



Fish Status & Trends in the Siskiyou Region

Fish in the Siskiyou Region

Chinook Salmon

- Spring & Fall Run

Coho Salmon

Steelhead

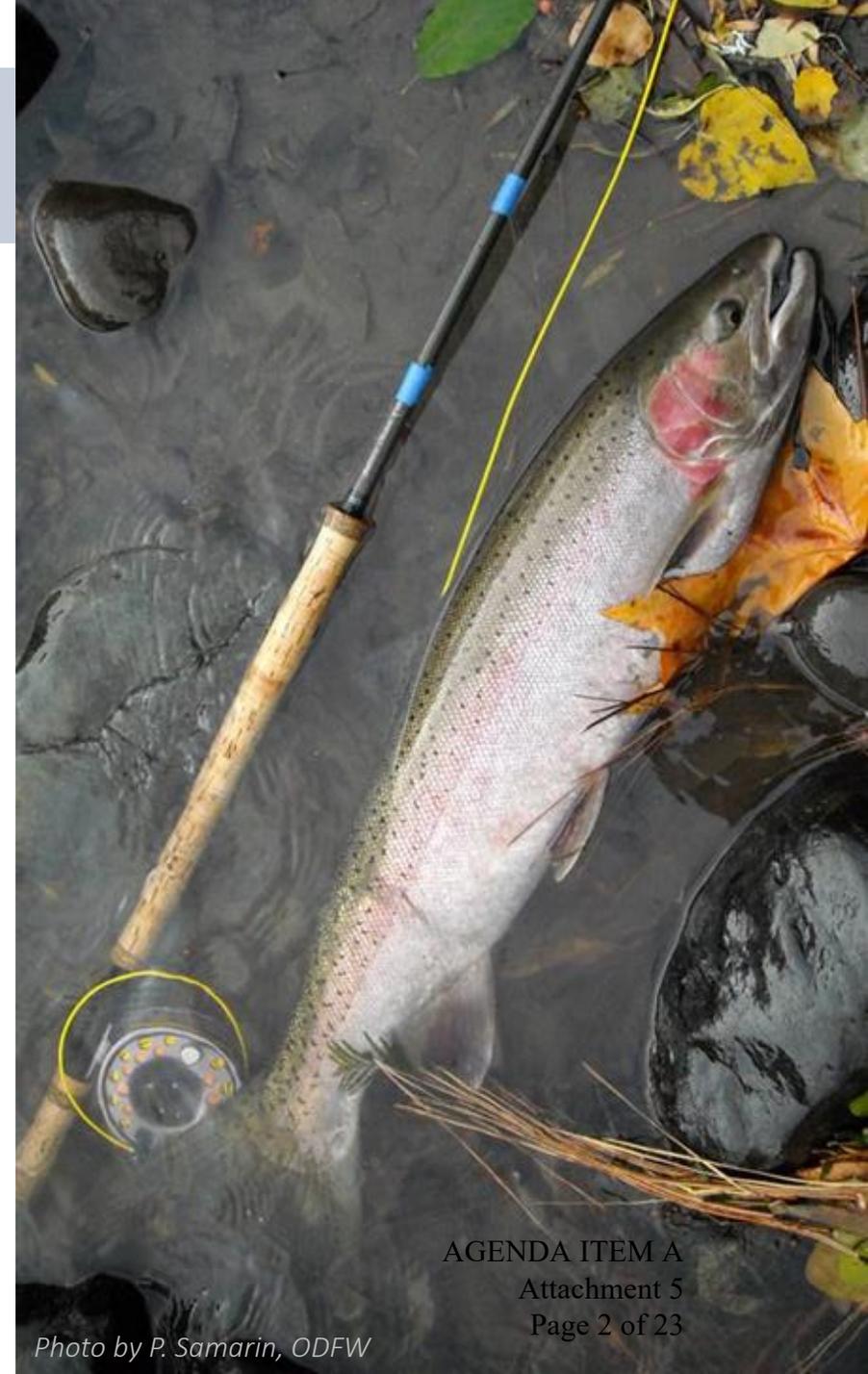
- Summer and Winter Run

Coastal Cutthroat Trout

Redband Trout (Jenny Creek)

Other Native Species

- Green Sturgeon, White Sturgeon, Speckled Dace, Sculpin,
Smallscale Sucker, Pacific Lamprey



