

**Current Research on the Willamette Basin**

Project/Activity Focus	Project Partners/Participants/Funding	Relevancy to Project hi/med/lo	Primary Person in Charge	comments	information sources
<b>Federal Species Protection</b>					
Oregon chub recovery plan	ODOT, USFS, ODFW, OSU, USACE, ODPR, USFWS	med	Anne Badgley? USFWS	The recovery plan is designed to bring OR chub off of the ES list with the intention of managing existing sites, eliminating non-native competitors, reintroduction, and public education and outreach. In the WRB they have worked on: Gray Creek Drainage (William L. Finley National Wildlife Refuge), South/Dunlin/Wood Duck Pond area of Ankeny National Wildlife Refuge) and preliminary discussions have been initiated with private landowners in the N. Santiam River drainage to protect OR chub habitat in Gray Slough. Total estimated cost: \$1,732,000	<a href="http://ecos.fws.gov/docs/recovery_plans/1998/980903b.pdf">http://ecos.fws.gov/docs/recovery_plans/1998/980903b.pdf</a>
Draft bull trout recovery plan		med		The recovery plan has the same objectives as above. There is strong data behind the study (10 yrs monitoring data). They plan to implement: watershed assessments, monitor sediment, modify roads/trails, agricultural monitoring, water quality regulations - encourage rapid implementation of the TMDL, Klamath Bull Trout Working Group developed a water quality monitoring plan to improve stream flow, eliminate barriers, increase fish passage, restore riparian areas, dam operation, and control of non-native fish. Pg. 51-56 (Implementation Schedule Chapter ( <a href="http://www.fws.gov/pacific/bulltrout/colkla/recovery/chapters/Chapter_7/C7_Implementation_Schedule.pdf">http://www.fws.gov/pacific/bulltrout/colkla/recovery/chapters/Chapter_7/C7_Implementation_Schedule.pdf</a> )) has more specific restoration actions with responsible parties, but no geographical link.	<a href="http://www.fws.gov/pacific/bulltrout/colkla/recovery/chapters/Chapter_2/C2_Strategy_for_Recovery.pdf">http://www.fws.gov/pacific/bulltrout/colkla/recovery/chapters/Chapter_2/C2_Strategy_for_Recovery.pdf</a>
Willamette-Lower Columbia Salmon Recovery Process	ESA Executive Committee, NMFS, and ODFW	hi	Patty Dornbusch - NMFS, ODFW, NOAA &	Recovery plan: (1) inventorying all ongoing state, tribal, local, and Federal conservation plans and planning efforts, as well as all existing Habitat Conservation Plans and 4(d) rule components in each planning area; (2) evaluating these existing conservation plans and efforts to assess how well they address identified factors for decline and limiting factors, and the extent to which they collectively achieve the identified recovery goals; (3) identifying and evaluating any additional or alternative measures necessary for achieving the identified recovery goals; (4) prioritizing the required recovery measures and identifying the entity or entities responsible for implementing them; and (5) estimating the costs and time needed to carry out the identified recovery measures.	<a href="http://www.nwr.noaa.gov/Salmon-Recovery-Planning/Recovery-Domains/Willamette-Lower-Columbia/upload/W-LC-Strategy.pdf">http://www.nwr.noaa.gov/Salmon-Recovery-Planning/Recovery-Domains/Willamette-Lower-Columbia/upload/W-LC-Strategy.pdf</a> ---- <a href="http://www.nwfsc.noaa.gov/trt/overview.cfm#recgoals">http://www.nwfsc.noaa.gov/trt/overview.cfm#recgoals</a>
Defenders of Wildlife Ecosystem Marketplace	Searching for opps to leverage ESA Species Banks, etc.	?	Sara Vickerman, Defenders of Wildlife (need to check with Sara on whether this is moving forward)		
Federal Columbia River Power System Biological Opinion & RPAs	USACE, BPA, BIA, BLM, BOR, EPA, USFWS, USFS	hi	Federal Columbia River Power Systems & Basin wide Salmon Strategy		
