Re-engaging Your Volunteer Monitoring Organization

Webcast sponsored by EPA's Watershed Academy





Tuesday, November 19, 2013 1:00pm – 3:00pm Eastern

Instructors:

Julie Vastine, Director, Alliance for Aquatic Resource Monitoring (ALLARM)

Dr. Bill Deutsch, Director, Alabama Water Watch

Kris Stepenuck, Coordinator, Wisconsin Water Action Volunteers Stream Monitoring Program

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Webcast Logistics

- To Ask a Question Type your question in the "Questions" tool box on the right side of your screen and click "Send."
- To report any technical issues (such as audio problems) – Type your issue in the "Questions" tool box on the right side of your screen and click "Send" and we will respond by posting an answer in the "Questions" box.

Overview of Today's Webcast

- Go-to online volunteer monitoring resources
- Volunteer recruitment and retention
- Alabama Water Watch 20-year Assessment
- National trends, successes, and outcomes of volunteer monitoring activities



Taking the pulse and re-engaging your volunteer water monitoring organization!



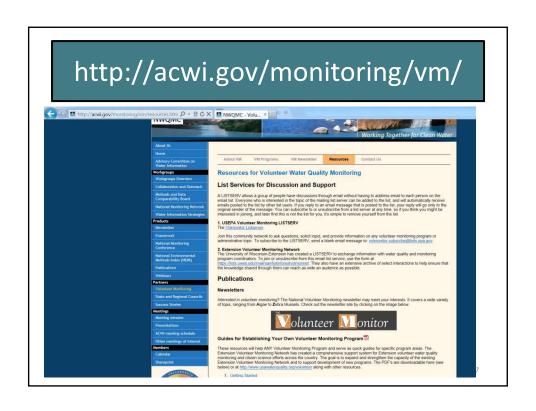
Julie Vastine, Alliance for Aquatic Resource Monitoring
Bill Deutsch, Alabama Water Watch
Kristine Stepenuck, Wisconsin Water Action

Presentation Gameplan

- VolMon resources
- Volunteer engagement
 - Local
 - Statewide
 - National
- National success stories









ALLARM Background

Empower communities with scientific tools to monitor, protect, and restore PA streams.





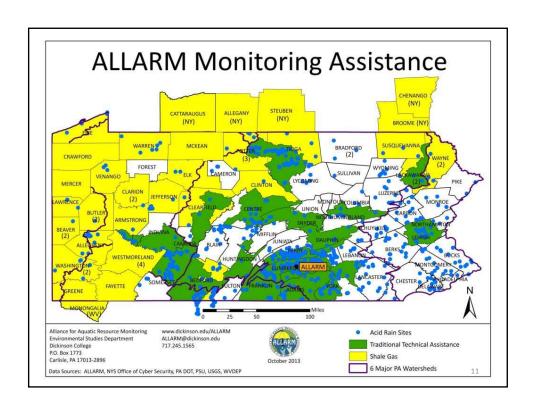
Educate. Engage. Empower.

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Who we are

- Project of the environmental studies department (1986)
- 3 full time directors
- 1 science director/Dickinson faculty
- 10 14 students





PA Watershed Organization Trends

- 1999-2005
- 2005-2009
- 2010-today



Important to go back to the basics

- Strategic planning
- Volunteer recruitment/retention



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Strategic Planning

- Where is your organization going?
- How is it going to get there?
- Who is going to do the work?
- How will you know if you have achieved your goals?



Strategic Planning Outcomes

- 3-5 year plan
- Manageable projects
 - Resources
- Approachable projects
 - New volunteers
 - Outreach



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Reasons why people volunteer

- Benefit family or self
- Help a cause you believe in
- Do something you like to do
- Feel sense of accomplishment
- Meet people and find new friends
- Find challenge in new skills and experiences
- Gain work experience



Volunteer Recruitment

- 1. Know your organization
- 2. Know what you want
 - a) Skills
 - b) Time frames
- 3. Develop recruitment resources
- 4. Design a recruitment strategy
 - a) Advertising print, online, media
 - b) Reach out to partners
- 5. Manage your volunteers



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Recruitment

- Newspapers/newsletter
- Social media
- Community organizations
- Community centers
- Public fairs/events



Get to know your volunteers!

