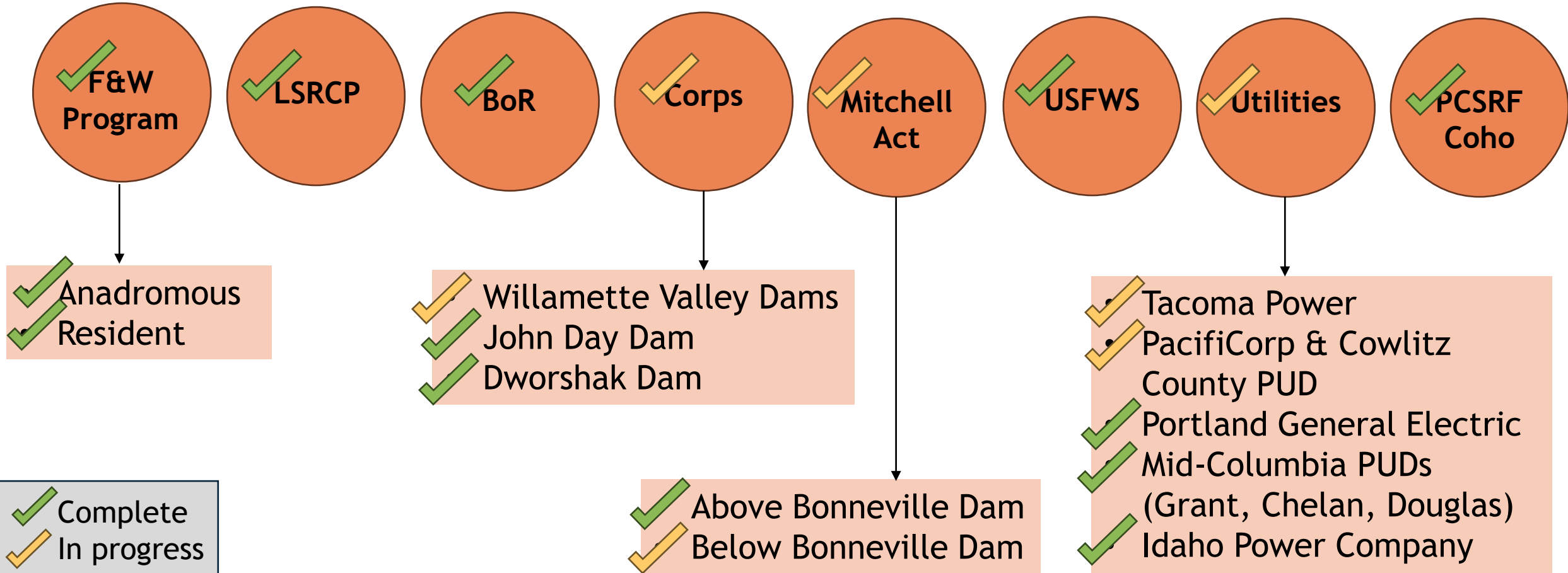
Life stage at release:

- Smolt

Program Tracker – Hatchery tool

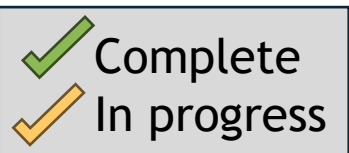
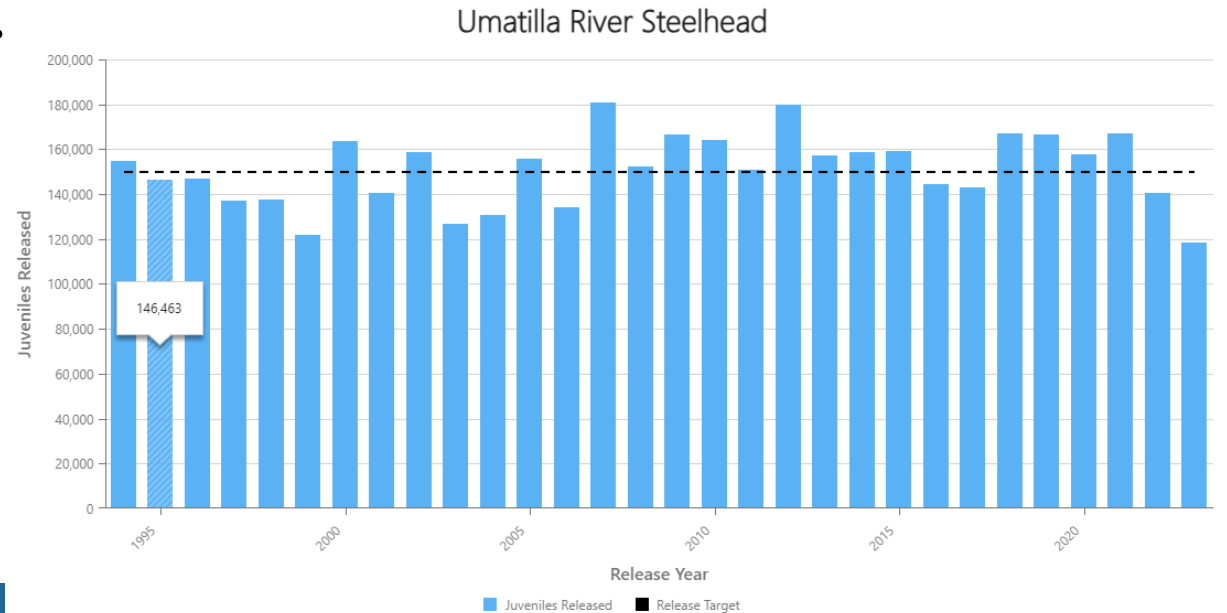
Current Status - January 2024:

✓ Phase II: Hatchery production program information



Program Tracker – Hatchery tool

- ✓ Phase III: *Compile and report data associated with F&WP hatchery production*
 - Phases I/II provide organizational structure and foundation for being able to compile and display data associated with hatchery programs.
 - Links to the Council’s Program Performance efforts.
 - Hatchery strategy performance indicators (SPIs) not yet identified but can begin with juvenile releases.



Program Tracker – Hatchery tool



[Tutorial](#) [Report data errors](#) [Help](#)

Artificial Production In Development

Facility Search

Program

Fish and Wildlife Program

Program Group

All

Species

All

Clear

Primary

Program Support

Facility (85)

Enumeration Facility

Cedar Flats

Acclimation

Chief Joseph Hatchery

Clark Flat Acclimation Pond

Colville Tribal Hatchery

Eagle Fish Hatchery

Easton Acclimation Pond

Imeqes Acclimation Pond

Jack Creek Acclimation Pond

Kalispel Tribal Hatchery

Chief Joseph Hatchery

Chief Joseph Hatchery and its associated satellite facilities (Omak and Riverside Acclimation Ponds) were established to mitigate for the effects of the Federal Columbia River Power System on fish populations. Additional satellite facilities include Similkameen, Tonasket, and St. Mary's Mission Acclimation Ponds. The Colville Tribes operate the hatchery on the Columbia River (RM 545) to meet trust obligations for ceremony, subsistence, health and cultural purposes in a manner consistent with conservation of natural populations, and increase harvest opportunities for all fisheries. The facility is used for adult holding, spawning, incubation, and rearing.



FACILITY INFORMATION

Facility Purpose	Mitigation - Federal Columbia River Power System
Mitigation Responsibility	BPA through the NPCC Fish and Wildlife Program
Facility Funding Source	Bonneville Power Administration (2003-023-00)
Species	Spring Chinook, Summer Chinook
Type	Hatchery
Operator	Confederated Tribes of the Colville Reservation
Year in Service	2013

Hatchery Production Programs

Chief Joseph Hatchery Spring Chinook

Releases

The Chief Joseph Hatchery Spring Chinook program was established to mitigate for the effects of the Federal Columbia River Power System on fish populations, in addition to impacts from specific dams in the Upper Columbia River (Wells, Rocky Reach, Rock Island, Priest Rapids, and Wanapum dams). The goal of this

Next steps – Program Tracker Hatchery tool

Near Term:

- *Phase II: Hatchery production program information*
 - Priority = F&W Program resident fish - Complete review with managers
 - Backburner = Other programs releasing anadromous fish below Bonneville Dam; new programs since 2020.
- *Phase III: Compile and report data associated with F&WP hatchery production*
 - Priority = Complete hatchery release data
 - Next step = work with managers and workgroup on identifying SPIs
- Add associated documents (F&WP) to Program Tracker hatchery tool
- Updates to Hatchery website:
 - Maps and handouts

Longer Term:

- Maintenance needs for the tool (e.g., QW consulting, StreamNet)
- Link to Hatchery Coordinated Assessments (HCAX) efforts?

