

Introductions

Nora Beck, Chicago Metropolitan Agency for Planning

Steve Brendel, Madison County

Tyler Carpenter, Greater Egypt Regional Planning and Development Commission

Alec Davis, Illinois Environmental Regulatory Group

Josh Ellis, Metropolitan Planning Council

Mary Beth Falsey, DuPage County

Matt Hanauer, Association of Soil and Water Conservation Districts

Carol Hays, Prairie Rivers Network

Andrea Klopfenstein, City of Peoria

Kim Knowles, Prairie Rivers Network

Lauren Lurkins, Illinois Farm Bureau

Scott Marlow, Illinois Dept. of Transportation

Sally McConkey, Illinois State Water Survey

Stephen McCracken, The Conservation Foundation

Mary Mitros, DuPage County

Jason Navota, Chicago Metropolitan Agency for Planning

(Continued on next slide)



Introductions (con't)

Cristina Negri, Agronne National Laboratory Bob Newport, U.S. EPA

Mike Novotney, Lake County Stormwater Management Commission

Andrew Rehn, Prairie Rivers Network

Trevor Sample, Illinois EPA

Margaret Schneeman, Chicago Metropolitan Agency for Planning

Eric Schoeny, City of Aurora

Cindy Skrukrud, Sierra Club

John Sloan, National Great Rivers Research and Education Center

Kelly Thompson, Association of Soil and Water Conservation Districts

Justin Vick, Metropolitan Water Reclamation District of Greater Chicago

Amy Walkenbach, Illinois EPA

Mike Warner, Lake County Stormwater Management Commission

Patty Werner, Lake County Stormwater Management Commission

Nancy Williamson, Illinois Dept. of Natural Resources

Rick Winkel, Prairie Research Institute



Urban Stormwater Working Group Committee Charge

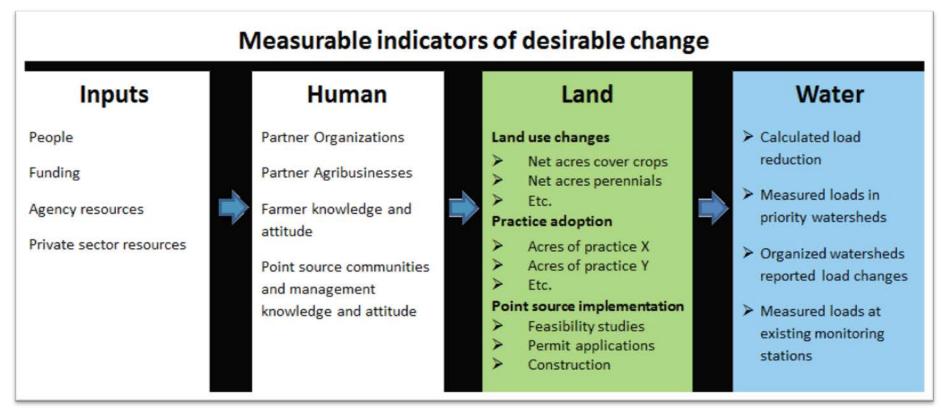
- Explore funding, identify legislative initiatives, and develop plans.
- Coordinate outreach.
- ➤ Orchestrate statewide efforts related to green infrastructure expansion, MS4 program training, and urban stream, lake, and stormwater monitoring.

Today's goals

- >Implementation tracking
- **>** Subgroups
- **≻**Updates
- Determine next steps for future meetings



Implementation tracking Logic Model



Source: Iowa State University, Extension and Outreach, Measures of Success Committee

Implementation tracking Logic Model



Inputs and Human measures

- Single person from each organization sends Input and Human indicators to IWRC twice a year—July and January.
- > IWRC compiles the individual updates for a stakeholder-wide update and formal report.

Inputs measures

Reporting Element 1 – Inputs Please describe the following items related to resources available and/or invested in both point and non-point related efforts during the reporting period for the Nutrient Loss Reduction Strategy.								
Staff:								
Programs:	Category:	Funding:	Description:					
Other Agency or Private Sector Resources: Please provide a summary of other agency and private sector resources to support NLRS activities								



Example Inputs measures

- ➤ MS4 Permit holders
- > 319 Grants
- ➤ Illinois Green Infrastructure Grant and Clean Water Initiative and State Revolving Fund projects
- Stormwater Utilities

Human measures

Reporting Element 2 – Human

Please describe the following items related to resources available and/or invested in Organization/Agency-Supported Outreach Activities during the reporting period for the Nutrient Loss Reduction Strategy and/or practices detailed in the science assessment.

