

*Science, Service, Stewardship*

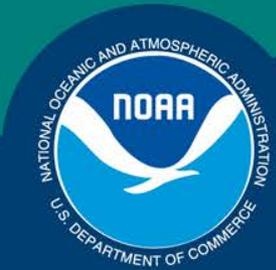


# Snake River Recovery Planning

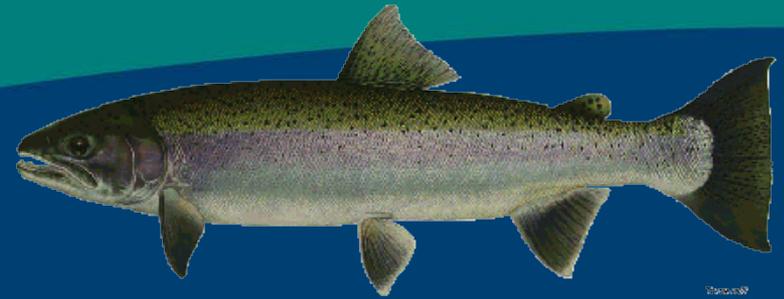
Snake River Coordination Group Meeting  
August 4, 2010

**NOAA  
FISHERIES  
SERVICE**

NOAA



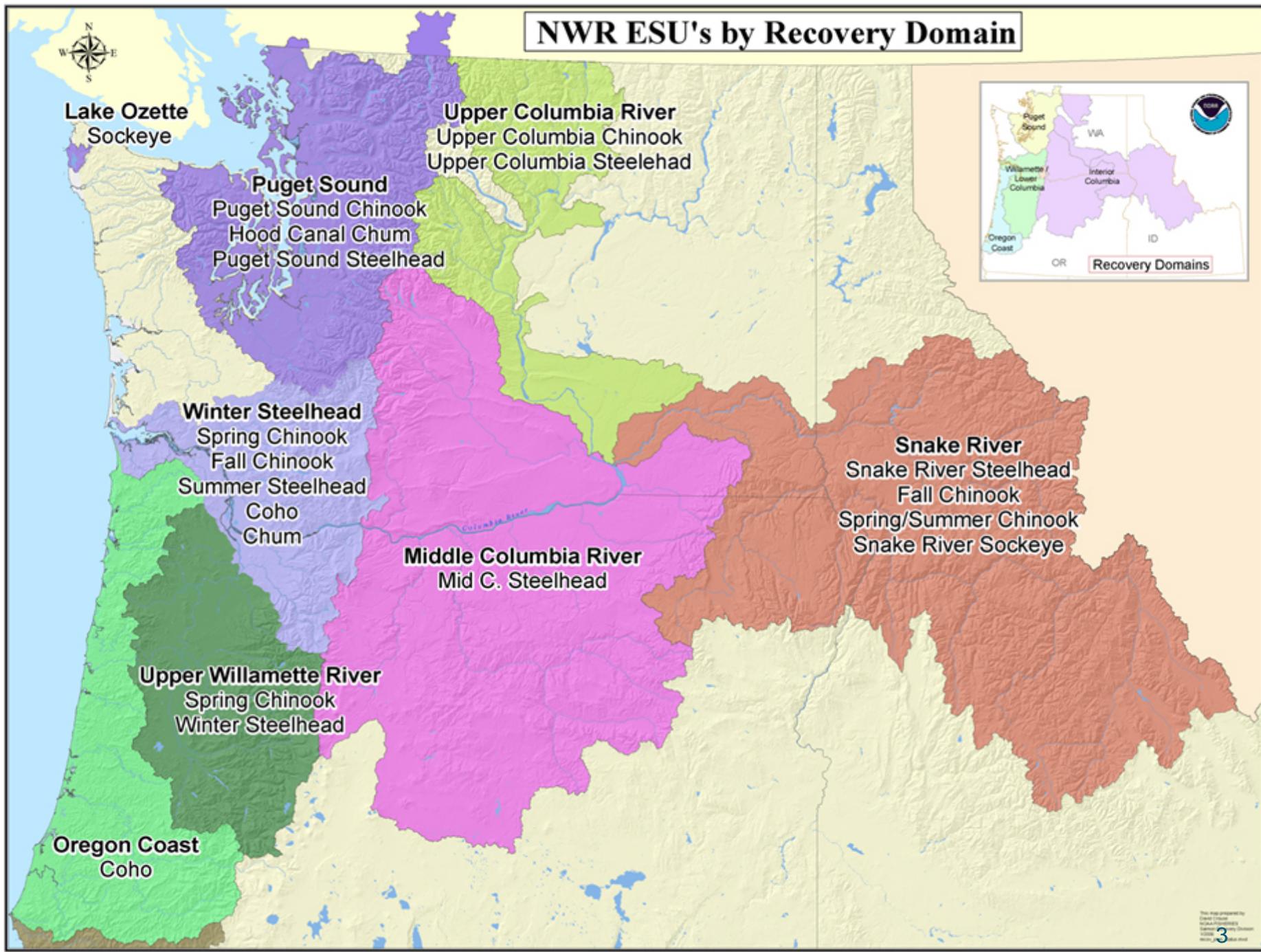
# Topics

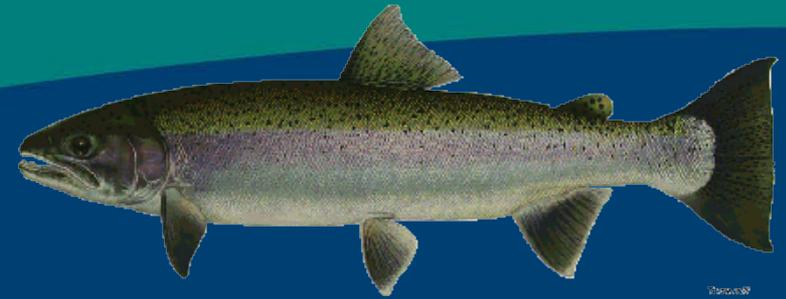


## Overview of Snake River Roll-up Recovery Plan

- Background on ESA Recovery Plans
- Proposed content of Snake River roll-up Plan
- Scope and scale of Snake River roll-up Plan
- Integration of three Management Unit Plans:
  - (NE Oregon, SE Washington and Idaho)
- Proposed schedule for notice and adoption of roll-up Plan

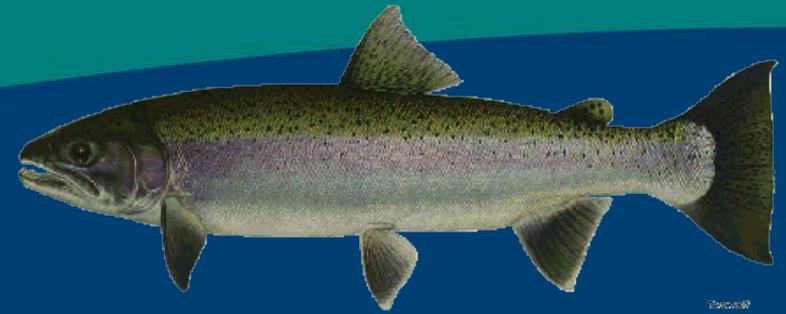
# NWR ESU's by Recovery Domain





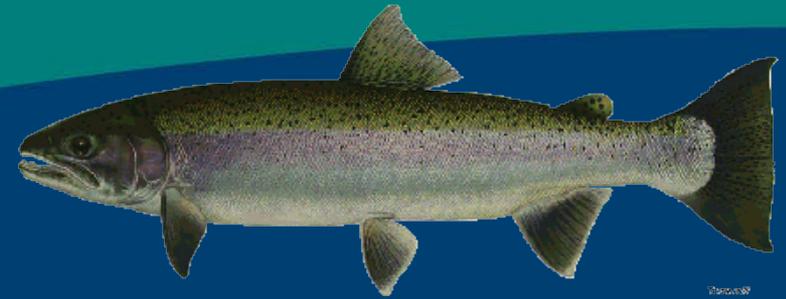