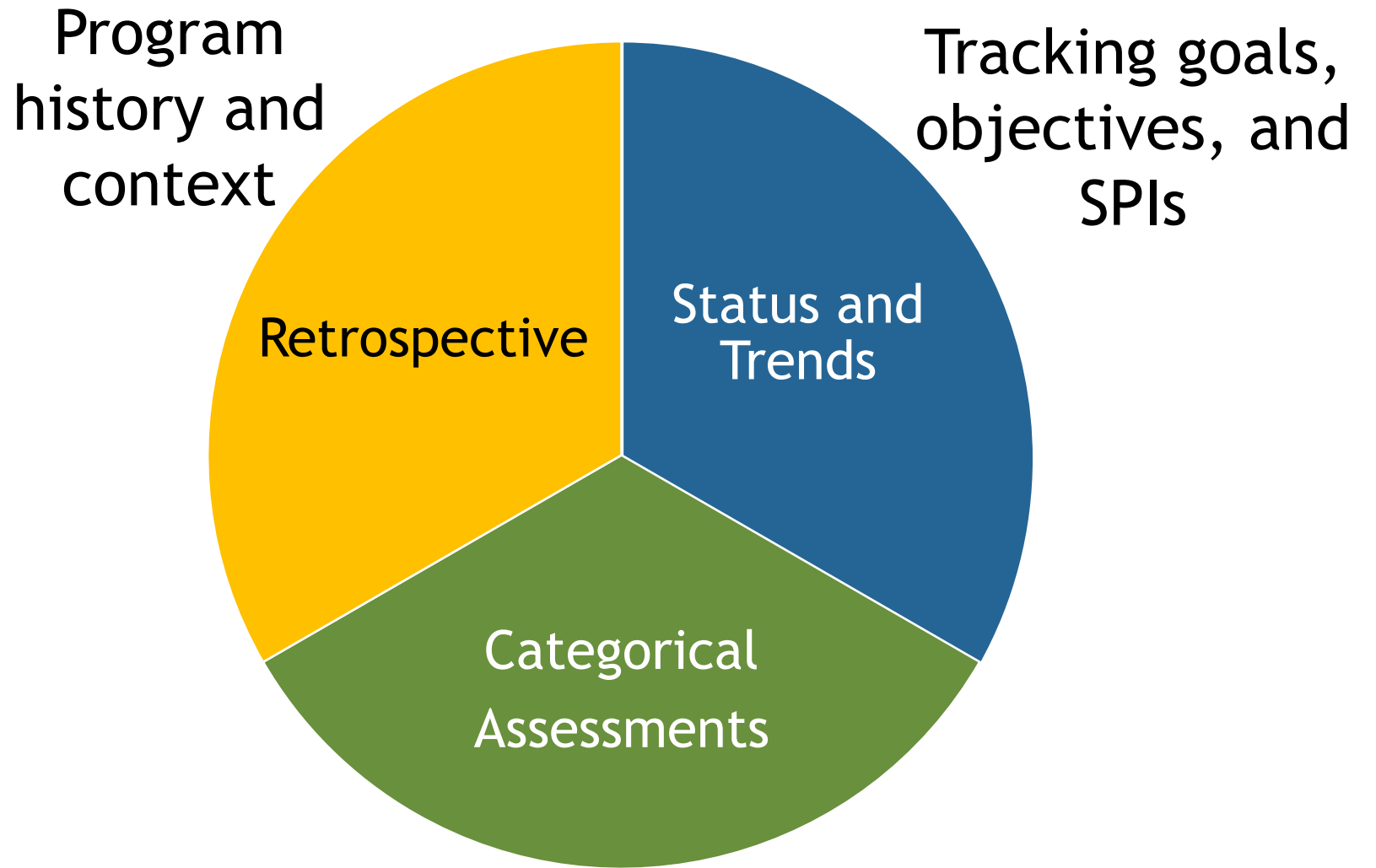
Discussion

- Content:
 - Appropriate level of detail?
 - Any issues, suggestions, questions?

- Timeline to publishing Program Tracker hatchery tool to Council's website by March:
 - As is and use splash screen or tutorial to explain current status of updates.
 - Request workgroup feedback/edits by **February 12**

- Update - Additional Strategy Performance Indicators (F&W Program performance effort - next set of 4 slides)

Program performance:
telling the story through three complementary efforts



Tracking measures that are implemented as actions/projects

Categorical Assessments

- **Connect actions, implementation, benchmarks**
 - Hydrosystem
 - Habitat
 - Artificial production
 - Program adaptive management

1. Describe (where available):
 - What actions have been called for in each Program
 - What actions have been implemented over time?
 - How implementation relates to specific targets (such as flow or reservoir elevations)
 - Context around implementation
2. Report on progress and challenges in implementing measures
3. Identify key questions for region to consider in anticipation of next Program amendment

