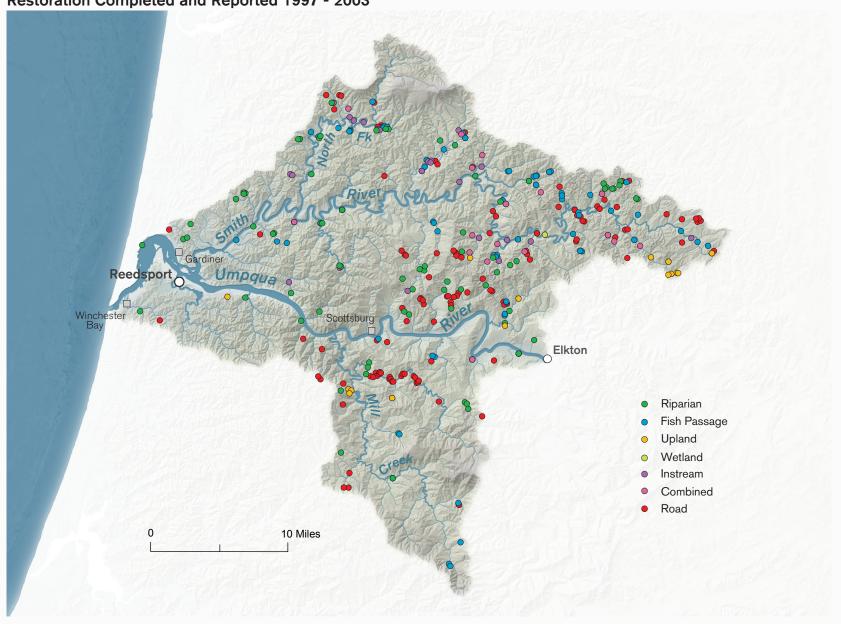
Watershed Assessments Percent of Population Unit Completed

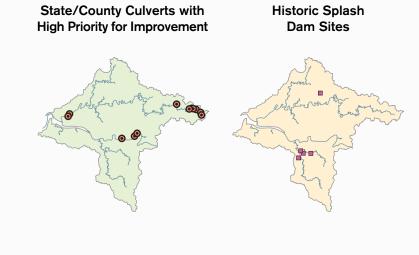
1997: 64.6% 2004: 97.2%



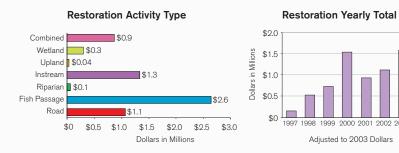
Restoration Completed and Reported 1997 - 2003

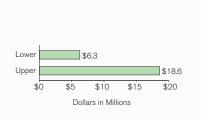


Characteristics of Coho Habitat Percent Ownership Number of Stream Miles Ownership O

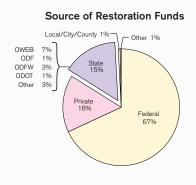


Restoration Funding 1997 - 2003: \$6.3 Million





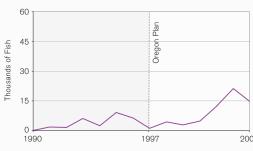
Restoration Funds Region Total

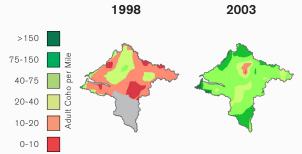


Biological Viability Status



Number of Wild Adult Spawners





2003 **Analysis of Potential Limiting Factors PRIMARY LIMITING OREGON PLAN ACTION FACTOR OBSERVATIONS** INTERPRETATION **FACTOR*** HATCHERY **MARINE HABITAT** Hatchery Coho survival Marine survival rate of both monitored at all hatcheries. Wild coho survival monitored at hatchery and wild coho increased coincident with - 8% 8% X _ _ five lifecycle monitoring sites. Oregon Plan implementation. ≥ 6% 6% N/A 2% 00 01 02 2003 1990 OCEAN RIVER High harvest rates on coho prior to Oregon Plan have been reduced by management action. **FISHERY HARVEST** Harvest rates dictated by PFMC 100% 25% ESU MA Amendment 13 will constrain 20% harvest of wild coho consistent X _ _ with recovery needs. 15% Harvest rates are no longer 509 limiting recovery. 10% 25% 1990 1980 1990 2000 1970 1980 2000 RELEASES STRAYS Hatchery programs are not constraining coho recovery. The percent of hatchery coho in natural spawning areas has **HATCHERY IMPACTS** Genetic Management Plans have been drafted for all 2.4 100% ESU MA POI hatcheries - awaiting approval 759 by NOAA. Hatchery practices are managed consistent with local population status and declined because of management action and is now 1.2 50% 0.6 recovery needs. within policy guidelines. 1990 1997 2003 1995 STREAM COMPLEXITY - Regulatory programs: OR For. Practices, Fill and Removal, Federal For. Plan, Goal 5. Coho streams have less large wood, less gravel in Availability of complex stream riffles, and fewer streamside conifers than reference habitat probably limits coho production. Conduct restoration to recruit · No significant trend was detected in most habitat wood and increase complexity. parameters over the last decade. Instream miles treated......142 Umpqua habitat conditions were generally ranked lower than in other areas of the ESU. Riparian miles planted.....21 Riparian miles fenced..