# Snake River Recovery Domain

- Four Snake River listed species:
  - Spring/summer chinook listed as threatened in 1992
  - Fall chinook listed as threatened in 1992
  - Sockeye listed as endangered in 1991
  - Steelhead listed as threatened in 1997
- Parts of three states
- NMFS preparing ESU/DPS level “roll-up” Snake River Recovery Plan



# Recovery Plan Basics

- Are required by the Endangered Species Act
- Are a road map to recovery:
  - Sets goals and priorities
  - Targets actions
  - Provides guidance for recovery of listed species
- Help secure the economic and cultural benefits of healthy watersheds
- Are based on best available science



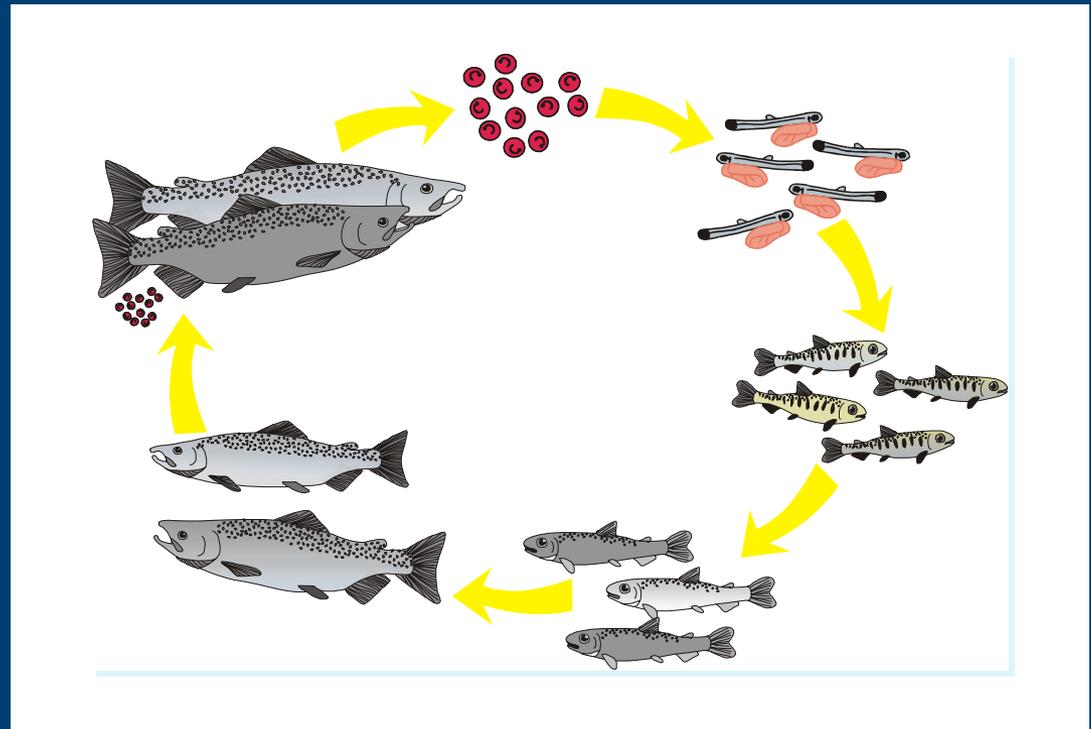
## Recovery Plans are not ...

