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September 4, 2013

#### **MEMORANDUM**

**TO:** Fish and Wildlife Committee Members

**FROM:** Tony Grover, Fish and Wildlife Division Director

**SUBJECT:** Update on Columbia basin Salmon and Steelhead Recovery Planning

Elizabeth Holmes Gaar, NOAA Fisheries, will update the Committee on the status of Columbia River basin recovery planning and implementation for salmon and steelhead listed as threatened or endangered under the Endangered Species Act. She also will overview recovery plan components and the potential relationships and synergies between the recovery plans and the Council's Fish and Wildlife Program.

The Endangered Species Act requires NOAA-Fisheries to develop and implement recovery plans for salmon and steelhead species listed under the Act. Recovery plans identify viability criteria, limiting factors, and actions needed to restore threatened and endangered species to the point that they are again self-sustaining elements of their ecosystems and no longer need protection. Although recovery plans are guidance, not regulatory documents, the Act envisions recovery plans as the central organizing tool for guiding and coordinating recovery efforts across a wide spectrum of federal, state, tribal, local, and private entities. Recovery planning is an opportunity to find common ground among diverse interests, obtain needed protection and restoration for salmon and their habitat, and secure the economic and cultural benefits of healthy watersheds and rivers. Recovery planning is a collaborative effort that draws on the collective knowledge, expertise, and actions of communities and partnerships.

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# **NOAA** FISHERIES

Northwest Region

# Columbia River Salmon and Steelhead Recovery Updates

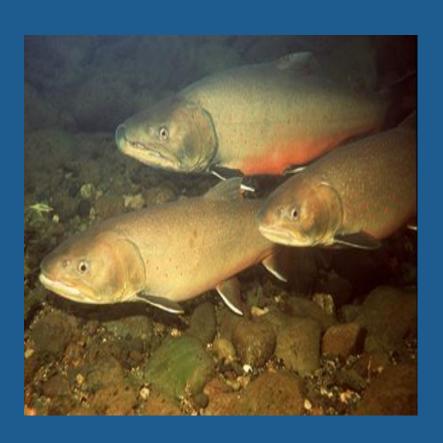
NW Power and Conservation Council September 10, 2013

Elizabeth Holmes Gaar NOAA Fisheries, NW Region

# **Presentation Topics**

- Context and History
- Status of Columbia Basin salmon and steelhead recovery plans
  - Emphasis on Snake River Recovery Plan
- Recovery plan components and links to Fish and Wildlife Program components
- Collaborative Recovery infrastructure

# **Context - ESA and FWP Purposes**

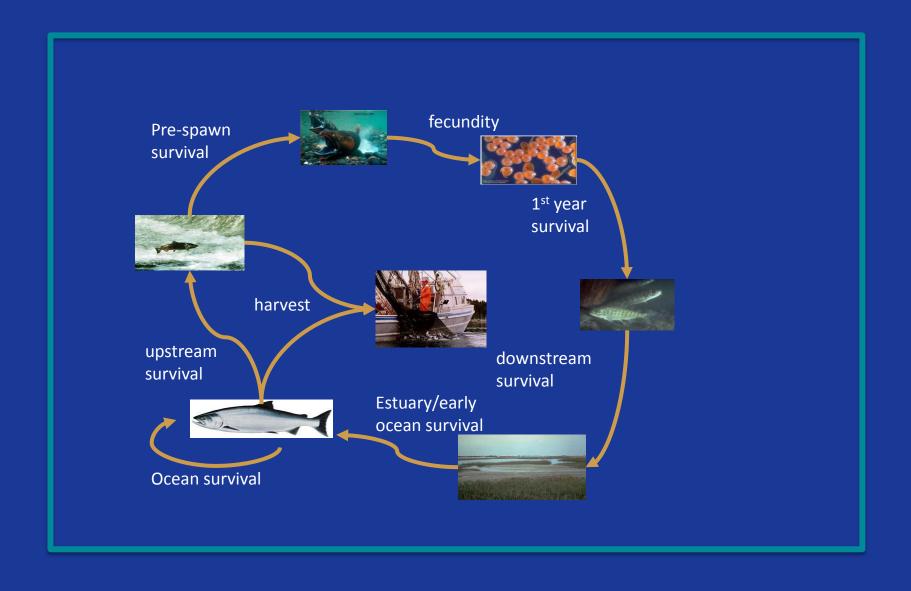


ESA Purpose:

