Pacific Northwest

Regional Water Program

A Partnership of USDA NIFA & Land Grant Colleges and Universities Watershed Management



Overview

Watershed level management requires a perspective that unites social, economic, and environmental concerns in a landscape where upland forests and rangelands, wetlands, agricultural and urban areas are integrated. An understanding of watershed linkages allows us to design long-term and sustainable solutions to a variety of natural resource problems. Watershed management planning in the Pacific Northwest states must also take into consideration the diversity of land uses such as private and federal forests, crops and livestock ranching, cities, and other uses. Watersheds in the Pacific Northwest differ quite dramatically as well, ranging from 400 or more inches of precipitation a year in coastal areas to as little as four inches a year in some areas of the Washington and Oregon plateau country. Model efforts in watershed management include the capture, storage, and safe release of water resources, the prevention and management of accelerated soil erosion through the maintenance of an appropriate vegetation cover, and prevention strategies for stormwater degradation of surface and ground water resources.

Desired Outcomes

- Fish and wildlife habitats are preserved
- Erosion is managed on uplands, riparian areas, and stream channels
- Water quality is protected and/or enhanced
- Stormwater pollution prevention strategies are included in all development plans
- Citizen involvement in watershed management is increased
- Citizen awareness and knowledge of watershed management is increased



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: A Homeowner's Guide to Riparian Areas
- **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 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 Coastal 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

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Amy Tidwell, Water and Environmental Research Center, Fairbanks, 907-474-2783, <u>fnact@uaf.edu</u>

Douglas Kane, Water and Environmental Research Center, Fairbanks, 907-474-7808, <u>ffdlk@uaf.edu</u>

ALASKA Publications

www.alaska.edu/uaf/ces/publications/

GWQ-00548 Protecting Alaska's Water ResourcesWQ MHJ The Water Quality Monitor's Handbook of JargonCRD-00011 Living in the InteriorCRD-000111 Living in Anchorage

IDAHO Contacts

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IDAHO Publications info.ag.uidaho.edu/





CIS 887 Idaho's Water Resource CIS 962 Best Management Practices for Nitrogen Management to Protect Groundwater CIS 963 Best Management Practices for Phosphorus Management to Protect Surface Water VID676 Forest Water Quality VID624 Forest BMPs for Idaho VID785 Save the Land: Protect the River VID915 Ranching in Harmony with the Land VID675 Riparian Water Quality Study in Clark County

OREGON Contacts

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Tara Nierenberg, Statewide Watershed Education Coordinator, Corvallis, 541-737-8715, <u>tara.nierenberg@oregonstate.edu</u>

OREGON Publications extension.oregonstate.edu/catalog/

EC 1119 Incentive Programs for Resource Management and Conservation

EC 1407 Understanding Natural Wetlands

EC 1408 Using Constructed Wetlands to Improve Water Quality

EC 1426 The State of Water in Oregon

EM 8714 Watershed Stewardship: A Learning Guide

EM 8738 and VTP 033 Life on the Edge: Restoring Riparian Function, study guide and video

EM 8858-E Saving Eden Creek: A Play about People and Forests

VTP 013 The Miracle at Bridge Creek Case Study video

VTP 014 Water Quality and our Forests: Western Oregon Research video

VTP 021 We All Live Downstream video



WASHINGTON Contacts

Bob Simmons, Water Quality Coordinator, Shelton, 360-427-9670 x 690, <u>simmons@wsu.edu</u> Katherine Baril, Natural Resource Planning and Management, Port Hadlock, 360-379-5610 x 202, <u>kbaril@wsu.edu</u> Curtis Hinman, Water Quality Educator, Tacoma, 253-798-3257, <u>chinman@wsu.edu</u>

WASHINGTON Publications: pubs.wsu.edu/

DVD 0011 Anthology of Watershed Issues Workshops 2002-04
EB 1622 Washington Groundwater: A Vital Resource
EB 1633 Role of Soil in Groundwater Protection
EB 1634 Washington Agriculture: Sustaining Water, Land, and People
EB 1713 Protecting Groundwater: Managing Livestock on Small Acreage
EB 1721 Defining Water Quality
EB 1761 Developing a Volunteer Program for Public Environmental Education
EB 1775 Riparian Grazing



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 <u>cclausing@nwic.edu</u> or <u>http://www.nwic.edu/</u>

Water Resource Research Institutes

Water and Environmental Research 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.

- **EM 4885** Irrigation Management Practices to Protect Surface and Ground Water Quality in the State of Washington
- **EM 8660** Livestock Influences on Riparian Zones and Fish Habitat: A Bibliography and fully searchable database
- **EM 8714** Watershed Stewardship: A Learning Guide (Oregon State University)

EM 8738 Life on the Edge: Restoring Riparian Function (Oregon State University)

EM 8745 Backyard Woodlands: Caring for Trees, Forests, Water, and Wildlife on Small Forested Acreage (OSU)

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

MISC 0133 Riparian Areas: Fish and Wildlife Havens

MISC 0172 Experiencing Water Resources: A Guide to Your River Basin

MISC 0179 Wetlands as Varied as Our Region

VT 0113 Plant it Right: Restoring Our Streams



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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