Siskiyou Region Fish Populations

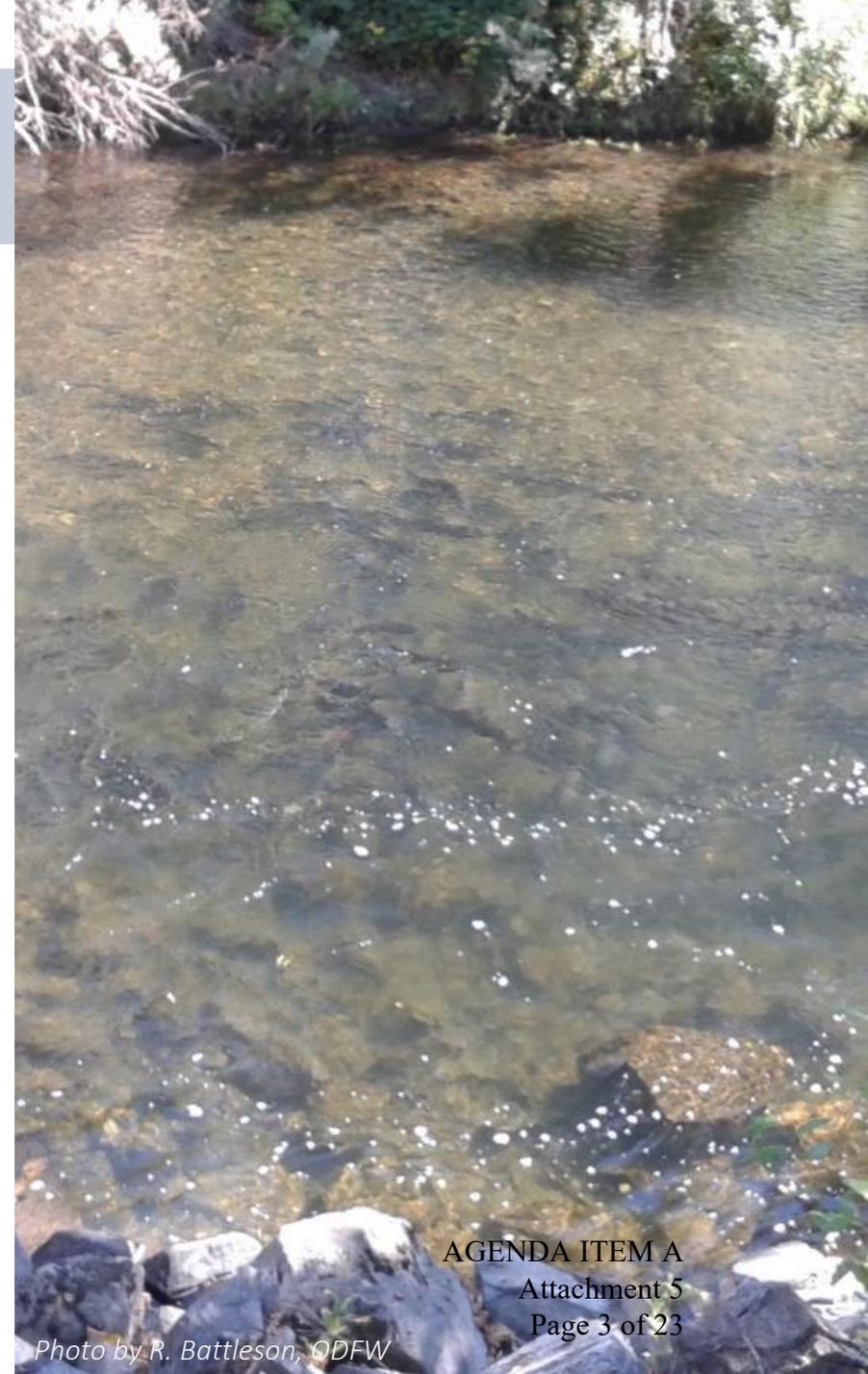
Landscape and Habitat

Limiting Factors

Status & Trends

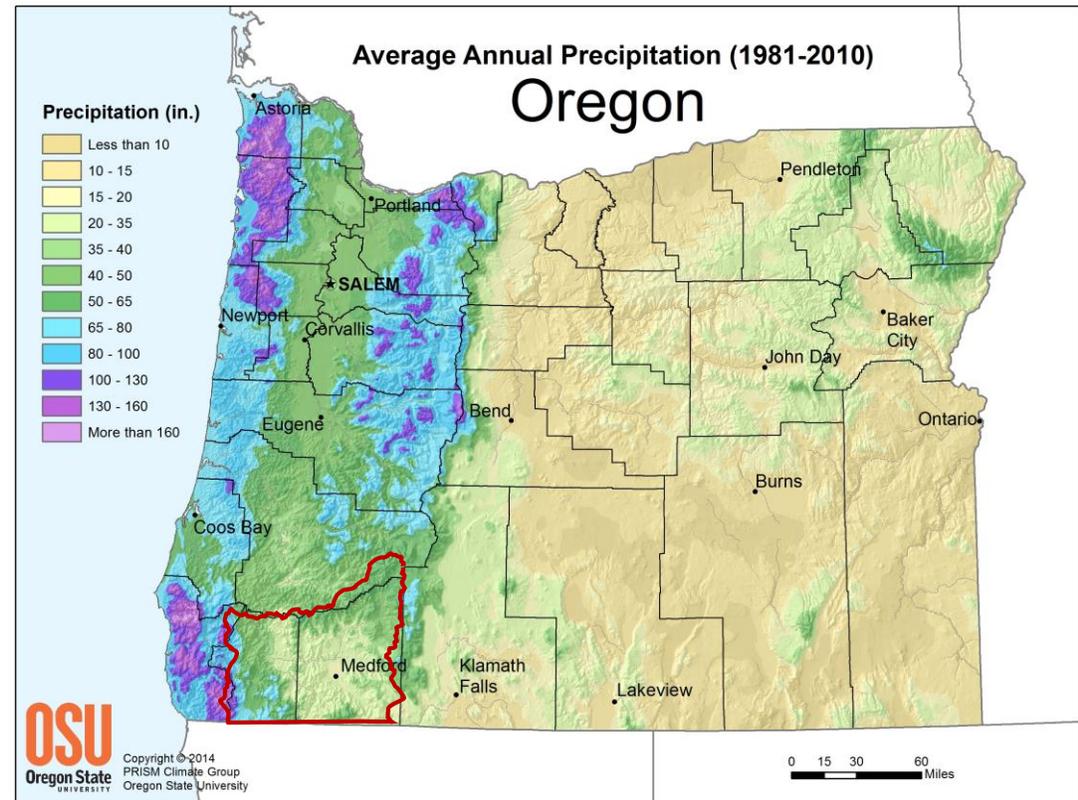
Thermal Complexity

Looking Forward



Siskiyou Region – Landscape & Habitat

- Multiple Ecoregions
- Ecological Ties
- Less Precipitation
- Higher Temperatures
- Steeper Stream Gradients
- Erosive Geology
- Human Footprint



Siskiyou Region outlined in red

Siskiyou Region Fish Populations

Limiting Factors

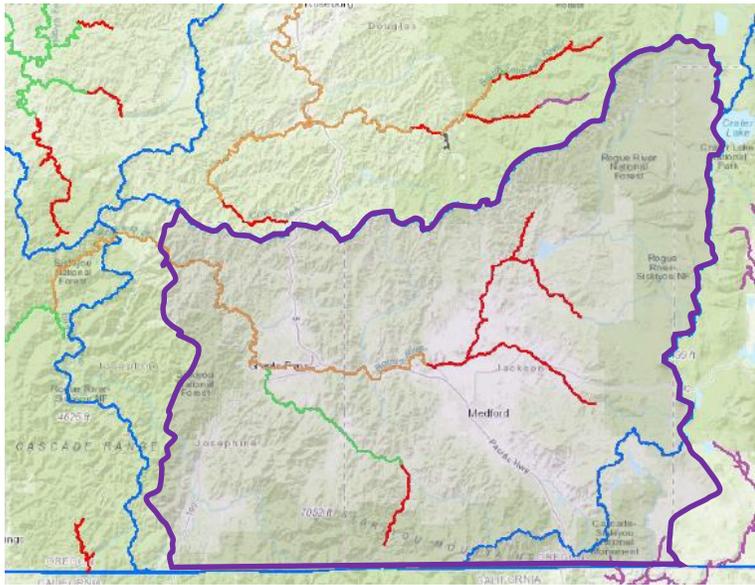
- Temperature
- Flow
- Habitat (Complexity & Connectivity)
- Non-native Species
- Harvest
- Hatcheries
- Ocean Conditions (*)



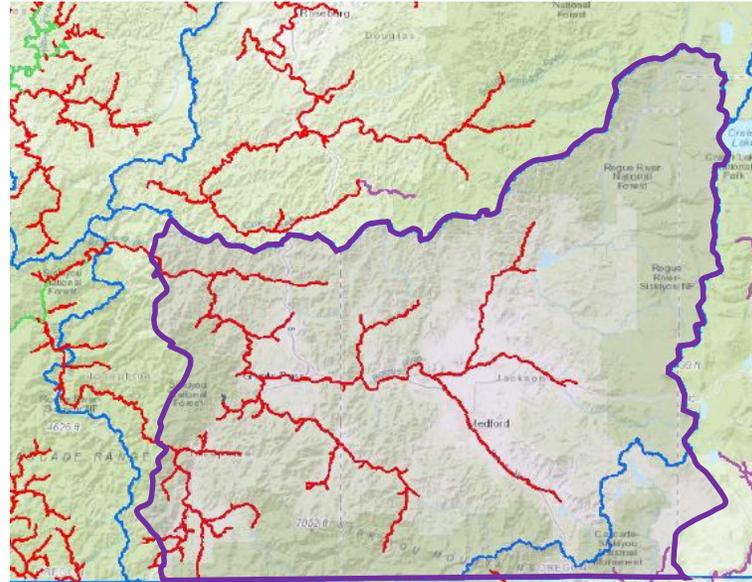
Siskiyou Region Fish Populations

Habitat Use/Distribution
Limiting Factors
Status & Trends
Thermal Complexity
Looking Forward

