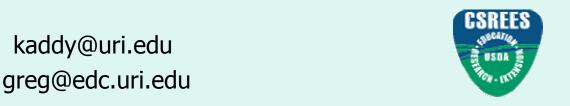
# Content Development for CSREES Water Quality Web Network

# Kelly Addy, Greg Bonynge, Alyson McCann, and Art Gold

University of Rhode Island





### The network of 406 websites.

National Water Quality Program website www.usawaterquality.org

Regional Water Quality Program websites
National Facilitation Grant 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 CSREES National WQ Program?

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

### Need to Demonstrate

- Research-Based Extension
- Partnerships
- Regional or multi-state efforts
- Impacts 

  Our programs are improving water quality

# Integrating Research, Education, and Extension

### Everywhere possible indicate:

- How is Extension incorporating new research into its program?
- Are research efforts being guided by Extension and Education feedback?



# **Partnerships**

CSREES New
 England Water
 Quality Program
 teams up with
 EPA New England
 for Private Well
 Water Initiative



Cooperative Extension in New England
Research - Education - Extension



### Focus Areas

Agricultural Best Management Practices

Community-Based Watershed Protection

Residential Pollution Prevention

Volunteer Water Quality Monitoring

#### Initiatives

American Heritage Rivers Initiative

National Heritage Corridors

Programs by State

New England on the National Scale

> Home Previous Page

#### Private Well Water Initiative

New England Regional Water Quality Program (NERWQP) Partners with EPA New England

Unlike public water supplies in New England, private well water is not regulated and well owners are responsible for the quality and safety of their own drinking water. New England groundwater is naturally susceptible to certain contaminants that well owners should be able to recognize and protect against. In addition, practices around the home can inadvertently contaminate drinking water. Education about protecting private sources of drinking water is critical to the health and safety of families relying on private wells.

Recognizing the importance of self-monitoring for families with private wells, US Environmental Protection Agency (EPA) requested assistance from Extension in educating well owners to voluntarily test and protect their drinking water supply. Private well water protection has also been identified by the NERWQP, supported by the USDA Water Quality 406 program and coordinated out of the University of Rhode Island, as a main topic to address within the Residential Pollution Prevention Focus Area. In 2002, Extension staff from throughout New England began meeting with EPA New England staff to coordinate efforts to address the management and protection of private drinking water wells.



In 2002, EPA provided some funding through a Cooperative Agreement to URI Extension via the NERWQP. Funding was provided to enable Cooperative Extension to produce and/or purchase educational materials for private well water education. These educational materials include:

- Set of 26 factsheets on the topic of drinking water testing and contaminants. These factsheets
  have been developed for Rhode Island and are being revised and updated by each of the other
  states.
- Purchase of one groundwater demonstration model for each state and distribution of Rhode Island groundwater model educational handbook.
- . Development of a groundwater poster for youth to accompany the groundwater model.
- Development of 3-fold private well testing brochure and display stand to be distributed in public
  places throughout New England based on NH Department of Environmental Service's current
  initiative.

As these materials are completed, they will be incorporated into already existing programs and educational efforts throughout New England. In addition, efforts are underway to expand private well water educational programming throughout New England.



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CSREES National Water Quality Program

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http://www.usawaterquality.org/newengland/focus\_areas/residential/success.html



Research, Education & Extension

About | Contacts | Feedback | Links | Reports/Publications | Search | Site Map

### Regional or Multi-State **Efforts**

#### Regional Program Priority Issue Areas

Animal Waste Management

Drinking Water and Human Health

Nutrient Management

### Regional Projects

Small Farms

Onsite Wastewater Treatment System Management

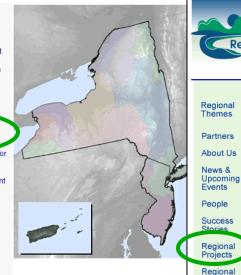
Peconic Estuary Program Educational Programming

Pollutant Trading

Programs by State Commonwealth/ Territory

Home

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Click on a State/Commonwealth/Territo Land Grant University water quality programm

The New Jersey, New York, Puerto Rico and Virgin Islands Regional Water Quality Co. related research-based education and extension resources of the four Land Grain covered by Region 2 of the United States Environmental Protection Agency (US EPA United States Department of Agriculture, Cooperative State Research, Education National Water Quality Program, and is supported by US EPA Region 2.







