

Successes and Challenges in the "406" Web Network

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Alyson McCann, and Art Gold

University of Rhode Island
2005 USDA-CSREES National Water Quality Conference
Web Workshop



Agenda

- Introductions
- Website “business”
- Review of the 406 Web Network
- Tour of the 406 Web Network
- Challenges to the 406 Web Network

- This presentation will be available online at:
<http://www.usawaterquality.org/406developers/>

Website “Business”

- National Website Contact Info:
 - Content: Kelly Addy, kaddy@uri.edu, 401-874-7532
 - Code: Aimee Mandeville, aimee@edc.uri.edu, 401-874-2930
 - Sorry we are not here!!
 - Kelly will still be content contact person on maternity leave with much help from: Aimee Mandeville, Caitlin Chaffee, Alyson McCann, and Art Gold
- Reminder that logos/acknowledgement statement available at:
<http://www.usawaterquality.org/logos/>
- Acknowledgement statement on “About” page of website (or homepage)
- Other?

Network of 406 Water Quality Websites

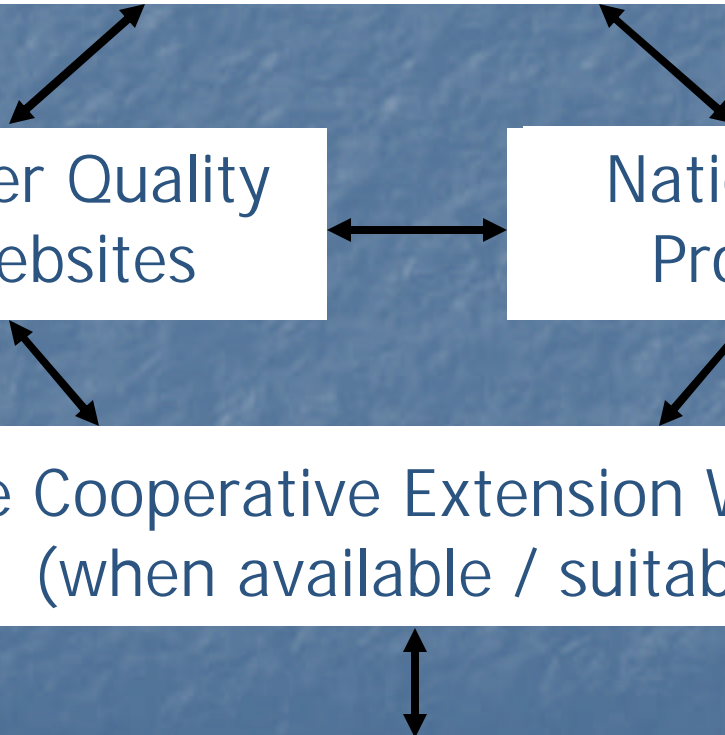
National Water Quality Program website
www.usawaterquality.org

Regional Water Quality
Program Websites

National Facilitation
Project Websites

State Cooperative Extension Websites
(when available / suitable)

specific program websites



What is the Purpose of the Network?

Marketing

Provide overview of the CSREES Water Quality Program to congressmen, deans, directors, partners, and funding agencies.

- How is their money being used to improve water quality?



Communication

Quickly connect Land-Grant personnel and visitors with the resources of the CSREES Water Quality Program network.

Coordination

Distribute materials and information useful to the 406 network

What is the Land Grant University - CSREES National WQ Program?

- * Applying Knowledge to Improve Water Quality *
- The goal is to protect or improve the quality of water resources throughout the U.S.
- Goal addressed at the national (including NFP), regional (ten regional partnerships), state and local levels
- Bring researchers, instructors, and extension educators into more effective and efficient partnerships with each other and other agencies

Need to Demonstrate

- Research-Based Extension
- Integrated Research, Education, and Extension
- Partnerships
- Regional or multi-state efforts
- Impacts → Our programs are improving water quality

Tour of the 406 Website Network

- Highlighting the Network websites to generate ideas
- Facilitate discussion of what we think works best at many levels

National Website – Portal to the Nation

CSREES National Water Quality Program
Applying knowledge to improve water quality

– Research, Education & Extension –
[Directory](#) • [Event Calendar](#) • [Feedback](#) • [Reporting](#) • [Site Map](#)

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FY 2005 REQUEST FOR APPLICATIONS
National Research Initiative Competitive Grants Program
Watershed Processes and Water Resources
Deadline for applications: March 1, 2005
[Download the RFA >>](#)

FY 2005 REQUEST FOR APPLICATIONS
Integrated Research, Education, and Extension Competitive Grants Program
National Integrated Water Quality Program
Deadline for applications: March 16, 2005
[Download the RFA >>](#)

the CSREES Regional Water Quality Programs
(select a region to learn more)

Upcoming Events
Feb 7-9: >>
2005 CSREES National Water Quality Conference
Venue: La Jolla, CA
Feb 14-15: >>
AWRA's 2nd National Water Resources Policy Dialogue
Venue: Tucson, AZ
March 5-10: >>
ASAE Conference on Watershed Management to Meet Water Quality Standards and Emerging TMDLs
Venue: Atlanta, GA
[more events are listed in the event calendar...](#)
[USDA-CSREES National Water Quality Conference Proceedings](#)

A cooperative program consisting of the USDA Cooperative State Research, Education, and Extension Service and the Land Grant Colleges and Universities.
- a Regionally-Based National Network -

[Directory](#) | [Event Calendar](#) | [Feedback](#) | [Logos](#) | [Reporting](#) | [Site Map](#)

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page last modified January 17, 2005
>> all external sites will open in a new browser window >>

CSREES
NATIONAL
Water Quality Program



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search this website:

The goal of the CSREES/USDA 406 Water Quality Initiative Competitive Grants Program is to fund appropriate research, extension, and education efforts that are necessary to protect or improve the quality of water resources throughout the United States and its territories, particularly in agriculturally managed watersheds.