Conserve the ecosystems
upon which endangered and
threatened species depend
Provide a program to conserve
endangered and threatened
Species

NWPA FWP purpose: Protect, mitigate, enhance

#### **Context - Life Cycle Approach**

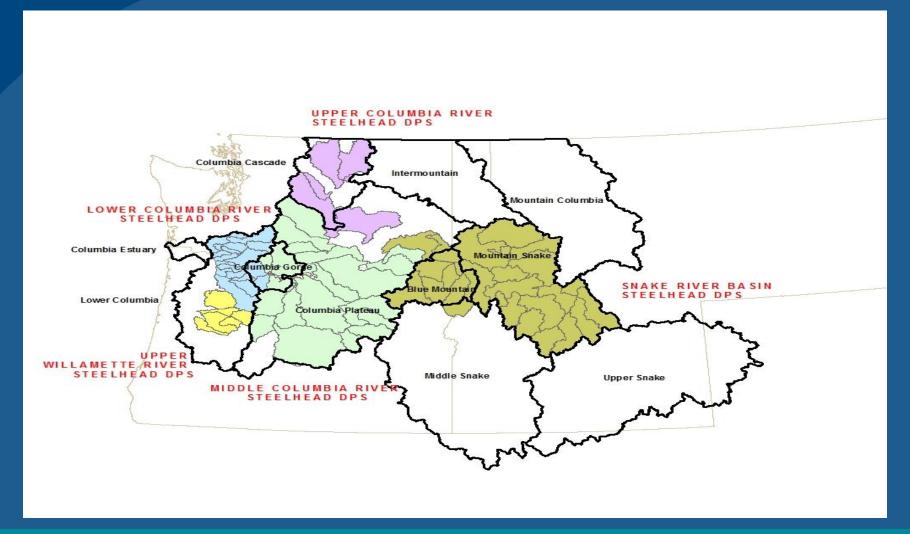


# History and Context: FWP Subbasin Plan and Recovery Plan Evolution

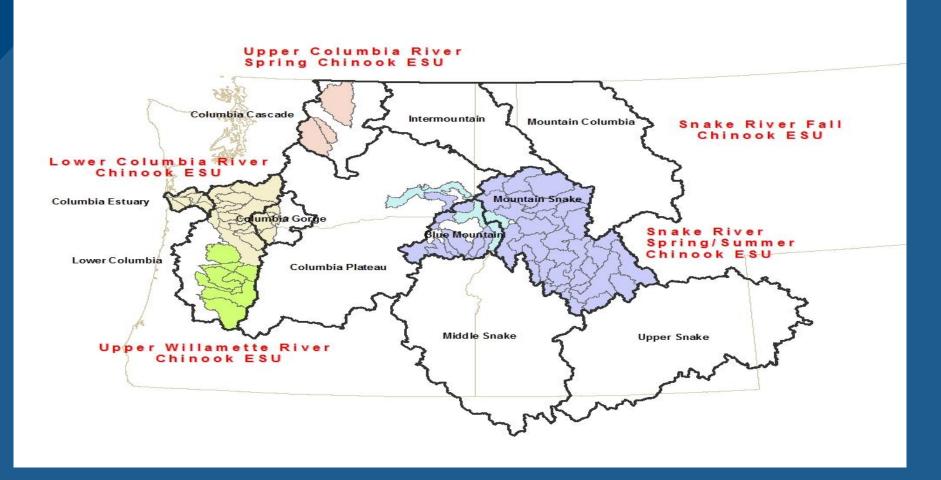
- 2004 2005 Subbasin Plans: Assessments + Management Plans.
  - NOAA worked closely with Council so could build recovery plans from subbasin plans
  - Represented best available science at the time
- 2007 Upper Columbia Recovery Plan
- 2009 Mid C Steelhead Recovery Plan
- 2013 Lower Columbia and Willamette Recovery Plans
- 2014 Proposed Snake Recovery Plan
- 2015 Final Snake Recovery Plan



