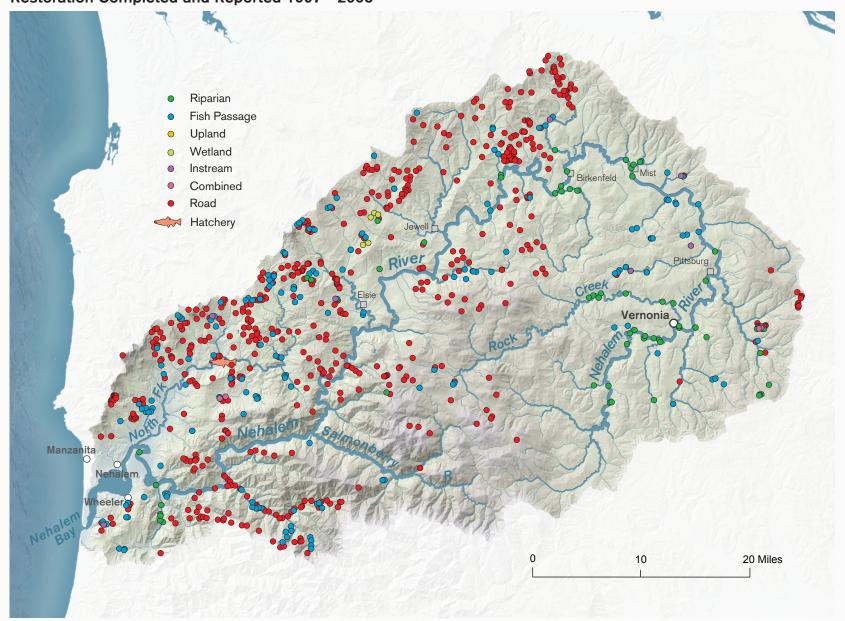
Watershed Assessments Percent of Population Unit Completed

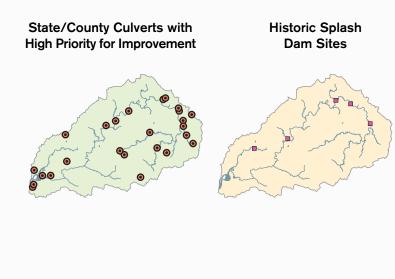
1997: 0% 2004: *100*%



Restoration Completed and Reported 1997 - 2003

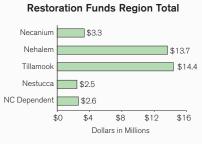


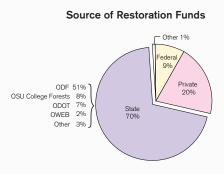
Characteristics of Coho Habitat Percent Ownership Number of Stream Miles Ownership O



