Joan M. Dukes Chair Oregon

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> James A. Yost Idaho

W. Bill Booth Idaho



Rhonda Whiting Vice-Chair Montana

Bill Bradbury Oregon

Tom Karier Washington

Phil Rockefeller Washington

March 29, 2012

#### **MEMORANDUM**

**TO:** Fish and Wildlife Committee Members

**FROM:** Peter Paquet, Manager Wildlife & Resident Fish

**SUBJECT:** WDFW Hatchery/Supplementation Policies and Activities

Heather Bartlett, WDFW hatchery division manager and Shaun Seaman, Chelan County PUD fish and wildlife director will brief the Committee on WDFW policies and activities related to hatcheries and supplementation. See the attached PowerPoint handout for further detail.

503-222-5161 800-452-5161 Fax: 503-820-2370

#### Washington State Hatchery System

Historical Context, Legal Basis, Endangered Species Act and Hatchery Reform Heather Bartlett, Hatcheries Division Manager (Fish Program)

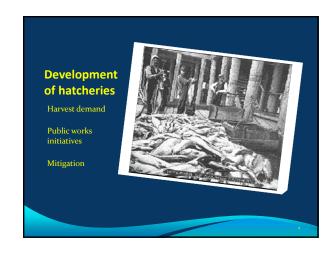


#### Organization of hatchery series

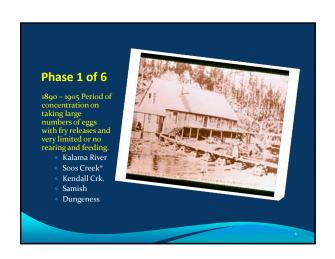
- 1. Historical and legal context December 2010
- 2. Historical and contemporary production, and economic value January 2011
- 3. Endangered Species Act, salmon recovery and hatchery reform June 2011
  - http://wdfw.wa.gov/hatcheries/overview.htm

Salmon in
Washington
Prior to 1900,
abundance legendary
Important protein on
international scale
First dramatic collapse
evident just prior to
turn of century

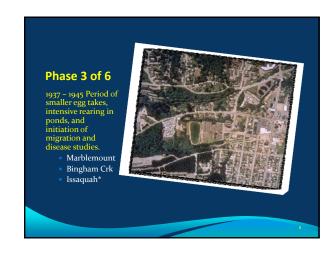
• Over-fishing
• Land and water
use practices

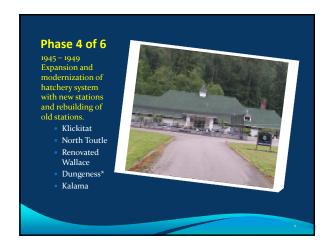


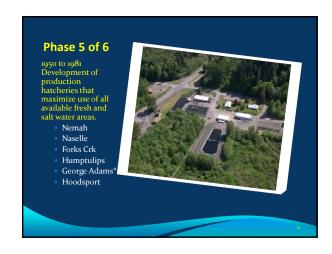


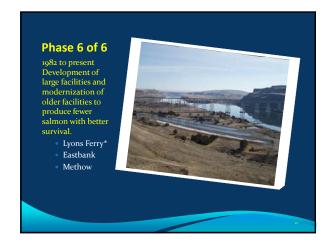












# State legal foundation • Policy that hatcheries can be used to mitigate the damage caused by dams is embodied in state statute. • Arose out of controversy when Elwha Dam built • Initially enacted in 1915 and today is contained in RCW 77:57:050 • Operating agency shall provide fishways, facilities and hatcheries contained in RCW 43:52:350

#### State-tribal legal foundation

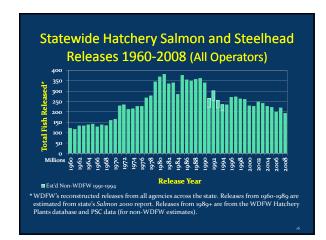
- Series of court cases in Columbia River and Puget Sound related to fishery management
  - Belloni decision 1969, "fair and equitable". Remains an active case today known as US v Oregon.
  - Boldt decision 1974, defined "fair and equitable" as 50:50 sharing of the fish not needed for spawning. Remains an active case today known as US v Washington.
    - Judge Belloni adopted Judge Boldt's definition of fair and equitable.