Description:	Number:	Attendance:	Topics Covered:	Partnerships:	Response/Feedback:
Field Days					
Presentations					
Conferences					
Workshops/Meetings					
Print or Media					
Radio and Television					
Newsletters					
Awards/Recognition Activities					
Surveys					
Additional Activities and Partnership Organizations:					



Example Human measures

- Green infrastructure tours
- Presentations
- Survey results
- Workshops and meetings
- > Print and digital media

Implementation tracking Logic Model

Land

Land use changes

- Net acres cover crops
- Net acres perennials
- Etc.

Practice adoption

- Acres of practice X
- Acres of practice Y
- Etc.

Point source implementation

- Feasibility studies
- Permit applications
- Construction

AWQPF Tech Subgroup Committee Charge

- Determine the best way to share and aggregate bmp implementation data across agencies (so we can track our progress in accomplishing the Illinois Nutrient Loss Reduction Strategy).
- 2. Determine what BMP implementation parameters will be tracked (e.g. cover crops, wetlands, buffer strips, etc.) and how it will be aggregated (e.g. per watershed, statewide, lump practices into categories like edge of field, etc.). This includes identifying future data parameters required from producer surveys or transect surveys to track progress in accomplishing the NLRS.
- 3. Assess existing BMP implementation data availability over time to advise the policy work group as they select a BMP implementation baseline year.



Metrics and what are we using to measure them

Land	FSA	USDA- NRCS	Illinois EPA	IDA	IDNR	NASS	Ag Partners
Red. N rate from backgrnd to MRTN 10%							
Nitrification inhibitor w/ all fall-applied fert on tile-drained corn							
Split appl. 50% fall + 50% sp on tiled corn							
Spring-only appl. on tile-drained corn							
Split appl. of 40% fall, 10% pre-plant, and 50% side dress							
Cover crops on all corn/soybean tile ac							
Cover crops corn/soybean non-tile ac							
Bioreactors on 50% of tile-drained land							
Wetlands on 25% of tile-drained land							
Buffers on all applicable crop land							
Perennial/energy = to pasture/hay ac							
Perennial/energy crops 10% tile-drained							
Water table management	resources with	1					

Metrics and what are we using to measure them

Land		USDA-	Illinois			
	Units	NRCS	EPA	FSA	IDNR	NASS
Red. N rate from backgrnd to MRTN 10%	Cropland acres					NASS Survey
Nitrification inhibitor w/ all fall-applied fert on tile-drained corn	Cropland acres					NASS Survey
Split appl. 50% fall + 50% sp on tiled corn	Cropland acres					NASS Survey
Spring-only appl. on tile-drained corn	Cropland acres					NASS Survey
Split appl. of 40% fall, 10% pre-plant, and 50% side dress	Cropland acres					NASS Survey
Cover crops on all corn/soybean tile ac	Cropland acres			To HUC8 level		NASS Survey
Cover crops corn/soybean non-tile ac	Cropland acres			To HUC8 level		NASS Survey
Bioreactors on 50% of tile-drained land	# Acres treated	EQIP	319 Grant			NASS Survey
Wetlands on 25% of tile-drained land	Acres wetland/ # Acres treated		319 Grant	To HUC8 level	To HUC8 level	NASS Survey
Buffers on all applicable crop land	Acres buffers		319 Grant	To HUC8 level	To HUC8 level	
Perennial/energy = to pasture/hay ac	Cropland acres			To HUC8 level		NASS Survey
Perennial/energy crops 10% tile-drained	Cropland acres			To HUC8 level		NASS Survey
Water table management	#Acreseffeated	EQIP	319 Grant			

Discussion

> How should we determine what we measure?



Implementation Tracking Logic Model

Water

- Calculated load reduction
- Measured loads in priority watersheds
- Organized watersheds reported load changes
- Measured loads at existing monitoring stations

Metrics and what are we using to measure them

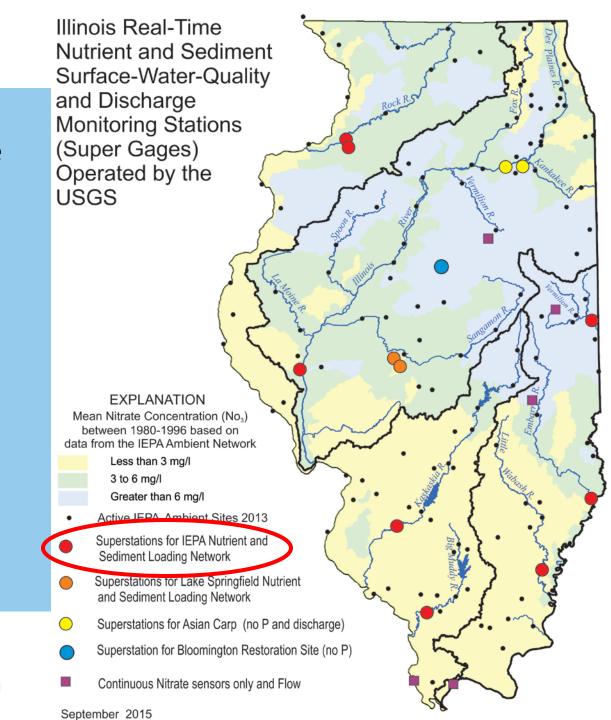
What are we using to measure it?