<b>State Species Protection</b>					
ODFW Native Fish Conservation Policy	ODFW	med	Holly Michaels (?)	Main goals of protecting ecological communities, conserving genetic resources, taking advantage of productive capacity of natural habitats, and planning responsible hatcheries	<a href="http://www.dfw.state.or.us/ODFWhtml/InfoCtrFish/NFCP_091203.pdf">http://www.dfw.state.or.us/ODFWhtml/InfoCtrFish/NFCP_091203.pdf</a> ----
ODFW Wildlife Diversity Plan and Program	ODFW	med	Holly Michaels		GIS map information: <a href="http://nrimp.dfw.state.or.us/nrimp/default.aspx?pn=data">http://nrimp.dfw.state.or.us/nrimp/default.aspx?pn=data</a> resources --- inventory of state and federal fish and wildlife plans and programs: <a href="http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/App%20L_State%20Fed%20Inv.pdf">http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/App%20L_State%20Fed%20Inv.pdf</a>

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ODFW Subbasin-specific Salmon and Steelhead Production Plans	NW Power Planning Council	hi	ODFW	Most of the data they used to create their plan is based on the NW Research Consortium (Hulse and Gregory Data U of O/OSU). Recommended conservation themes: deal with the dams—change flow regimes and establish fish passage, fix culverts and diversions to allow fish passage, focus on valley and foothills wildlife, restore lowland riparian areas, restore low-cost, high-return areas of the Willamette River floodplain, let the river cool itself by seeping through streamside gravels, alcoves, and islands, ensure that all priority themes above are taken up and supported in an organized way at the local level.	map info: <a href="http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/App%20R_PCA-CROA%20maps.pdf">http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/App%20R_PCA-CROA%20maps.pdf</a> ---- general plan: <a href="http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/">http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/</a>
ODFW Subbasin-specific Fish Management Plans	ODFW	med	ODFW		
ODFW Fisheries Management Evaluation Plans	ODFW	med	ODFW		
ODFW Hatchery and Genetic Management Plans	6 HGMPs: Clackamas River Winter Steelhead Program, McKenzie River Spring Chinook, North and South Santiam River Spring Chinook program, North and South Santiam River Summer Steelhead program, Willamette Basin Rainbow Trout program,	med	ODFW		
Fish Passage	local, state, and federal agencies coordinated by ODFW	hi	ODFW		
ODFW Willamette Mitigation Program		hi	ODFW		
Corps of Engineers Willamette Basin Reservoir Project Management		hi	USACE		
<b>Water Quality</b>					
NPDES program	industries with large pollutant loads, toxic discharge, large domestic waste treatment facilities	hi	NPDES		
Stormwater Management	Keizer, Turner, Springfield, Coburg, Corvallis, Philomath, and Adair Village communities	med	NPDES - CWA		
Combined Sewer Overflow correction Total Maximum Daily Loads	Portland and Corvallis Tualatin Subbasin	med hi	DEQ DEQ		
Agricultural Water Quality Management Plans		med	DEQ - ODA - Mike Powers (?)	They have several different plans they have developed based on location. The major objectives for the plan are: education, resource management, funding, and evaluation. The prevention and control measures are temperature and bacteria.	<a href="http://oregon.gov/ODA/NRD/docs/pdf/plans/wlmtmid_04_pln.pdf">http://oregon.gov/ODA/NRD/docs/pdf/plans/wlmtmid_04_pln.pdf</a>
Historical Channel Maps	OSU, EPA, PNW, ERC	hi	Stan Gregory		
Temperature Data being collected in 2006	OSU	hi	Stan Gregory - Stan to prepare river temperature maps?		
Temperature Data collected in 2005	OSU, CSTNS, ODEQ, NSF?	hi	Stan Gregory - Stan to prepare river temperature maps?		
