Pacific Northwest Regional Water Quality Coordination Project Partners

Land Grant Universities

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

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

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

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

Northwest Indian College
Contact Dan Burns:
360-392-4328
dburns@nwic.edu or
http://www.nwic.edu/

Water Resource Research Institutes
Water and Environmental Research Center (Alaska)
http://www.uaf.edu/water/

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 Cooperative State Research, Education, and Extension System (CSREES).

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 Cooperative State Research, Education and Extension System.

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

CSREES is the Cooperative States Research, Education, and Extension Service, a sub-agency of the United States Department of Agriculture, and is the federal partner in this water quality program.

Summer 2003
PNWWATER 017

Applying knowledge to improve water quality

Pacific Northwest Regional Water Program

A Partnership of USDA CSREES & Land Grant Colleges and Universities

Environmental Restoration

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

Washington State University
Oregon State University OSU
University of Idaho
Northwest Indian College
UAF University of Alaska Fairbanks
United States Environmental Protection Agency
CSREES Education Research Extension USDA

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 Areas

PNW 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 Resources

FWM-00113 Tree Production and Planting Considerations

HGA-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 Is There a Place for Fish and Wildlife in Your Woodland?

MISC 0133 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 Beaver, Muskrat, and Nutria on Small Woodlands

MISC 0229 Interior Cedar-Hemlock-White Pine Forests: Ecology and Management

MISC 0232 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 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

VT 0113 Plant it Right: Restoring Our Streams