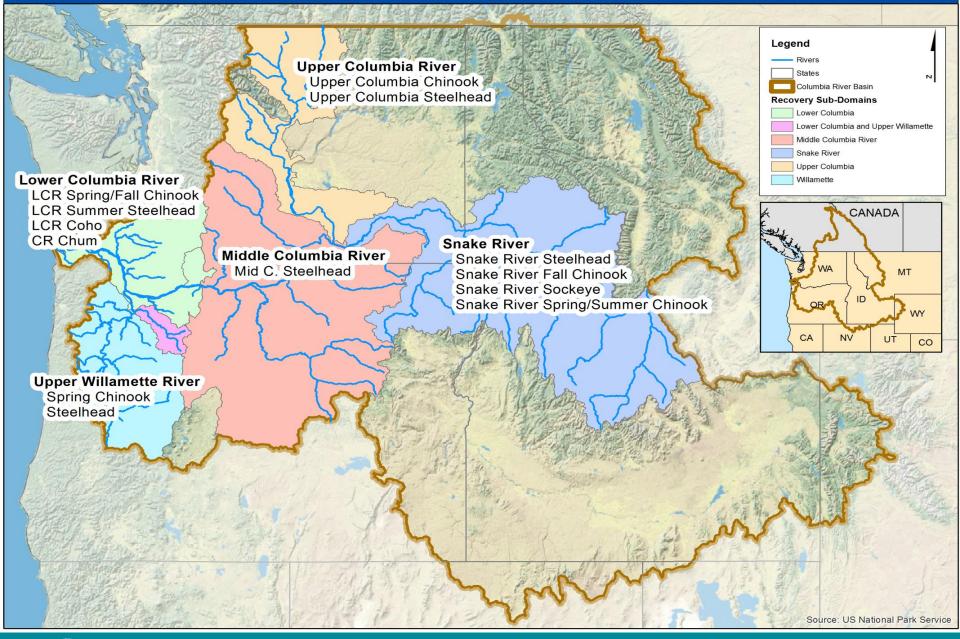
## Context: provinces and steelhead distribution



