Informal Hatchery Workgroup

January 8, 2024
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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:00 PM (PDT)</td>
<td>Welcome and Introductions</td>
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<tr>
<td>1:15 PM - 3:00 PM</td>
<td>1. Informal Hatchery Workgroup - Background and Progress</td>
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<td>2. Brief review of the <a href="#">Workgroup’s Hatchery Website</a></td>
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<td>3. Update - Program Tracker Hatchery Tool <em>(draft)</em></td>
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<td>4. Next steps and Discussion</td>
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<td>5. Update - Program Tracker Hatchery Tool as a resource for the Council’s Program Performance effort</td>
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Background


➢ 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

[Map modified from: https://www.nwd.usace.army.mil/]

MAP KEY
- Corps of Engineers Dams
- Bureau of Reclamation Dams
- Dams owned by Others
- Dams owned by Canada

Fish & Wildlife program, FCRPS (BPA)
Bureau of Reclamation
Mid-Columbia Public Utility Districts
Lower Snake River Compensation Plan
US Army Corps of Engineers

Tacoma Power
PacifiCorps & Cowlitz PUD
Portland General Electric
Idaho Power Company
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]
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
Current Status - January 2024:

Phase I: Facilities and organizational structure

- Willamette Valley Dams
- John Day Dam
- Dworshak Dam

- Tacoma Power
- PacifiCorp & Cowlitz County PUD
- Portland General Electric
- Mid-Columbia PUDs (Grant, Chelan, Douglas)
- Idaho Power Company
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:**

**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

- F&W Program
- LSRCP
- BoR
- Corps
- Mitchell Act
- USFWS
- Utilities
- PCSRF Coho

- Anadromous
- Resident

- Willamette Valley Dams
  - John Day Dam
  - Dworshak Dam

- Above Bonneville Dam
- Below Bonneville Dam

- Tacoma Power
- PacifiCorp & Cowlitz County PUD
- Portland General Electric
- Mid-Columbia PUDs
- (Grant, Chelan, Douglas)
- Idaho Power Company
Phase III: Compile and report data associated with F&W 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

Artificial Production In Development

Facility Search

Program
Fish and Wildlife Program

Program Group
All

Species
All

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 NFCC 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

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

Program history and context

Retrospective

Status and Trends

Categorical Assessments

Tracking goals, objectives, and SPIs
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.

Context - hatchery contribution to return location
Context - # released doesn’t equate to #s surviving to the ocean

Connect to management objectives:
- Fishery
- Supplementation
- Reintroduction

Snake River Fall Chinook - Nez Perce Tribal Hatchery

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 NPPC ERW 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.