Mid-Columbia Salmon Recovery Region Plan[1]

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VISION

Yakima Basin communities have restored the Yakima River basin sufficiently to support self-sustaining and harvestable populations of indigenous fish and wildlife while enhancing the existing customs, cultures, and economies in the basin. Decisions that continuously improve the river basin ecosystems are made in an open and cooperative process that respects different points of view and varied statutory responsibilities and benefits current and future generations

GOAL

Ensure long-term persistence of viable populations of naturally produced steelhead and bull trout across their native range

> "The Board's vision that implementing the plan will be inclusive, transparent, collaborative, cooperative, and voluntary, is borne of the conviction that only a process based on these attributes can be successful."
>
> **YAKIMA SUBBASIN FISH AND WILDLIFE PLANNING BOARD**

Plan Timeframe
10-30 years

Estimated Cost
$160 million

Actions Identified to Implement Plan
153

Status
Habitat portion of plan submitted to NMFS/USFWS 10/2005

Human Population	Counties	Treaty Tribes	Listed Fish	Regional Recovery Organization
431,700	Benton, Kittitas, Yakima, parts of Chelan and Klickitat	Yakama Nation	Steelhead and bull trout[2]	Yakima Subbasin Fish and Wildlife Planning Board

MAJOR FACTORS LIMITING RECOVERY

- Hydropower system mortality on Columbia River
- Reduced stream flows in tributaries
- Impaired passage in tributaries
- Excessive sediment
- Degraded water quality
- Altered channel morphology
- Degraded riparian habitat

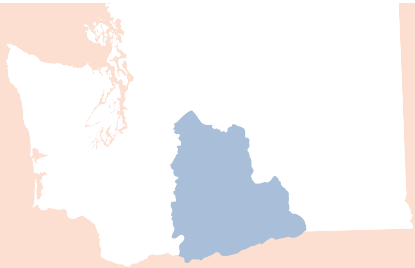
KEY ACTIONS RECOMMENDED TO RECOVER FISH

January 2006 to June 2007

- Improve fish passage
- Restore stream flows
- Restore habitat
- Reintroduce indigenous species
- Assess surface-ground-water connections
- Evaluate rainbow trout-steelhead interactions

Long Term

- Protect areas with high ecological integrity and natural ecosystem processes
- Maintain connectivity throughout range of listed fish
- Restore and maintain suitable stream flows
- Protect and restore water quality
- Monitor effectiveness of actions



[1] All H recovery plan integration is underway, including focus on out-of-sub-basin impacts. This process, involving the NMFS, Regional Board, WDFW, and GSRO is expected to be complete no later than June 2006. Roll up of entire ESU (Oregon portions) underway.

[2] USFWS previously published a bull trout recovery plan (2006). The status of bull trout is currently under review and is expected to be complete by early 2006. At that time, USFWS will work with the Regional Board, WDFW, GSRO to incorporate elements of the State's strategy and the Board's plan into the federal plan.

Mid-Columbia Salmon Recovery Region
Steelhead

Mid-Columbia Region Steelhead Evolutionarily Significant Unit (ESU) and Context Area

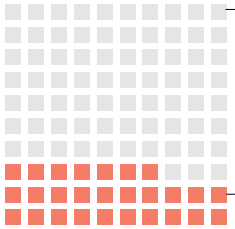
- ESU in Washington
- Major Population Group (MPG)
- In ESU, Not in Plan
- ESU in Oregon

Steelhead Spawner Abundance

Population	Present	Goal
Satus	454	1,000
Toppenish	549	1,000
Naches	412	1,500
Upper Yakima	83	2,250
Total	1,498	5,750

Total Spawner Abundance Goal
5,750 (100%)

This is the number of adults needed on the spawning grounds to achieve recovery. Wherever possible it is expressed in natural spawner numbers.



1 BOX = 1%

Total Spawner Abundance Present
1,498 (26% of Goal)

This is expressed as an average from 1993 to 2004.

Steelhead Productivity

Population	Present	Goal
Satus	1.0	1.3
Toppenish	.6	1.3
Naches	.6	1.2
Upper Yakima	.6	1.2

Productivity: Population growth rate. This is how many fish return for each fish that spawns. A population must have productivity greater than 1 to increase over time.

SALMON RECOVERY FUNDING BOARD

Coleman Creek Fish Barrier Removal and Bridge Installation

Steelhead
Mid-Columbia Salmon Recovery Region

STEELHEAD
Oncorhynchus mykiss

Live 4-7+ years; typically spend 1-3 years in ocean before returning in late summer/early fall to spawn; most of the Yakima Basin fish spend winter in the Yakima River and spawn in tributaries in late March to mid May.

