Cowlitz 2020 Fisheries and Hatchery Management Plan and Annual Project Review Public Engagement

Virtual Public Meeting
Aug. 12, 2020
Welcome!

Introductions
Using GoToMeeting
Happy happenings at Cowlitz
FHMP/APR
Break?
Open Q&A

*Coho collected at the Cowlitz Falls Fish Facility*
Using GoToMeeting

• Audio/visual controls
• View everyone drop-down
• Can shut off your webcam to preserve bandwidth
• Enlarge presentation by pulling the top bar up
Using GoToMeeting

• Everyone on mute until open Q&A portion

• However, you can still ask questions or make comments by typing them into the chat box

• Who’s joining us via phone?

• We will post the presentation and chat log at MyTPU.org/Cowlitz
Open Q&A

• On a webcam? Please raise your hand.
• Or, type a question into the chat box.
• Or, type your name into the chat box and we’ll call on you.
• We will ask people on the phone if they have questions.
Happy happenings at Cowlitz

- Summer-run steelhead recycling program
- Barrier Dam survey: Aug. 24-28
- Rainbow trout donation
- New ozone plant at the Cowlitz Trout Hatchery
- New Tilton release site
Overview

• What we all want
• FHMP
  – Schedule
  – Next Steps
    • Transition Plans
    • M&E Plan
  – Public Review
    • Concerns we’ve heard so far
• 2020 APR
  – ... In the world of the pandemic
  – Initial thoughts/feedback
# FHMP Schedule

<table>
<thead>
<tr>
<th>Action Item</th>
<th>Date</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Comment Solicited</td>
<td>August 2019</td>
<td>Public</td>
</tr>
<tr>
<td>Document Preparation/Workshops completed</td>
<td>October 2019</td>
<td>Tacoma/FTC</td>
</tr>
<tr>
<td>Review Complete Draft FHMP (continuing solicitation of public comments)</td>
<td>11/18/19 – 5/30/20</td>
<td>FTC</td>
</tr>
<tr>
<td>Unresolved Topics Workshops</td>
<td>2/15/20 – 3/15/20</td>
<td>Tacoma/FTC</td>
</tr>
<tr>
<td>Unresolved Interim Plan Document</td>
<td>4/1/20 – 6/30/20</td>
<td>Tacoma/FTC</td>
</tr>
<tr>
<td>Edit Completed Draft FHMP</td>
<td>6/1/20 – 7/31/20</td>
<td>Tacoma/FTC</td>
</tr>
<tr>
<td>Public Review Draft Final FHMP</td>
<td>8/1/20 – 9/7/20</td>
<td>Public</td>
</tr>
<tr>
<td>Incorporate Comments and Finalize FHMP</td>
<td>9/7/20 – 10/7/20</td>
<td>Tacoma</td>
</tr>
<tr>
<td>File FHMP with FERC</td>
<td>10/18/20</td>
<td>Tacoma</td>
</tr>
</tbody>
</table>
What is in the FHMP

• History of Cowlitz
  – How did we get here
  – Why this work is important

• Recent History of Each Population and Program
  – Trends
  – Current programs and why

• Interim Strategy
  – Develop Transition Plans
  – Stepwise? All at once?
  – Mostly status quo until then

• Concepts for Next Phase
  – Recovery
  – Harvest
After FHMP is Submitted:

- Transition Plans
- Public Input
- 1 or 2 years (Spp. specific)
  - Program Sizes/Range
  - Integration Rate
  - Management Strategies
  - Bio Program
  - Transport/Disposition
  - Marking
  - Time/Size of Release
  - Broodstock Needs
  - Transition Approach

- M&E Plan
- Annual Operating Plan
- Single Reporting and Analysis Database
- 1 year then annually
  - Baseline Studies
  - Directed Studies
  - Focused on data gaps to inform stepwise progress
  - Interim (Appx J – 2011, up to 1 year or as described in work plan)
Transition Plan - Public

• What you can expect
  – Options for public to weigh in on
  – Options considered by FTC
• Pros and cons
**Fall Chinook Summary**

<table>
<thead>
<tr>
<th>Current Hatchery Program(s):</th>
<th>Lower Cowlitz Subbasin - Integrated; 1.1 million sub-yearling smolts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lower Cowlitz Subbasin - Segregated; 2.4 million sub-yearling smolts</td>
</tr>
</tbody>
</table>

| Proposed Hatchery Program(s): | Tilton River (Upper Cowlitz Subbasin) - Integrated; 3.5 million sub-yearling smolts |