About | Contacts | Feedback | Links | Reports/Publications **CSREES National Water Quality Program** 

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Date of last change Comments or questions? Please email the web te



Applying knowledge to improve water quality

- Research, Education & Extension -



http://ag.arizona.edu/region9wg/index.htm

American Samoa Arizona California Commonwealth of the Northern Mariana Islands Federated States of Micronesia Guam Hawaii Marshall Islands Nevada Palau



Resource

Materials

Search:

Submit

Home

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.



http://rwqp.rutgers.edu/

Programs | Partners | People | About Us | Search | Reporting



## Other CSREES web sites use success stories to demonstrate impacts



### Success Stories

State Partners

Award Administration

Program Information

Job Opportunities

The Economic and Community Systems unit provides leadership in the application of social

sciences to the issues and problems communities, agricultural and other bu extension and education programs often i federal agenc

- The Texas Master: Marketer P
- MONEY 2000™

Recent Additions

Child Care

Collaboration

Diverse/Special

Welfare To Wor

Food Choices

- Investing For Your Future: Hom
- High School Financial Planning

Funding Opportunities News & Information State Pa Recent Additions Site Map Award Admi

Questions a Point of contact Updated Info: Jo

Cooperative State Research, Education, and Extension Service

Research, Education, and Economics

Search

Legislation/Budget

Learn About CSREES

funding Opportunities News & Information State Partners Program Information Recent Additions Site Map Award Administration Job Opportunities



Human Resources

Related Links

Program Overview	State IPM Coordinators and Web Sites	Reports and Publications
<u>Success!</u>	Pest Management Portfolio	Regional Pest Management Centers

# Draw attention to impacts

## Web attention spans are short

- Summarize "why > is this important?" first-prominently
- Add subheadings to capture attention

From workshop delivered to CSREES

http://www.usawaterquality.org/themes/health/ extension/mobile lab.html





Home >> National Themes >> Drinking Water and Human Health >> Extension >> THE TEX\*A\*SYST MOBILE LAB PROGRAM

About this Program

NATIONAL THEME: DRINKING WATER AND HUMAN HEALTH

Research

Education

Regional Programs

**National Themes** 

National Facilitation

Extension Education

Integrated Research. Education, and Extension

Funded Pr

uccess Stori

Online R

- Success Story -

This program is just one example of CSREES Extension programming that has positively impacted drinking water quality. Please check back periodically for other highlighted programs.

THE TEX\*A\*SYST MOBILE LAB PROGRAM: SCREENING DRINKING WATER WELLS AND EDUCATING CITIZENS

By participating in the Tex\*A\*Syst Mobile Lab Program, well owners receive specific instructions about how to treat their wells to reduce contaminant levels and how to lessen the threat of contamination in the future.

The health and livelihood of Americans depends on the availability of a safe drinking water supply. Residents in rural areas of Texas primarily rely upon private wells for their water needs. Private wells are a water source that is not regulated to the extent that public drinking water supplies are. Private well owners are responsible for the quality of their own drinking water. They need to be aware of potential contamination risks to their wells and how to protect against these risks. As a result, more private well owners are demanding well water testing and water quality information.

In 1999, the Tex\*A\*Syst Mobile Lab Program was established with technical assistance from the Blackland Research Center >> and an initial equipment

investment from the Texas Water Resources Institute → a unit of the Texas Agricultural Experiment Station → and Texas Cooperative Extension >>. This program, along with other Tex\*A\*Syst programs, are marketed to communities which identify water resources as a high priority in Extension's annual Texas Community Futures Forum →. Communities that choose to participate in the Mobile Lab Program which is brought to them. Private well and small water system water samples are routinely screened for bacteria, nitrate, and salinity. Some counties have also chosen to screen for lead or arsenic. Typically, the analysis of well water samples is followed by an educational meeting where individual results are provided, county-wide water quality trends are discussed, potential sources of ground water contamination and possible remediation or treatment methods are suggested, and Tex\*A\*Syst Wellhead Protection educational materials are presented.