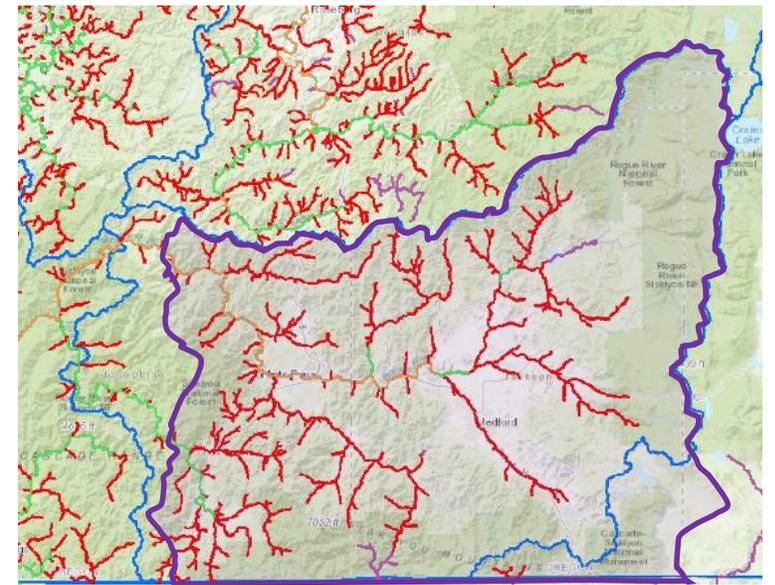




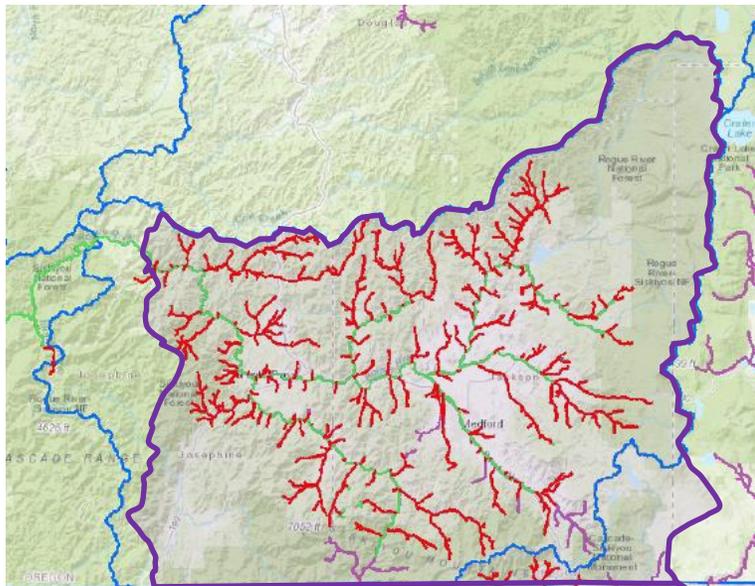
Spring Chinook



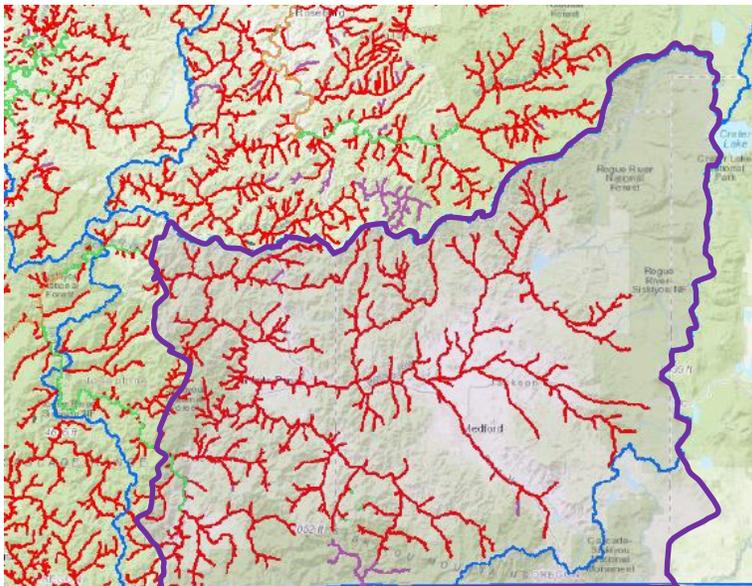
Fall Chinook



Coho Salmon



Summer Steelhead



Winter Steelhead



Cutthroat & Redband

Chinook Salmon

Spring Run

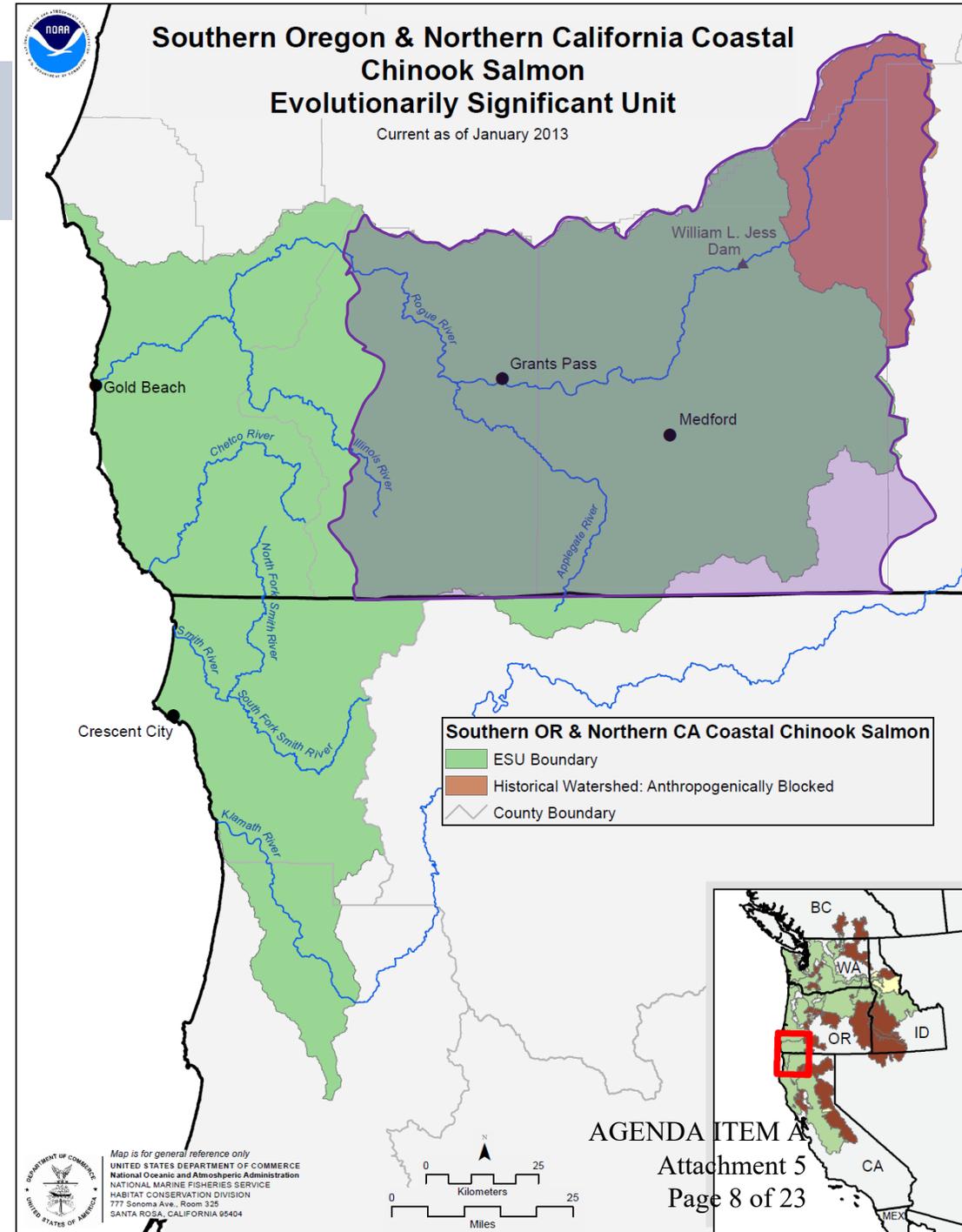
Rogue Spring Chinook Conservation Plan (2007)

- Habitat Protection & Restoration b/l William Jess Dam
- Reservoir Management Coordination
- Habitat Enhancement in Big Butte Creek
- Predation
- Manage Fishery Impacts
- Manage Hatchery Impacts

Fall Run

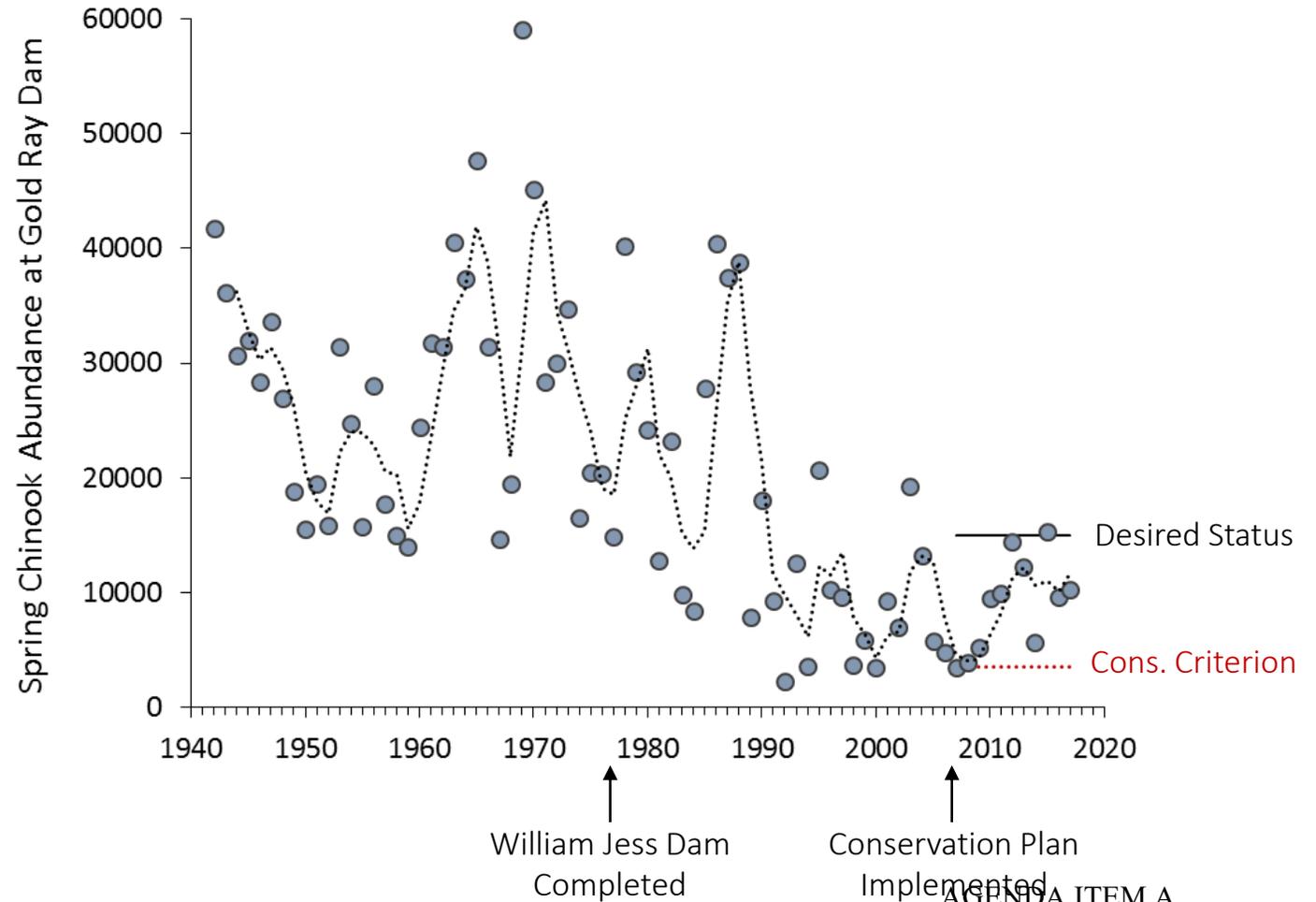
Rogue Fall Chinook Conservation Plan (2013)

- Habitat Restoration, Maintenance & Enhancement
- Reservoir Management Coordination
- Non-Native Species
- Predation
- Manage Fishery Impacts