# Context: Provinces and Sp/Su Chinook



#### Columbia River Basin Listed Salmon and Steelhead

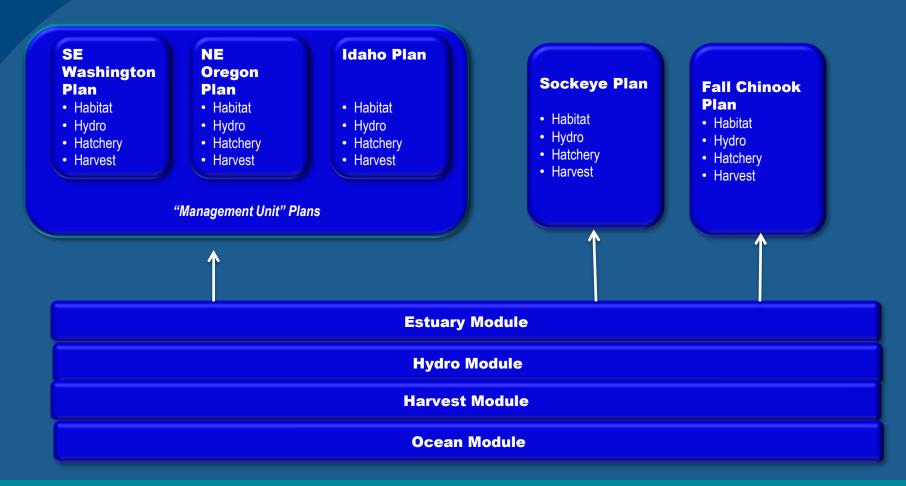




#### **Architecture of Snake River Recovery Plans**

- addresses all four listed species -

Spring/Summer Chinook & Steelhead "Roll-up" Plan





# Status - Snake Recovery Plan Schedule

Early 2014 – Notice of Proposed Recovery Plans

2015 – Final Recovery Plans

2018 – Update Plans



# **Recovery Plan Updates**

US v. OR

#### 2015 Final Snake River Recovery Plans

Hatchery Genetic Management Plans

Forest Plan Updates

**FCRPS** 

2013 "Situation Assessment"

NPCC Fish & Wildlife Program Amendments(s)

Other Biological Opinions

US-Canada Treaty

FERC Relicensing

Research & Monitoring

**Recovery Plan Updates** 



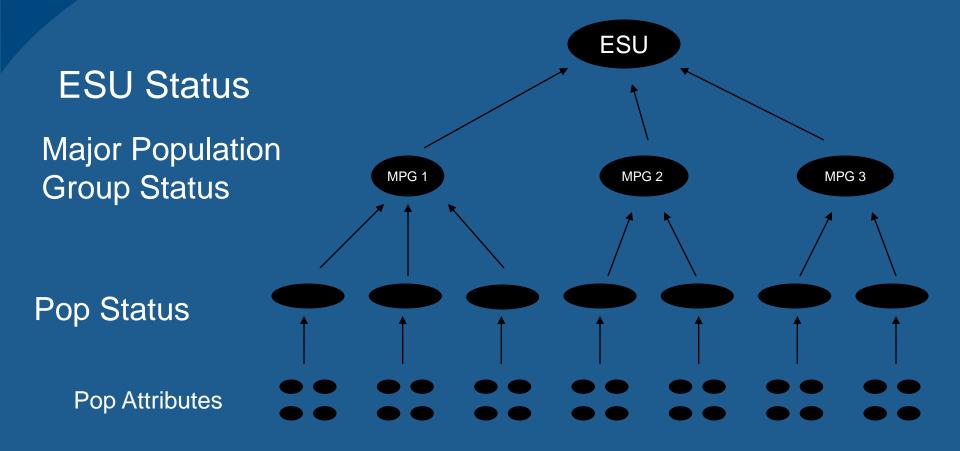
# Recovery Components

- Recovery objectives & criteria (viability & threats)
- Broad Sense goals
- Current status
- Limiting factors & threats
- Site-specific actions
- Estimates of time & costs to recovery
- Research, monitoring & evaluation to track progress
- Adaptive management built into implementation systems

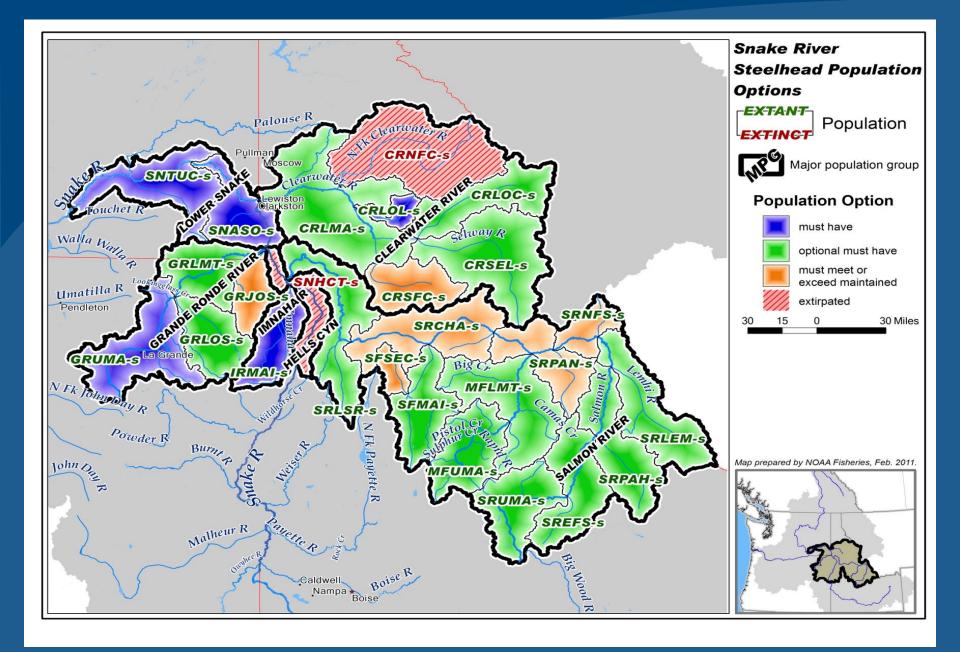
#### **Components: Recovery Viability Objectives**