The Tex\*A\*Syst Mobile Lab Program has screened over 4,500 water samples from rural drinking water wells in 46 counties in Texas. After participating in follow-up educational meetings within some of the individual counties, an average of 27% of participants declared that they gained knowledge on how they can improve their drinking water quality. For example, two well owners installed a chlorinator to provide continuous bacterial treatment of water while another chose to use bottled water for human consumption in their home

In Mills County, Texas where more than a third of the wells screened were found to contain high levels of nitrate, the Tex\*A\*Syst Mobile Lab Program led a special project in cooperation with the Texas Water Resources Institute >>, the Mills County Extension office, and local civic leaders of the City of Mullin. 26 reverse osmosis (RO) units were made available to homeowners at substantial savings to remediate these problem wells. Mobile Lab staff installed two RO units and trained local volunteers to install other systems. The RO units significantly reduced the concentration of both contaminants from levels above the US-EPA public drinking water standards (10 ppm, nitrate and 500 ppm, salinity) to much more safe levels below the EPA standards.



The Tex\*A\*Syst Mobile Lab Program and related projects were featured in the Texas Water Resources Institute July 2003 Newsletter >> (pdf)

For more information on this project, contact Monty Dozier



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# Draw attention to impacts

- Scatter accomplishments, outcomes, impacts, and examples throughout text
- Be obvious

http://www.usawaterquality.org/ themes/animal/research/ alt uses.html





Applying knowledge to improve water quality

Home >> National Themes >> Animal Waste Management >> Research >> **ALTERNATIVE USES OF MANURE** 

About this Program

### Regional Programs

**National Themes** 

National Facilitation

Extension Education

Integrated Research, Education, and Extension

Funded Projects Grants for 2003 have been posted!! Success Stories

Online Resources

Home

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NATIONAL THEME: ANIMAL WASTE MANAGEMENT Education

Extension

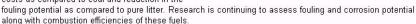
#### **ALTERNATIVE USES OF MANURE**

Alternative technologies and uses for manure need to be developed and tested in order to prevent nutrients and pathogens from entering ground and surface waters. USDA CSREES sponsors research to develop and ative uses of manure to protect and improve water quality.

Accomplishments:

University of Coorgia researchers are exploring the use of poultry litter compost in controlling runoff and soil erosion (Risse et al., 2003). Early results indicate that a treatment consisting of a mixture of poultry litter compost and ground wood waste produced lower soil and nutrient losses and greater vegetative growth than any of the other

 Researchers at Texas A&M University are working to develop a co-firing technology for coal and broiler litter to generate power >>>. They have found that broiler litter is a lower quality fuel than coal, but the use of litter with coal in a 90:10 blend results in similar fuel costs as compared to coal and reduction in the





 A research project with support from Clemson University Extension >> examined the water quality impacts and tree growth benefits associated with annual and one-time fertilization of commercial loblolly pine plantations using irrigated swine lagoon effluent and surface applied poultry litter. They found significant increases in wood value with both types of applications (Chastain et al. 2003; ASAE Meeting Paper No. 032157).

A new research project at Louisiana State University >>> USDA stand of loblolly pine is looking to develop beneficial uses of poultry in



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page last modified October 23, 2003

>> all external sites will open in a new browser window >>>



## Where to start gathering content

- Communicate with experts via state and regional water quality coordinators
  - What are the hot topics within regional themes?
  - Where do we have history of expertise?
  - Who are the key researchers, educators, & outreach specialists
- Interview, create drafts & send out for review
  - Better response rate with draft formulated
  - Basis for further discussion

# Gathering Research Content

- Consult with state or regional water quality coordinator
- State or local CE websites often link to research laboratories





Program

Initiatives

area)

Water Links

Search WRC Site

Internal Research

Managed Grants

Project List (by subject

ut the WRC Staff Research Outreach Education News Publications Expertise Directory

WRC Research

WRC Research

The WRC encourages research focused on water related issues, and it promotes working research partnerships and student involvement. The Water Resources Center sponsors

a biennial competitive grants program

and also conducts research with grant funding received from outside agencies. The WRC maintains an active research program based on grants obtained from outside agencies by or in association with WRC staff. Also, the WRC is responsible for managing grant money for projects conducted by Minnesota faculty.



Water Resources Center research encompasses several major topics: agriculture and water quality; lakes and rivers; safe drinking water; wastewater; and watershed management. Given the intedisciplinary nature of water resources research, many research projects fall into more than one category. Descriptions and additional

information, including final reports where available, can be found from the project list.