FISH PASSAGE ESU MA POP

 \square

• Fish Passage Law

 Improve fish passage at stream crossings. ..4,413 ..1,140 ..3,392 ..2,145 Counted... Improved.. Mapped.. Assessed. Unknown.. .1,247 Improved access - result to date Non Coho Distribution..... Non HIP Coho Distribution. HIP Coho Distribution.

Improved Access - remaining opportunity
Non Coho.......16% impaired - 40% unknown
Non HIP Coho......11% impaired - 32% unknown ...10% impaired - 28% unknown

It is unknown if coho have access to roughly one third of their potential habitat. Access can be improved 10% by correcting documented problems. Impact of tide gates has not been determined. Opportunity to increase access to high quality habitat may exist in local areas. Focus passage inventory and restoration in these areas.

NEED

Adjust harvest

levels consistent with marine survival,

adult escapement

and population

Maintain PFMC

Amendment 13

consistent with

population

productivity

Continue

implementing

and Hatchery Genetic

Management Plans.

Focus habitat

investments in

areas of high intrinsic coho

potential.

restoration

Native Fish Conservation Policy

to restrain harvest

WATER QUALITY

Data scale: ESU MA POF

 \square X \square

• Federal Clean Water Act

- Conduct restoration to reduce sediment, moderate temp.

 SB-1010 Plans have been
- completed
 TMDLs are being developed

Road miles upgraded334 Road miles retired.

- The Umpqua MA had the poorest overall water quality.
 This MA had the highest percentage of coho stream
- miles exceeding criteria for temperature, dissolved oxygen concentration, fine sediment, total solids,

phosphorus, and vertebrate assemblage.

1 of 9 larger river ambient sites had an improving trend;
56% fair, 22% good to excellent, and 22% poor water quality.

Although not currently a significant constraint on coho recovery, water quality has the potential of limiting coho production at local spatial scales. Take restoration action at local spatial scales as appropriate to maintain or improve rearing capacity.

WATER QUANTITY

- Oregon Water Law 800 miles of stream are protected (instream right).
- At an 80% exceedance flow, water is not available for new appropriations in August in 98% of the Umpqua MA.
- 16 cfs of water has been restored in the Umpqua MA.
- August consumptive use was highest in the MidSouth
- Coast and Umpqua MAs.

 Over 60% of the Umpqua MA had an August consumptive use less than 10% of the 80% natural exceedance flow.
- The Umpqua MA had up to 10% of watershed area with August consumptive use more than 100% of the 80% exceedance natural flow.
- 90% of the Umpqua area had no change in August consumptive use between 1997 and 2004.

Although not currently a significant constraint on coho recovery, water quantity has the potential of limiting coho production at local spatial scales. Focus habitat restoration investments in areas of high intrinsic coho potential.

OTHER FACTORS

Toxics, DO, pH, Stream fertility and shade, Spawning gravel, Hydro power, Illegal harvest, Disease, Estuaries, Wetlands, Exotic fish interactions, Predation by birds & pinnipeds

Assessed data, literature, and local observations.

Data, analyses, and interpretation of these limiting factors are available at www.oregon-plan.org

Although not currently a significant constraint on coho recovery, each factor has the potential of limiting coho at local spatial scales.

Remain alert to detect future change in importance of these factors.

^{*} Primary and secondary risk factor(s) that most limit the population. Supporting information can be viewed at www.oregon-plan.org/OPSW/cohoproject/coho_proj.shtml.