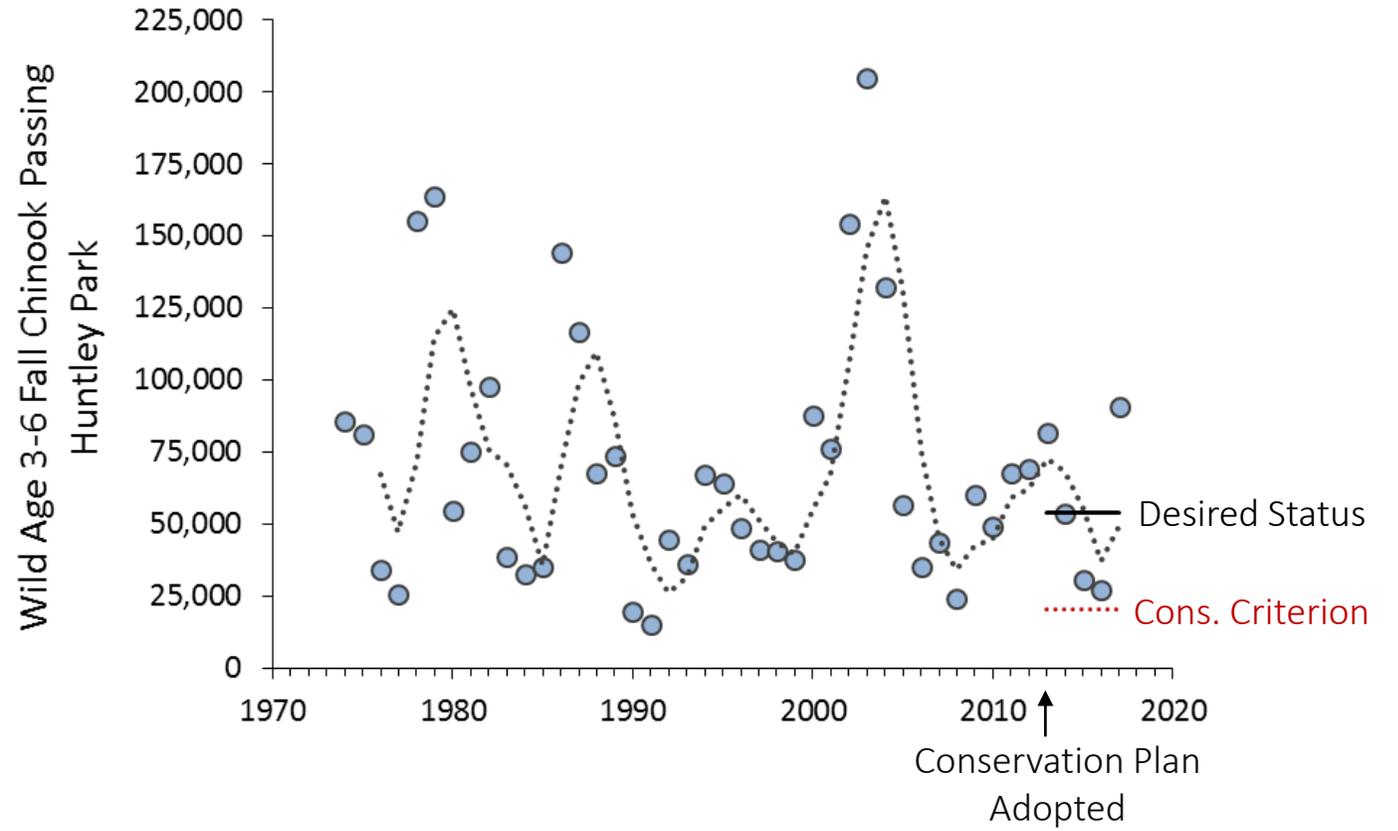
Rogue Spring Chinook

	Desired Status	Conservation Criterion
Abundance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spawner Distribution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Composition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Rogue Fall Chinook – Rogue Aggregate Populations

	Desired Status	Conservation Criterion
Abundance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Age Structure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Timing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Composition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



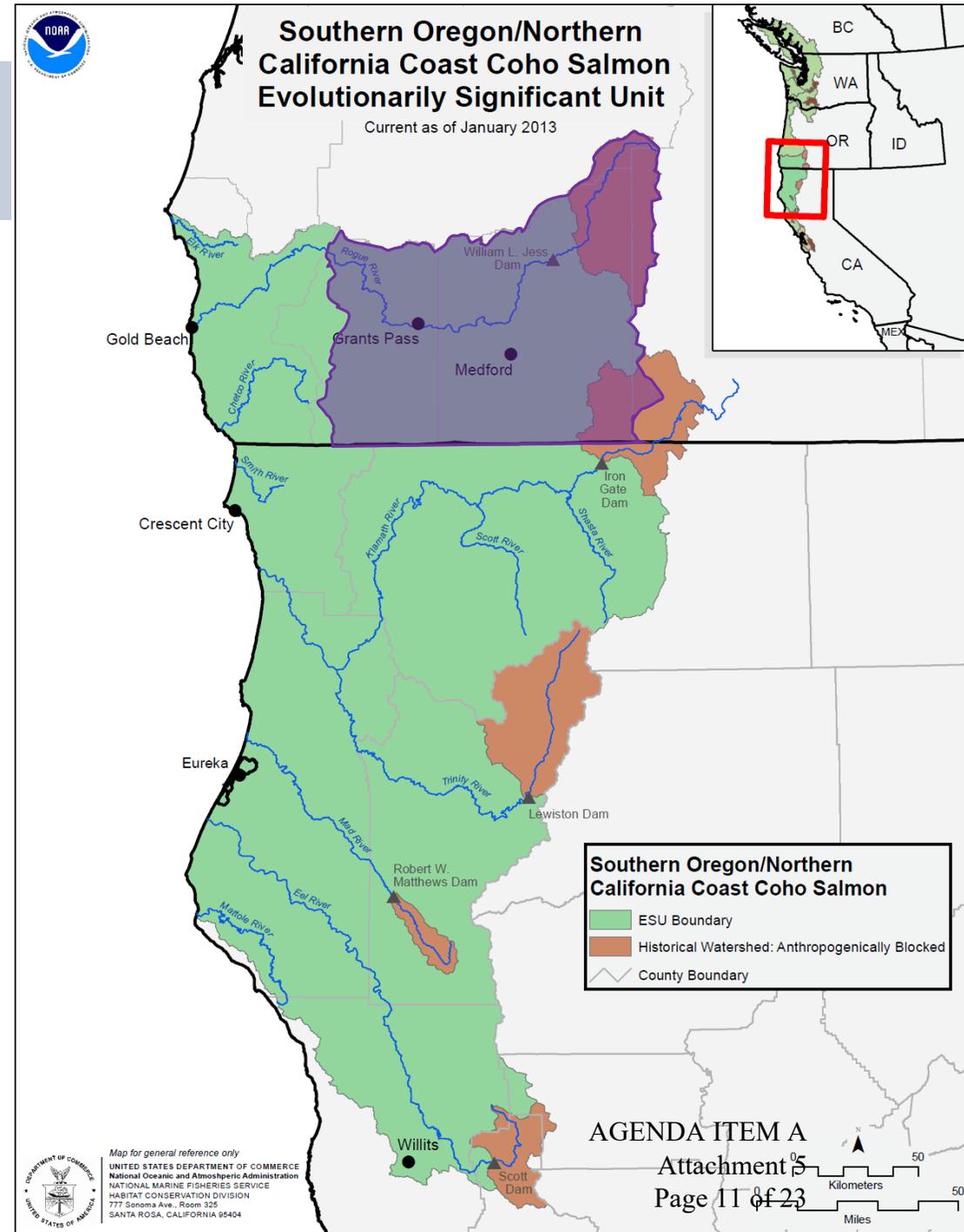
Coho Salmon

Southern Oregon/Northern California Coast

Federally Listed – Threatened

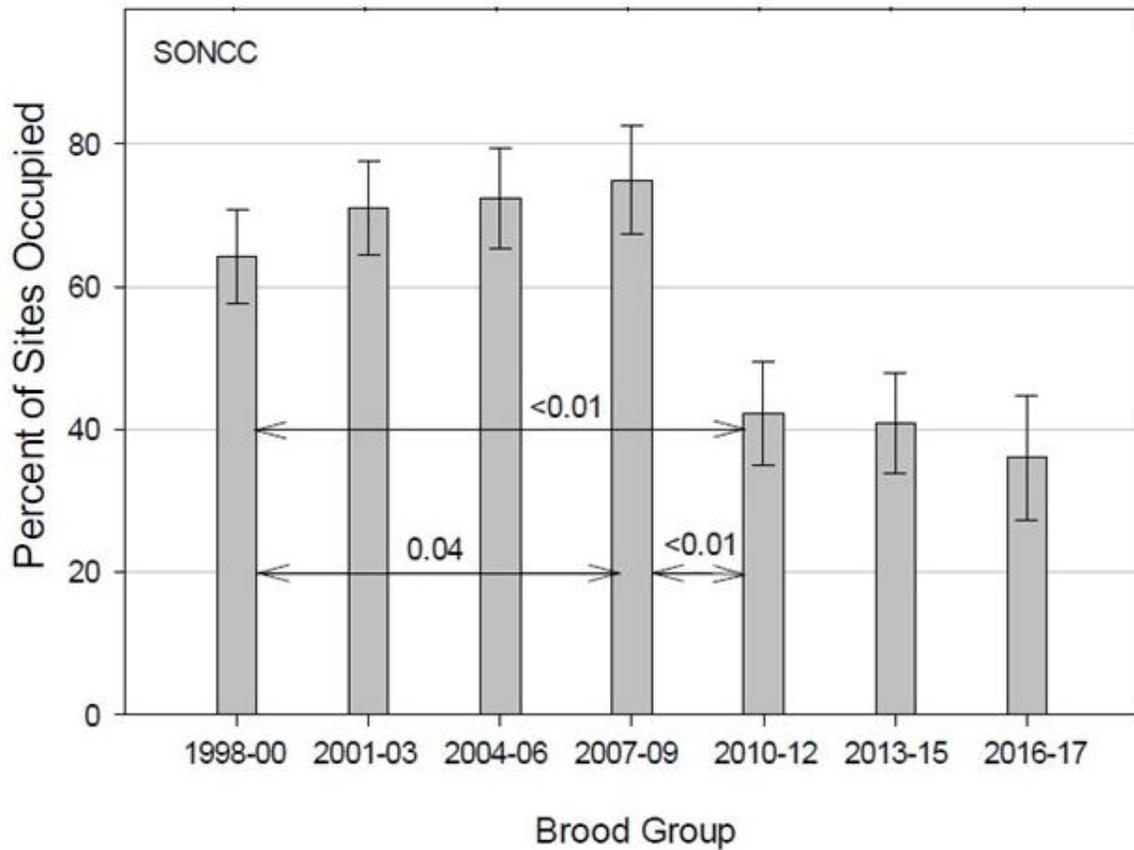
SONCC Coho Federal Recovery Plan (2014)

- Near extirpation (late 1960s/early 1970s)
- Gradient/temperatures limit distribution
- Riparian/Habitat restoration
- Enhancing cold water

