



Aquatic Species Restoration Plan Update

Introduction

November 5, 2020

Previous Work

- Phase 1 Draft ASRP published November 2019
 - Subsequent public comment period & symposium event



2020 Work

- Refine the Plan
 - Add critical details to increase effectiveness, feasibility of implementation
 - Incorporate public comment feedback
- Transition to implementation
 - Develop sequencing plans to strategically focus project execution
 - Build the infrastructure needed to successfully implement the Plan



Shifts in ASRP Program



2020 ASRP Work Plan: Major Elements

- Scenario Refinement
 - Sequencing Recommendations
 - Implementation Planning
 - Monitoring & Adaptive Management Plan
 - Community Planning Strategy Development
- 
- Today's focus

2020 ASRP Work Plan: Major Elements

- Scenario Refinement ← What is the scope of this program?
- Sequencing Recommendations ← Where is the program focusing implementation?
- Implementation Planning ← How can we successfully ramp up program implementation?

The background image shows a rural landscape with a large body of water, likely a flooded field or pond. In the middle ground, there is a barn with a red roof and a tall, white, cylindrical silo. The surrounding area is filled with trees, some of which are bare, suggesting a late autumn or winter setting. The sky is overcast, and the overall tone is somewhat muted. The image is framed by a green header bar at the top and a blue footer bar at the bottom.

Aquatic Species Restoration Plan Update

Scenario Refinement

November 5, 2020

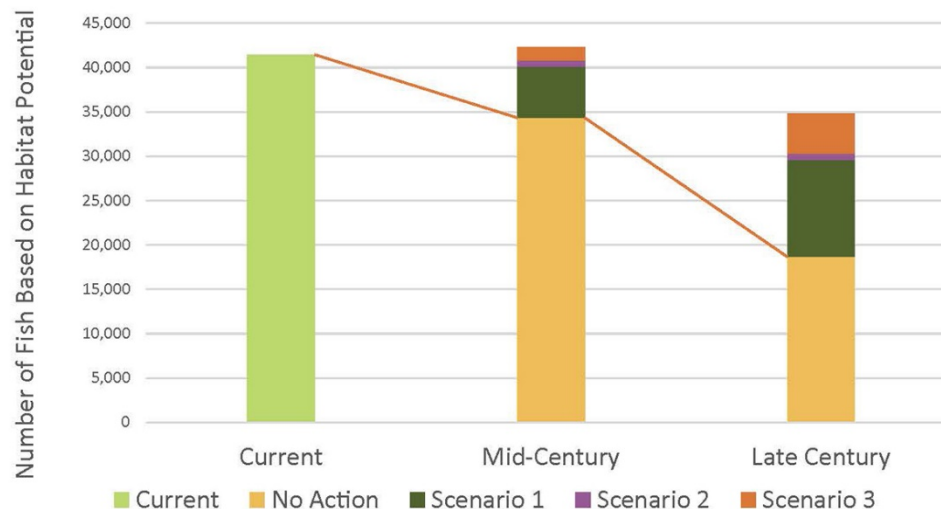
Scenario Refinement

- Phase 1 ASRP included 3 Scenarios for potential scope of the ASRP
- Phase 2 includes the refinement and selection of one scenario as scope of the program

Scenario Refinement

- Phase 1 Analyses:
 - Even Scenario 3 indicated potential losses to some significant stocks, with climate change predictions

ASRP Phase 1 Restoration Scenario Results: Fall Chinook



Scenario Refinement

Questions informing Phase 2 work:

What changes can we make to the program to be more successful in supporting native aquatic species & habitats?

What can we do to get the most potential benefits while setting realistic goals?

How can we build upon the Phase 1 work to increase benefits, while still adhering to strict prioritization approach of the ASRP?



How can we truly build the rooms back into our hotel?