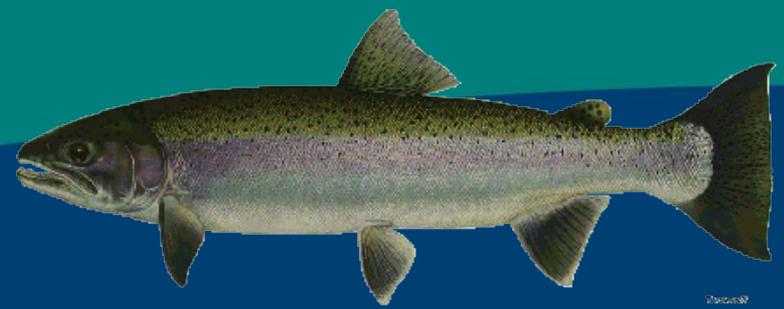
- Regulatory documents
- Replacement for existing laws or other documents



# Recovery Plans are Developed...

- Collaboratively
- Based on existing work & best available science
- Considering the complete life cycle
- Supported by broad base of stakeholders

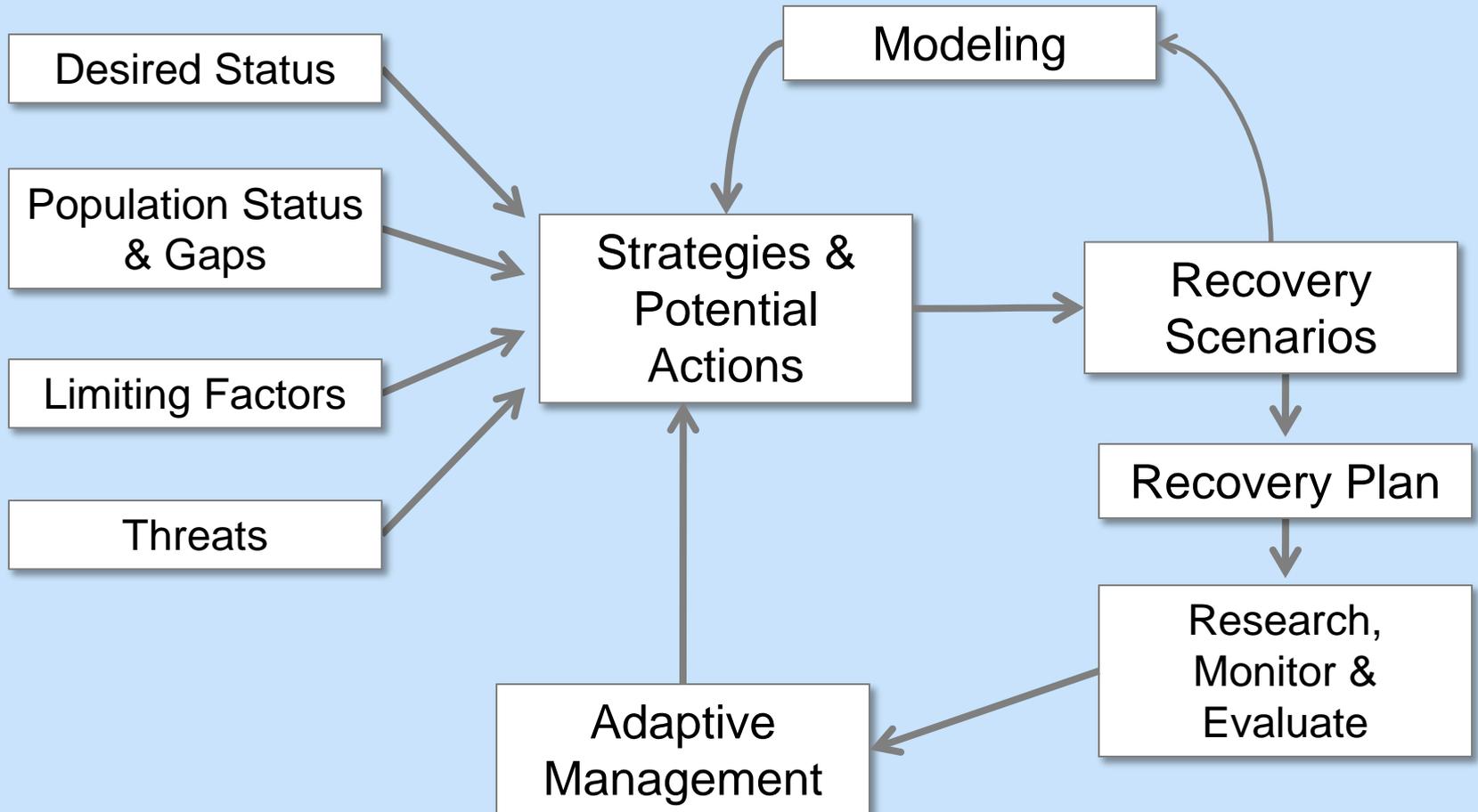


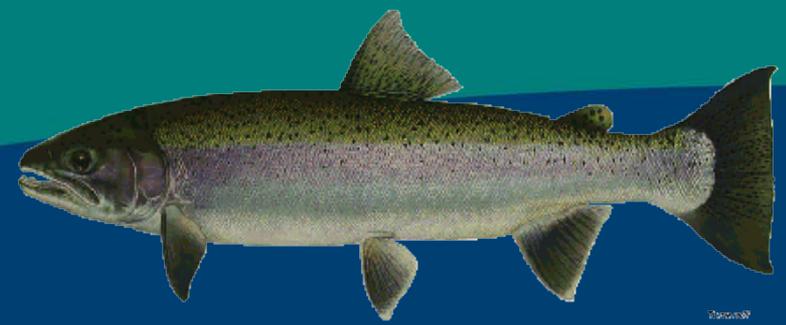


## What is in a Recovery Plan?

- Description of chinook, steelhead and sockeye biology and current status
- Recovery goals & criteria (biological viability & threats)
- Assessment of limiting factors, threats and gaps
- Recovery strategies & actions
- Estimates of time & costs to implement actions
- Research, monitoring & evaluation to track progress

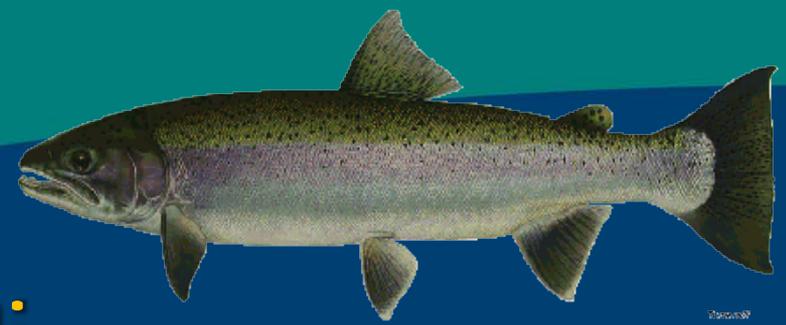
# How is a recovery plan developed and implemented?





## Biological Criteria used to Measure Current Status and Set Goals for Desired Status

- Productivity: number of adult spawner offspring produced per parent spawner
- Abundance: number of parent spawners
- Spatial Structure: geographic distribution of spawners
- Diversity: genetic, phenotypic and life history diversity