This website features a comprehensive index of all awards that have been granted since the inception of the CSREES/USDA 406 Water Quality Initiative Competitive Grants Program. Each entry in the index is linked to its respective USDA Current Research Information System (CRIS).

Grants Awarded by the
**CSREES / USDA 406 Water Quality Initiative
Competitive Grants Program**

(sorted by year)

[2000](#) - [2001](#) - [2002](#) - [2003](#) - [2004](#)

Grants Awarded by the
**CSREES / USDA National Research Initiative (NRI)
Competitive Grants Program**
**Natural Resources and the Environment
Watershed Processes and Water Resources**

(sorted by year)

[2001](#) - [2002](#) - [2003](#) - [2004](#)


Grants Awarded by the
CSREES / USDA Conservation Effects Assessment Project (CEAP)
**A joint competitive grants program offered
by CSREES and the Natural Resources Conservation Service**

(sorted by year)


[2004](#)

CRIS – Current Research Information System

- <http://cris.csrees.usda.gov/>
- Contact Kelly for info on conducting CRIS searches and how to create links to CRIS records.



Cooperative State
Research, Education, and Extension Service



U.S. Department
of Agriculture

Home Contact

Current Research Information System **CRIS**

Item No. 1 of 1

ACCESSION NO: 0201344 **SUBFILE:** CRIS
PROJ NO: MONW-2004-04628 **AGENCY:** CSREES MONW
PROJ TYPE: OTHER GRANTS **PROJ STATUS:** NEW
CONTRACT/GRANT/AGREEMENT NO: 2004-51130-02231 **PROPOSAL NO:** 2004-04628
START: 15 SEP 2004 **TERM:** 14 SEP 2007 **GRANT YR:** 2004
GRANT AMT: \$300,000

INVESTIGATOR: Dupuis, V. F.; , Young, D.

PERFORMING INSTITUTION:
Salish Kootenai College
Pablo, MONTANA 59855

TRIBAL COLLEGES AND UNIVERSITIES NATIONAL FACILITATION PROJECT FOR INCREASING TRIBAL INVOLVEMENT IN THE WATER QUALITY NETWORK

NON-TECHNICAL SUMMARY: Water is a central and essential part of tribal community culture, history, and economic future. Tribal Collge and University participation in the land grant USDA-CSREES National Water Quality Program has been limited, though many institutions, Tribes, and reservations they serve are very affected and active in water issues The purpose of this National Facilitation Project will initiate inclusion of the tribal land grant institutions and tribal communities with the USDA-CSREES National Water Quality Program to address serious water resources issues existing in Indian Country.

OBJECTIVES: Project Objectives: 1) Involve the Coalition with the USDA-CSREES Water Quality Program and other entities interested in water quality and tribal communities. 2) Conduct an assessment of TCUs to document needs and capacities at institutions and reservations served, and produce a strategic plan for engaging the TCUs with the Network, land grant system, and USDA. 3) Develop collaboration between TCU analytical laboratories and staff with State coordinators and land grant university technical expertise. 4) Develop water quality curriculum for use at the TCUs. 5) Conduct an annual TCU Water Quality Summit that brings together water quality project directors, faculty, and specialists to address tribal water quality issues. 6) Establish water quality mini-grant agreements that will involve Coalition members and other TCUs.

APPROACH: A nationwide collaboration of Tribal College and Universities (TCUs) Extension, Education, and Research departments will form a TCU Water Resources Coalition (Coalition) that will cooperate and participate with the USDA-CSREES Land Grant Water Quality

National Website – National Themes

- Three themes fully developed
 - Animal Waste Management
 - Drinking Water and Human Health
 - Watershed Management (debut any day...)
- Snapshot of Research, Education, & Extension activities across nation
- Gathered info from Regional & NFP websites and CRIS records—link back to original source
- Often search beyond what is on Regional & NFP websites and CRIS to create additional links

National Theme – Example Page



Home >> National Themes >> Animal Waste Management >> Research >>

PHOSPHORUS INDEX

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search this website:



NATIONAL THEME: ANIMAL WASTE MANAGEMENT

[Research](#)

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PHOSPHORUS INDEX

The Phosphorus Index is a simple field-based planning tool to assess the risk of phosphorus (P) movement from agriculture to water. Many versions of the P index exist and are in varying stages of evolution due to differing regional and geographic conditions. Much research within USDA CSREES is being done to identify P sensitive watersheds, expand and improve on P indices, and to develop best management practices (BMPs) to reduce agricultural P losses to water.

ACCOMPLISHMENTS:

— A formalized group of scientists, [SERA-17](#) (Southern Extension Research Activity with many members associated with Land-Grant Universities), was organized through the auspices of the Southern CSREES Region. This group discusses the **research and management needs related to agricultural P and water quality**.