### Competitive Grants Program

The WRC grants funds to research projects concerned with the water resources of Minnesota and the Midwest region, although the applicability of the research is usually broader in scope. Sponsored research has covered a wide variety of topics within the aquatic sciences and water resources disciplines, including treatment and control methods for toxic wastes, nutrient fluxes from agricultural watersheds, quality of drinking water, and new technologies for assessing pollution sources.

### WRC Internal Research Initiatives

Water Resources Center staff also develop new research initiatives for which they seek funding from a variety of outside sources. These projects are carried out by WRC staff, often in collaboration with other University faculty and researchers.

#### Project Grants Managed by WRC

The Water Resources Center also serves as coordinator and administrator for grants from certain funding agencies.

The University of Minnesota is an equal opportunity educator and employer.

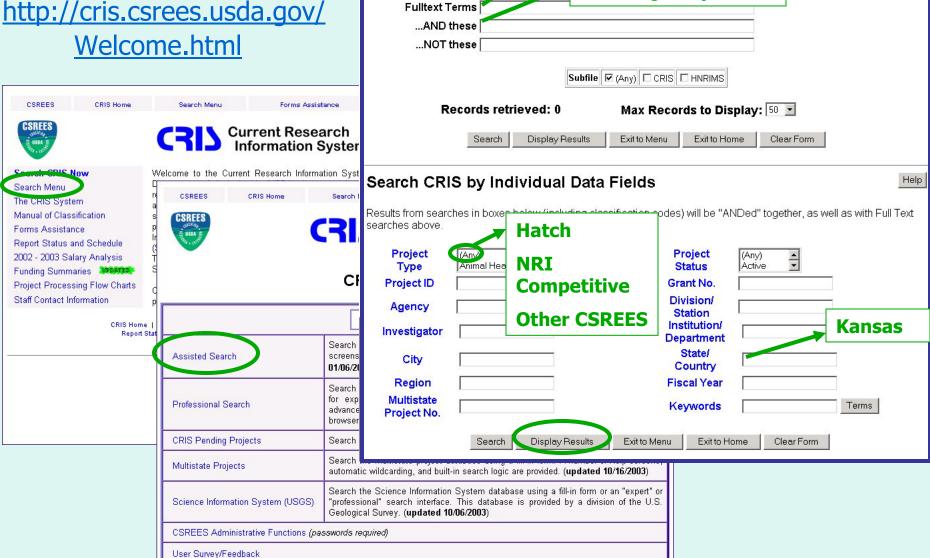
© 2002 by the Regents of the University of Minnesota
Last Modified on 07/09/2003 / Questions? Contact <a href="thoma032@umn.edu">thoma032@umn.edu</a>
WRC Home: <a href="http://wrc.coafes.umn.edu/">http://wrc.coafes.umn.edu/</a>

### Gathering Research Content

- CSREES WQ Conference abstracts-posters-presentations available through <a href="http://www.usawaterquality.org">http://www.usawaterquality.org</a>
- 406 Integrated Research, Education, and Extension Grants <a href="http://www.usawaterquality.org/projects/">http://www.usawaterquality.org/projects/</a>
- CSREES Current Research Information System (CRIS): search USDA funded projects database
- NRI Water Quality CRIS listing (excel file; institutions identified; kaddy@uri.edu)
- Animal Waste Management CRIS listing organized by state (fastlinks from word document courtesy of R. Hegg & staff at CSREES; kaddy@uri.edu)
  - Google: search for more info or websites with PI and institution name

### Gathering Research Content: CRIS

http://cris.csrees.usda.gov/ Welcome.html



Search CRIS Full Text

interface, click on "Exit to Menu" 1

In the boxes below, enter words or physical

**Nutrient Management** 

**Water Quality** 

<del>separated by semicolons (the Till means) on the year</del>heed a different search