Water	FSA	USDA- NRCS	Illinois EPA	IDA	IDNR	NASS	Ag Partners
➤ Calculated load reduction			Region V Load Estimation Spreadsheet, 319 Grant projects		GIS Model		
Measured loads in priority watersheds							
 Organized watersheds reported load changes 	N u	trient M	onitorin	g Cour	CII WIII	do th	ese.
Measured loads at existing monitoring stations							
Others							
Others							



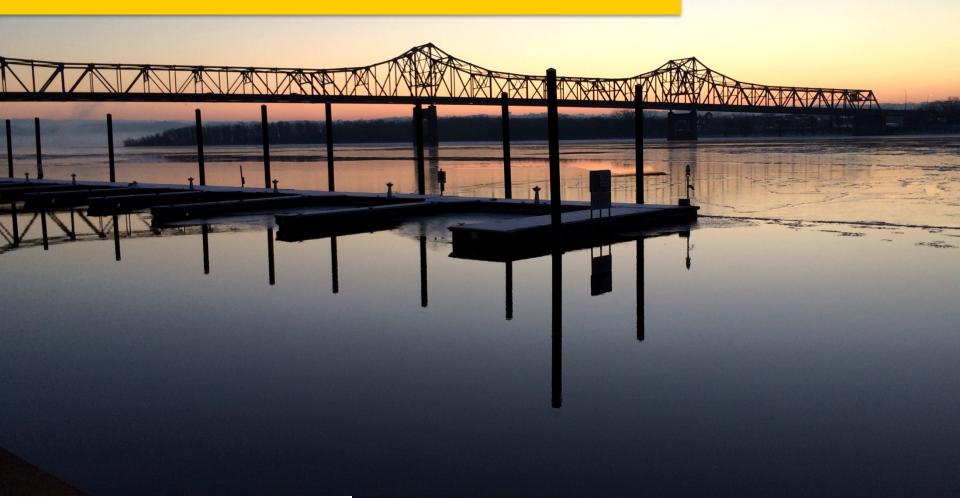
The Plan

- Basins covering almost 75% of area of the State
 - Rock River
 - Green River
 - Illinois River
 - Kaskaskia River
 - Big Muddy
 - Little Wabash
 - Embarras River
 - Vermilion River
- Current USGS gaging station (flow)
- Current IEPA Ambient site/Historical Data





SUBGROUPS



Subgroups

At the last meeting, USWG discussed the importance of funding and for there to be a basis of understanding by elected officials and the general public to support this funding. We identified the need for 2 and possibly 3 subgroups that focus on outreach, legislative issues, and MS4 programs.

Our assignment was to define the subgroups.

- > Legislative (Decision maker) Education Subgroup
- Public Education Subgroup

Subgroups

Legislative Subgroup Charge:

Provide education about stormwater issues to governmental decision makers such as elected officials and stormwater managers.

- Series of events that engage governmental decision makers such as elected officials and technical staff.
 - ➤ Illinois Water Conference: Oct. 25-27, 2016



Preconference Workshop: Tues, Oct. 25
Illini Union | Champaign-Urbana

Target audience

Elected officials including:

- Municipal mayors, mangers, or council members
- County board chairpersons, members or commissioners
- Planning Commissioners
- State legislators

Technical staff including:

- > Local staff responsible for development aspects of MS4 permit compliance
- Local, county, and consulting planners and engineering staff
- Public works officials, public safety staff, and bike/ped/transit coordinators
- > Park, recreation, and urban forestry/arborist staff
- Stormwater, environmental planning, and watershed program staff