#### State-tribal legal foundation

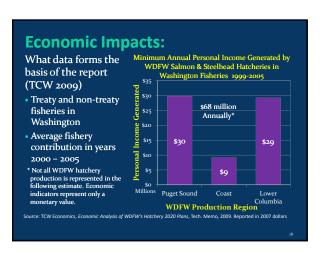
- Case within US v Washington articulated that hatchery fish count in determining treaty/non-treaty fair sharing (9<sup>th</sup> Circuit 1985). Rationale of the court was
  - ... "the mitigating function of the hatchery fish programs".
  - "For the tribes to bear the full burden of the decline caused by the non-Indian neighbors without sharing the replacement achieved through the hatcheries, would be an inequity and inconsistent with the Treaty."

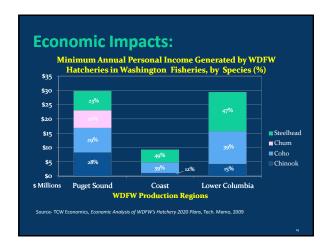
#### Cooperative management

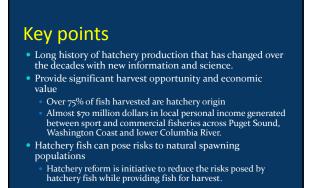
- Based on principles of government-to-government relationship.
- Embodied in the 1985 PS Salmon Management Plan
  - "No modifications may be made to the equilibrium brood document without prior agreement of the affected parties."
- Embodied in the 1986 Hood Canal Management Plan
  - "In no case will the loss of production in Hood Canal be disproportionate to the overall cutback in the aggregate of the WDF, USFWS, and tribal facilities."
- Embodied in series of agreements for the Columbia River 2008 2017 *US v Oregon* Mgmt. Agreement.
- Cooperative process in place to track and report production
  - Future Brood Document
  - http://wdfw.wa.gov/hatcheries/future\_brood.html



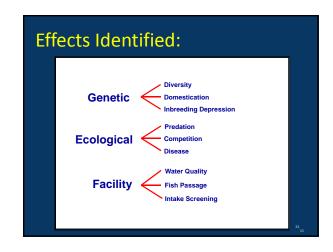


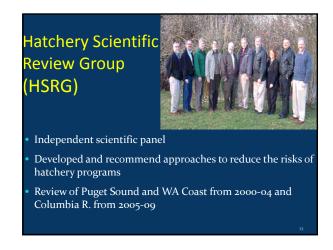


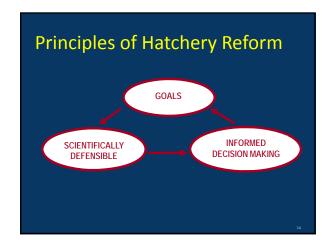




# Hatcheries identified as factor contributing to the decline of wild populations. ESA-authorization is needed to continue hatchery operations. Hatchery and Genetic Managements Plans—HGMP Currently, 20 programs are formally permitted under ESA ~150 HGMPs have been submitted state-wide for consultation Currently two federal hatchery reviews underway- The Puget Sound and Mitchell Act NEPA







## Fish and Wildlife Commission Policy C-3619

- "...to advance the conservation and recovery of wild salmon and steelhead by promoting and guiding the implementation of hatchery reform."
- •Use the principles, standards and recommendations of the HSRG
- •Designate programs as Conservation or Harvest

## Fish and Wildlife Commission Policy- guidelines:

- •Develop watershed-specific plans to implement hatchery reform
- •Implement HSRG broodstock management standards for all WDFW programs by 2015
- •Externally mark all fish produced for harvest
- $\bullet Bring$  WDFW facilities into compliance with environmental standards

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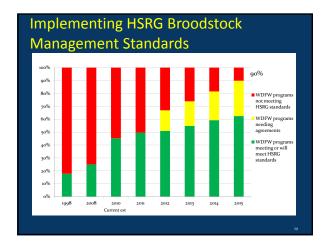
#### Watershed-level Plans

- Puget Sound
  - State-tribal coordinated Hatchery Action Implementation Plans (HAIP)
  - Coordinated with the PS Federal Hatchery NEPA EIS
  - Completion in early 2012
  - Initiation of citizen-based advisory group
- WA Coast
  - HAIP process initiated with treaty-tribes
  - Completion in mid 2013

#### Watershed-level Plans cont.

- Lower Columbia River
  - Conservation and Sustainable Fisheries Plan drafted.
  - Aligns WDFW production with Recovery Plan objectives
  - SEPA will be initiated with the completion of the Mitchell Act NEPA process
- Interior Columbia Basin
  - Current production agreement under US v OR (08-2017)
  - Revised steelhead production in the Lower Snake River
  - Revised Wenatchee spring Chinook & summer steelhead
  - Revised Methow River steelhead production
  - More opportunities for revision...