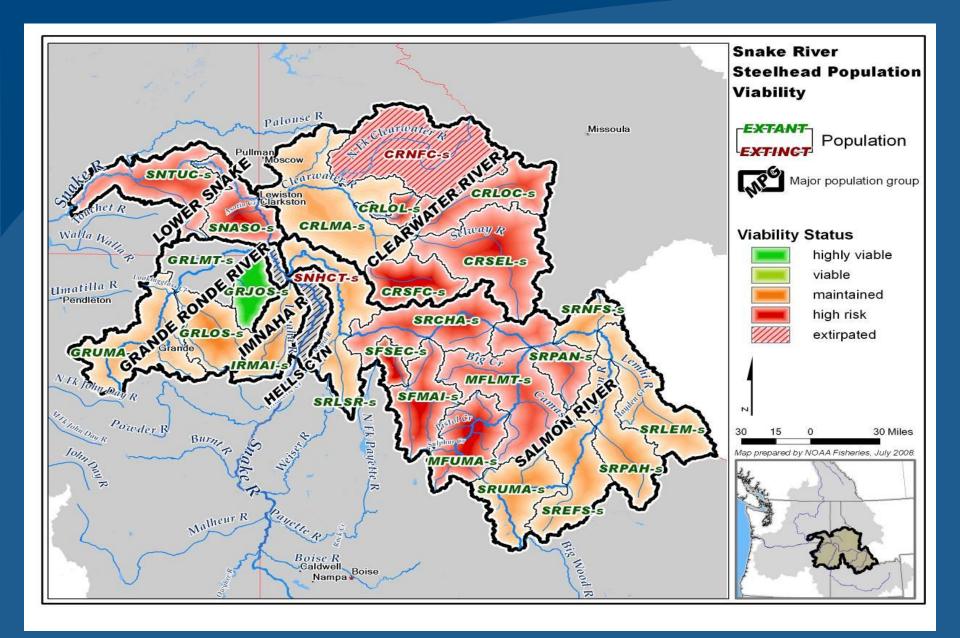
- Abundance and productivity combinations sufficient to maintain genetic, life history and spatial diversity and exhibit demographic resilience to environmental perturbations.
- Spatial structure: such that the species is distributed in a manner that insulates against loss from a local catastrophic event and provides for recolonization if such an event occurs.
- Diversity such that natural production will be sustained across a range of conditions, allowing for adaptation to changing environmental conditions.