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**Hatchery-Origin**

- Ocean Harvest: 102
- Lower Cowlitz River Harvest: 3,763
- Columbia River Harvest: 1,739
- Remaining in Lower Cowlitz Subbasin: 2,971
- Harvest Above Mayfield Dam: 2,931
- Remaining in Lower Cowlitz Subbasin: 3,424

**Natural-Origin**

- Ocean Harvest: 0
- Columbia River Harvest: 2,677
- Harvest Above Mayfield Dam: 3,090
- Remaining in Lower Cowlitz Subbasin: 57
- Collected for Broodstock: 216
- Surplus: 178
- Transported Above Mayfield Dam: 1,790

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**Graphs:**

- Total Run: 2011-2017
- Total Return to Cowlitz River: 2011-2017
- Total Harvest: 2011-2017
- Return to Cowlitz Salmon Hatchery: 2011-2017
- Transferred Above Mayfield Dam: 2011-2017

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**Tacoma Power**

Tacoma Public Utilities
Spring Chinook Summary

Current Hatchery Program(s):

<table>
<thead>
<tr>
<th>Hatchery-Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>746,355</td>
</tr>
<tr>
<td>474</td>
</tr>
<tr>
<td>1,459</td>
</tr>
<tr>
<td>3,712</td>
</tr>
<tr>
<td>2,761</td>
</tr>
<tr>
<td>469</td>
</tr>
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</table>

Cowlitz Salmon Hatchery Segregated Hatchery Program, approximately 1.8 million smolts

Proposed Hatchery Program(s):

<table>
<thead>
<tr>
<th>Natural-Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,144</td>
</tr>
<tr>
<td>178</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>1</td>
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</table>

Continue Segregated Hatchery Program while developing a Transition Plan for integrating a portion of the hatchery production, and eventually moving to a fully Integrated Hatchery Program; targets will be set during the period covered by this FHMP in coordination with the FTC.
## Coho Summary

### Current Hatchery Program(s):
- Cowlitz Salmon Hatchery Segregated Hatchery Program (Lower Cowlitz Subbasin); 1.2 million smolts
- Cowlitz Salmon Hatchery Integrated Hatchery Program (Upper Cowlitz Subbasin); 978,000 smolts

### Proposed Hatchery Program(s):
- **Short-Term Goal:**
  - Upper Cowlitz Subbasin Integrated Hatchery Program; 2.2 million yearling smolts
- **Long-Term Goal:**
  - Upper Cowlitz Subbasin and Tilton Subbasin Integrated Hatchery Programs; combined production of 2.2 million yearling smolts
## Lower Winter Steelhead Summary

### Current Hatchery Program(s):
- Lower Cowlitz Subbasin Late-Winter Steelhead Integrated Hatchery Program
- Upper Cowlitz Subbasin Late-Winter Steelhead Integrated Hatchery Program
- Tilton Subbasin Late-Winter Steelhead Integrated Hatchery Program

### Proposed Hatchery Program(s):
- Lower Cowlitz Subbasin Winter Steelhead Integrated or Segregated Hatchery Program
- Upper Cowlitz Subbasin Winter Steelhead Integrated Hatchery Program
- Tilton Subbasin Winter Steelhead Integrated Hatchery Program

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**Graphs and Data:**

- **Total Run**
- **Total Return to the Cowlitz River**
- **Lower Cowlitz Subbasin Harvest**
- **Return to Barrier Dam Adult Facility**
- **Remained in Nature in Lower Cowlitz Subbasin**

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**Legend for Graphs:**
- Lower Cowlitz Subbasin Harvest
- Lower Cowlitz Subbasin Spawning Grounds
- Collected from Lower Cowlitz Subbasin for Broodstock
- Collected at Hatchery for Broodstock
- Transported Upstream/Hatchery Surplus

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**Footer:**

Tacoma Power
Tacoma Public Utilities
Summer Steelhead Summary

Current Hatchery Program(s):
- Cowlitz Trout Hatchery Segregated Hatchery Program - 650,000 yearling smolts

Proposed Hatchery Program(s):
- Cowlitz Trout Hatchery Segregated Hatchery Program - 650,000 yearling smolts