- Organization orientation
- Ask about their motivation
- Survey skill sets
- Ask what they would like to get out of volunteering
- Open two-way communication



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Managing volunteers

- Volunteer coordinator
- Job descriptions
- Clear start and end points
- Care and feeding
- Opportunities for feedback

Member Position Description Template		
Service Position Title:		
Service Location:		
Service Impact:		
Immediate Supervisor/Title:		
Service Position Summary:		



Reasons for burnout

- Voice and role ambiguity
 - Make sure volunteers play a role in decisions that affect them
 - Make sure volunteers have a clear sense of what they are signing up to do – job description



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Retention

- Change it up
- Provide leadership opportunities
- Effective feedback
- Recognition



Tips for acknowledging volunteers

- 6 month check in
- Celebrate anniversaries
- Annual volunteer celebration
- Coordinator check-ins
 - Re-evaluate commitment
 - Identify new interests and goals



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Study by The Urban Institute www.urban.org Figure 1: Management Practices that Charities Say They Practice to a Large Degree or to Some Degree 30% Liability coverage or insurance protection for volunteers Regular collection of information on volunteer numbers and hours Screening procedures to identify suitable volunteers Written policies and job descriptions for volunteer involvement 37% Recognition activities, such as award ceremonies, for volunteers 47% Annual measurement of the impacts of volunteers Training and professional development opportunities for volunteers 49% Training for paid staff in working with volunteers 46% 20% Adopted to large degree ☐ Adopted to some degree

Case Study: Lower Penns Creek

Process

- Strategic Planning (5 mtgs)
- Volunteer Recruitment planning (3 mtgs)

Outcomes

- 3 year plan/schedule
- Volunteer roles (short-term & long term)
- Outreach and follow up strategy
- Dedicated volunteer coordinator

Task	Task Description	Time Commitment	Key Organizers
Environmental Education	Public outreach Identify audience, develop curriculum look at state standards Build relationship of program Implement program New Berlin Charter School & Pennview Christian Academy	Long term: Curriculum, outreach, relationship building Short term: Implement program	
Rain Garden	Mulch, weed, turnover Replanting Maintenance	Long term: Planning, volunteer recruitment Short term: implementation	
Clean Ups	Site location Connect with townships, partners orgs Get supplies Legistics and trash removal hybidity Clean Up	Long term: Advertising, recruitment, networking, logistics Short term: implementation	
Rain Barrels	Get barreis & parts (Jason has 200 \$20/barrei) Assemble barreis Determine location and organize presenters Advertise workshops/recruit participants Collaborate with other orgs Follow up with participants, schedule a LPCWA speaker on a related topic	Long term: Advertising, assemble, recruitment, networking, logistics, follow up Short term: implementation	
Community Outreach	Choose topic Find a speaker Advertise meeting/speaker Let other groups know about speaker (NETWORK!) Update organizational materials (brochure, display, website) Social media? If or when appropriate	Long term: Advertising, speaker recruitment, networking, outreach materials, volunteer appreciation	
Streambank Preservation	Create a strenge (rain garden, stormwater BMP?) Scoul out his and work with stakeholder on preservation Coordinate with Union Country on planting and stream structures Seek out technical assistance/collaborators	Long term: Strategic visioning, advertising, recruitment, networking, follow up Short term: implementation	
Volunteer Coordination	Get contact information, track, and contact volunteers Annual meeting and implementation	Long term: Everything	

Resources

- Strategic Planning Workbook for Nonprofit Organizations, Amherst H. Wilder Foundation, 1997
- www.urban.org "Volunteer Management Practices and Retention of Volunteers"
- www.nps.gov/nero/rtcatoolbox/org_volunteers.htm
- www.usawaterquality.org/volunteer

References:

- Stedman, R., B. Lee, K. Brasier, J. Weigle, and F. Higdon. 2009. "Cleaning Up Water? Or Building Rural Community? Community Watershed Organizations in Pennsylvania." Rural Sociology 74(2):178-200.
- Higdon, F., K. Brasier, R. Stedman, B. Lee, and S. Sherman.
 2005. <u>Assessment of Community Watershed Organizations in Rural Pennsylvania</u>. Final report to the Center for Rural Pennsylvania.