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#### **Mass-marking of Harvest Production**

- All Coho salmon WDFW produces for harvest are mass-marked
   23,3 million released in 2010
- All steelhead WDFW produces for harvest are mass-marked
- 6.5 million released in 2010
- Chinook WDFW produces for harvest
  - 96 million released in 20<u>10 (96%)</u>
  - 3.8 million not mass-marked (Priest Rapids Hatchery)

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### Achieve Environmental Standards by 2025 (21st Century Salmon Steelhead Benchmark)

- Hatchery Reform Capital Projects Prioritized
  - 2011-2013 State capital budget request:
    - Hatchery-related fish passage barriers- \$450K (\$1.28M received)
    - Full facility rebuilds/planning- \$15.8 million (\$1M received)
    - Hatchery Intakes- \$3.8 million (\$3.4M received)
    - Minor works- broodstock mgmt- \$1.6 million (\$0 received)
  - 2009-2010 Federal-funding request- Mitchell Act & PCSRF
    - Hatchery-related fish passage barriers- \$720K (100% funded)
    - Hatchery intakes (design and repair)- \$1 million (100% funded)
    - Broodstock management- \$4 million (100% funded)

#### Summary

- Hatchery Reform Policy represents a paradigm shift for hatchery
- ESA authorization offers additional impetus for hatchery reform
- Policy Progress
  - Watershed Plans:

Lower Columbia River completed Puget Sound- 2012 completion WA Coast- 2013 completion

 Implementing HSRG Broodstock Standards: Currently 45% statewide meet standards Schedule is in place to meet the 2015 timeline for 90% of programs

#### Summary (continued...)

- Mass-marking of harvest production
- 100% of coho and steelhead
- >95% of Chinook mass-marked
- Hatchery Reform capital and operational projects are prioritized by WDFW for all budget requests.

**Questions?** 

## Overview of Hatchery Programs Chelan County PUD

Northwest Power & Conservation Council April 2012 Meeting

Presented By: Shaun Seaman Chelan County PUD

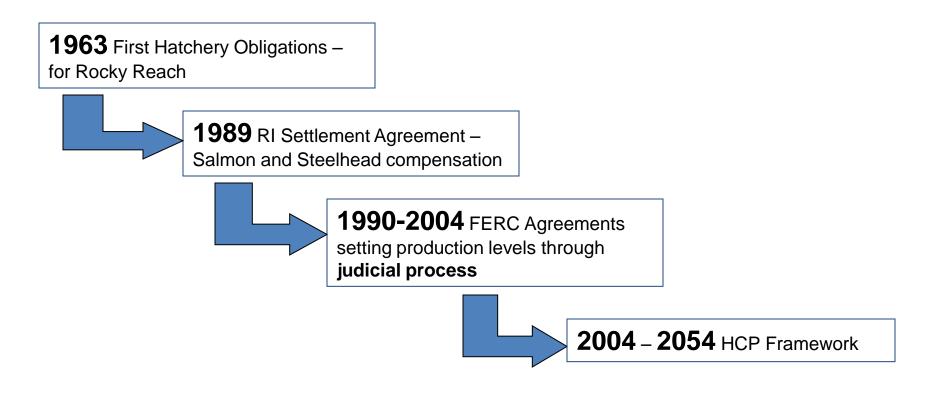


## **Presentation Overview**

- Habitat Conservation Plan
- Hatchery Programs
  - Operations and M&E
- Adaptive Management
- Alignment with:
  - Hatchery reform
  - Recovery planning
  - NPCC F&W Program