<table>
<thead>
<tr>
<th>Release Year</th>
<th>Total Number Released</th>
<th>Mean Weight</th>
<th>Total Number Released</th>
<th>Mean Weight</th>
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<tbody>
<tr>
<td>2011</td>
<td>477,098</td>
<td>73</td>
<td>673,578</td>
<td>78</td>
</tr>
<tr>
<td>2012</td>
<td>471,529</td>
<td>69</td>
<td>618,681</td>
<td>84</td>
</tr>
<tr>
<td>2013</td>
<td>673,578</td>
<td>78</td>
<td>478,395</td>
<td>84</td>
</tr>
<tr>
<td>2014</td>
<td>618,681</td>
<td>84</td>
<td>183,626</td>
<td>73</td>
</tr>
<tr>
<td>2015</td>
<td>478,395</td>
<td>84</td>
<td>600,000</td>
<td>83</td>
</tr>
<tr>
<td>2016</td>
<td>183,626</td>
<td>73</td>
<td>598,000</td>
<td>83</td>
</tr>
<tr>
<td>2017</td>
<td>600,000</td>
<td>83</td>
<td>592,000</td>
<td>57</td>
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Graphs show the number of adult summer steelhead returning to barrier dam adult facility and the number of adult steelhead in the Cowlitz River from 2007 to 2017.
Public Review – Concerns We’ve Heard So Far

1. Low Spring Chinook Smolt-to-Adult Returns (SARs)
2. Fall Chinook NOR harvest opportunity
3. Winter steelhead early program
4. Chum
1. Low Spring Chinook Smolt-to-Adult Returns (SARs)

- Priority topic for FTC
- Monitoring & Evaluation subgroup building estimate
- Limiting Factors for SAR within Transition Plan (Year 1)
2. Fall Chinook NOR Harvest Opportunity

— Proposed Plan Considers:

- Collection at Barrier Dam Adult Facility for single integrated program during this recovery phase
- Marking strategy to describe effectiveness
- Opportunity to be maintained for increasing HOR returns
3. Winter Steelhead Early Program

— Transition Plan to (within 1 year) that considers:
  • Maximize recreational/harvest opportunity by adjusting summer-run Segregated Hatchery Program production in conjunction with winter steelhead programs.
  • Expanding existing hatchery program run-timing to increase fishing opportunities by developing a winter-run steelhead program to more closely emulate historic run-timing.
    — Determine possible sources and timing of implementation
4. Chum

- No plans to release hatchery-origin chum salmon in the Cowlitz Basin during this FHMP period.
- Does not preclude any entity from artificially propagating chum within the Cowlitz Basin:
  - Consistent with a recovery strategy
  - Coordinated with WDFW the Artificial Propagation Strategy for Chum Salmon
APR

• Purpose - Plan for operating fisheries in 2021
• Process this year
  – One virtual meeting on Aug. 12, 2020
  – No changes recommended at this time by Tacoma
## 2020 Hatchery Production Plan

<table>
<thead>
<tr>
<th>Species</th>
<th>Before 2011 FHMP Update</th>
<th>2017 APR Goal</th>
<th>2018 APR Goal</th>
<th>2019 APR Goal</th>
<th>2020 APR Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Chinook</td>
<td>4,800,000</td>
<td>3,500,000</td>
<td>3,500,000</td>
<td>3,500,000</td>
<td>3,500,000</td>
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<tr>
<td>Spring Chinook</td>
<td>959,800</td>
<td>1,738,529</td>
<td>1,738,529</td>
<td>1,738,529</td>
<td>1,738,529</td>
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<tr>
<td>Coho</td>
<td>2,835,000</td>
<td>2,178,000</td>
<td>2,178,000</td>
<td>2,178,000</td>
<td>2,178,000</td>
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<tr>
<td>Winter Steelhead</td>
<td>690,000</td>
<td>647,000</td>
<td>647,000</td>
<td>647,000</td>
<td>647,000</td>
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<tr>
<td>Summer Steelhead</td>
<td>550,000</td>
<td>625,000</td>
<td>650,000</td>
<td>650,000</td>
<td>650,000</td>
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<tr>
<td>Cutthroat</td>
<td>160,000</td>
<td>100,599</td>
<td>100,599</td>
<td>100,599</td>
<td>100,599</td>
</tr>
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Wrap Up

• All comments are due to Matt Bleich or Travis Nelson by 4 p.m. (PST) on Sept. 7, 2020
• Get Comment Form, documents, and email addresses at MyTPU.org/Cowlitz (under Public Meetings)