Alabama Water Watch







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Presentation Overview

- AWW Program Description
- AWW 20-Year Program Study
- Lessons and Applications for Other Programs



AWW Institutional Support



Auburn University School of Fisheries, Aquaculture and Aquatic Sciences









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Three Components of AWW Monitoring Groups Alabama Water Watch Program Association

AWW Water Chemistry Monitoring





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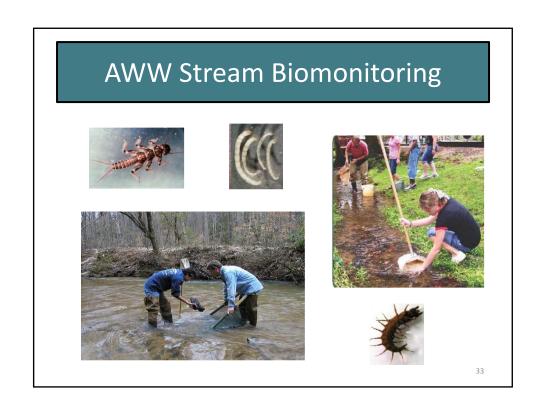
AWW Bacteriological Monitoring

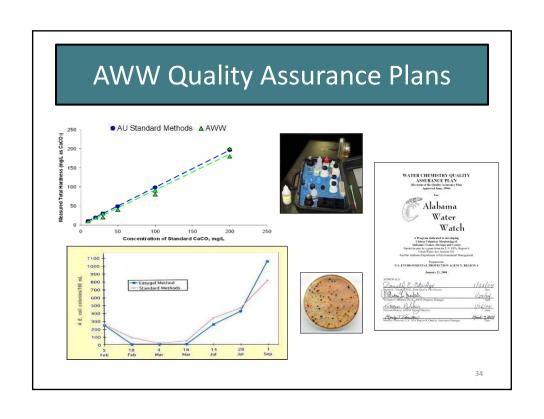