# Components: Viability Criteria: Hierarchical Framework

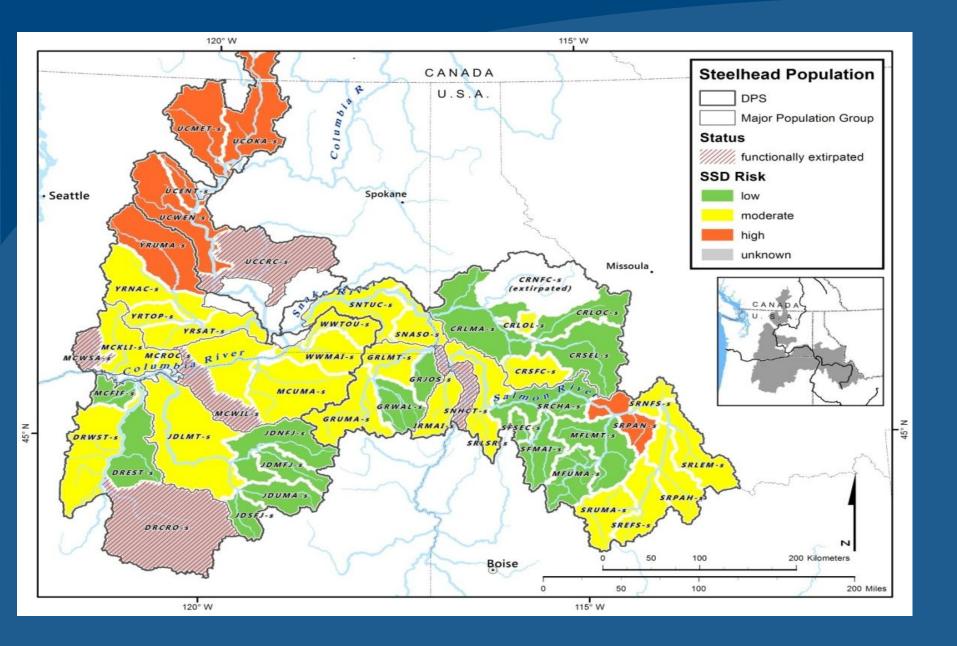












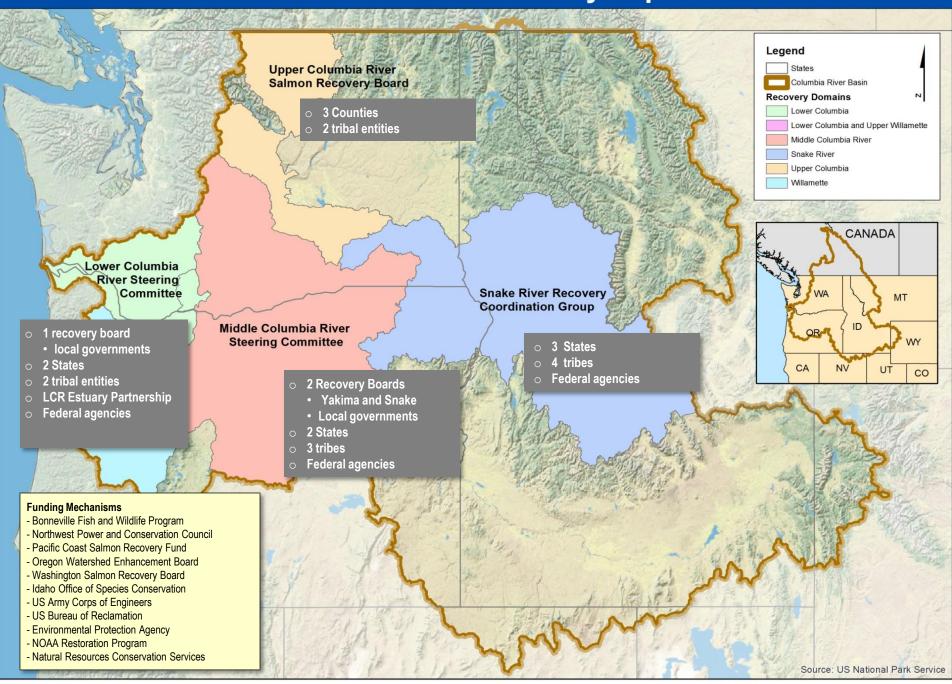


# Recovery Components provide a Strategic Framework

- Limiting Factors best available science assessments and common language (data dictionary)
- Strategies habitat, hatchery, harvest, hydro
- Site specific Actions –based on strategies, limiting factors and priority areas
- Evaluation
  - Habitat Status and Trend and Fish Response
    - Columbia Habitat Monitoring Program (CHaMP) in coordination with others, i.e. PiBo
    - Intensively Monitored Watersheds (IMWs)
  - FCRPS
  - Hatcheries
  - Harvest
  - Estuary and Ocean
- Adaptive Management and Updates