— University of Arkansas researchers collected runoff data and formulated a **P index for pastures** (Wilson, 2003). They found high correlation between this P index and soluble reactive P in runoff.

— Research in the Heartland Region concluded that if runoff and erosion can be accurately predicted, the **P index can serve as a useful tool** for identifying sites where transport of P to surface water can be a potential concern.

EXAMPLE:

— Many states and regions are **improving and assessing local P indices**, including the [University of Vermont](#).

More discussion of animal waste management BMPs can be found on the [Treatment, Storage and Collection of Manure](#) page.

For more information on the current state of knowledge on the P Index, refer to the [Phosphorus Index: Background and Status White Paper Summary](#) produced by the [National Center for Manure and Animal Waste Management](#) funded through a USDA CSREES Fund for Rural America Grant.



National Website – Success Stories



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search this website:

This is an index of all the success stories featured on this website.
Check back here for new additions as our website grows!

ANIMAL WASTE MANAGEMENT

- [The Livestock and Poultry Environmental Stewardship Curriculum](#)
- [National Center for Manure & Animal Waste Management](#)

DRINKING WATER AND HUMAN HEALTH

- [Educating Real Estate Professionals: Changing Development Practices and Individual Behaviors](#)
- [Ultraviolet Light Disinfection of Drinking Water: An Alternative to Chlorination](#)
- [Private Well Water Initiative – New England Regional Water Quality Program Partners with EPA New England](#)
- [Tex*A*Syst Mobile Lab Program - Screening Drinking Water Wells and Educating Citizens](#)

POLLUTION ASSESSMENT AND PREVENTION

- [Colville Reservation Gets W.E.T.I.](#)

WATERSHED MANAGEMENT

- [National NEMO \(Nonpoint Education for Municipal Officials\) Network](#)
- [National Facilitation of CSREES Volunteer Monitoring Efforts Project](#)
- Check back soon for more additions!

[CSREES SCIENCE AND EDUCATION IMPACTS >>](#)

The CSREES/Land-Grant Institution (LGI) partnership continually impacts the lives of Americans across the country. Each year, CSREES works with its LGI partners to identify a few hundred of the most notable impacts of that partnership and bring them together in a Science and Education Impact report.

The impacts, or success stories, list land-grant research, education, and extension activities in the realm of water quality and quantity are listed below:

[2004 CSREES Science and Education Impacts:](#)
Water Wonderful World -- Safeguarding and enhancing the nation's water resources

National Website - SEARCH

- Search on any topic or institution
- Results include the abstracts, presentations, and posters of the 2003/2004 CSREES National WQ Conference
- Currently examines National and New England websites; researching how to make the search encompass all Regional and NFP websites



search this website:



Research, Education, and Extension Water Quality Programs through the Land Grant University System

our focus areas:

[Agricultural Best Management Practices](#)

[Community-Based Watershed Protection](#)

[Residential Pollution Prevention](#)

[Volunteer Water Quality Monitoring](#)

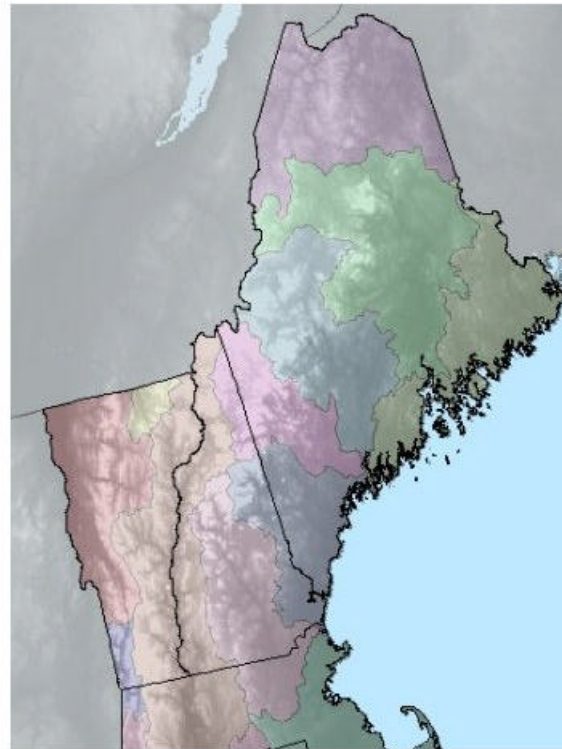
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Highlighted Focus Area Activities

link to focus area activity pages:	Upcoming Events
Agricultural Best Management Practices	Regional In-Service Training for Ag Service Providers Feb 2-3, 2005 Prout's Neck, ME Agenda ; more information
Community-Based Watershed Protection	NEMO University 4 April 4-7, 2005 Washington, D.C. (check back for more information)
Residential Pollution Prevention	Northeast Onsite Wastewater Treatment Short Course ➔ March 29-31, 2005 Groton, CT press release ; brochure ; agenda ➔ Private Well Initiative Technical Symposium Tentative Date: Nov 7, 2005 (check back for more information)
Volunteer Water Quality Monitoring	Shared Waters - New England Monitoring Summit April 4, 2005 Westford, MA (check back for more information)
New England Coordination	Feb 7, 2005, 2PM Meeting at CSREES National Water Quality Conference

Other Upcoming Events [\(see more events...\)](#)

Feb 7-9, 2005: ➔
 CSREES National Water Quality Conference
 Venue: La Jolla, CA



VOLUNTEER WATER QUALITY MONITORING
 Education

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our focus areas:

Agricultural Best Management Practices

Community-Based Watershed Protection

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New England Extension volunteer water quality monitoring programs often provide internships or jobs to undergraduate or graduate students at their affiliated Land Grant University. These students get hands-on experience in water quality monitoring from sampling to analysis to data entry and analysis.