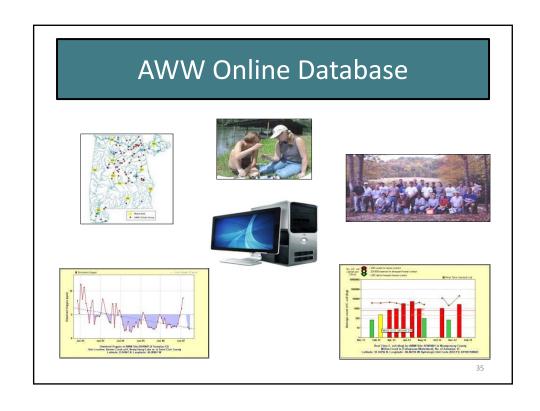


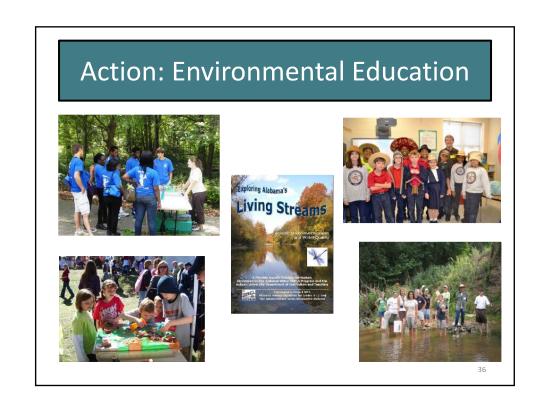




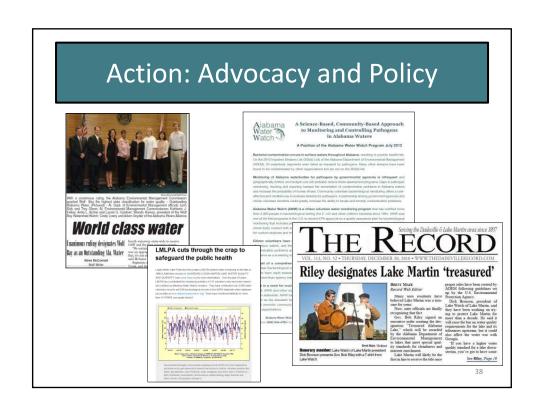


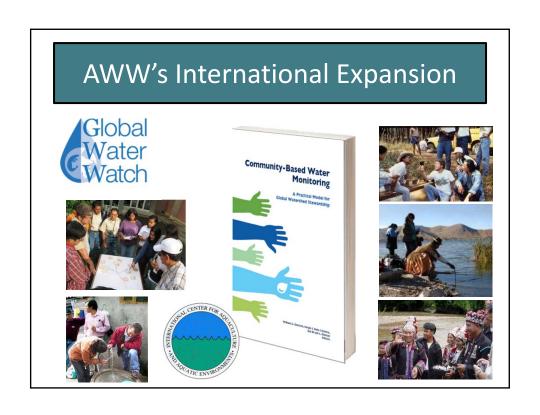


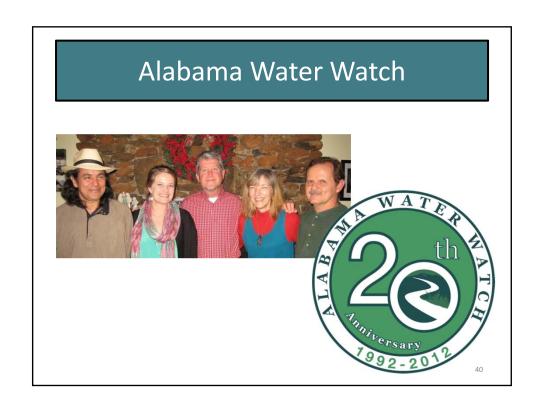












AWW Milestones, 1993-2012



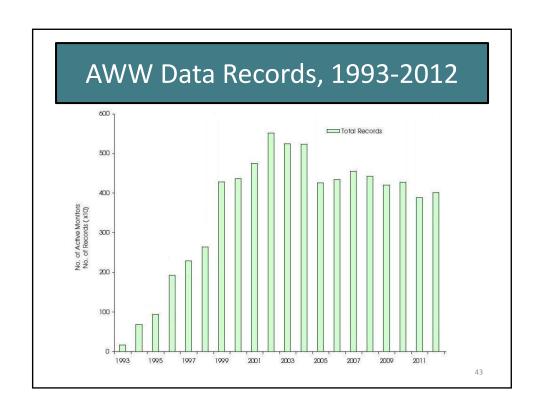
- 270 monitoring groups
- 1,670 training sessions
- 6,400 certified citizen monitors
- 2,500 sites on 800 waterbodies
- 72,000 data records
- 297,000 volunteer hours
- 30 citizen trainers

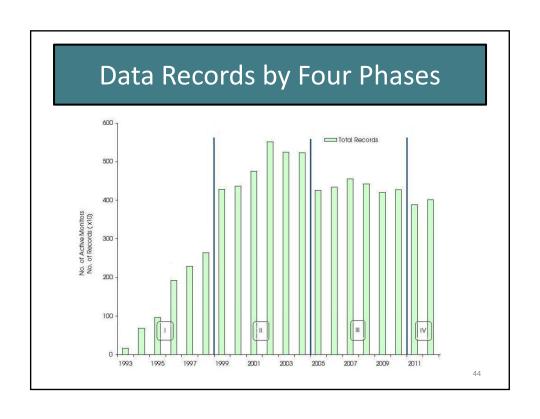
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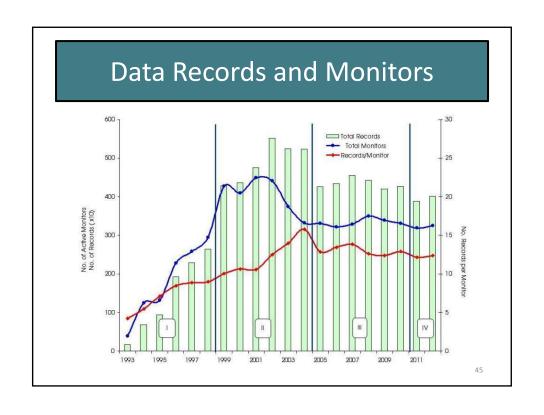
Example Program Indicators