Scenario Refinement: Process

- **Focused on Scenario 3**
 - Public comments
 - Board guidance January-March 2020
 - Scientific need to do more than protect and restore core habitats in order to support resiliency of the watershed and viable species populations
- **Actions taken**
 - Optimized areas and actions to have most potential benefit to native aquatic species and habitats
 - Incorporated the estuary
 - Completed an ecosystem resiliency analysis

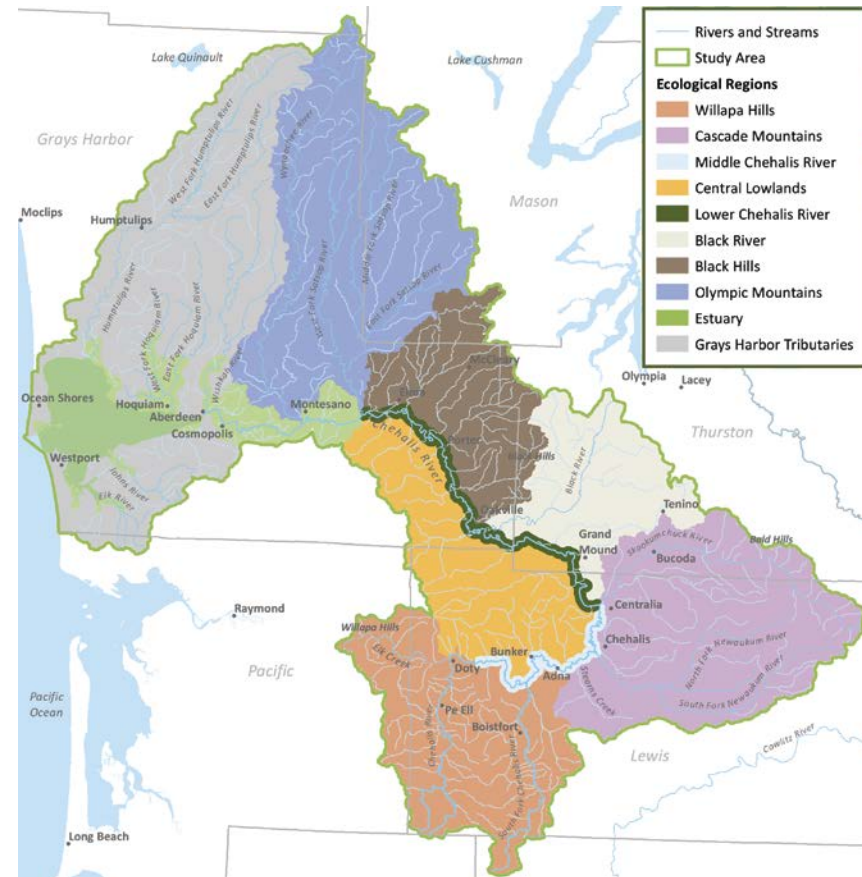
Scenario Refinement: Process

- Optimized areas and actions to have most potential benefit to native aquatic species and habitats
 - Evaluated and modified actions per priority area
 - e.g. decrease emphasis on barrier corrections; increase of beaver ponds and floodplain connectivity in Shafer Creek, a tributary to the Wynoochee
 - Increased intensities of actions in areas where spring Chinook and other at risk species could benefit
 - e.g. Newaukum, lower SF Chehalis



Scenario Refinement: Process

- Incorporated the estuary
 - Plan and restore for sea-level rise above the tidal surge plain
 - Restore shoreline and marsh habitats critical for Chinook rearing



