Pacific Northwest

Regional Water Program

A Partnership of USDA NIFA & Land Grant Colleges and Universities





Overview

In our efforts to domesticate our lands and waters to the benefit of man, we have inadvertently degraded their ability to provide other uses. For example, by altering riparian areas and wetlands, we have affected their ability to provide fish and wildlife habitat as well as provide stream bank stability, flood protection, and water quality protection. Throughout the Pacific Northwest there are significant efforts underway to restore landscapes and ecosystems to better protect water quality and fish and wildlife habitat. The four land grant universities are actively engaged in research activities and outreach efforts that directly relate to watershed restoration. The universities have also developed a wide range of research-based educational materials on soils, plants, planting techniques, land management, and other topics directly related to environmental restoration.

Desired Outcomes

- Ecological systems are restored
- Restoration efforts are more successful
- Water resources are better protected
- Individuals have a greater knowledge and ability to implement restoration activities



Pacific Northwest Regional Publications: (note: these publications can be obtained from publication offices at Oregon State University, Washington State University and the University of Idaho)



PNW 552	Taking Care of Streams in Western Washington, Western Oregon, and Coastal Alaska
PNW 557	Taking Care of Streams in Eastern Washington, Eastern Oregon, and Idaho: A Homeowner's Guide to Riparian Areas
PNW 558	Taking Care of Streams in Western Washington, Western Oregon, and Coastal Alaska: A Landowner's Guide to Riparian Areas
PNW 559	Taking Care of Streams in Eastern Washington, Eastern Oregon, and Idaho: A Landowner's Guide to Riparian Areas
PNW 560	Taking Care of Streams in Washington, Oregon, Idaho, and Alaska: A Guide to Riparian Areas in Rangelands

PNW 561 Taking Care of Streams in Washington, Oregon, Idaho, and Alaska: A Recreationist's Guide to Riparian AreasPNW 562 Taking Care of Streams in Washington, Oregon, Idaho, and Alaska: A Developer's Guide to Riparian Areas

ALASKA Contacts

Dave Barnes, Associate Professor of Environmental Engineering, Fairbanks, (907) 474-6126, ffdlb@uaf.edu
Bob Wheeler, Forestry Specialist, Fairbanks, (907) 474-6356, ffraw@uaf.edu
Fred Sorensen, Water Quality Coordinator, Anchorage, (907) 786-6311, dffes@uaa.alaska.edu

ALASKA Publications

GWQ-00548 Protecting Alaska's Water ResourcesFWM-00113 Tree Production and Planting ConsiderationsHGA-00335 Transplanting Trees Successfully

IDAHO Contacts

Robert L. Mahler, Water Quality Coordinator, Moscow, (208) 885-7025, bmahler@uidaho.edu

Chuck Harris, Human Dimensions of Ecosystem Management; Policy and Planning, Moscow, (208) 885-6314, charris@uidaho.edu

Jim Kingery, Rangeland Ecologist; Wildland Vegetation Management, Moscow, (208) 885-7503, jkingery@uidaho.edu

Jeff Braatne, Stream and Riparian Ecology; Riparian and Wetland Plants, Moscow, (208) 885-9712, braatne@uidaho.edu

IDAHO Publications

CIS 887 Idaho's Water Resource

SB 61 Are Your Streams Healthy? Stream Quality Survey for Managing Private Forest Ecosystems

Order 624 Forestry BMPs for Idaho

Order 723 Trees Against the Wind

Order 7048 Riparian Water Quality Study — Clark County

OREGON Contacts

Derek Godwin, Extension Watershed Management Agent, Salem, (503) 566-2909, **derek.godwin@oregonstate.edu**

Mary Holbert, Extension Agent, Newport, (541) 574-6534 Ext. 30, mary.holbert@oregonstate.edu

Dan Edge, Fish Habitat and Fishery Restoration, Corvallis, (541) 737-2910, **daniel.edge@oregonstate.edu**

John Bolte, Watershed Processes and Restoration, Corvallis, (541) 737-6303, john.bolte@oregonstate.edu



OREGON Publications

EC 1407 Understanding Natural Wetlands

EC 1408 Using Constructed Wetlands to Improve Water Quality

EC 1489 Stream Temperatures: Some Basic Considerations

EM 8714 Watershed Stewardship: A Learning Guide

EM 8738 Life on the Edge: Restoring Riparian Function

EM 8761 Stream*A*Syst: A Tool to Help You Examine Stream Conditions on Your Property

VTP 021 We All Live Downstream video (28 min.)

VTP 029 After the Rain video (30 min.)