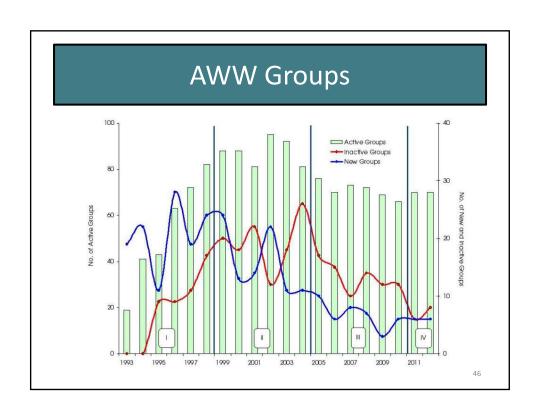
- Data Records Submitted (per year)
- Active Monitors
- Records per Monitor
- Number of Active, New, and Inactive Groups
- Program Funding and Staff Time
- Volunteer Hours
- Workshops conducted
- Number of Volunteers Certified
- % Certified who became Active
- Active Sites

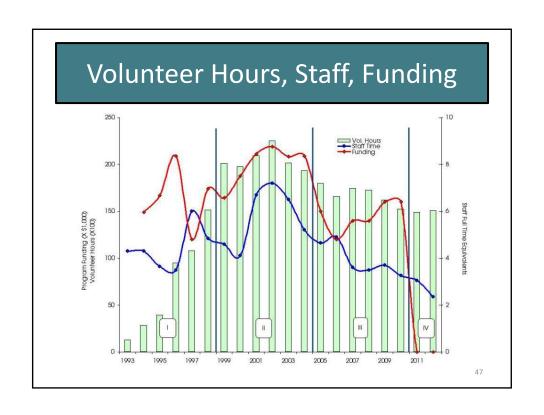


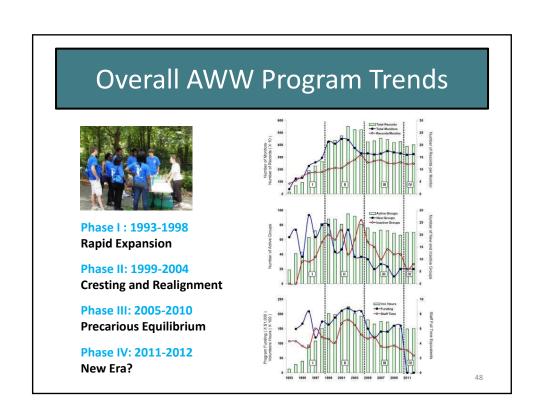






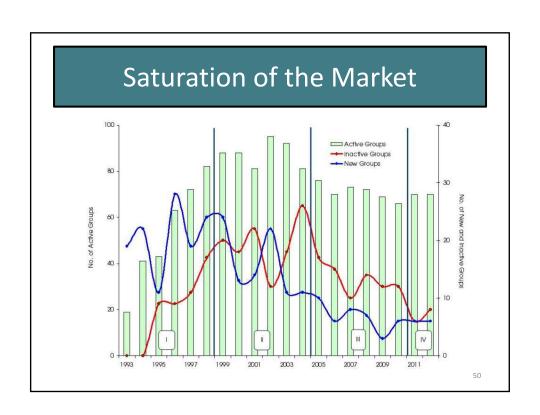






Factors Affecting Trends

- Saturation of the Market?
- "Graying" of Volunteer Monitors
- Fatigue and Disillusionment
- Societal Change?
- Funding



Graying of Volunteer Monitors

"It's so nice to see the young people here tonight!"



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Fatigue and Disillusionment

"What good is my data?"

"I don't see a change in my waterbody."

"The Agencies don't appreciate us!"

Societal Change

"I prefer the indoors...it's where all the electrical outlets are."

> Quote from fourth Grader Last Child in the Woods Richard Louv



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Funding

Volunteer Water Monitoring Programs in the Age of Recession

Next Steps

Trends, Challenges and Responses of a 20-Year, Volunteer Water Monitoring Program in Alabama

Manuscript submitted to the Journal of Ecology and Society, currently under review

Follow-up Survey of Active and Inactive AWW Monitors to further explore factors affecting Program Trends

Conducted in 2012 and data are being analyzed

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What About Your Program?

