Wenatchee River, Chelan County



Upper Columbia Salmon Recovery Region Indicators

Human Population: 142,200

Counties: Chelan, Douglas, and Okanogan.

Treaty Tribes: Colville Confederated Tribes and Yakama Nation.

Listed Fish: steelhead (endangered), spring Chinook (endangered), bull trout (threatened).

Regional Recovery Organization: Upper Columbia Regional Salmon Recovery Board.

Recovery Planning Status: Draft recovery plan for upper Columbia bull trout, steelhead, and Chinook due in June 2005.

WRIAs / Water Resource Inventory Areas

- 44 Moses Coulee
- 45 Wenatchee
- 46 Entiat
- 48 Methow
- 49 Okanogan
- 50 Foster



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Water Quality Status

AND WHAT WE'RE DOING

On our map, dissolved oxygen, pH, temperature, and fecal coliform are used to construct an index. A good rating means the averages for the last five years are of the lowest concern. Waters of moderate concern are rated fair, and waters of highest concern are labeled as poor. Although the index rates overall water quality in a basin, specific locations within the basin may not be meeting one or more of these standards. Cleanup plans completed, underway, or remaining on the 2002 TMDL Cleanup Plans

Water Quality Status Index for Salmon and Watersheds

Good Condition

list are shown by WRIA.

Fair Condition

Poor Condition

Insufficient Data

DATA SOURCE: WASHINGTON DEPARTMENT OF ECOLOGY.



Upper Columbia Salmon Recovery Region



Water Quantity Status

AND WHAT WE'RE DOING

On our map a "water-critical basin" is an over-appropriated watershed where more water could be withdrawn from rivers and streams, especially in late summer and early fall when flows are naturally low. A "low flow" basin is one experiencing significant pressure for increased water use and rapidly declining flows for fish. Significant actions to address low flows for salmon include instream flow rules, closures, water acquisitions and leases, and irrigation efficiencies.

Projects / Programs Addressing Water Quantity for Salmon and Watersheds

- ▼ Stream Gauges
- Water Acquisition / Lease in Annual Acre Feet
- Instream Flow Set for WRIA
- Flow Recommendations Identified
- ▲ Irrigation Efficiency Projects



Upper Columbia Salmon Recovery Region



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Habitat Quality Status

AND WHAT WE'RE DOING

On our map

a single salmon habitat rating is depicted for each watershed that produces salmon or steelhead. This rating is a distillation of individual Limiting Factors Analyses reports for floodplain, sedimentation, riparian, and instream conditions. Although a single rating does not allow for the often varying conditions found within each WRIA and between each rated category, it is useful for a broad perspective on conditions for salmon spawning and rearing. Many watersheds now have in-depth analyses that will be available in recovery plans due in June 2005. Projects funded by the Salmon Recovery Funding Board, tribes, or the US Forest Service that are intended to improve stream habitat conditions are shown.

Habitat Quality

Good Condition Fair Condition Poor Condition

Insufficient Data

Federal Lands

Status Index







Wolf Creek Fish Screen

The Yakima Screen Shop designed, built, and installed a screen and by-pass system that will allow steelhead, Chinook, and bull trout to move along this tributary to the Methow River.

Omak Creek Restoration

The Colville Tribe, working with local timber mill owners, restored a section of Omak Creek to improve riparian habitat and reduce bank erosion.

Entiat River Rock Vortex Weirs

Landowners, working with the Chelan County Conservation District, placed these structures in the Entiat River as part of a plan to restore the river.

Upper Columbia River Wild Steelhead

- Spawner abundance for 1 of 3 populations.
- Target Goal from NOAA-Fisheries.

5,000 spawners



Barriers to Fish Passage

AND WHAT WE'RE DOING

On our map

we have chosen to depict barriers independent from the habitat quality map because impaired access to streams is one of the more significant factors limiting salmon. We depict only blockages affecting anadromous fish, and do not show bull trout blockages. The effort to document locations of fish passage barriers repaired since 1999 was just initiated this year (2004), so some projects may not be displayed on this map. This map shows completed projects funded by the Salmon Recovery Funding Board, Washington Department of Transportation, Washington Department of Natural Resources, local governments, or US Forest Service that remove barriers for anadromous fish. We expect ongoing mapping efforts will continue to reveal projects.

• Corrected Fish Barrier

US Forest Service Corrected Fish Barrier
Federal Lands



Upper Columbia Salmon Recovery Region DATA SOURCE: WASHINGTON DEPARTMENT OF FISH AND WILDLIFE, US FOREST SERVICE





Fulton Canal Fish Screen

Specialists from the Yakima Screen Shop replaced an old fish screen that did not meet state or federal standards and was harming fish. Twisp Power Ditch Fish Screen This new screen replaces an old one that was causing problems for juvenile Chinook, steelhead, and bull trout on the Twisp River.

Beaver Creek Watershed Fish Passage

Three new fish screens are being installed to replace inadequately or unscreened diversions on Beaver Creek, helping steelhead, Chinook, and bull trout.

Upper Columbia River Wild Spring Chinook

- Composite spawner abundance and target goal for 3 of 12 populations.
- Target Goal from NOAA-Fisheries

8,000 spawners



Upper Columbia River Wild Spring Chinook Smolt Production Index