Help

### Gathering Research Content: CRIS



### Title/Investigator Table of CRIS I

Select	Acc No	Title	
□	0198890	PLANT NUTRIENT SOURCE EFFECTS ON SURFACE RUNOFF CHARACTERISTICS	Pierzyns Swenney (KANSA
п	0194623	INTEGRATING BIOPHYSICAL FUNCTIONS OF RIPARIAN SYSTEMS WITH MANAGEMENT PRACTICES AND POLICIES	Hutchins
п	0191124	INVESTIGATING ENVIRONMENTAL ISSUES RELATED TO AGRICULTURE IN SOUTHWEST KANSAS	Willson, Frisebe, Schlege STATE (
	0190333	INTEGRATED AGRICULTURAL MANAGEMENT SYSTEMS FOR IMPROVING WATER QUALITY IN KANSAS	Pierzyns Mankin, Janssen STATE I
	0167722	PLANT NUTRIENT CYCLING IN SOILS	Pierzyns W. (KAN

ACCESSION NO 0190333 PUPFILE: CRIS PROJ NO: KS996 ASEM Y CSREES KAN PROJ TYPE OTHER GRANTS POLISTATOS: NEW

CONTRACT/GRANT/AGREEMENT NO: 2001-51130-11377 PROPOSAL NO: 2001-04946

START: 15 SEP 2001 TERM: 14 SEP 2004 FY: 2002 GRANT YR: 2001

**GRANT AMT: \$560,000** 

INVESTIGATOR: Pierzynski, G.; Regehr, D.; Devlin, D.; Mankin, K.; Langemeier, M.; Sweeney, D.; Janssen, K.; McVay, K.

#### PERFORMING INSTITUTION:

**AGRONOMY** 

KANSAS STATE UNIV

MANHATTAN, KANSAS 66506

### INTEGRATED AGRICULTURAL MANAGEMENT SYSTEMS FOR IMPROVING WATER QUALITY IN KANSAS

NON-TECHNICAL SUMMARY: The goal of this project is to develop and apply a model that utilizes local, field-scale research knowledge to simulate the effects of nutrient, sediment, and pesticide BMPs at the watershed scale. This capability will be utilized to develop BMP strategies to address TMDL issues in a pilot watershed through K-State Research and Extension activities. Concurrently, the economics of BMPs will be studied so that the total impact of BMPs on the producer will be known.

**OBJECTIVES:** Our goal is to develop and apply a model that utilizes local, field-scale research knowledge to simulate the effects of nutrient, sediment, and pesticide BMPs on **water quality** at the **watershed** scale. This capability will be utilized to devise BMP strategies to directly address TMDL issues in a pilot watershed through Extension activities. A complete economic analysis will be performed, further, results will be integrated into undergraduate and graduate curricula at KSU in a variety of ways.

APPROACH: Two limitations in addressing total maximum daily load (TMDL) issues are determining the net effect of best management practices (BMPs) designed for single contaminants on a mix of contaminants in runoff, and modeling the net impact of BMP adoption on a watershed scale. Our goal is to develop and apply a model that utilizes local, field-scale research knowledge to simulate the effects of nutrient, sediment, and pesticide BMPs at the watershed scale. Field studies will be conducted that are designed to test combinations of tillage systems, with herbicide and fertilizer timing and placement variables, to determine how various combinations of practices affect the movement of sediments, nutrients, and herbicides from cropland in surface water runoff. The proposed work will continue surface runoff studies in three watersheds for an additional three years. This approach represents an integrated agricultural management system for improving surface water quality. The ADAPT field-scale model will be calibrated against data collected from the field studies and will then be expanded to the watershed scale. This capability will be utilized to devise BMP strategies to address TMDL issues in a pilot watershed through Extension activities. Concurrently, the economics of BMPs will be studied so the total impact of BMPs on the producer will be known and economic barriers to BMP implementation can be identified. Results will be integrated into undergraduate and graduate curricula at Kansas State University as case studies in several courses and as a term project for a capstone course in the Natural Resources and Environmental Sciences secondary major. An Extension and Education program will be developed to deliver watershed-based modeling land management alternatives and recommendations to local conservation districts (Washington and Marshall County Conservation Districts), Little Blue River Watershed District Board, and to County Extension Council Boards (Washington County and Marshall County Extension Councils) and assist them in reaching decisions leading to meeting TMDLs goals for the Little Blue River Basin of Kansas. A second objective will be to educate citizens and landowners in the Little Blue River Basin as to the water quality impacts of various management alternatives allowing them to make informed decisions leading to improved water quality in the Little Blue River Basin of Kansas. +impacts and contact info