- Mission, Approach, Strategies
- Institutional Support, Strategic Partners
- Identifying and Documenting Key Program Indicators
- Indicator Trends, Program Phases
- Factors "Within" and "Outside of" Your Control
- Organizational Lifespans
- Adaptation to Ever-Changing Conditions

Further Information

Alabama Water Watch

559 Devall Drive Auburn University Alabama, USA 36849

Tel: 1-888-844-4785 email: info@alabamawaterwatch.org



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MOVING TO THE NATIONAL SCALE...

Kris Stepenuck
Coordinator
Wisconsin Water Action Volunteers Stream Monitoring Program

Our reality

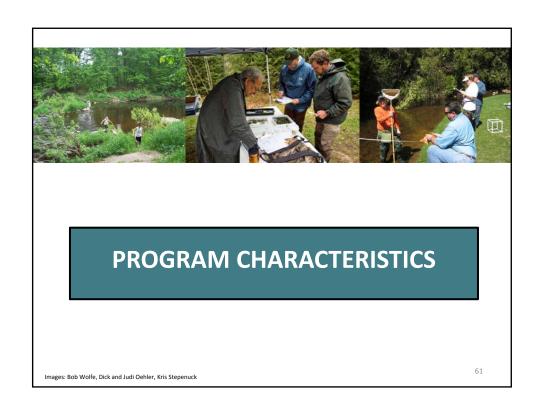
We have:

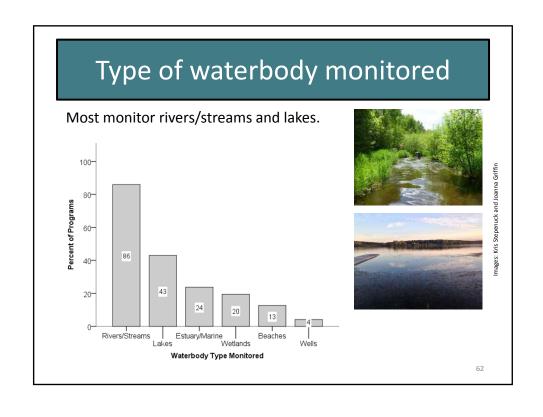
- Shrinking public natural resource management budgets +
- Continued water quality and quantity challenges +
- Citizens who care a lot and are ready to jump in to help +
- Policies that allow for & encourage citizen participation +
- Volunteer monitoring programs =
- Effective contributions to natural resource management and policy?

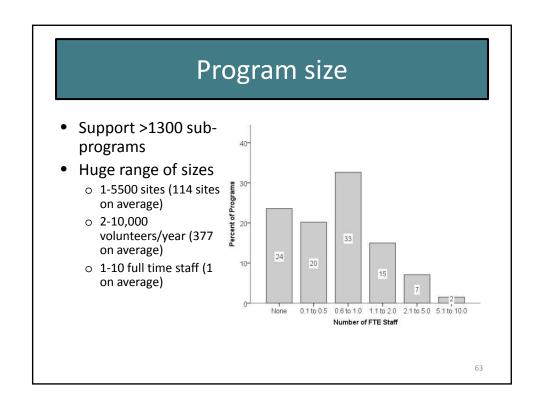
Are we succeeding?

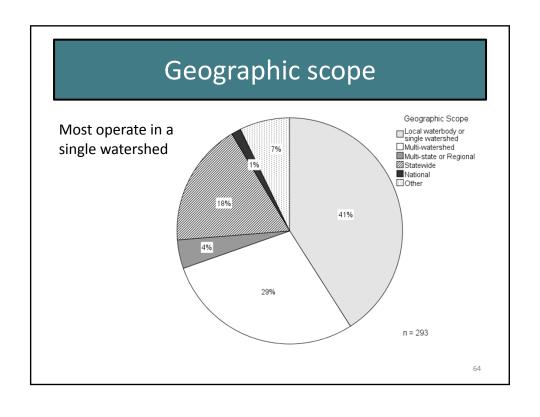
- What outcomes for natural resource & policy have been reached?
- What are program characteristics?
- Survey of 345 volunteer water monitoring program coordinators
- 86% responded