EXAMPLES:

- The [University of Rhode Island \(URI\) Watershed Watch Program](#) → annually sponsors two to three students in the [URI Coastal Fellows Program](#) →, an experiential learning program that enables students to engage in research and Extension efforts.
- The [University of Vermont Watershed Alliance Program](#) → integrates undergraduate students into their program as resource assistants. These students undergo approximately 10 hours of water quality monitoring training with the Watershed Alliance enabling them to successfully implement the program's curriculum into middle schools and high schools and help the high school teachers to facilitate monitoring. These students obtain first hand knowledge of environmental education and water resources.

Degree programs and continuing education are critical to develop and enhance human resources to address water quality issues. Some example **undergraduate and graduate programs** at Land-Grant Universities pertaining to volunteer water quality monitoring include:

University of Connecticut: [College of Agriculture and Natural Resources](#) →

Major programs include: Environmental Science * Natural Resources Mgmt & Engineering * Plant Science

University of Maine: [College of Natural Sciences, Forestry, and Agriculture](#) →

Major programs include: Aquaculture * Biochemistry * Ecology & Environmental Science * Marine Science





— Research, Education & Extension —

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Regional Initiatives

[Animal Waste Management for
Small Farms](#)

[Onsite Wastewater Treatment
System Management](#)

[Water Quality Trading](#)

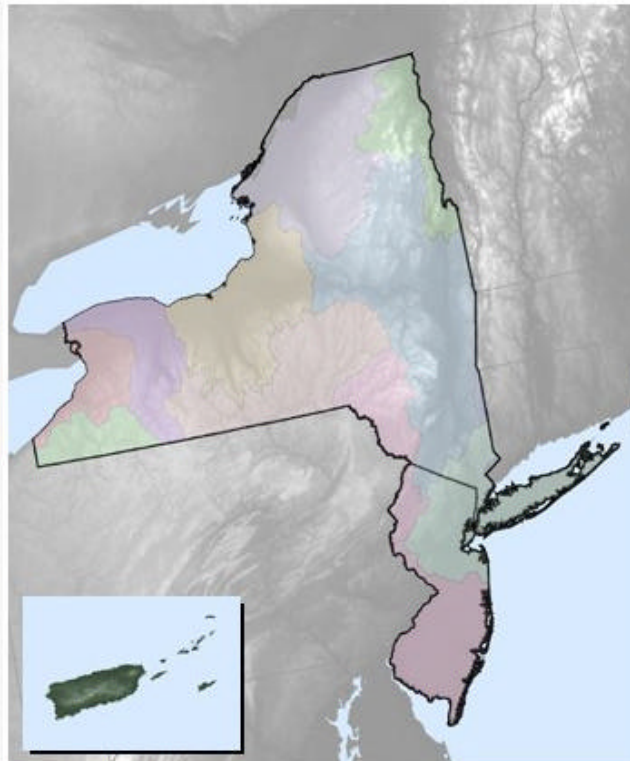
[Watershed Management](#)

Programs by State/ Commonwealth/ Territory

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Click on a State/Commonwealth/Territory for
Land Grant University water quality programming and links.

Upcoming Events

[2005 CSREES National
Water Quality Conference](#)
February 7-9, 2005

[More events...](#)



Hot Topics

[Water Pages - A quarterly
newsletter produced by
the Rutgers Cooperative
Extension Water
Resources Program:
*Creating Solutions for
Water Quality Issues in
New Jersey*](#)

[A Weather-Based
Decision System for
Residential Lawn
Watering.](#)

[More hot topics....](#)



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Welcome to the Mid-Atlantic Water Quality Site

Last Update: January 10th, 2005



News and Coming Events:

Third Greenhouse Gases & Carbon Sequestration in Agriculture and Forestry Symposium March 21-24, 2005 in Baltimore

➔ See <http://soilcarboncenter.k-state.edu/conference/>

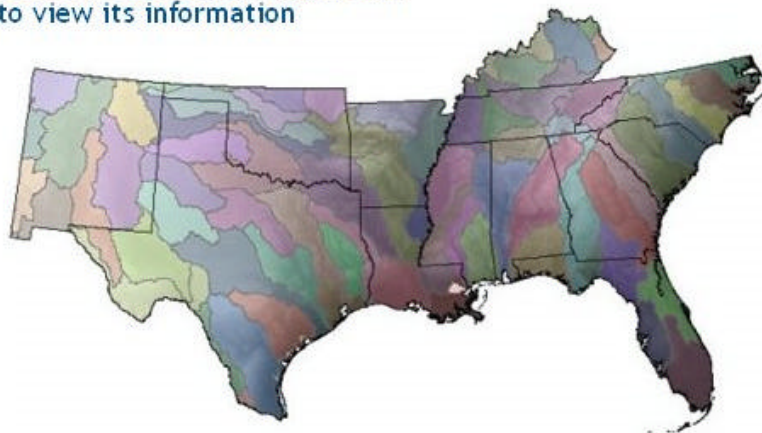
New Things On This Site!