Scenario Refinement: Process

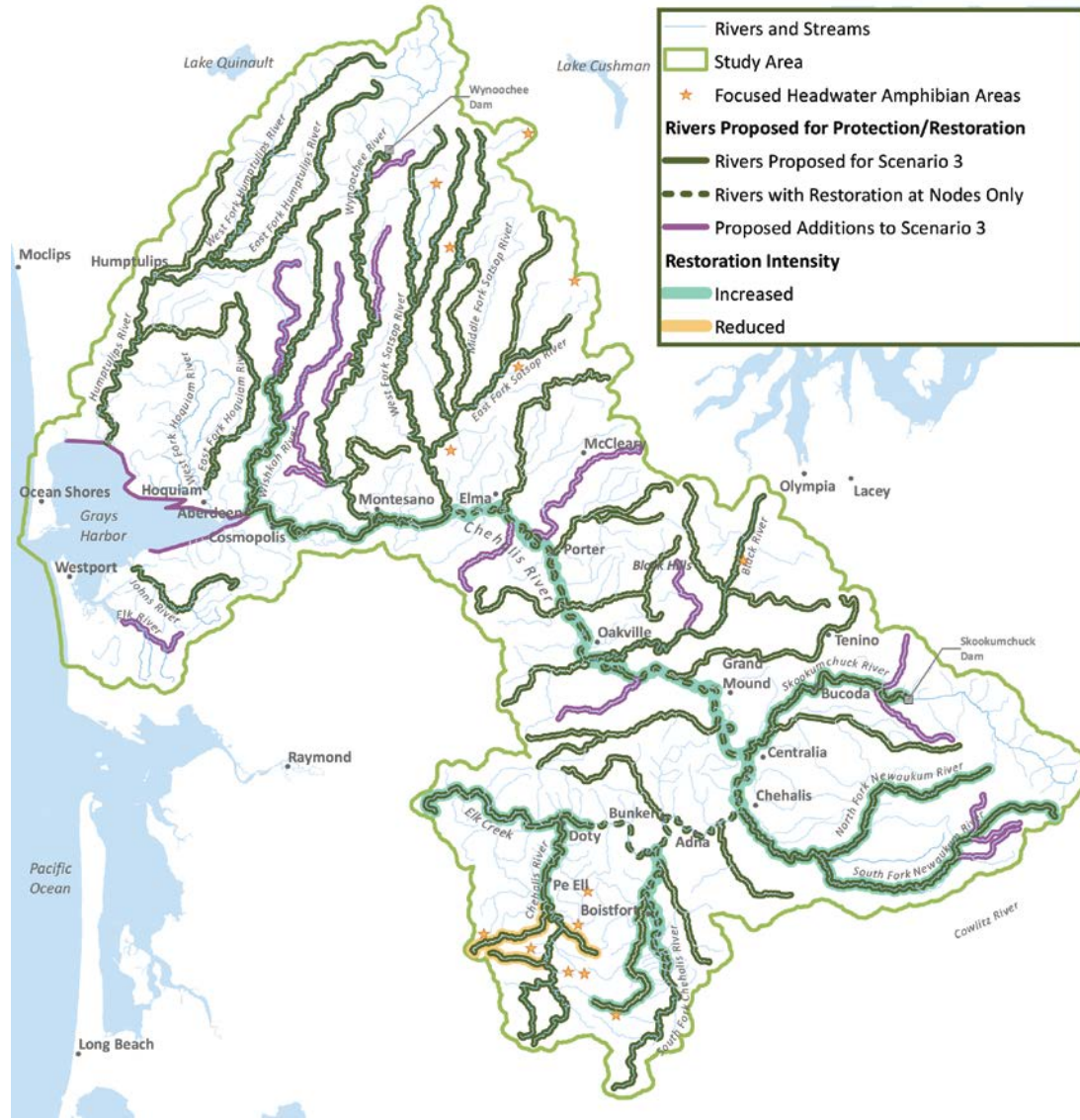
- Completed an ecosystem resiliency analysis
 - Target priority headwater areas in smaller streams to cool and increase water flow downstream
 - East Fork Satsop and its tributaries are unique, spring-fed, highly productive habitats that support multiple species. It has no duplicate in the basin.