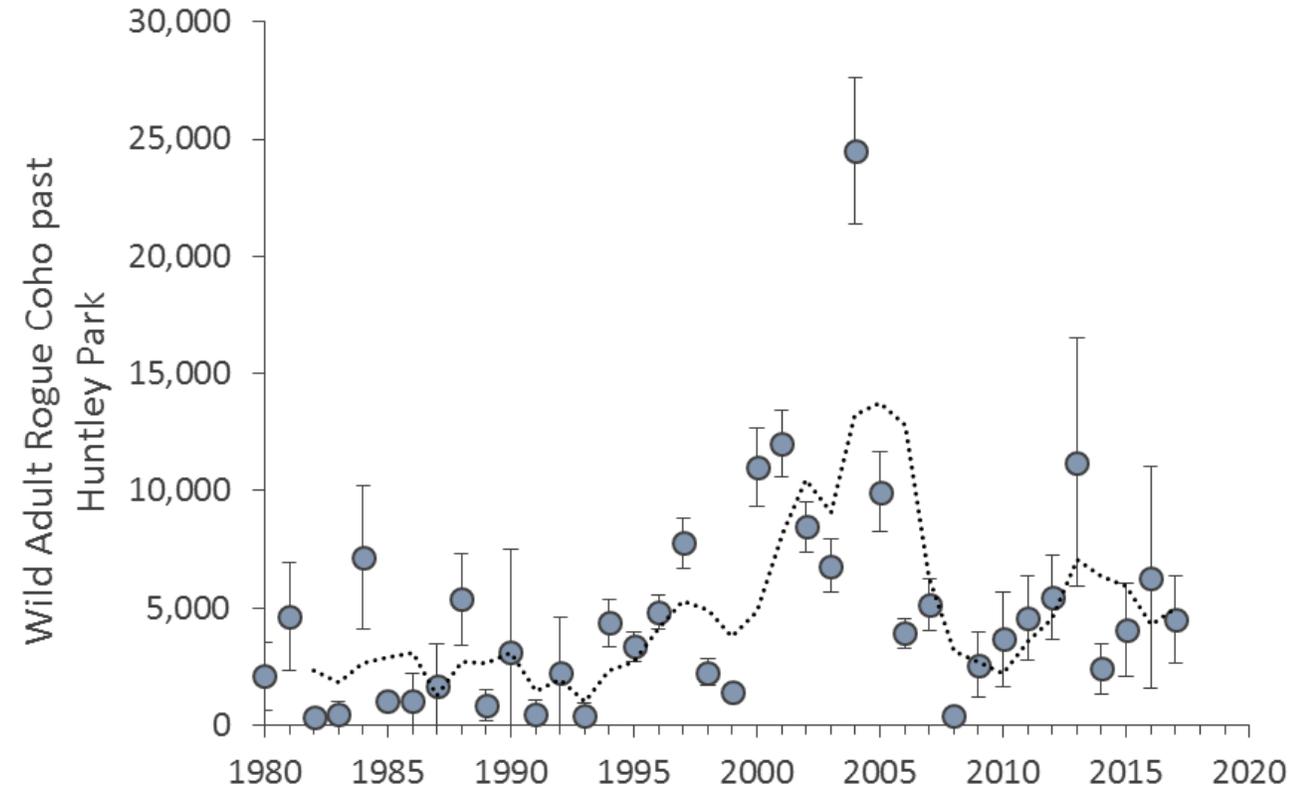


Coho Salmon

Juvenile Occupancy



Adult Abundance



Steelhead

Summer and Winter Runs

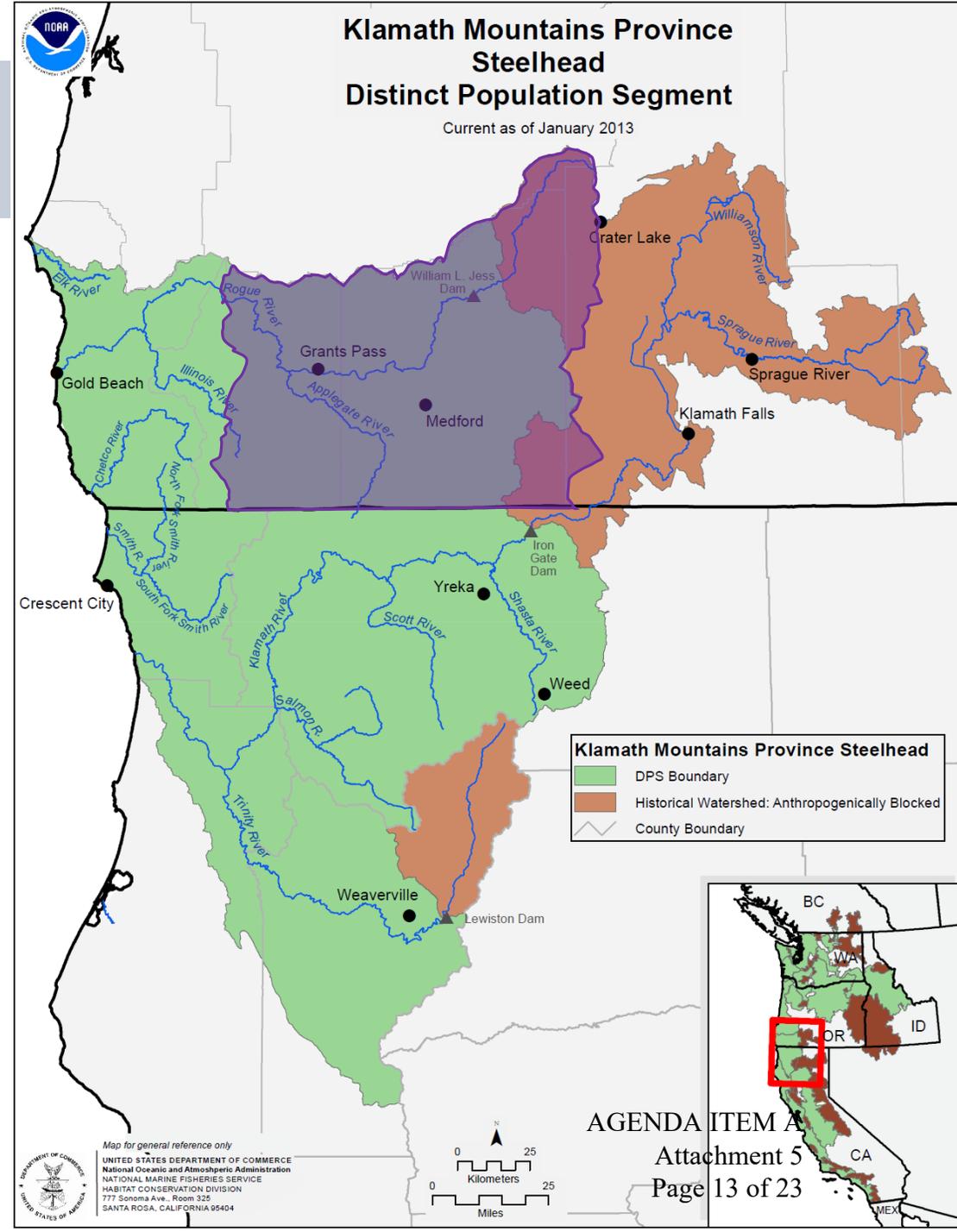
Native Fish Status Report (2005)

Rogue-South Coast Multispecies Plan (in progress)

- Migrate among small and large tributaries and the mainstem Rogue
- Capable of using seasonally-available water
- Temperature & Passage
- Conservative harvest regulations

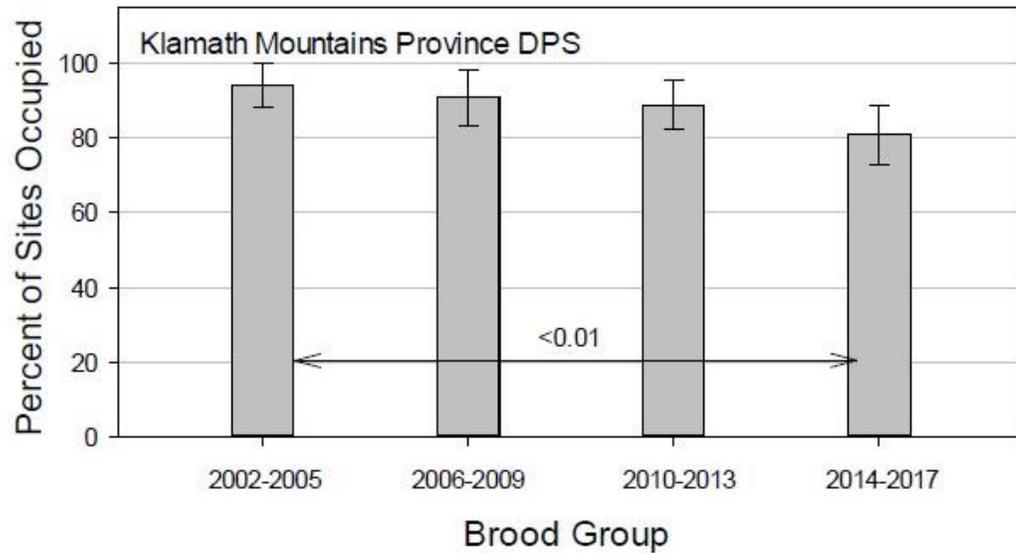
Half Pounders

- Only in Oregon and some N. California streams
- Most Rogue summer steelhead; many Rogue winter steelhead
- Size of Rogue Steelhead
- Popular fishery in lower and middle Rogue