#### **Local Columbia River Recovery Implementation**



### Infrastructure: Columbia River Salmon Recovery

Upper Mid Lower Snake Columbia Columbia Columbia Recovery **Steering** Recovery Steering Coordinat Committee Board Committee Group Local Habitat Habitat Habitat Habitat Hvdro Hydro Subbasin Hydro Hydro Hatchery Hatchery Hatchery Hatcherv Harvest Influence Harvest Harvest Harvest **FCRPS BiOp Basin-Wide and** Fish & Wildlife Program More **Mainstem & Ocean Harvest Agreements Estuary Plan Ocean Science & Climate Change** Other Funding Programs - PCSRF, OWEB, GSRO, etc



### Next

- 2018 and beyond
- Long Term recovery that goes beyond ESA
- Basin-wide strategies

2015 - Final Recovery Plans

2018 – Update Plans





## Potential extra slides



# Recovery Funds: Upper Col Example

BPA non-accord – 3.5 million

• PUDs – 3.0 million

• SRFBd 2.0 million

Yakama MOA 6.0 million

• Colville MOA 3.0 million

• BOR 4.0 million

• Other 1.0 million

#### PCSRF Funding and Results: Interior Columbia (FY2000-FY2012)

#### Performance Measures

Metric	Completed	Remaining
Instream Habitat		
Stream Miles Treated	254.00	85.00
Wetland Habitat		
Acres Created	23.0	5.0
Acres Treated	1,148.0	37.0
Land Acquisition		
Acres Acquired or Protected	88,754.0	9,075.0
Stream Bank Miles Acquired or Protected	3,011.00	525.00
Riparian Habitat		
Stream Miles Treated	3,763.00	787.00
Acres Treated	44,964.0	13,283.0
Upland Habitat		
Acres Treated	410,822.0	19,947.0
Fish Passage		
Barriers Removed	162	30
Miles Opened	3,422.00	658.00
Fish Screens		
Screens Installed	1,675	43
Research and Monitoring		
Stream Miles Monitored	46,245.00	6,075.00
Planning and Assessment		
Stream Miles Assessed	2,859.00	199.00

#### Funds

Source	Funds
PCSRF	\$146,962,456
State	\$149,252,158
Other	\$187,208,390
In-Kind Volunteers	\$1,295,537
In-Kind Donated Labor	\$8,202,246
In-Kind Other	\$17,187,717
report total:	\$510,108,503

#### PCSRF Funding and Results: Willamette/Lowe Columbia (FY2000-FY2012)

#### Performance Measures

Metric	Completed	Remaining
Instream Habitat		
Stream Miles Treated	116.00	81.00
Wetland Habitat		
Acres Created	176.0	.0
Acres Treated	4,353.0	168.0
Estuarine Habitat		
Acres Created	51.0	.0
Acres Treated	437.0	289.0
Land Acquisition		
Acres Acquired or Protected	5,834.0	45.0
Stream Bank Miles Acquired or Protected	60.00	6.00
Riparian Habitat		
Stream Miles Treated	941.00	326.00
Acres Treated	14,600.0	5,097.0
Upland Habitat		
Acres Treated	9,358.0	1,606.0
Fish Passage		
Barriers Removed	48	1
Miles Opened	1,063.00	69.00
Fish Screens		
Screens Installed	3	1
Hatchery Fish Marked		
Fry/Smolt Marked And Released	21,900,000	220,000
Research and Monitoring		
Stream Miles Monitored	20,103.00	4,557.00
Planning and Assessment		
Stream Miles Assessed	3,784.00	1,515.00

#### Funde

Source	Funds
PCSRF	\$103,871,710
State	\$65,611,880
Other	\$78,820,629
In-Kind Volunteers	\$7,377,544
In-Kind Donated Labor	\$7,203,000
In-Kind Other	\$20,165,212
report total:	\$283,049,976