PROGRESS: 2002/01 TO 2002/12

The project measures runoff losses of sediment, nutrients, and herbicides at three locations in Kansas. The effects of tillage and nutrient or pesticide management on runoff losses are being studied in an attempt to identify best management

### Displaying Research Content

- Tables with links to CRIS records
  - Positive: yields thorough listing of projects
  - Negative: does not answer why this work is important



Cooperative Extension in New England
Research - Education - Extension



#### Focus Areas

Agricultural Best Management Practices

Community-Based Watershed Protection

Residential Pollution Prevention

Volunteer Water Quality Monitoring

#### Initiatives

American Heritage Rivers Initiative

National Heritage Corridors

### Programs by State

New England on the National Scale

> Home Previous Page

Home >> Focus Areas >> Volunteer Water Quality Monitoring >> Research >> INLAND LAKES, PONDS, RIVERS, AND STREAMS MONITORING

The following research articles are documented on the <u>Current Research Information System (CRIS) website.</u> CRIS is the U.S. Department of Agriculture's (USDA) documentation and reporting system for ongoing and recently completed research projects in agriculture, food and nutrition, and forestry. Projects are conducted or sponsored by USDA research agencies, state agricultural experiment stations, the state land-grant university system, other cooperating state institutions, and participants in a number of USDA research grant programs. CRIS is a part



of Information Systems and Technology Management (ISTM), Cooperative State Research, Education, and Extension Service (CSREES), and is located in the Waterfront Centre in Washington, DC.

Project ID	Title	Investigator(s)	Affiliation
<u>0186731</u>	NATIONAL FACILITATION OF CSREES VOLUNTEER MONITORING EFFORTS	Green, L.T., Gold, A.J., and Shepard, R.L.	(UNIVERSITY OF RHODE ISLAND)
0055497	MICROCYSTINS (MC) IN NH LAKES AND A STRATEGY FOR THEIR MANAGEMENT	Haney, J.F., Sasner, J.J., and Ikawa, M.	(UNIVERSITY OF NEW HAMPSHIRE)
<u>0186866</u>	CONTRIBUTION OF FORESTED WATERSHEDS TO FECAL CONTAMINATION OF STREAMS AND RIVERS	Morrissey, L.	(UNIVERSITY OF VERMONT)
0132275	IDENTIFICATION MANUAL WITH TOLERANCE VALUES OF AQUATIC INSECTS FROM SOUTHERN NEW HAMPSHIRE FOR USE IN DEVELOPING WATER QUALITY STATEMENTS	Chandler, D.S. and Burger, J.F.	(UNIVERSITY OF NEW HAMPSHIRE)



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CSREES National Water Quality Program

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# Displaying Research Content

 Instead of or in addition to CRIS listings, highlight a few research projects listing accomplishments, outcomes, and impacts

http://www.iowabeefcenter.org/ heartlandwg/research.htm

Southern website regional theme pages also describe some research projects



### **Animal Manure Management**

### Research

### Comprehensive Manure Management for Improved Nutrient Utilization and Environmental Quality

By scrolling down this web page of research documentation, you will find the following 6 conclusions:

- Phosphorus-based manure and compost application appears to provide an agronomically and environmentally-sound management system.
- Narrow grass hedges were found to be a very effective and inexpensive means to significantly reduce the transport of P and N in runoff from areas where manure was applied.
- The annual application of manure was found to reduce runoff and soil loss from cropland acres.
- 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.
- When estimating nutrient transport from land application areas, the length of time since the last manure application should be considered.
- Through proper application and management, manure can serve as a valuable nutrient source and soil amendment without causing
  adverse environmental concerns.