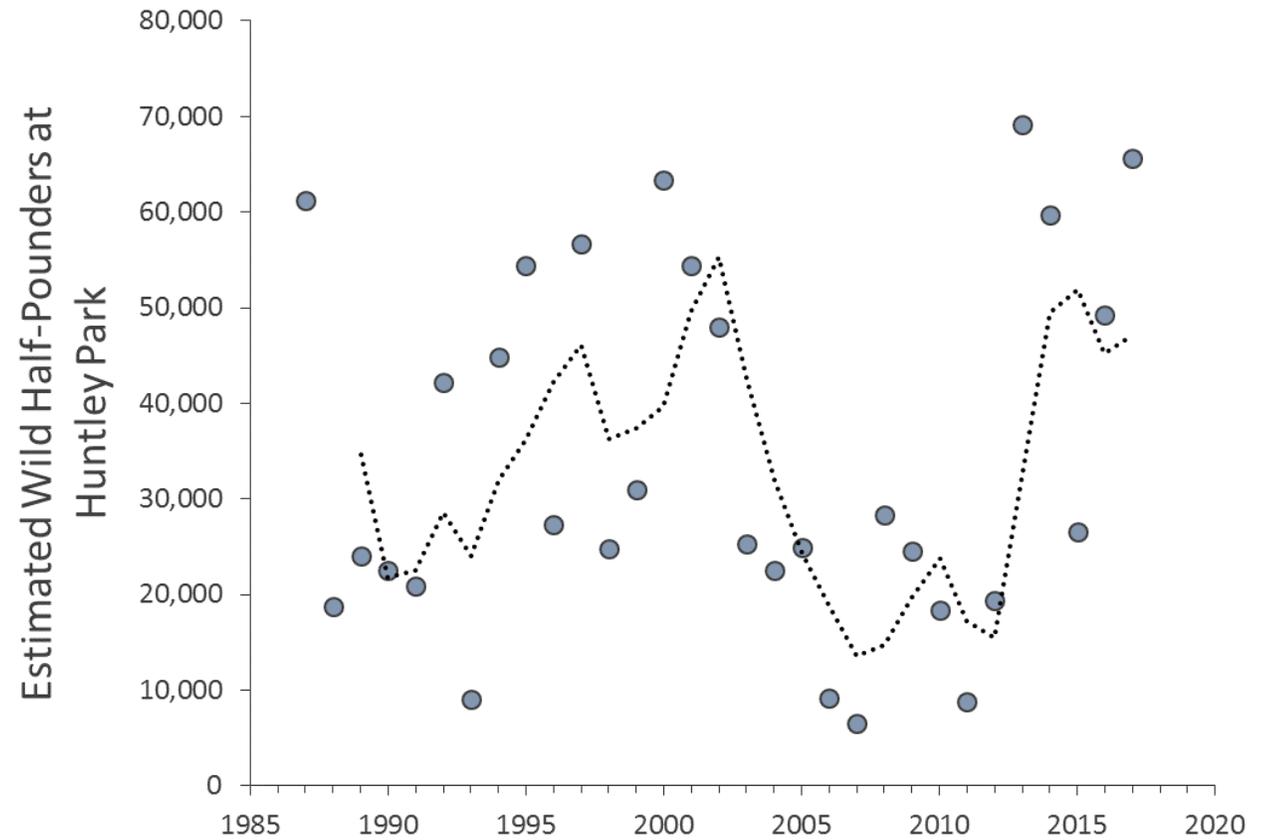


Steelhead Juveniles and Half-Pounders

Juvenile Occupancy

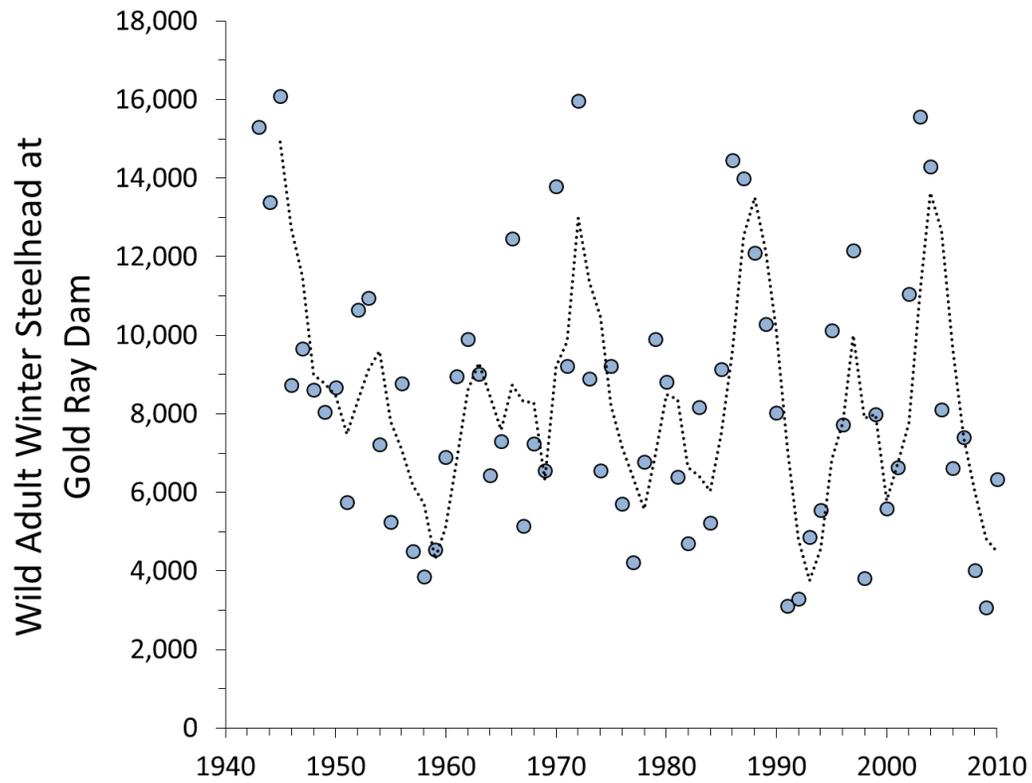


½ Pounder Abundance



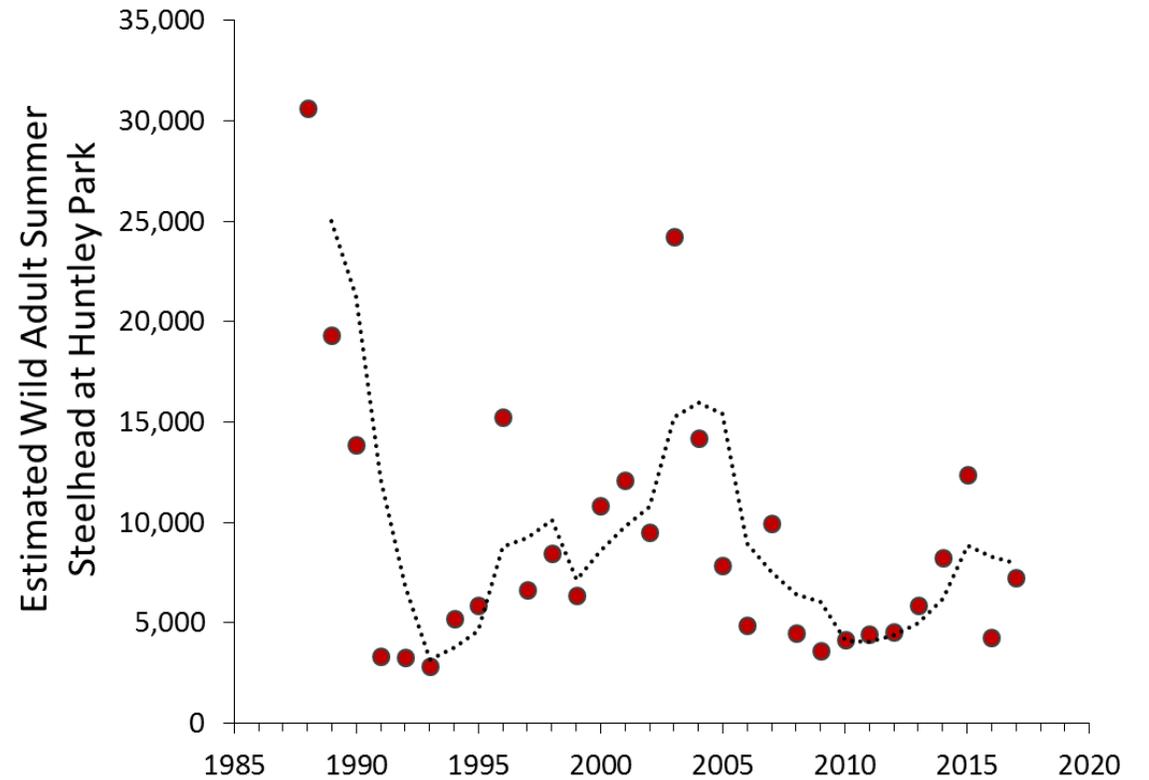
Steelhead Adults

Winter Steelhead



*Only upper Rogue; ~25% of habitat

Summer Steelhead



Coastal Cutthroat Trout

S. Oregon Species Management Unit

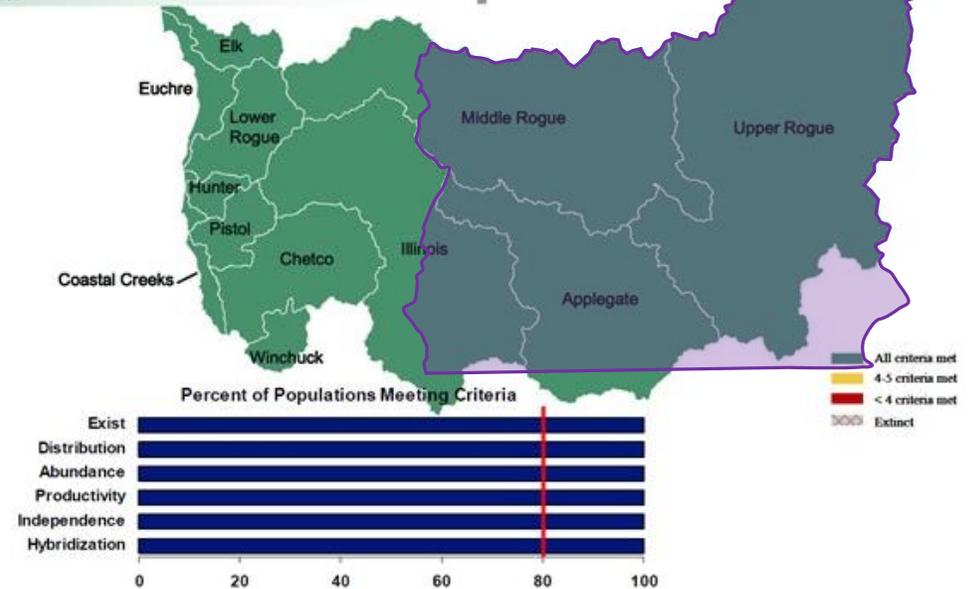
Native Fish Status Report (2005)