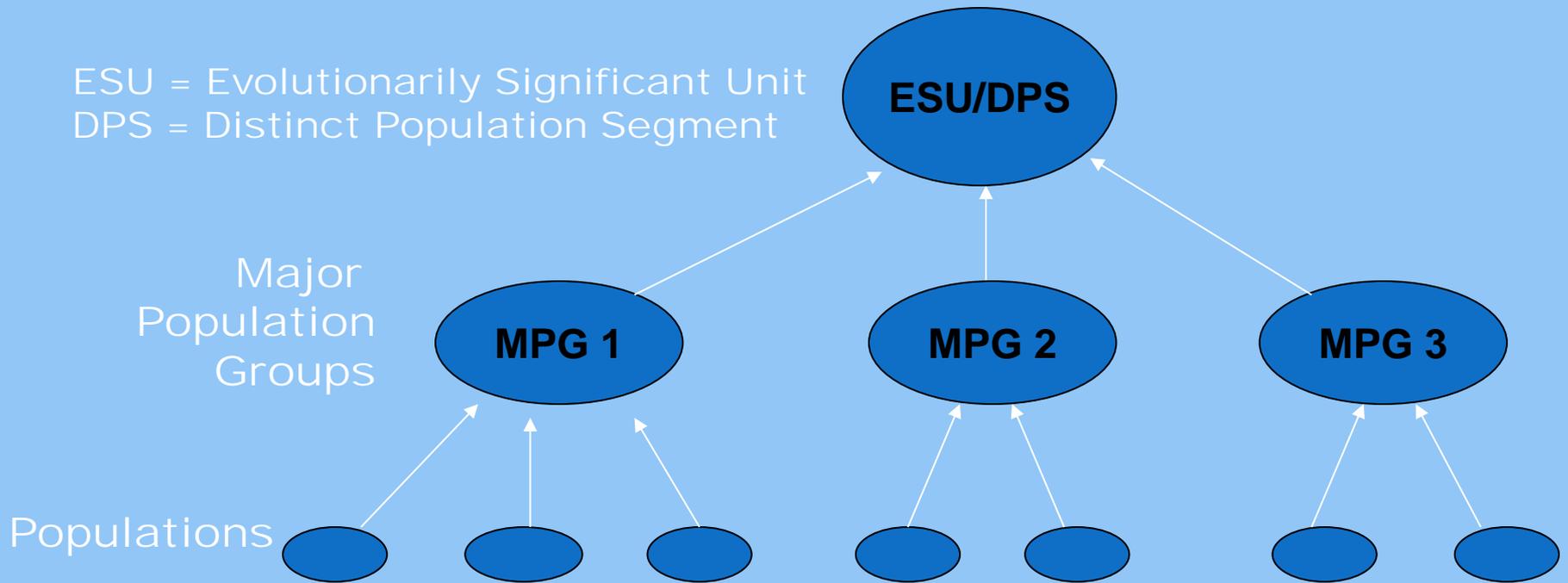


## Threats Criteria: Managing the underlying causes of decline

- The present or threatened destruction, modification, or curtailment of habitat or range
- Over-utilization for commercial, recreational, scientific, or educational purposes
- Disease or predation
- The inadequacy of existing regulatory mechanisms
- Other natural or manmade factors affecting the species' continued existence

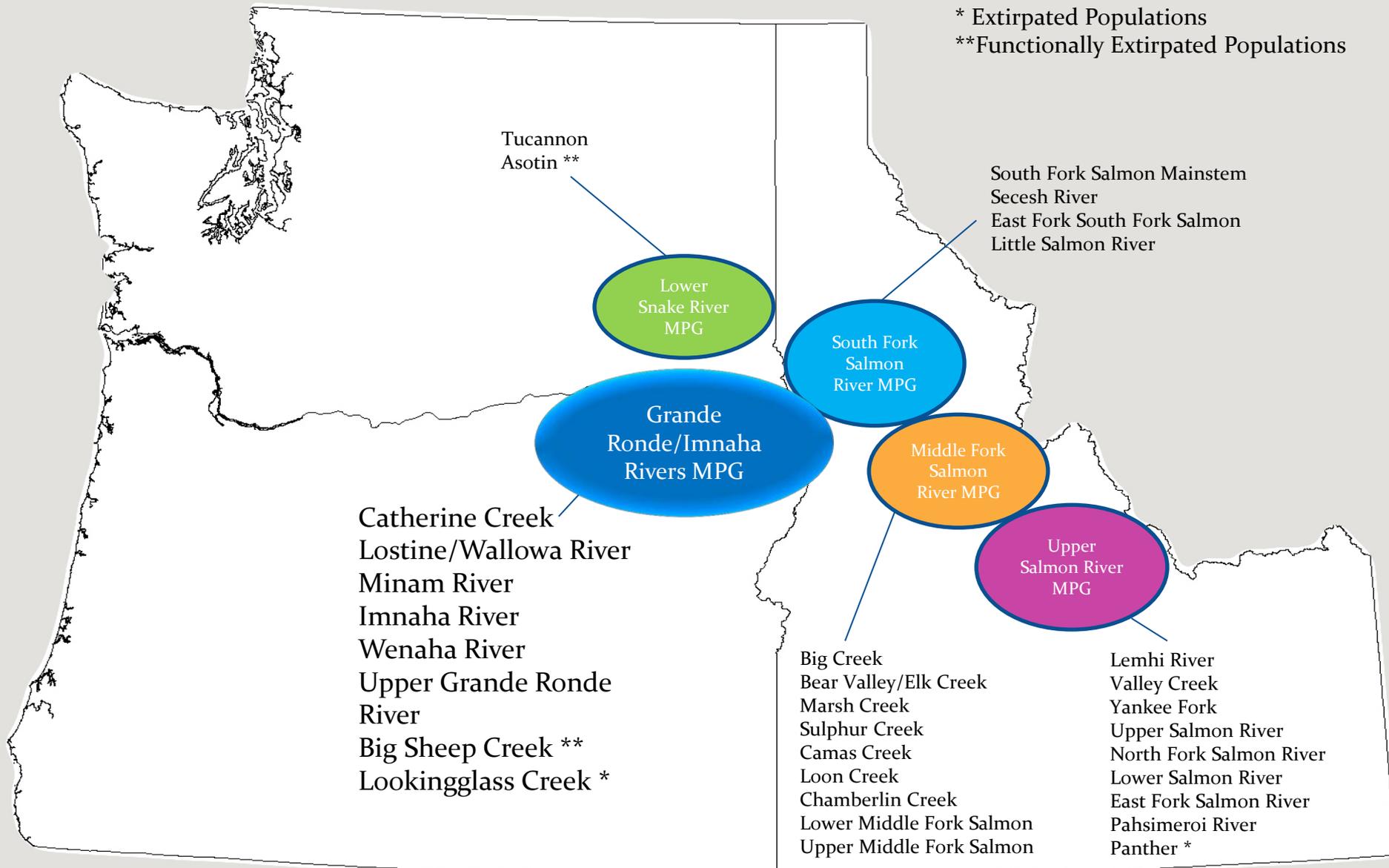
# Hierarchy in Salmonid Population Structure