- [Creating Markets for Manure: Basin-wide Management in the Chesapeake Bay Region](#)
- [Presentations from the Ammonia Forums](#)
- [Nutrient Budget Update](#)
- [TMDL Resource Directory](#)
- [New CAFO Rules](#)
- [Making SRF Loans Work for Agriculture](#)
- [Fertilize Wisely](#)



Research, Extension & Education Water Quality Programs through the Land Grant University System

Select a state on the map below to view its information



Upcoming Events

- February 7-9, 2005: [USDA-CSREES National Water Quality Conference, La Jolla, CA](#)
- Feb. 14, 2005: [Animal Waste Management Team Conference Call](#)
- March 13-16, 2005: [Watershed Restoration Program Team meets in Atlanta during "Emerging Issues along Urban-Rural Interfaces: Linking Science and Society."](#)
- March 15, 2005: [FY 2005 CSREES Integrated Water Quality Program RFA](#)
- April 4-7, 2005: [Nonpoint Education Network for Rural Community Decision Makers Program Team meets at NEMO U4](#)
- May 2-3, 2005: [Quarterly SRPC meeting in Baton Rouge, LA](#)
- Sept. 19-20, 2005: [Watershed Restoration Program Team meets at the National Nonpoint Source Monitoring Workshop in Raleigh](#)
- October 5-7, 2005: [Animal Waste Management Team will meet during the 2005 Animal Waste Management Symposium, Raleigh, NC](#)
- October 23-26, 2005: [Racing to Success - Southern Region Water Quality Conference, Lexington, KY](#)
- [NRI Competitive Grants Program RFA](#)
- [More Water-Related Conferences and Calls for Papers](#)

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GIS Tools

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[Advanced GIS Tools](#)

This requires a one-time download of a Java applet available from Sun Microsystems



Research, Extension & Education Water Quality Programs through the Land Grant University System

Search University Publications

 All sources 

This state-of-the-art search engine examines thousands of science-based, water resource management publications in 65 databases maintained at universities throughout the Southern Region. All returns are highly relevant and provide objective water resource management information.





Regional Themes

Regional Theme Overview

Animal Waste Management

Drinking Water & Human Health

Human Health and Pathogens

Private and Public Water Supplies

Source Water

Environmental Restoration

Nutrient & Pesticide Management

Water Policy & Economics

Watershed Management



The Great Lakes Region is defined by the boundaries of the six states in EPA Region 5. However, some of the major watersheds extend beyond state boundaries.

The Great Lakes Regional Water Quality Coordination Program is part of the national network of water quality research, education and outreach efforts led by CSREES and the Land Grant Universities.

For more information, please visit the CSREES National Water Quality Program website at usawaterquality.org

About Us

Links

Upcoming Events

- 🔹 **Surface Water Monitoring and Standards (SWiMS)**
February 1-3, 2005
Chicago, Illinois

[Meeting Information](#)

Flagship Projects

Agricultural Drainage Management

Training for Conservation and Environmental Professionals

Introduction to Agriculture

Timely Topics in Agriculture

Training for Conservation Professionals in Agriculture

State-Specific Training Opportunities

Professional Development for Manure Haulers

Social Indicators for Nonpoint Source Programs and Projects (Section 319)

Volunteer Water Quality Monitoring

2003 National CSREES Water Quality Conference

[Proceedings](#)

[Click here](#)
for Regional Project
Fact Sheets

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Initiative](#)

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Regional Water Quality Coordination Initiative

The Heartland Regional Water Quality Coordination Initiative coordinates research-based information, education and extension resources of the land-grant universities as related to water quality and the management of agricultural nonpoint source pollutants.

Through strengthening of multi-state and interagency partnerships, the Heartland Initiative seeks to make these resources more accessible to federal, state and local water quality improvement efforts in EPA Region 7.

Current priorities for the program are water quality issues related to animal manure management, nutrient and pesticide management, and citizen involvement in watershed management.

Visit the Priority Issues Web sites for water quality information, resources, contacts, news and events.

CSREES Heartland Regional Water Quality Coordination Initiative

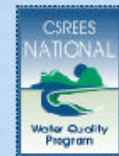
- ◆ [Animal Manure Management](#)
- ◆ [Nutrient and Pesticide Management](#)
- ◆ [Community Involvement in Watershed Management](#)

number of visits : 775

The USDA is an equal opportunity provider and employer.
Partners in the Heartland Regional Initiative are also equal opportunity providers and employers.

This material is based upon work supported by the Cooperative State Research, Education and Extension Services,
U.S. Department of Agriculture, under agreement no. 2002-51130-01515.

Designed by **IDEA**, Email: idea@iastate.edu.