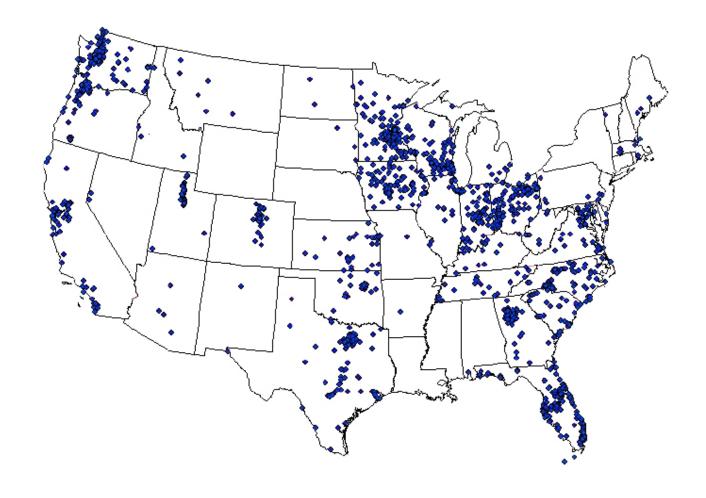
Topics

- >General info session for elected officials;
- > Followed by more detailed info sessions:
 - **→** Green Infrastructure Asset Management/O&M
 - ➤ MS4 Permit and Program Updates
 - > Funding and Finance

- Who wants to help?
 - **≻** Evaluation
 - **≻**Materials
 - **→** Promotion

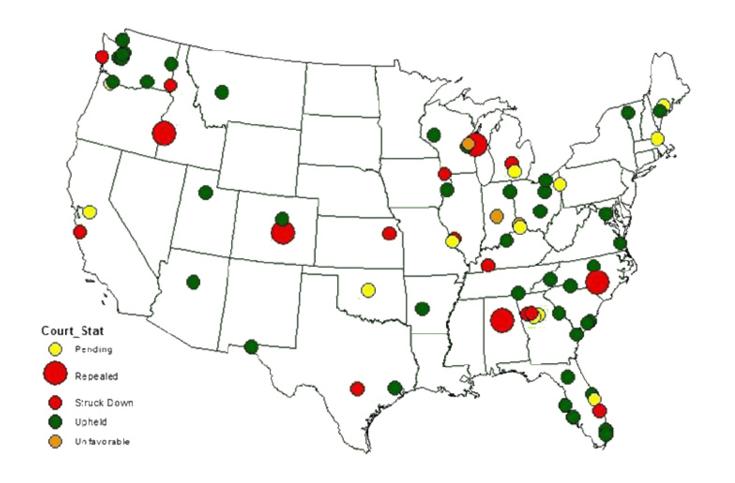
Subgroups

- MS4 Public Education Subgroup Charge:
 - Work to develop and disseminate public education material for a general audience that includes nutrient information.



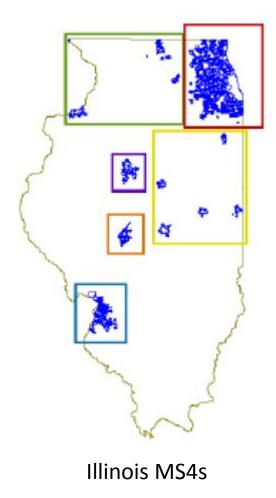
Stormwater Utilities 2014 (Western Kentucky University)





Stormwater Utility Challenges 2013 (Western Kentucky University)

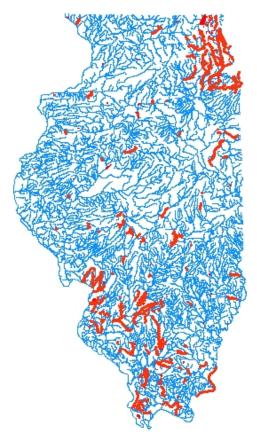




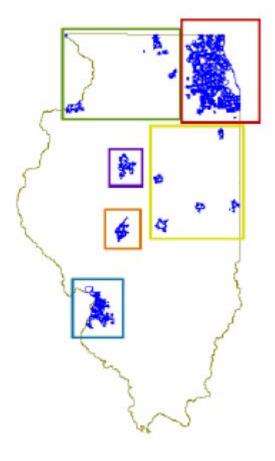
Public Education and Outreach on Storm Water Impacts

"Distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff."

- IL General MS4 Permit B.1.a



2014 stream impairment due to urban runoff



Illinois MS4s

MS4 Public Education Subgroup

- > Southern
- Central
- Northern

Outreach: Discussion

How to connect these efforts?

➤ What are the gaps?





Updates

- > Authority to establish Stormwater Utility
- > Urban Flooding Awareness Act Report
- > Resilient Watershed Initiative

Policy Working Group participation By Sector

Agriculture



Stormwater























Public Water Supply

University/ Technical Assistance













Government













Next Steps

- How to manage progress on the charge?
- > Next meeting
 - > Topics