ESU = Evolutionarily Significant Unit  
DPS = Distinct Population Segment



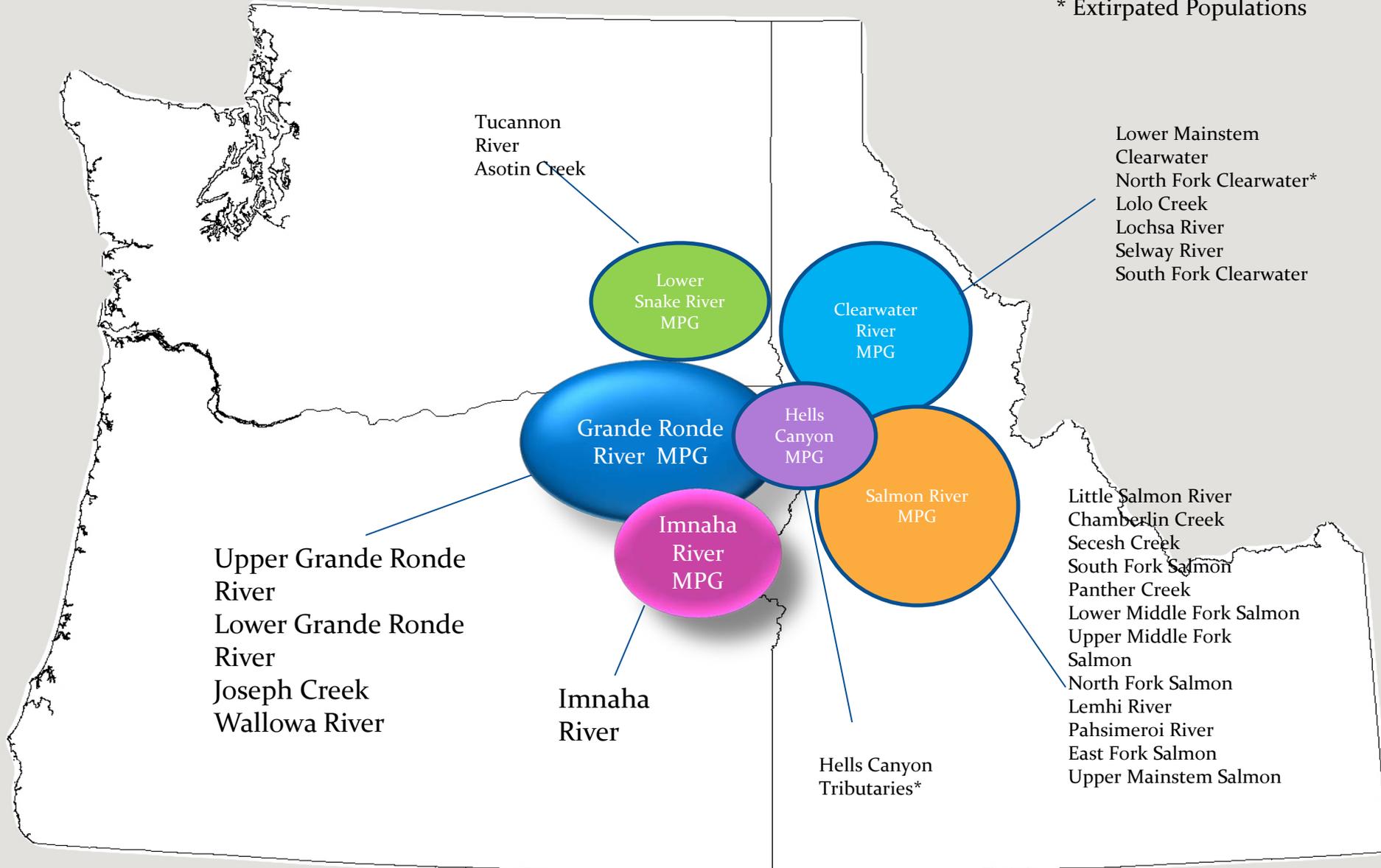
Population Attributes:  
abundance, productivity, diversity, spatial structure