Rogue-South Coast Multispecies Plan (in progress)

- Anadromous and Fluvial Life Histories
- Diverse Habitat Use and Movement
- Broadly Distributed

Population	Exist	Dist.	Abund.	Prod.	Ind.	Hybrid
Elk	Pass	Pass	Pass*	Pass*	Pass	Pass
Euchre	Pass	Pass	Pass*	Pass*	Pass	Pass
Lower Rogue	Pass	Pass	Pass*	Pass*	Pass	Pass
Illinois	Pass	Pass	Pass*	Pass*	Pass	Pass
Middle Rogue	Pass	Pass	Pass*	Pass*	Pass	Pass
Applegate	Pass	Pass	Pass*	Pass*	Pass	Pass
Upper Rogue	Pass	Pass	Pass*	Pass*	Pass	Pass
Hunter	Pass	Pass	Pass*	Pass*	Pass	Pass
Coastal Creeks	Pass	Pass	Pass*	Pass*	Pass	Pass
Pistol	Pass	Pass	Pass*	Pass*	Pass	Pass
Chetco	Pass	Pass	Pass*	Pass*	Pass	Pass
Winchuck	Pass	Pass	Pass*	Pass*	Pass	Pass

**Inferred*



Redband Trout

Upper Klamath Species Management Unit Native Fish Status Report (2005)

Jenny Creek Population

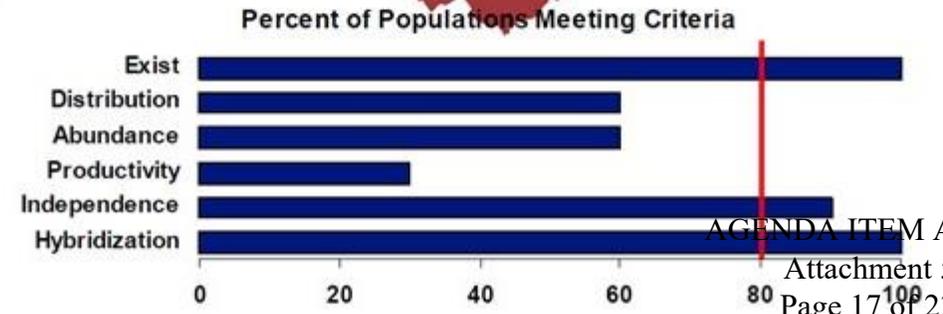
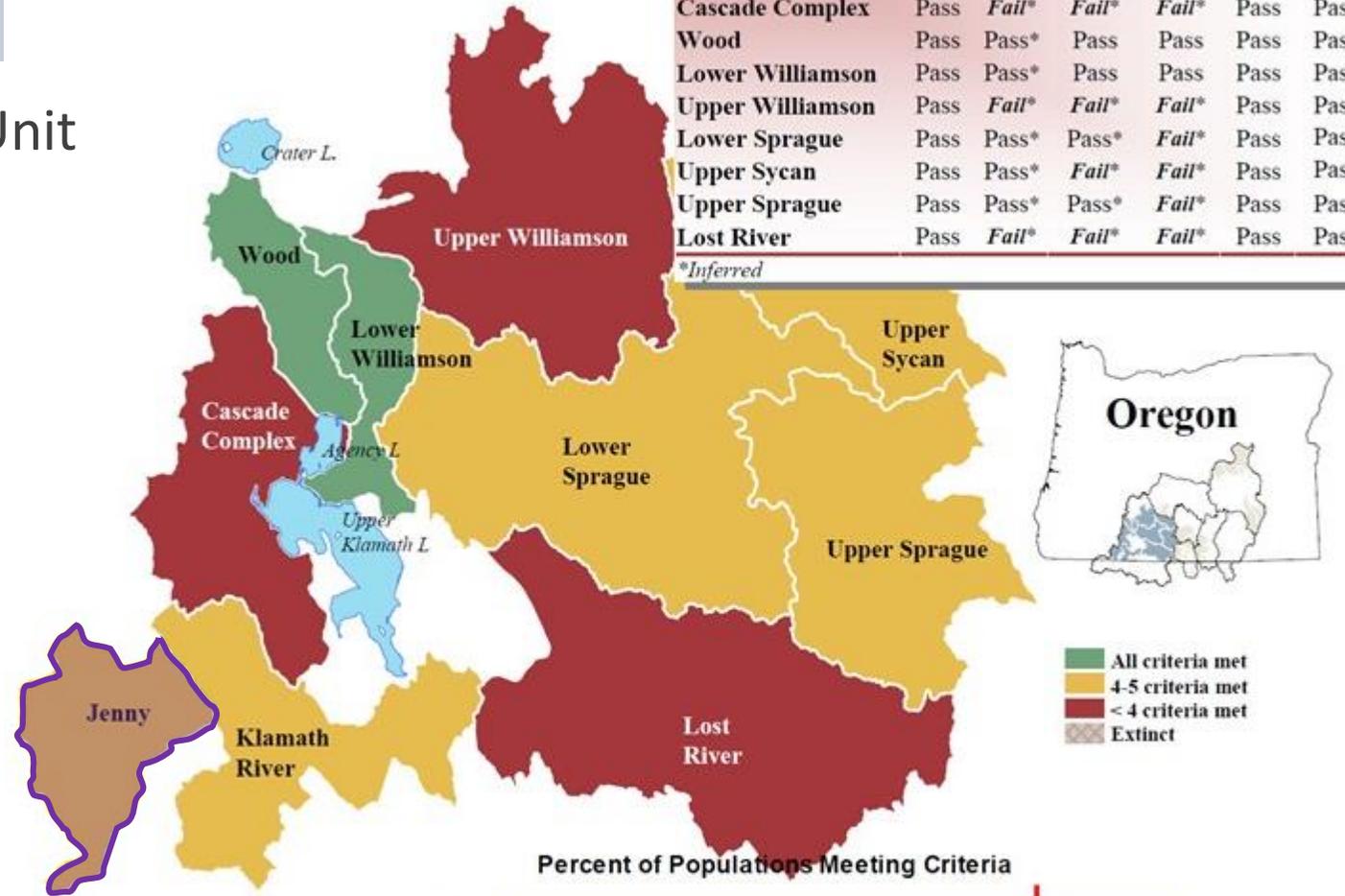
- Isolated above barrier falls
- Jenny Creek Smallscale Sucker



Photo by T. Smith, USFS

Population	Exist.	Dist.	Abund.	Prod.	Ind.	Hybrid
Jenny	Pass	Fail*	Pass*	Pass*	Fail	Pass
Klamath River	Pass	Pass*	Pass*	Fail*	Pass	Pass
Cascade Complex	Pass	Fail*	Fail*	Fail*	Pass	Pass
Wood	Pass	Pass*	Pass	Pass	Pass	Pass
Lower Williamson	Pass	Pass*	Pass	Pass	Pass	Pass
Upper Williamson	Pass	Fail*	Fail*	Fail*	Pass	Pass
Lower Sprague	Pass	Pass*	Pass*	Fail*	Pass	Pass
Upper Sycan	Pass	Pass*	Fail*	Fail*	Pass	Pass
Upper Sprague	Pass	Pass*	Pass*	Fail*	Pass	Pass
Lost River	Pass	Fail*	Fail*	Fail*	Pass	Pass