## History of Chelan PUD Hatcheries



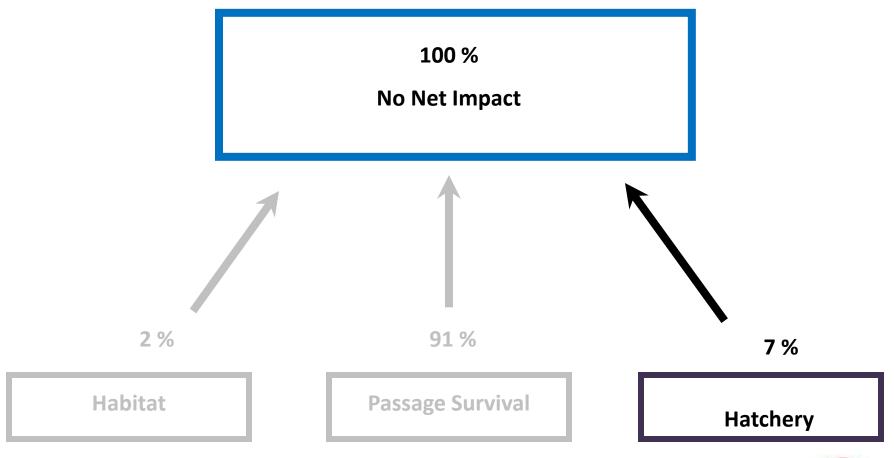


## **Habitat Conservation Plans**

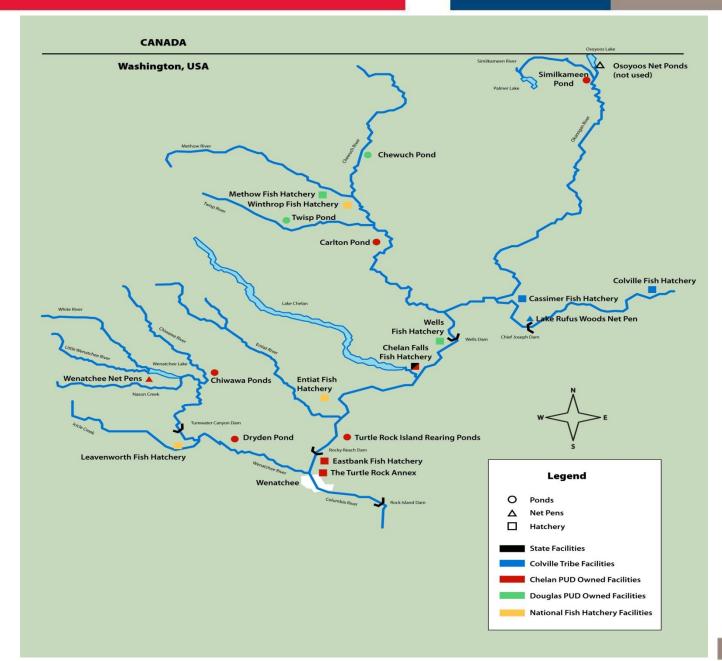
- Signed by:
  - Chelan County PUD
  - Colville Confederated Tribes
  - National Marine Fisheries Service
  - U.S. Fish and Wildlife Service
  - Washington Department of Fish and Wildlife
  - Yakama Nation



## **Habitat Conservation Plans**







### **Hatchery Operations and Contracted Productions**

**Washington Department of Fish and Wildlife** 

**Contracted Production** 

**Okanagan Nations Alliance** 

**Douglas County PUD** 

**Colville Confederated Tribes** 

**Yakama Nation** 



## Conceptual Approach to Monitoring and Evaluating the Chelan County Public Utility District Hatchery Programs

Final Report

Andrew Murdoch Chuck Peven

Prepared for:
Chelan PUD Habitat Conservation
Plan's Hatchery Committee
Committee members:

Brian Cates (USFWS)
Jerry Marco (Colville Tribes)
Kristine Petersen (NMFS)
Shaun Seaman (Chelan PUD)
Tom Scribner (YN)
Kirk Truscott (WDFW)

**July 2005** 





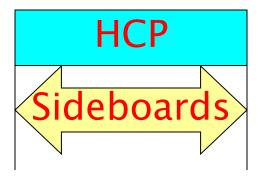








## Program Influences & Alignments



US v Oregon Hatchery Reform ESA Recovery Plans

Possible Prescriptive Drivers

www.chelanpud.org

## **HSRG** Review and Actions

- HSRG review in 2008
- Many changes completed or underway
  - Spring Chinook
  - Summer/Fall Chinook
  - Steelhead
  - Sockeye



## Upper Columbia River Recovery Plan

- Drafted by the UCSRB
- Adopted by NOAA Fisheries in 2007
- Short and long term objectives
- Short and long term actions
- Research and Monitoring Objectives and Actions



## Summary

- Overview of the HCPs
- Hatchery component of mitigation
- Hatchery programs
- Coordination with Hatchery Reform
- Coordination with Upper Columbia Salmon Recovery Plan



## Questions

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509-661-4459
Shaun.seaman@chelanpud.org