Field research was conducted to enhance understanding of the important mechanisms influencing nutrient transport by runoff from cropland areas on which beef cattle or swine manure are applied. Information was provided on the effects of selected cropping, management, and conservation practices on the delivery of nutrients by overland flow. This information can be used by producers to select management alternatives best suited to their goals of maintaining a sustainable production system that causes minimal environmental impacts. Additional information concerning this research program can be found at: <a href="http://www.nps.ars.usda.gov/projects/projects.htm?">http://www.nps.ars.usda.gov/projects/projects.htm?</a> accn\_no=403885

# Gathering Education Content

- Consult state and regional water quality coordinators
- Visit Land Grant University web sites to learn about academic programs
- Consult with Extension staff to learn about the best programs
- Learn from program graduates



# Displaying Education Content

- Listing and links to university programs
- Highlight a program
- Present quote from graduate about how his education has furthered his improvement of water quality



# **Gathering Extension Content**

- Consult with state and regional water quality coordinators
- CSREES WQ Conference abstracts-posterspresentations available through <a href="http://www.usawaterquality.org">http://www.usawaterquality.org</a>
- 406 Education and Extension Grants
   <a href="http://www.usawaterquality.org/projects/">http://www.usawaterquality.org/projects/</a>
- State or local CE web sites
- Talk to folks who have participated in Extension programs
- Ask about follow-up surveys

# Displaying Extension Content

- Highlight accomplishments, outcomes, and impacts in addition to describing program
- Quotes from citizens and partners participating in programs helps to convey how behaviors have changed which leads to water quality improvements
- Pictures help too!

Volunteers were the "hub of the wheel that made the [Lake Chocura, NH runoff remediation] project a success...they provided the factual data on which decisions were made" S. Godlewski, NH Dept of Environmental Services



### **National Facilitation Projects**

 Help you to learn about projects happening in your state or region

There is are 830 items listed in the database. You may choose to reorganize this listing by clicking on one of the following options.  Organize by state Organize by topic - View alphabetized list. Organize by title				Pollution Assessment & Prevention Theme Team	
Comple STATE	PROGRAM	TOPIC	TITLE		WEB LOCATION
Alaska	Home*A*Syst	Home*A*Syst	Living in the Mat-Su		Not currently available online.
Alaska	Home*A*Syst	Pathogens	Cryptosp	ridium and Potable Water	Not currently available online.
Alabama	Farm*A*Syst	Livestock Waste Management	Products Production	Farm*A*Syst: Animal Waste Used in Crop and Forage on (CRD-67A) Alabama *Syst: Animal Waste P	View online



# VOLUNTEER WATER QUALITY MONITORING National Focilitation Project

### Cooperative Extension Volunteer Water Quality Monitoring Programs

The image above and to the right represents how Cooperative Exten

volunteer water quality monitoring programs across the nation. The

Extension co-sponsored program that exists in the American Samos

We have listed the programs that are sponsored or co-sponsored by state in the list below. In parentheses next to each coordinator's nan

program began. Many programs have websites available, and we h

#### Initiatives

Project Description (382 K pdf file)
Outreach Materials and Activities
Nationwide Inquiry
Data Reporting
Trainings and Training Materials

Extension Volunteer Monitoring Programs

Related Research and Educational Efforts

### Guide for Growing Programs

Using the Guide (803 K pdf file)
Why Monitoring
Makes Sense (882K pdf file)
Designing Your
Monitoring Strategy (1.6 M pdf file)
Monitoring Matrix (80 K pdf file)

Effective Training
Quality Assurance
Volunteer Management
Outreach Tools
Locating Support and Funding
Overcoming Networking Barriers

### **Special Topics**

Highlighted Program
Highlighted Program Archives
Job postings
National Water Monitoring Day

Previous Page

Our inquiries identified 27 volunteerwater quality monitoring programs that are sponsored or cosponsored by Cooperative Extension in the United States and its territories. We have since updated the list to include a total of 33 programs and two contacts for soon-to-be programs in Ohio.

These programs began as early as 1978 and up to the year 2003. They have volunteers monitoring a variety of aquatic habitats including rivers, streams, lakes, ponds, well, wetlands, and estuaries.



### Volunteer Monitoring National Facilitation Project

http://www.usawaterquality.org/volunteer/VolunteerMonPrograms/





**Highlighted Program Archives** 

#### Alabama

Bill Deutsch (1992)
Alabama Water Watch
Auburn University
203 Swingle Hall
Auburn AL 36849
Phone: (888) 844-4785
Fax: (224) 844-9208
aww@acesaq.auburn.edu

sites for your convenience.