Nitrogen & Our Groundwater	Nitrogen & Our Surface Water	Phosphorus & Our Water	Pesticides & Our Water	Sediment & Surface Water	Best Management Practices
----------------------------	------------------------------	------------------------	------------------------	--------------------------	---------------------------

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- GIS & Spatial Nutrient Planning Resources
- Theme Priorities:**
 - Best Management Practice Effectiveness
- Nutrient Criteria
- Workshops & Events:**
 - Phosphorus BMP Workshop
 - Livestock Waste Mgt. Training

Nutrient and Pesticide Management Theme

The Nutrient and Pesticide Management Theme Team of the [Heartland Regional Water Quality Coordination Initiative](#) coordinates research-based information, education, and extension resources of the land-grant universities related to non-point source water pollution and management of agricultural nutrients and pesticides. Through strengthening of multi-state and interagency partnerships, the Heartland Initiative seeks to make these resources more accessible to federal, state, and local water quality improvement efforts in EPA Region 7. The Heartland region consists of • Kansas • Nebraska • Iowa and • Missouri. There are three priority themes for the region: • [Animal Manure Management](#), • [Community Involvement in Watershed Management](#), and • Nutrient and Pesticide Management. Please use the Nutrient and Pesticide Management Online Publications and Education Resources search feature as your source for research-based information, education, and extension resources regarding [Nutrient Management](#) and [Pesticide Management](#).



Search Online Publications and Education Resources

Free Text For: In:

[Click here to browse publications by state.](#)



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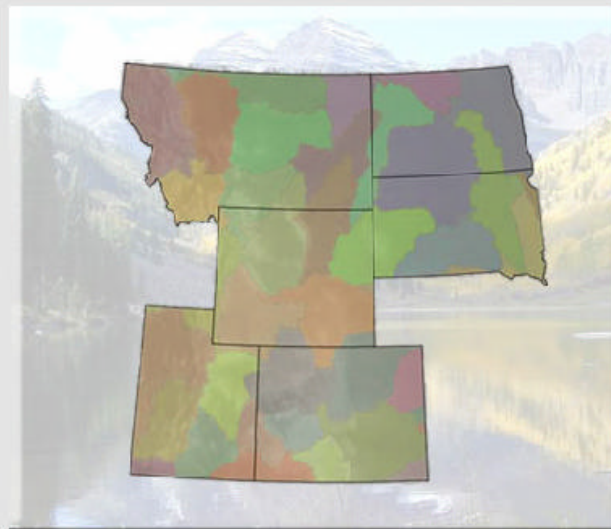
[Montana](#)

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[Wyoming](#)



[Click on a state for State Programs](#)

The goal of the CSREES Northern Plains and Mountains Water Quality Program is to protect and improve the quality of water resources throughout the United States and its territories through research, education and extension efforts.

The CSREES Northern Plains and Mountains Water Quality Program brings university scientists, instructors, and extension educators into more effective and efficient partnerships with Federal interagency priority programs, while addressing water quality issues in U.S. agriculture. This program provides the flexibility necessary for CSREES to bring the resources of researchers, instructors, and extension educators into national initiatives and programmatic partnerships that

National Themes

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[Drinking Water and Human Health](#)

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[Nutrient and Pesticide Management](#)

[Pollution Assessment and Prevention](#)

[Watershed Management](#)

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CSREES Pacific Northwest Regional Water Quality Program

Applying knowledge to improve water quality



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National Themes

Animal Waste Management
Drinking Water & Human Health
Environmental Restoration
Nutrient & Pesticide Management
Pollution Assessment & Prevention
Watershed Management
Water Policy and Economics
Water Conservation &
Ag Water Management

Regional Focus Areas

Animal Waste Management
Drinking Water & Human Health
Pollution Assessment & Prevention
Watershed Management

Regional Initiatives

Riparian Bulletins

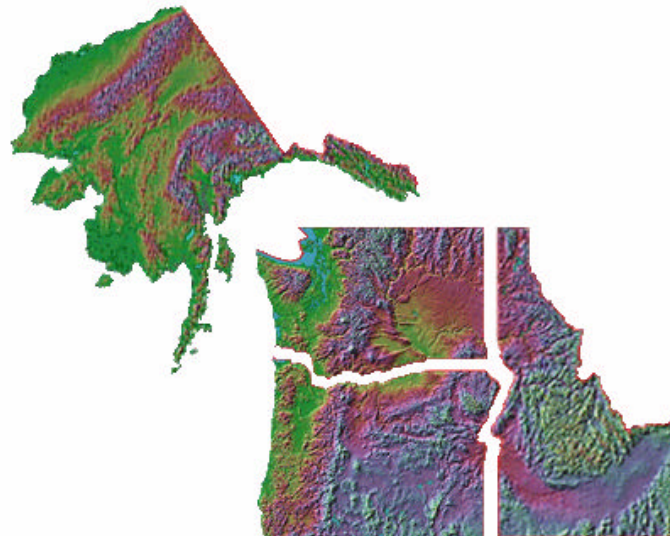
Volunteer Monitoring Curriculum

Public Survey on Water Issues

Animal Waste Coordinating Activities

Professional Training

Research and Extension Conference



WQ Training Opportunity July 13 – 15, 2004 Canby, Oregon



Provided in collaboration with the CSREES Volunteer Monitoring National Facilitation Project

The second annual [WATER QUALITY MONITORING WORKSHOP](#) was held at the Canby Grove Conference Center in Canby, Oregon July 13–15, 2004. The following web site holds all the resources for the 2½ day PAPERLESS (well almost) workshop.