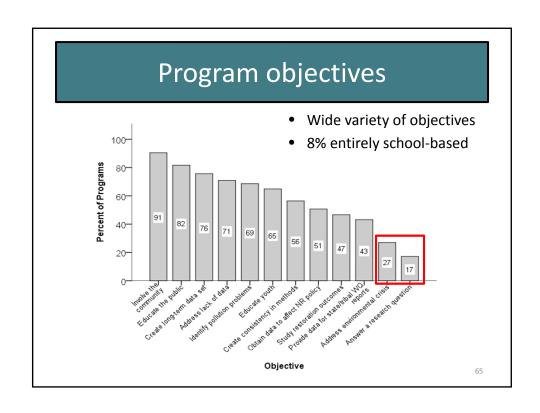


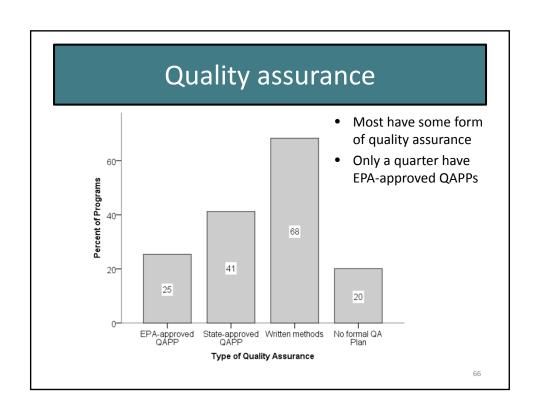


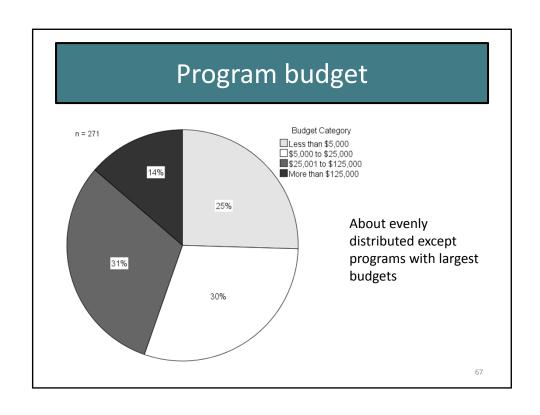














Impacts on waterbody protection and restoration

- Coordinators reported if volunteer data had been used to
 - Obtain protected status for a waterbody
 - Justify altering land uses
 - Protect land from development
 - Obtain funding for restoration/protection



Image: Terry and Steve Stepenuc

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Waterbody restoration and protection examples

- State protected waters status / US
 Wild and Scenic River status
- Urban/suburban:
 - Reconfigured parking lot and installed new rain garden
 - Stopped highway construction until silt fences installed
 - Located and eliminated illicit connections
 - Changed ball field land uses to reduce stream turbidity



Waterbody restoration and protection examples

- Agricultural:
 - BMPs installed (fencing, buffer strips)
 - Changes to industrial farming practices
- Recreational/Commercial:
 - Gear restrictions for fishing
 - Obtained funding for acid mine drainage remediation
 - Established oyster bed sanctuary
 - Removed culvert / installed bridge to increase tidal influence and salmonid spawning



7:

Impacts on natural resource policy and management decisions

- Reported if data had been used to
 - Identify where a standard was not met
 - Define/modify a standard
 - Close/open a beach or fishing area
 - Develop, change or enforce a regulation
 - Develop a Total Maximum Daily Load (TMDL)
 - Monitor a TMDL
 - List/delist a water body to/from state impaired waters list



Image: http://www.ecy.wa.gov

Natural resource management examples

- TMDLs and impaired waters listings/de-listings
- Ordinances developed to stop shoreline waterfowl feeding
- Slow or no wake zones developed to minimize spread of invasive species
- Mandatory pet waste clean up areas developed



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Natural resource management examples

- UV disinfection periods expanded at a wastewater treatment plant
- Dam owner permit altered to meet water and temperature requirements of fish
- Developers fined for sediment discharge violations