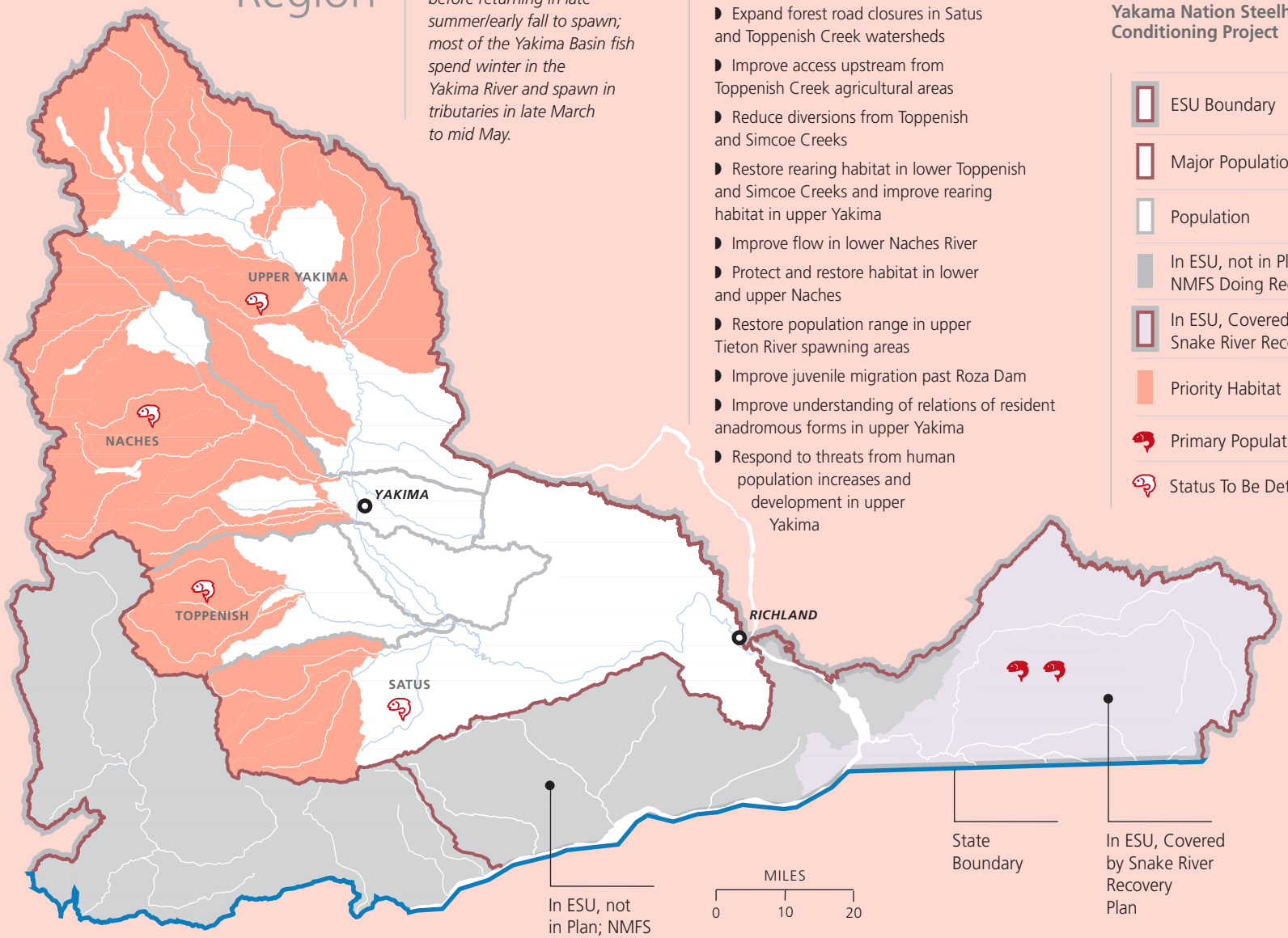
Yakima MPG Key Actions

- Improve habitat in lower Satus Creek
- Improve floodplain/channel in Satus Creek next to US 97
- Improve grazing management in Satus Creek
- Restore passage to Shands Creek and provide passage and screens on Simcoe Creek
- Expand forest road closures in Satus and Toppenish Creek watersheds
- Improve access upstream from Toppenish Creek agricultural areas
- Reduce diversions from Toppenish and Simcoe Creeks
- Restore rearing habitat in lower Toppenish and Simcoe Creeks and improve rearing habitat in upper Yakima
- Improve flow in lower Naches River
- Protect and restore habitat in lower and upper Naches
- Restore population range in upper Tieton River spawning areas
- Improve juvenile migration past Roza Dam
- Improve understanding of relations of resident anadromous forms in upper Yakima
- Respond to threats from human population increases and development in upper Yakima

YAKAMA NATION

Yakama Nation Steelhead Kelt Conditioning Project

- ESU Boundary
- Major Population Group (MPG)
- Population
- In ESU, not in Plan; NMFS Doing Recovery Plan
- In ESU, Covered by Snake River Recovery Plan
- Priority Habitat
- Primary Population
- Status To Be Determined



DATA SOURCE: NOAA FISHERIES AND YAKIMA SUB-BASIN FISH AND WILDLIFE PLANNING BOARD BOARD