<http://www.pnwwaterweb.com/monitoring04.htm>

WQ Training Opportunity July 14 and 15, 2003 Central Idaho 4-H Camp





**CSREES
Southwest States
& Pacific Islands
Regional Water Quality Program**
Applying knowledge to improve water quality

– Research, Education & Extension –

Regional Themes

- Animal Manure & Waste Management
- Drinking Water & Human Health
- Water Conservation & Agricultural Water Management
- Watershed Management

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CSREES Southwest States & Pacific Islands Regional Water Quality Program

The CSREES Southwest States and Pacific Islands Regional Water Quality Program works to improve water quality management through educational knowledge and extension programming that emerges from a research base. The program builds on the strengths of the Extension Water Quality Programs at the Land Grant Universities throughout the Southwest and Pacific Islands.

- [Arizona Cooperative Extension Water Quality](#) •
- [University of California Center for Water Resources](#) •
- [Nevada Cooperative Extension Water Quality](#) •
- [Hawaii & Pacific Islands Extension Water Quality Program](#) •

This material is based upon work supported by the Cooperative State Research, Education and Extension Services, U.S. Department of Agriculture, under Agreement No. 2002-51130-01976

News & Coming Events

Deadline - Jan 5th
CSREES National Water Quality Conference
Early Registration

Feb 14th -15th
AWRA's 2nd National Water Resources Policy Dialogue
Tucson, AZ

Deadline: March 1st
CSREES National Research Initiative Competitive Grants Program
FY2005 Request for Applications

April 25th-27th
International Salinity Forum
Riverside, CA

June 8th-11th
AZ Hydrological Society Groundwater Recharge Symposium
Tucson, AZ



The **National NEMO Network** is a network of education programs teaching local land use decision makers about the relationship between land use and natural resource protection.



National Network

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Publications & Reviews

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Mission Statement

The mission of the National NEMO Network is to help communities better protect natural resources while accommodating growth. This assistance will be rendered through non-regulatory, research-based educational outreach programs that emphasize natural resource-based land use planning and better site design. Network members believe that outreach education is an appropriate, flexible, effective and cost-effective method for catalyzing change to local land use policies and practices. In fulfilling this mission, the Network will also further the missions of a great many agencies and organizations charged with protecting natural resources, preserving community character, promoting sustainable economic growth, reducing sprawl or making remote sensing technology useable by common citizens.

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The national NEMO Network is a program of the Center for Land Use Education And Research (CLEAR), Land, Sea and Space Grant collaborating. © **University of Connecticut** | [Disclaimers and Copyright Statements](#)

This Volunteer Water Quality Monitoring National Facilitation Project is designed to build a comprehensive support system for Extension volunteer water quality monitoring efforts across the country. The goal is to expand and strengthen the capacity of existing Extension volunteer monitoring programs and support development of new groups.

Volunteer Monitoring National Facilitation Project

Project Description (382 K pdf file)
Outreach Materials and Activities
Nationwide Inquiry
Online Databases
Training Sessions and Materials

**Extension Volunteer
Monitoring Programs**

**Related Research and
Educational Efforts**

Other National Facilitation Projects

NEMO
Best Education Practices
Pollution Assessment and Prevention

Upcoming Events

[USDA CSREES National Water Quality
Conference](#)
February 7-9, 2005*****
La Jolla, CA

*****There will be a [volunteer monitoring
workshop](#) on the first day of the conference
(February 7th).



[New England Chapter of the North American Lake
Management Society \(NEC NALMS\) Annual Conference](#)
June 3-4, 2005
Plymouth, NH

Guide for Growing Programs

Getting Started (914 K pdf file)
**Why Monitoring
Makes Sense** (582K pdf file)
**Designing Your
Monitoring Strategy** (1.6 M pdf file)
Monitoring Matrix (80 K pdf file)
Effective Training (986 K pdf)
**Monitoring
Equipment Suppliers** (437KB pdf file)
**Direct Links to Monitoring
Programs' Manuals (online)**
Quality Assurance (1.5 M pdf file) **NEW!**
Volunteer Management
Outreach Tools
Locating Support and Funding

Special Topics

Highlighted Program **NEW!**
Highlighted Program Archives
Job Postings **NEW!**
World Water Monitoring Day
Volunteer E. Coli Monitoring Project



CSREES Pollution Assessment & Prevention National Water Quality Facilitation Project



Pollution Assessment and Prevention Theme Team

Farm and Home Programs

- ◆ [Farm*A*Syst](#)
- ◆ [Home*A*Syst](#)
- ◆ [Healthy Homes](#)
- ◆ [Agriculture Environmental Management Systems](#)

Groundwater Risk Assessment Programs

- ◆ [Delaware Coast*A*Syst](#)
- ◆ [North Carolina Coast*A*Syst](#)
- ◆ [South Carolina Coast*A*Syst](#)
- ◆ [Kansas Food*A*Syst](#)
- ◆ [Tennessee Forest*A*Syst](#)
- ◆ [Maine Lake*A*Syst](#)

The Water Quality Pollution Assessment and Prevention Theme Team is a network of Extension and other educators who promote self-assessments, voluntary actions and monitoring by private land-use managers and residents to protect and restore water quality.

The project goal is to facilitate integrated extension, research and education programs that enhance the quality, reach, and outcomes of voluntary water pollution assessment and prevention programs, particularly on farms and in homes.