# Snake River Spring/Summer Chinook MPGs and Populations

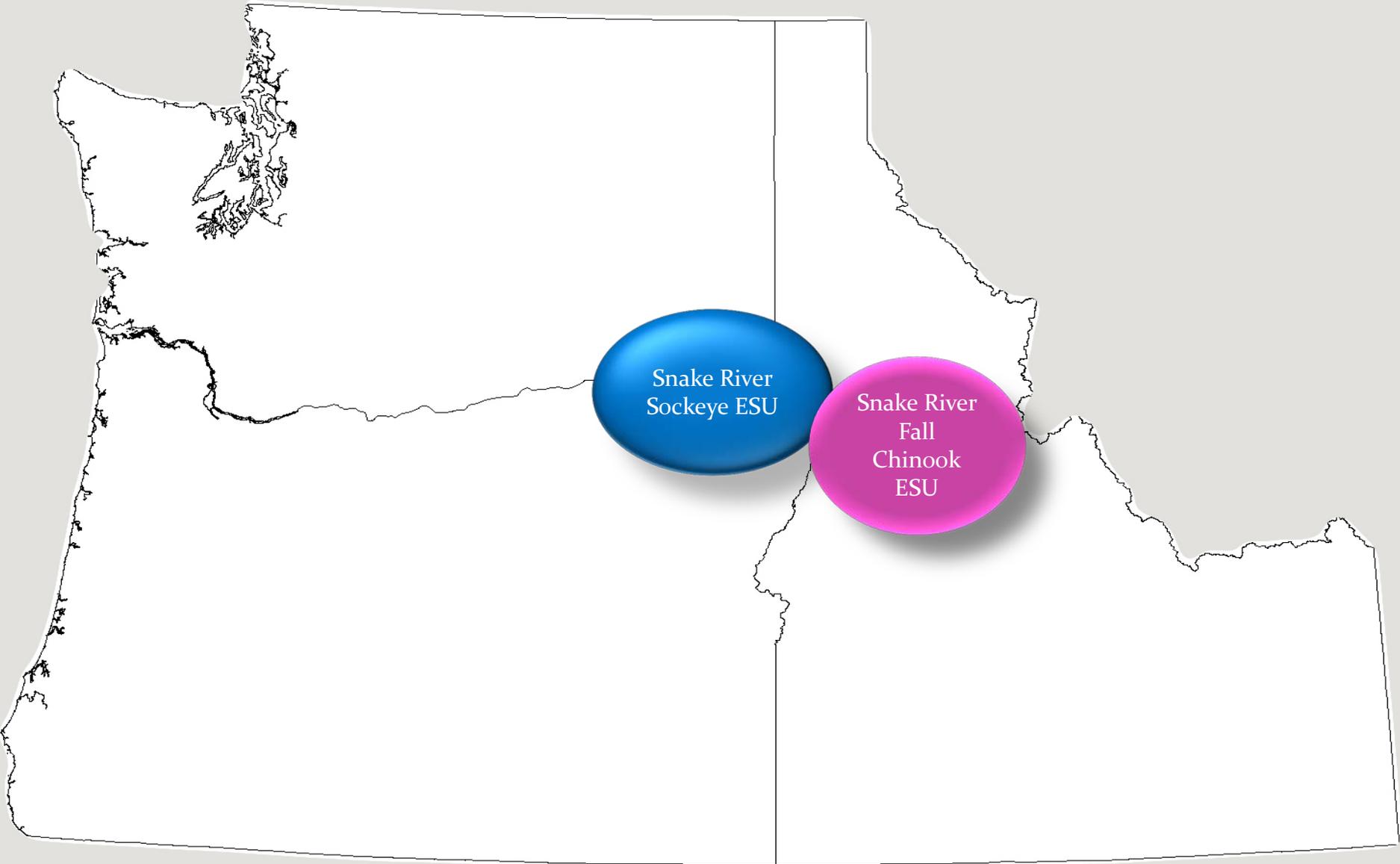


# Snake River Steelhead MPG and