Portland Harbor Superfund Clean Up Floodplain Restoration Priorities	EPA Star	lo hi	DEQ - EPA Stan Gregory and David Hulse, University of Oregon		
Quantify temperature reduction through hyporheic zone	NSF	hi	Steven Lancaster and Roy Haggardy, University of Oregon		<a href="http://www.deq.state.or.us/WQ/wqtrading/docs/hyporheicreport.pdf">http://www.deq.state.or.us/WQ/wqtrading/docs/hyporheicreport.pdf</a>
Using Market Forces to Implement Sustainable Stormwater Management	EPA	hi	Dan Vizzini and Jim Middaugh, City of Portland		
Interagency Flow Management Work Group (Sustainable Rivers)	USACE	hi	USACE and TNC		
ACWA Review of NPDES Users	ACWA	hi	Stuart Rounds, USGS		

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<b>State and Federal Refuge Complex/Greenway</b>					
Tualatin River and the Wapato Refuges					
Green Island Restoration/Refuge Studies	USFWS, MRT	med	Joe Moll, MRT & Jim Hout USFWS		
Riparian Vegetation Cover	OSU	hi	Stan Gregory		
Wood Abundance	OSU	hi	Stan Gregory		
State Wildlife Management Areas		med	USACE		
Willamette Greenway	Willamette Greenway Advisory Committee	hi	Oregon Parks and Recreation Dept.		
<b>Multi-Purpose Programs Affecting System</b>					
Northwest Forest Plan/Aquatic Conservation Strategy	Forest Service	hi			subscription needed: <a href="http://www.blackwell-synergy.com/doi/abs/10.1111/j.1523-1739.2006.00380.x?cookieSet=1&amp;journalCode=cbi">http://www.blackwell-synergy.com/doi/abs/10.1111/j.1523-1739.2006.00380.x?cookieSet=1&amp;journalCode=cbi</a> --- final EIS: <a href="http://www.reo.gov/library/acs/final-seis/1final_eis.pdf">http://www.reo.gov/library/acs/final-seis/1final_eis.pdf</a>
Oregon Forest Practices Act	Department of Forestry	hi			
Farm Bill landowner incentives programs	NRCS	med	NRCS	the 2002 act authorizes \$50 million for the Klamath Basin in Oregon and California.	<a href="http://www.biodiversitypartners.org/incentives/programfed.shtml">http://www.biodiversitypartners.org/incentives/programfed.shtml</a>
Oregon Plan for Salmon and Watersheds-WRI		hi	WRI		
Oregon Watershed Enhancement Board's Grant Program	OWEB - and watershed councils/SWCD's	med/hi	WC, SWCD or other grant lead		
Shovel-ready "Industrial Lands" - Wetland Mitigation Demand	OECD/DSL	hi	Lynn Beaton/DSL; Gabrielle___/OECD		
River Channel Data and Restoration	OSU, STAR	hi	Stan Gregory		
FEMA Floodplains	OSU, EPA, PNW, ERC	hi	Stan Gregory		
Flood History Maps	OSU, EPA, PNW, ERC	hi	Stan Gregory		
Willamette Flow Management Project			TNC		
Willamette Basin Collaborative Modeling	IWR Appropriation		Matt Rea, Corps of Engineers		
Ecosystem Economics Model for Willamette Basin Restoration and Conservation	NWPCC Grant		Dan Heagerty, DEA		
Willamette Marketplace Collaborative Stakeholder Involvement	NFWF Grant		David Primozich, Willamette Partnership		
Willamette River Basin Planning Atlas (Alternative Futures Study)	EPA et al	hi	Stan Gregory and David Hulse, University of Oregon		
<b>Local Conservation Efforts</b>					
Local Governments		hi			
Watershed Councils and Soil and Water Conservation Districts	ORS	med	SWCDs		
<b>Other on-going efforts</b>					
Governor's Willamette Initiative	<i>Need to find out who is in charge and what they are doing now</i>		Governor's staff		
Watershed Councils	<i>OWEB - Need to identify projects or activities that are relevant</i>		Council Coordinators		
Institutional Modeling of Willamette Basin	PSU	hi	Stephan Brown, PSU		
Ecosystem Marketplace					
Contribution to Market Appraisal Task 1		hi	Bobby Cochran, CWS		
Willamette Basin Land Cover and Economic Use (almost done?)	University of Minnesota	hi	Steve Palasky		
Clackamas River Floodplain Restoration	PGE	med/hi	John____/PGE		