Online Resources

[Agroecology Research Bibliography](#)

A list of research projects representing work on alternative farming systems and agroecological research with implications for water quality.

[Newsletter](#)

Quarterly on-line newsletters featuring success stories and lessons learned from pollution prevention educational programming conducted by Extension educators or researchers.

Sample stories:

- ◆ [New Research Demonstrates that Trees Keep Out, and Help Process, Stream Pollutants](#)
- ◆ [NAWQA Database a Flood of Water Quality Information](#)
- ◆ ["Xenobiotics" and Water Quality](#)
- ◆ [Water Quality and Cattle Health](#)
- ◆ [Protejer El Rio - Home*A*Syst Materials Support Multi-media Rio Grande Pollution Prevention Effort](#)
- ◆ [EMS Lowers Insurance Rates for Manure Haulers in Wisconsin](#)
- ◆ [Michigan Farm*A*Syst Key to Environmental Stewardship](#)
- ◆ [Rural River Beware: Assess Your Private Well And Wastewater System](#)

CSREES Water Quality Program

- ◆ [National Water Quality Site](#)
- ◆ [National Program Themes](#)

CSREES National Facilitation Projects

[NEMO](#)
[Volunteer Monitoring](#)
[Water Outreach Education](#)

Regional WQ Facilitation

[Great Lakes](#)

[Heartland](#)

[Mid-Atlantic](#)

[New England](#)

[NY, NJ, PR, Virgin Islands](#)

[Northern Plains and Mountains](#)

[Southern](#)

[Southwest States and Pacific Islands](#)

[Pacific Northwest](#)



Water Quality Program
National Facilitation Project

Project Background

The goal of the Water Outreach Education project, also known as the **Best Education Practices or BEP project**, is to help natural resource management and outreach professionals to choose appropriate education techniques and resources for their water management programs.

Project Description



Updates

In January 2005 we will launch the new National Extension Water Outreach Education web site.

[Click here for more information.](#)

USDA CSREES National Water Quality Conference
Best Education Practices for Water Quality Symposium

Wednesday, Feb. 9, 2005, 1:30 - 5 PM

[Click here for more information.](#)

Symposium, June 2-4, 2004

Best Education Practices for Water Outreach Professionals

[Click here for more information.](#)

What is a Best Education Practice?

"...a program or practice that has been clearly defined, refined through repeated delivery, and supported by a substantial body of research."

Anthony Fedler, Defining Best Practices in Boating, Fishing and Stewardship Education, July 2001

Products and current activities:

End of the "Tour"

- Look for the two new NFPs in the future:
 - The Environmental Pathogens Information Network (EPINET)
 - Tribal Colleges and Universities National Facilitation Project for Increasing Tribal Involvement in the Water Quality Network
- Final thoughts on our successes?

Challenges to the 406 Website Network

- Regional communication
- Obtaining responses; buy-in
- Gathering content
- Integrating/Linking with other CSREES funded projects

Regional Communication

- Survey indicates that this is not a problem
- Might say that most regional web developers feel fairly well in tune with what's happening throughout their region
 - Email/listserv communication seems to work well for regional web developers
 - Some participation in regional conference calls or regional meetings
- Is this right? Any suggestions?
- This says we know what's going on, but we might need help taking it to the next level...

Response & Buy-in

- Survey indicated that many are faced with the challenge of getting content/info/feedback from water quality coordinators
- Requires Buy-in: water quality coordinators need to be sold on the value of the website! How?
 - Web usage statistics?
 - Evaluations?
 - Feedback from partners, colleagues, CSREES, etc.
 - How is your website advertised?

Response and Buy-in

- Even once sold on value of website, still need to make things as easy as possible!
 - Send them content rather than asking for content from scratch
 - Create easy to fill out forms available online
 - Create deadlines and post what you can
 - Other suggestions?

<http://www.usawaterquality.org/newengland/steering/>

Gathering Content

- Survey seems to indicate that we are fairly comfortable gleaning our own info from web and other resources
 - CRIS
 - National Website (funded projects, themes, success stories, conference proceedings)
 - State/Program Websites
 - New conference proceedings website
- Always welcome other suggestions!

<http://www.idea.iastate.edu/waterconf/>



GENERAL SESSION CONCURRENT SESSIONS POSTER SESSION CONCURRENT SYMPOSIA CONSERVATION WORKSHOP

USDA-CSREES 2005 National Water Quality Conference

Research, Extension, and Education for Clean Water

February 7-9, 2005
San Diego Marriott
La Jolla, CA

The USDA-CSREES National Water Quality Conference Proceedings site is now available for conference participants to view presentation abstracts. Presenters have been asked to enter their abstracts and will continue to enter abstracts up to the conference. Presenters will be notified when they can upload their presentation materials to the site.

No login is needed to view abstracts or presentation materials.

Viewers can locate a paper in two ways:

- 1) Click on a session (General, Concurrent, etc), then select a Priority Issue to see a listing of papers for that session and issue, or
- 2) Search by title.

Integrating/Linking to Other CSREES Funded Projects

- Do we need to foster communication / linkages between Regional, NFP, Integrated, Extension Ed Projects?
- Enhance communication amongst web developers?
 - Beyond listserv?
 - How?

What's Next

- Please fill out evaluation about this workshop
- Where do we want to be in 2006?