WASHINGTON Contacts

Robert Simmons, Land restoration techniques for fish and wildlife habitat improvement, Shelton, (360) 427-9670 Ext. 690, simmons@wsu.edu

Shulin Chen, Water quality monitoring, watershed assessment, water quality management, watershed modeling, and evaluation of best management practices, Pullman, (509) 335-3743, chens@wsu.edu

Barry Moore, Lake and stream ecology and restoration, Pullman, (509) 335-4006, bcmoore@wsu.edu

WASHINGTON Publications

EB 0440	Trees of Washington
EB 1446	Steppe Vegetation of Washington
EB 1505	Planting Landscape Plants
EB 1579	Landscape Plants for the Inland Northwest
MISC 0132	2 Is There a Place for Fish and Wildlife in Your Woodland?
MISC 0133	B Riparian Areas: Fish and Wildlife Havens
MISC 0141	Managing Small Woodlands for Grouse
MISC 0158	Managing Ponderosa Pine Woodlands for Fish and Wildlife
MISC 0160	Managing Small Woodlands for Cavity Nesting Birds
MISC 0161	Trout in Small Woodland Areas
MISC 0164	Managing Small Woodlands for Elk
MISC 0169	Hawk, Eagle and Osprey Management on Small Woodlands
MISC 0179	Wetlands as Varied as our Region
MISC 0187	Managing Quail on Small Woodlands
MISC 0189	Managing Deer in Small Woodlands
MISC 0196	6 Beaver, Muskrat, and Nutria on Small Woodlands
MISC 0229	Interior Cedar-Hemlock-White Pine Forests: Ecology and Management
MISC 0232	2 Ponderosa Pine: The Species and its Management
MISC 0249	Forest Vegetation of Eastern Washington and Northern Idaho
MISC 0267	Landscaping with Native Plants in the Inland Northwest
MISC 0273	³ Grow Your Own Native Landscape: A Guide to Identifying, Propagation and Landscaping with Western Washington Native Plants
MISC 0274	Winter in the Woods: A Winter Guide to Deciduous Native Plants in Western Washington
MISC 0337	Plant it Right: Restoration Planting Techniques
PNW 0500	Plant Materials for Landscaping: A List of Plants for the Pacific Northwest
VT 0082	Keep it Clean Downstream
X/T 0110	

VT 0113 Plant it Right: Restoring Our Streams



Pacific Northwest Regional Water Quality Coordination Project Partners

Land Grant Universities Alaska

Cooperative Extension Service Contact Fred Sorensen: 907-786-6311 <u>http://www.uaf.edu/ces/water/</u> University Publications: <u>http://www.alaska.edu/uaf/ces/publications/</u>

<u>Idaho</u>

University of Idaho Cooperative Extension System Contact Bob Mahler: 208-885-7025 <u>http://www.uidaho.edu/wq/wqhome.html</u> University Publications: <u>http://info.ag.uidaho.edu/Catalog/catalog.htm</u>

<u>Oregon</u>

Oregon State University Extension Service Contact Mike Gamroth: 541-737-3316 <u>http://extension.oregonstate.edu/</u> University Publications: <u>http://extension.oregonstate.edu/catalog/</u>

Washington

Washington State University WSU Extension Contact Bob Simmons: 360-427-9670 ext. 690 <u>http://wawater.wsu.edu/</u> University Publications: <u>http://pubs.wsu.edu/</u>

Northwest Indian College Contact Charlotte Clausing: 360-392-4319 cclausing@nwic.edu or http://www.nwic.edu/

Water Resource Research Institutes Water and Environmental Research

Water and Environmental Rese Center (Alaska) <u>http://www.uaf.edu/water/</u>

Idaho Water Resources Research Institute http://www.boise.uidaho.edu/

Institute for Water and Watersheds (Oregon) http://water.oregonstate.edu/

State of Washington Water Research Center http://www.swwrc.wsu.edu/

Environmental Protection Agency

EPA, Region 10 The Pacific Northwest http://www.epa.gov/r10earth/

Office of Research and Development, Corvallis Laboratory http://www.epa.gov/wed/

For more information contact Jan Seago at 206-553-0038 or seago.jan@epa.gov

The Project

Land Grant Universities, Water Research Institutes, and EPA Region 10 have formed a partnership to provide research and education to communities about protecting or restoring the quality of water resources. This partnership is being supported in part by the USDA's National Institute of Food and Agriculture (NIFA).

Our Goal and Approach

The goal of this Project is to provide leadership for water resources research, education, and outreach to help people, industry, and governments to prevent and solve current and emerging water quality and quantity problems. The approach to achieving this goal is for the Partners to develop a coordinated water quality effort based on, and strengthening, indivudual state programs.

Our Strengths

The Project promotes regional collaboration by acknowledging existing programs and successful efforts; assisting program gaps; identifying potential issues for cross-agency and private sector collaboration; and developing a clearinghouse of expertise and programs. In addition, the Project establishes or enhances partnerships with federal, state, and local environmental and water resource management agencies, such as by placing a University Liaison within the offices of EPA Region 10.





National Water Quality Program Areas

The four land grant universities in the Pacific Northwest have aligned our water resource Extension and research efforts with eight themes of the USDA's National Institute of Food and Agriculture.

- 1. Animal Waste Management
- 2. Drinking Water and Human Health
- 3. Environmental Restoration
- 4. Nutrient and Pesticide Management
- 5. Pollution Assessment and Prevention
- 6. Watershed Management
- 7. Water Conservation and Management
- 8. Water Policy and Economics

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