



Applying knowledge to improve water quality

Pacific Northwest

Regional Water Program

A Partnership of USDA NIFA
& Land Grant Colleges and Universities

Winter 2010
PNWWATER 173

April 2010 Symposium:

Investigating the Connections Between Integrated Pest Management and Water Quality

A symposium is planned for April 13, 2010 in Boise, Idaho to highlight and explore ways to protect and improve water quality with the implementation of Integrated Pest Management (IPM) practices. This one day symposium will be attractive and beneficial to a diverse group of professionals throughout the West. University Extension educators and specialists, along with government specialists, and NGOs will benefit by participating in the symposium. Networking opportunities and exploring research and Extension ideas for addressing the connections between integrated pest management and water quality will be available. The symposium will feature a keynote speaker from USDA/ National Institute of Food and Agriculture, and a variety of IPM, water quality, and social science experts from around the western region. Small group discussions will be featured to determine emerging issues and potential joint projects. Small groups will help to determine outputs, desired outcomes, and potential impacts of new projects and explore possible funding opportunities.



Lisa Downey-Blecker demonstrating how to scout a field for pests. Scouting is a fundamental element in an IPM program. Photo by Wayne Jones, UI Extension. Used with permission.

We will hear information on “case studies” where watersheds have measured changes in water quality and best management practices effectiveness. Information on water quality indicators and how to measure impacts of program effectiveness will be discussed, along with how to develop IPM tactics to demonstrate positive water quality impacts. Additionally, we will learn what pesticide residues are present in western waters and what the toxicological impacts are on the ecosystem. A social scientist will help us explore the human dimensions of working in watershed groups and discuss the science of creating behavioral changes.

Symposium participants will divide into small groups during the afternoon session. Each small group will be asked to design a feasible future water quality/IPM project. The project planning session will utilize the Logic Model process to determine what resources are needed, identification of the desired outcomes, and what short-term and long-term impacts will need to be measured in order to provide a successful water quality/ IPM program. Multi-state and multi-disciplinary program ideas will be explored and encouraged during the symposium.



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 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, individual 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.

The symposium is hosted by the Pacific Northwest Regional Water Program and the Western Integrated Pest Management Center.

On-line registration for this one day water quality/IPM Symposium is now open. Please go to <http://ipm.wsu.edu/PBESA/> for meeting, hotel, and registration information. The symposium is being held in conjunction with the Pacific Branch Entomological Society of America; so look for the separate symposium registration listed on the Pacific Branch web site. There is a one-day separate registration fee of \$75.00 for the water quality/IPM Symposium, which will be held at the Grove Hotel in downtown Boise, Idaho April 13, 2010.



Chopping a green manure crop on the Fort Hall Reservation in Idaho. Green manure crops are used as alternatives to pesticides to manage pests and reduce impacts on ground water quality. Photo by Dee Carlson, NRCS. Used with permission.

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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