Restoration Funding 1997 - 2003: \$13.7 Million







Biological Viability Status Number of Wild Adult Spawners 1998 2003 >150 PASS+ 75-150 PASS 40-75 30 20-40 15 10-20 0-10 1990 1997 2003 **Analysis of Potential Limiting Factors PRIMARY LIMITING OREGON PLAN ACTION** INTERPRETATION **FACTOR OBSERVATIONS NEED** FACTOR' HATCHERY wii n **MARINE HABITAT** Hatchery coho survival Marine survival rate of both Adjust harvest hatchery and wild coho increased coincident with monitored at all hatcheries levels consistent <u>8</u>% 8% Wild coho survival monitored at with marine survival, X _ _ adult escapement and population five lifecycle monitoring sites. Oregon Plan implementation. ≥ 6% 6% N/A 0cean 4% needs. 2% 00 01 02 2003 1990 **OCEAN** RIVER Harvest rates dictated by PFMC High harvest rates on coho prior to Oregon Plan have been **FISHERY HARVEST** Maintain PFMC 100% Amendment 13 will constrain Amendment 13 Data scale: ESU MA POF reduced by management action. Harvest rates are no longer 209 75% harvest of wild coho consistent to restrain harvest X 🗆 🗆 consistent with with recovery needs. 15% 50% limiting recovery. population productivity. 5% 0% 0% 2000 1970 1980 1990 1970 1980 1990 2000 RELEASES STRAYS **HATCHERY IMPACTS** Continue Genetic Management Plans Hatchery programs are not have been drafted for all hatcheries - awaiting approval by NOAA. Hatchery practices are managed consistent with 100% constraining coho recovery. The percent of hatchery coho in implementing Native Fish 75% 1.8 Conservation Policy natural spawning areas has declined because of 1.2 and Hatchery 509 local population status and recovery needs. management action and is now within policy guidelines. Genetic Management 0.6 Plans. STREAM COMPLEXITY - Regulatory programs: Oregon For. Practices, Fill and Removal, Coho streams have less large wood, more fine sediment, and fewer streamside conifers than Availability of complex stream habitat probably limits coho Focus habitat restoration production. Federal Forest Plan, Goal 5. reference streams. investments in areas of high Conduct restoration to recruit wood and increase complexity. No significant trend was detected in most habitat parameters over the last decade. intrinsic coho potential. Instream miles treated...... Habitat conditions were generally better in the North Riparian miles planted......130 Riparian miles fenced......44 Coast and MidSouth Coast area of the ESU. **FISH PASSAGE** • Fish Passage Law • Improved access - result to date It is unknown if coho have Opportunity to access to roughly one third of their potential habitat. Access increase access to high quality habitat Non Coho Distribution.. Non HIP Coho Distribution..... • Improve fish passage at X _ _ can be improved 10% by correcting documented problems. Impact of tide gates has not been determined. stream crossings. may exist in local areas. Focus HIP Coho Distribution.. .+6% ..1,140 ...3,392 ...2,145 passage inventory and restoration in Improved.. Mapped... Assessed. these areas. Unknown. **WATER QUALITY** Federal Clean Water Act • The North Coast MA had the best overall water quality Take restoration Although not currently a Conduct restoration to reduce sediment, moderate temp. SB-1010 Plans completed with the fewest stream miles exceeding standards or benchmarks (targets) for temperature, pH, fine significant constraint on coho recovery, water quality has the action at local spatial scales as Data scale: FSU_MA_POF sediment, total solids, and vertebrate assemblage. 6 of 9 large river ambient monitoring sites in the North appropriate to maintain or improve potential of limiting coho TMDLs are being developed production at local spatial scales. Coast MA had improving trends in water quality. Compared to other MAs the North Coast had the poorest rearing capacity. Road miles upgraded692 Road miles retired115 dissolved oxygen saturation levels and macroinvertebrates. Over 80% of the North Coast MA had an August consumptive use less than 10% of the 80% natural **WATER QUANTITY** Oregon Water Law Focus habitat Although not currently a 850 miles of stream are protected (instream right). At an 80% exceedance flow, water is not available for new restoration investments in significant constraint on coho recovery, water quantity has the potential of limiting coho production at local spatial scales. exceedance flow. □ X □ The Necanicum and Tillamook populations had the greatest portion of their total watershed (up to 12%) areas of high intrinsic coho appropriations in August in 97% of the total area of the of the total area) with August consumptive use more than 100% of the 80% exceedance natural flow. potential. 97% of the total North Coast MA had no change in August consumptive use between 1997 and 2004. North Coast MA. Data, analyses, and interpretation of these limiting factors are available at www.oregon-plan.org. Although not currently a significant constraint on coho Remain alert to detect future **OTHER FACTORS** Assessed data, literature, and local observations. Toxics, DO, pH, Stream recovery, each factor has the potential of limiting coho at local fertility and shade, Spawning gravel, Hydro power, Illegal harvest, Disease, Estuaries, importance of spatial scales Wetlands, Exotic fish interactions, Predation by birds & pinnipeds

^{*} 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.