Upper East Fork Satsop
wetland complex

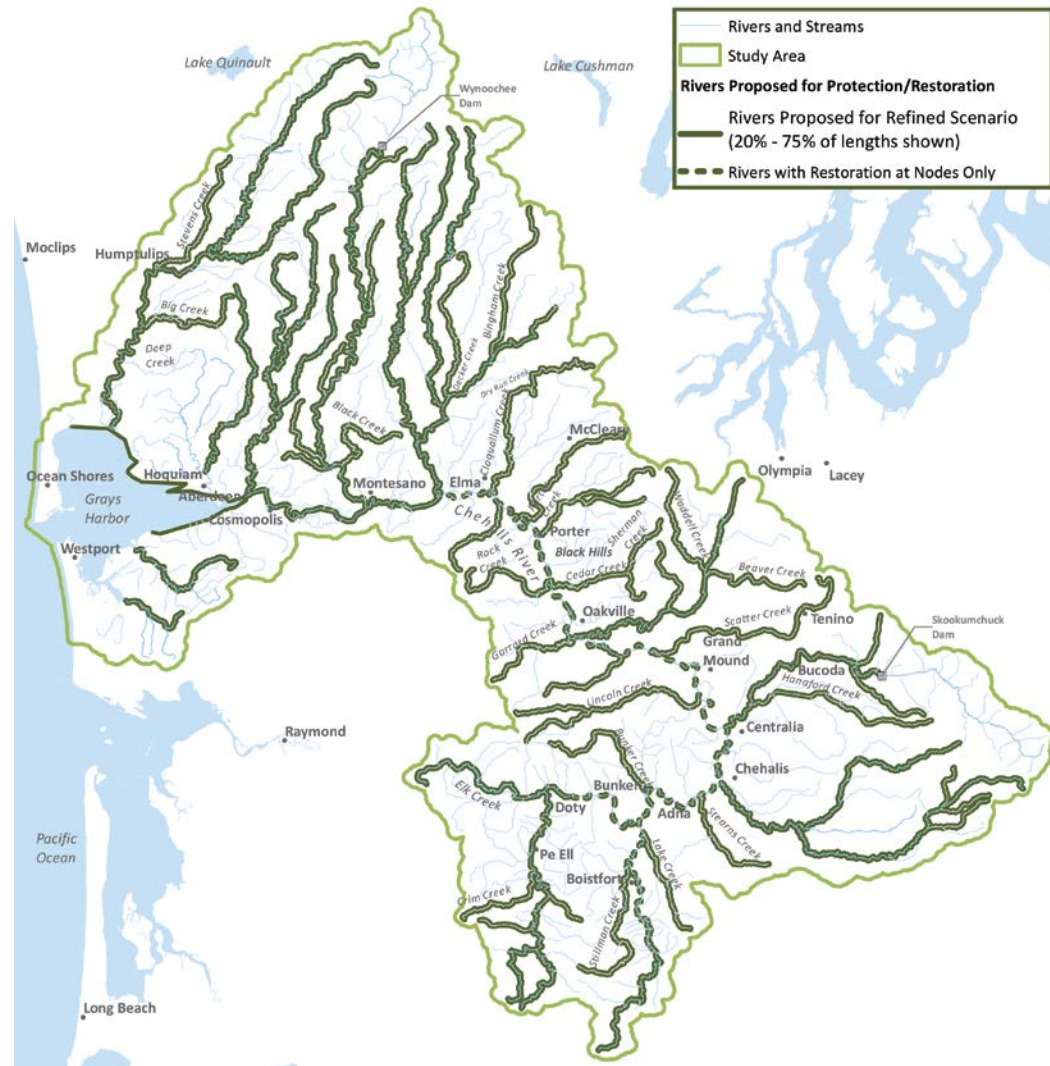
Draft Recommendations

- Modification of intensities and actions throughout priority geographic areas
 - Tailored actions for suitable locations
- Revisions to priority areas
- Increase in overall miles (450 to 555)



Recommended Scope of ASRP

- 555 miles of prioritized habitat restoration and protection
- 16,500 acres of floodplain re-connection or restoration



Draft Program Costs

- Capital costs for full scope of restoration program
 - Range of potential costs from \$610 million to \$1.3 billion
 - Average potential costs approximately \$940 million
 - Costs were updated based on actual costs for Early Action Reach projects and recent grant rounds
 - This averages to a cost of \$60-65 million per biennium, if evenly distributed

Summary

The revised scope of the ASRP:

- Increases predicted benefits to native aquatic species and habitats beyond phase 1 analyses
- Focuses on reducing the worst effects of climate change that are predicted to have the most impact on native aquatic species
- Reduces uncertainty on whether our actions will have lasting benefit by strategic prioritization based on known limiting factors for species and habitats

We've developed a robust plan, and now we are shifting to implementation.

Questions & Steering Committee Discussion

- Colleen Suter, Chehalis Tribe to further discuss scope of program