Artificial Production Assessment

1. Describe (where available):

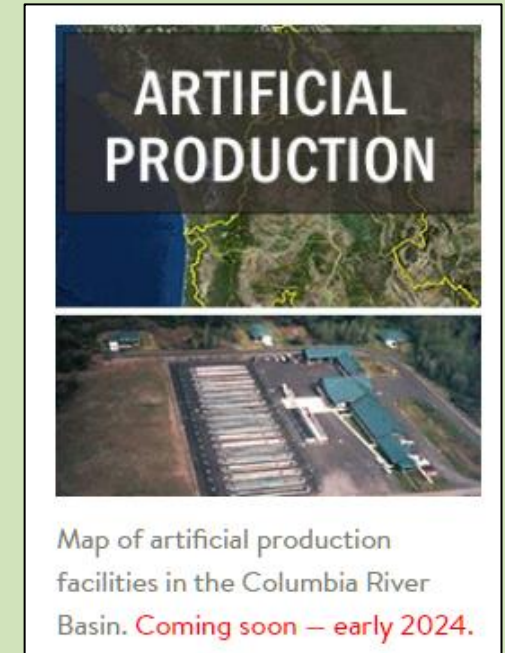
- What actions have been called for in each Program.

- What actions have been implemented over time?
- How implementation relates to specific targets
- Context around implementation

Resources being developed to apply to assessment

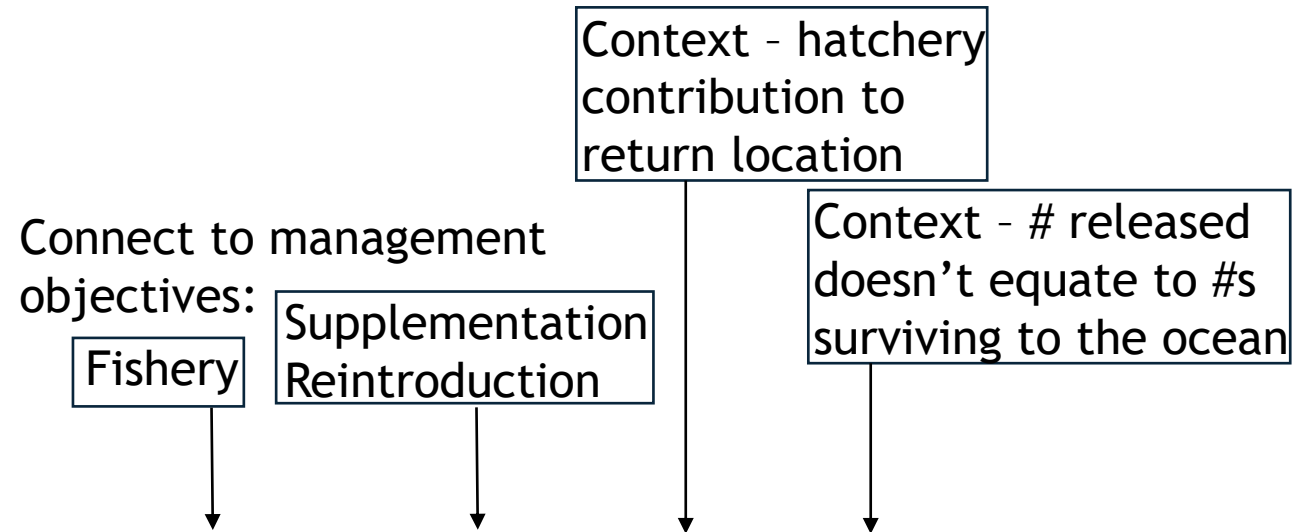
➤ Program Tracker - Hatchery tool:

- What are the Program's hatchery facilities and production programs?
- Identify SPIs as appropriate.
 - Juvenile release data
 - Others need development



Additional SPIs and Hatchery Tracker tool

- Initial ideas/examples.
- Plan to work with hatchery managers & workgroup to discuss and compile.



Snake River Fall Chinook - Nez Perce Tribal Hatchery

Harvest contribution Redd counts Adult returns Juvenile survival Releases

The Fall Chinook program at Nez Perce Tribal Hatchery was established to mitigate for the effects of the Federal Columbia River Power System on fish populations. The Nez Perce Tribal Hatchery is the main facility supporting the Clearwater River component of the Snake River Fall Chinook program, a co-management effort to bring these fish back from the brink of extinction in the Snake River basin.

Hatchery program Purpose:
 - Mitigation - Federal Columbia River Power System

Funding source:
 - Bonneville Power Administration ([1983-350-00,1983-350-03](#))

Mitigation responsibility:
 - BPA through the NPCC F&W Program

Management objective:
 - Fishery and Supplementation

ESA Listing Status:
 - Threatened

Life stage at release:
 - Subyearling

← This information may drive additional SPIs

Summary

- Please send feedback/edits on the hatchery tracker tool to staff by February 12 (to be incorporated in March target date for adding tool to Council's website).
 - Maureen Hess (mhess@nwcouncil.org)
 - Mark Fritsch (mfritsch@nwcouncil.org)
- Feedback related to hatchery SPIs are welcome and appreciated from the workgroup.