Populations

\* Extirpated Populations



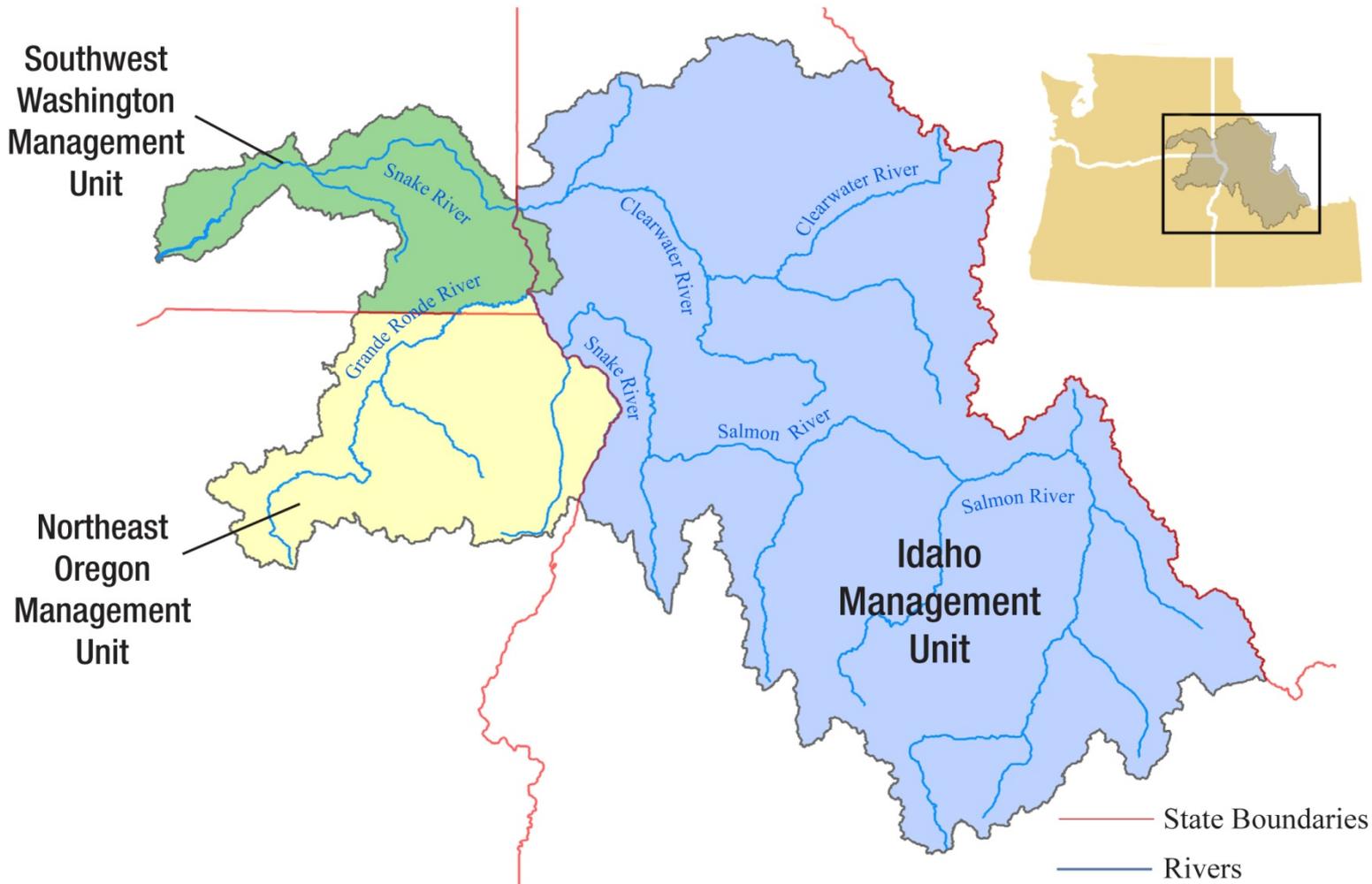
# Snake River Fall Chinook and Snake River Sockeye ESUs