*Inferred



Siskiyou Region Fish Populations

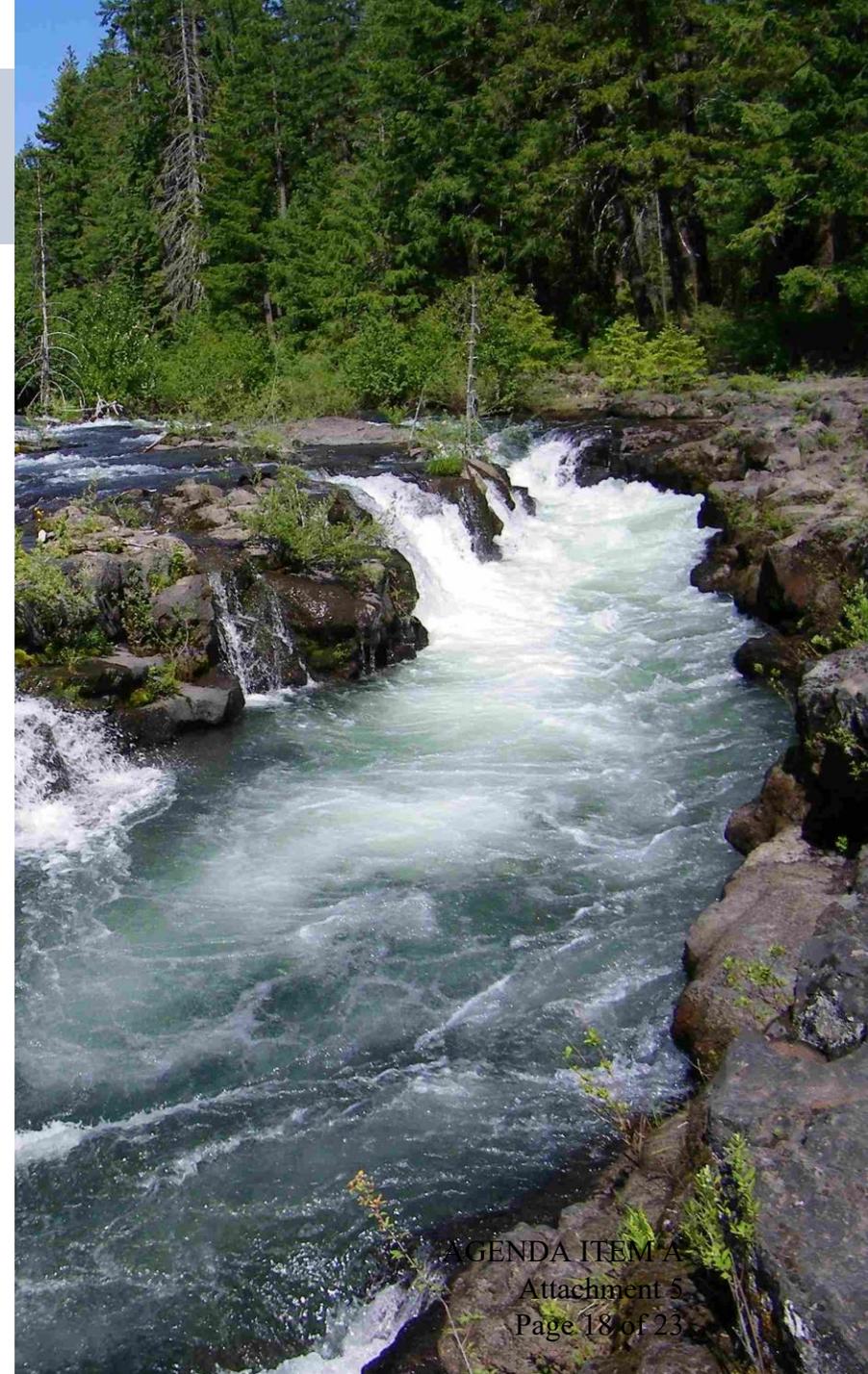
Habitat Use/Distribution

Limiting Factors

Status & Trends

Thermal Complexity

Looking Forward



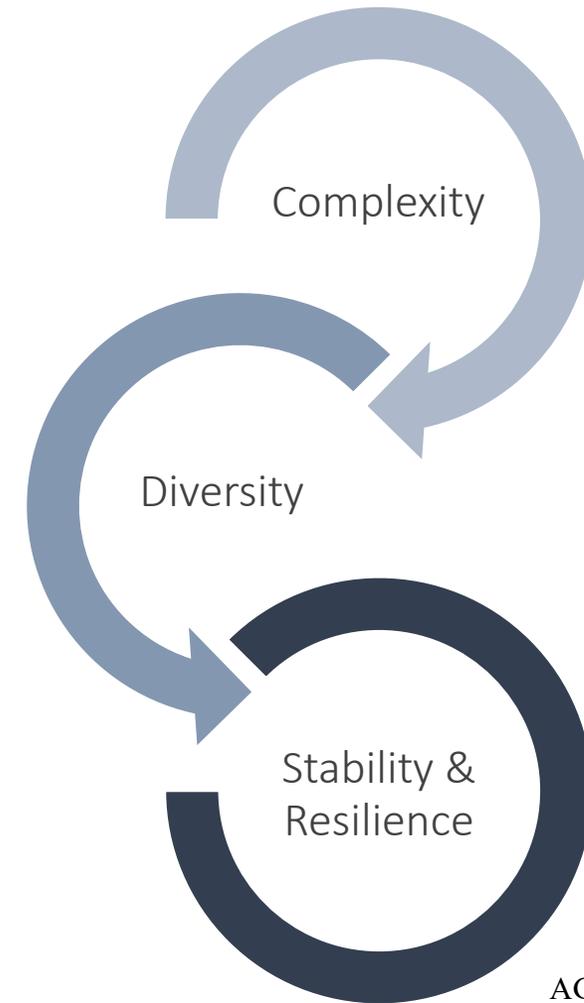
Thermal Complexity

Thermal Complexity

- Magnitude
- Range
- Frequency
- Duration
- Time and Space
- Rate of Change

Fish Life History Attributes

Fish Use of the Stream Network



Thermal Complexity



Adult Chinook Salmon seeking thermal refuge at a tributary mouth (Stair Creek)

Siskiyou Region Fish Populations

Habitat Use/Distribution

Limiting Factors

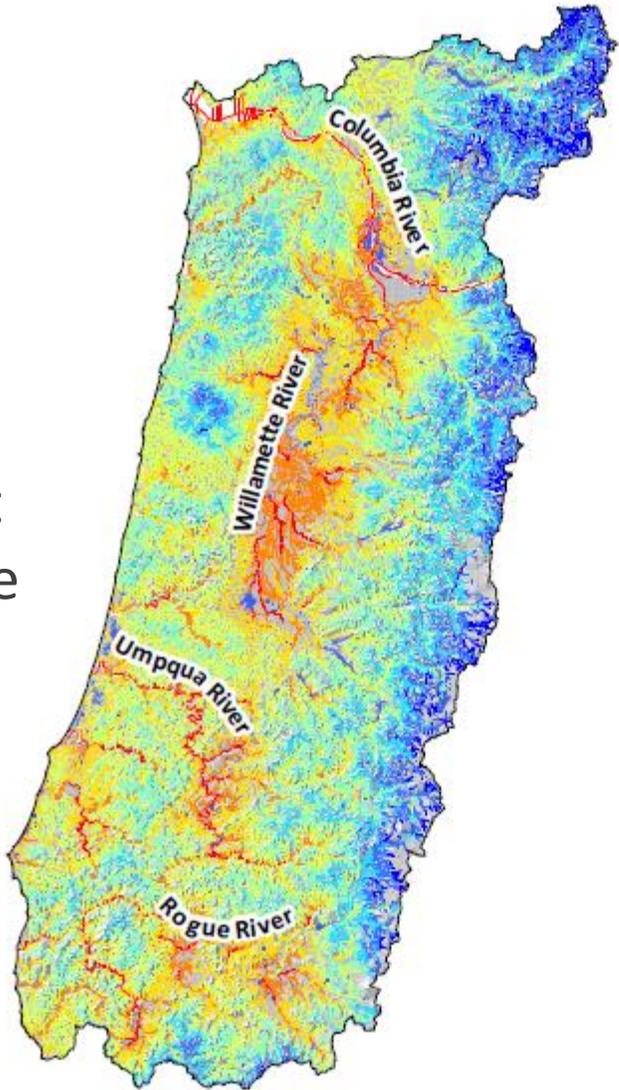
Status & Trends

Thermal Complexity

Looking Forward

NorWeST Stream Temperature

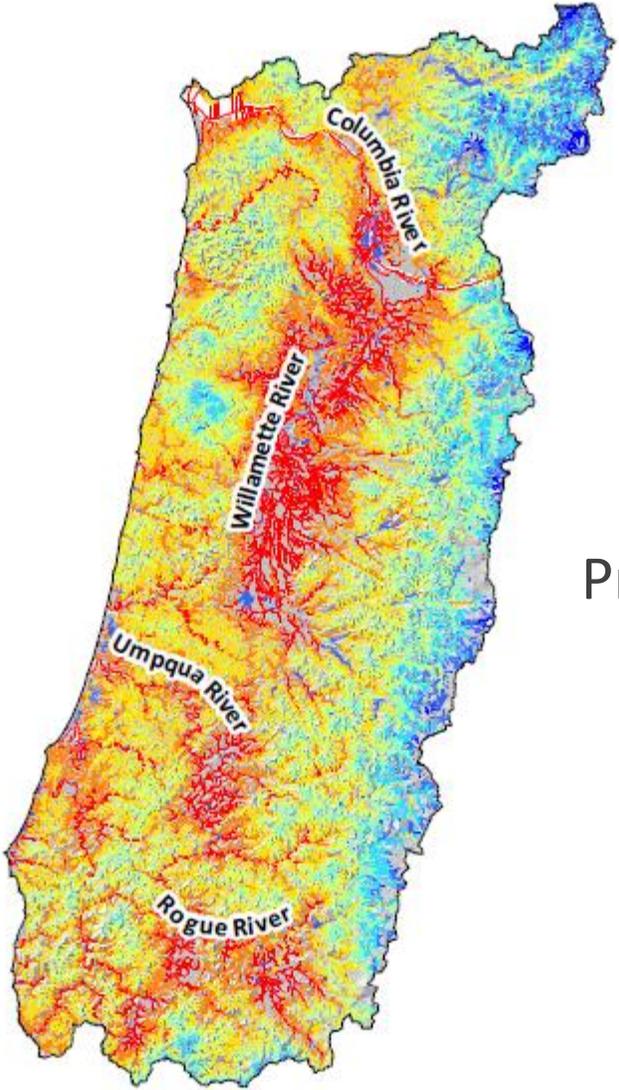
Current
Baseline



*Modeled Mean August Stream Temperature
1993 -2011*



2080
Projection



*Modeled Mean August Stream Temperature
2080s A1B Prediction*

Siskiyou Region Fish Populations

Questions?