#### Arizona

Steve Campbell
Arizona Volunteer Monitoring Project
University of Arizona
402 East Hopi Drive
Holbrook AZ 86025

### American Samo

Laura Laumatia (2000 Tauese Stream Programerican Samoa Con P.O. Box 5319 Pago Pago AS 96799 Phone: (684) 699-692 Fax: (684) 699-5011 Jaumatia I@yahoo.co

#### Arizona

Russ Radden
Private Well Monitoring
<u>University of Arizona Cooperative Extension</u>
of Yavapai County
500 S. Marina

### Initiatives

Project Description (382 K pdf file)
Outreach Materials and Activities
Nationwide Inquiry
Data Reporting
Trainings and Training Materials

Extension Volunteer Monitoring Programs

Related Research and Educational Efforts

Guide for Growing Programs

Using the Guide (803 K pdf file)
Why Monitoring
Makes Sense (882K pdf file)
Designing Your
Monitoring Strategy (1.8 M pdf file)

From this page we provide you with links to past highlighted programs so that you can learn more about the variety of volunteer water quality monitoring programs that are sponsored or co-sponsored by Cooperative Extension across the nation.

Washington State University Beach Watchers:

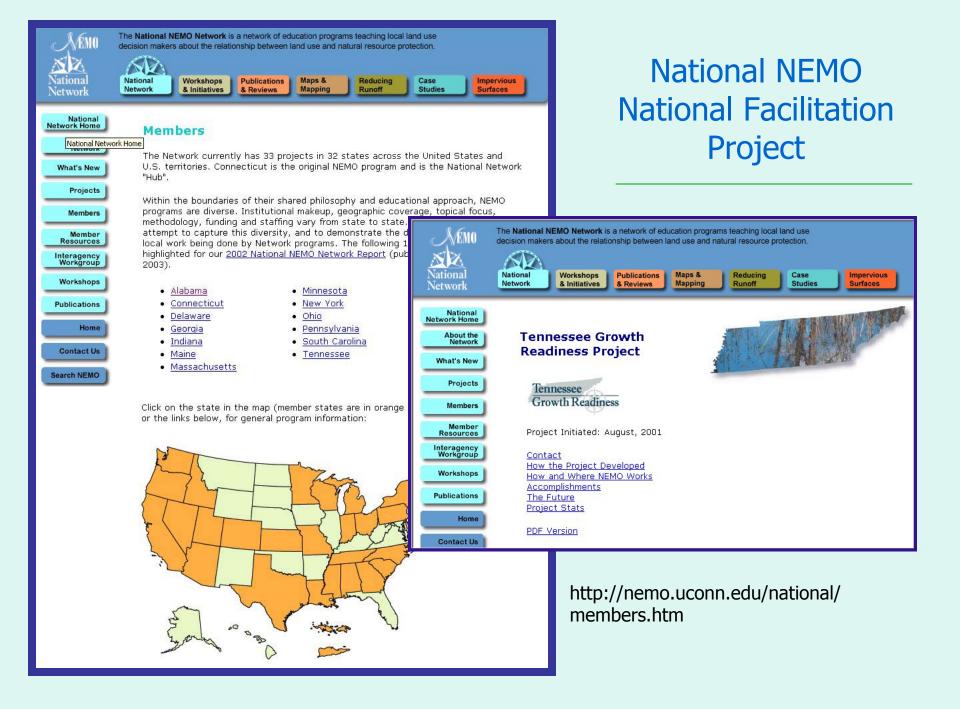
The WSU Beach Watchers program began

in 1990 to provide education related to watersheds of the marine environment, it is not solely a monitoring program. Today, most intertidal zone monitoring sites (located in Puget Sound) are assessed once each year for biological organisms and physical parameters.

The University of Vermont Watershed Alliance:

For four years now, the Watershed Alliance, a partnership of University of Vermont Extension, the School of Natural Resources and Sea Grant, has made it possible for

http://www.usawaterquality.org/ volunteer/Special/Highlighted/ Archives.html



### Into the future

- Introduce Inter-regional research and extension projects
  - EPA Region 2 attending trainings at NE Waste Water Training Center
  - National programs like the Center for Animal and Manure Waste Management
- New 406 Reporting Assessment Tool (Robin Shepard) will aid in gathering timely and complete web content

### Discussion: How do we stand?

- How are things going with content development?
  - How are things working with individual states hosting websites?
  - What has been most useful?
  - Where do we need help?
- What can we learn from each other?