Snake River  
Sockeye ESU

Snake River  
Fall  
Chinook  
ESU

# Snake River Recovery Plan Management Unit Boundaries



# Final Plan Completion Architecture

Snake River Recovery Plan  
"Roll-Up"



- Recovery goals and threats criteria
- Provides domain-wide summarization
- Describes methodology
- Addresses all 4 listed ESUs/DPSs
- Addresses all-H integration
- Adaptive Management and RM&E
- Identifies critical uncertainties
- Time and cost to recovery

Management Unit Plans  
Incorporated by Reference as Appendices

SE  
Washington  
Plan



Habitat  
Hydro  
Hatchery  
Harvest  
Appendices

NE  
Oregon  
Plan



Habitat  
Hydro  
Hatchery  
Harvest  
Appendices

Idaho  
Plan



Habitat  
Hydro  
Hatchery  
Harvest  
Appendices

Modules  
Incorporated by Reference as Appendices



Estuary



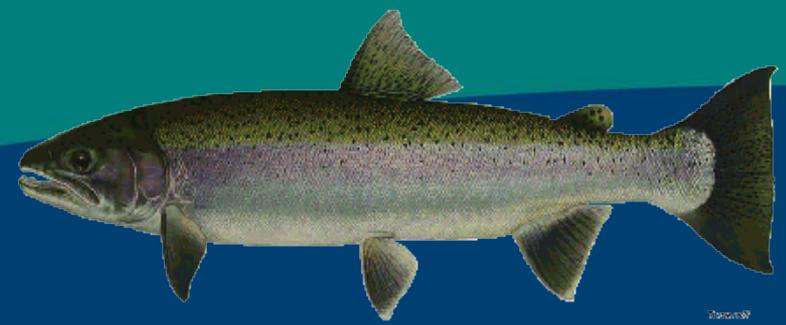
Hydro  
(BiOp)



Harvest  
Harvest BiOp and Summaries

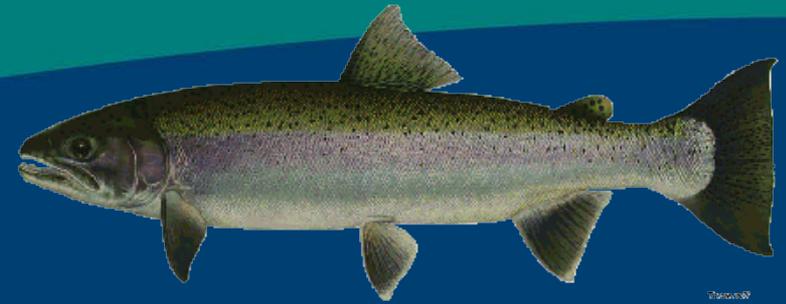


Hatcheries



## Proposed Timing

- Draft NE Oregon, SE Washington and Idaho Management Unit Plans: July 2010
- Draft sockeye and fall chinook plans: Sept. 2010
- Draft Snake River roll-up Plan: December 2010
- NMFS legal, regional and headquarters review:
  - January – April, 2011
- Federal Register Notice for public review: May 2011
- Adopt final Snake River recovery plan: May 2012



# Questions on Snake River roll-up Plan?