Volunteer civic engagement impacts

- Reported if volunteers had
 - Attended a public meeting
 - Served on a board
 - Testified before a legislative body
 - Written letters to support or refute a policy (with/without data)



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Volunteer civic engagement examples

- Have spoken to township, city, & county boards
- Sent data to city engineers and county supervisors for action
- Served on conservation commissions, town board, zoning boards, planning commissions, watershed councils & as county supervisor
- Written to state rep to support a bill
- Testified before Congress



Organizational impacts

- Reported if organizations had:
 - Changed **how** they assessed water quality
 - Changed where they assessed water quality
 - Given citizens staff monitoring responsibilities

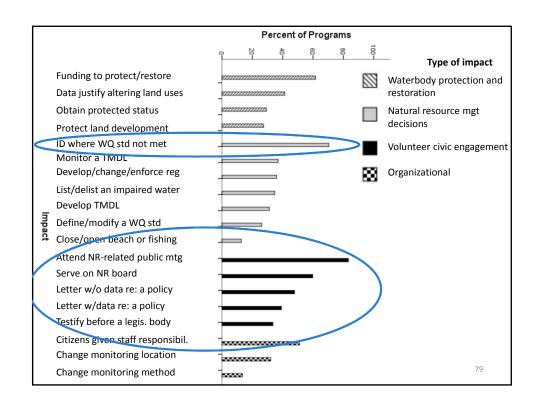


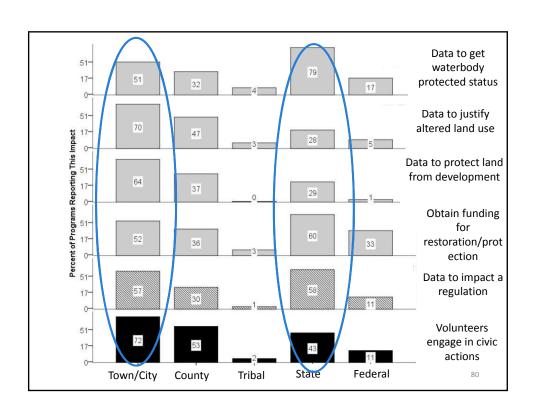
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Organizational impact examples

- State agencies:
 - Expanded monitoring to include pharmaceutical, personal care products, surfactants & optical brighteners
 - Switched from using alpha bottle to the integrated water samplers
 - Now determine where biomonitoring should occur based on vol. mon. results







Impact indices and multiple regression

Impact indices

- 1. Equal Weight Index
 - Each "yes" weighted equally (1)
- 2. Top Impact Index
 - More credit for a top impact per category (3)
- 3. Geographic Area Index
 - More credit for impacts at larger geographic scales

Multiple regression

- Impact indices dependent
- Program characteristics independent

npact index

Program characteristics

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What program characteristics were significantly related to outcomes?

- 1. Objective to address an environmental crisis
- 2. EPA-approved quality assurance project plan
- 3. Program size
- 4. Level of support from external decision makers
- 5. State-approved quality assurance project plan
- 6. Entirely school-based (-)
- 7. Program age (only in Geographic Impact Index model)

One that was not significantly related to outcomes...

Budget

- Great news for poorly-funded programs!
 - Can and do have an impact on NR policy and management
- Not necessarily bad for wealthy programs
 - Likely due to survey design
 - Measured presence/absence of outcomes, not quantity

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Summary

- Wide variety of natural resource management and policy impacts reported
 - Volunteer civic engagement at the local level
 - ID where standards not met at the state level

Summary

- Of characteristics significantly related to reported outcomes, the 3 most important:
 - Objective to address environmental crisis
 - Having an EPA-approved QAPP
 - Program size
- Programs with both small and large budgets have positive outcomes



Speaker Contact Information

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Next Watershed Academy Webcast





Identifying and Protecting
Green Infrastructure Landscapes
in New York State

January 2014

Information will be posted at

www.epa.gov/watershedwebcasts

Participation Certificate

If you would like to obtain participation certificates type the link below into your web browser:

http://water.epa.gov/learn/training/wacademy/upload/2013-11-19-certificate.pdf

You can type each of the attendees names into the PDF and print the certificates.