

# AGRICULTURE WATER QUALITY PARTNERSHIP FORUM

MEETING 6  
APR 4, 2017

# Introductions

## **Illinois EPA**

Amy Walkenbach

## **IDA**

Warren Goetsch

## **USDA-NRCS**

Ivan Dozier

## **IDNR**

Mike Chandler

## **AISWCD**

Kelly Thompson

## **The Nature Conservancy**

Maria Lemke

## **IFCA**

Jean Payne

## **American Farmland Trust**

Mike Baise

## **Prairie Rivers Network**

Carol Hays

## **LICA**

Ryan Arch

## **Illinois Farm Bureau**

Lauren Lurkins (Lyndsey Ramsey)

## **Illinois Pork Producers Association**

Jennifer Tirey

## **Illinois Soybean Association**

Amy Roady

## **University of Illinois - Extension**

George Czapar and Laura Christianson

## **Farm Service Agency**

Scherrie Giamanco (Kim Martin)

## **Illinois Certified Crop Advisor Board of Directors**

Tom Kelley

## **Illinois Stewardship Alliance**

Woody Woodruff

## **Illinois Soc of Prof. Farm Man. & Rural Appr.**

Randy Fransen

## **Illinois Corn Growers Association**

Rodney Weinzierl

## **Nutrient Research and Education Council**

Julie Armstrong

# Committee Charge

## Agriculture Water Quality Partnership Forum

- Steer and coordinate outreach and education efforts to help farmers address nutrient loss and select the most appropriate BMPs:
  - Identify needed education initiatives or training requirements for farmer and technical advisors.
  - Strengthen connections between industry initiatives, certified crop advisor continuing education requirements, state initiatives, and other technical services.
- Track BMP implementation
- Coordinate cost sharing and targeting
- Develop other tools as needed
  - Consider an agriculture water quality certification program.

# Des Moines Water Works Lawsuit

# Science Team Update

# Science Team Update

- Received BMP cost revision numbers from Gary Schnitkey (via Rodney Weinzierl)
- Science Team is double checking them for inclusion into the Biennial Report.

- The Walton Family Foundation has provided funding to develop a framework for non-point source nutrient loss reduction tracking, OR IN OTHER WORDS, to develop a BMP inventory that allows us to estimate nutrient loading reductions from non-point sources.
- The University of Illinois (Christianson) is the Lead PI, with the project development team including Iowa State (Helmers), Purdue (Frankenberger), Wisconsin Extension (Power), and Kentucky Extension (Gumbert).
- The ultimate aim is that this framework would eventually be THE reporting framework used by the states for tracking non-point source nutrient loss reduction across the entire MARB.
- It needs to be stressed that this project is a PILOT project. We will be working with 2 states to develop the framework and this will help us identify what will work and what won't work before (hopefully) rolling this out to the entire basin.

# Biennial Report Update



# Outline

- I. Executive Summary
- II. Introduction
- III. Science Assessment Update
- IV. Committee reports
  - A. Ag Water Quality Partnership Forum
  - B. Point Source Working Group
  - C. Urban Stormwater Working Group
  - D. Nutrient Monitoring Council
  - E. Nutrient Science Advisory Committee
- V. Future Efforts
- VI. Appendices

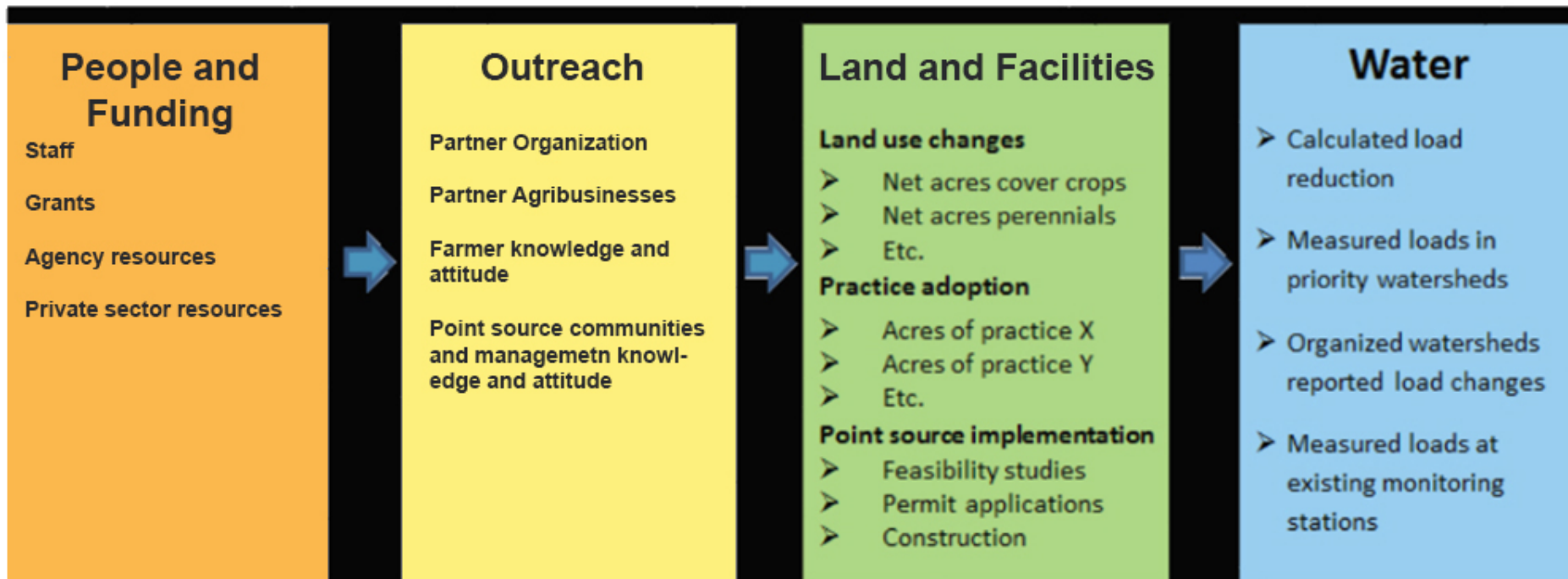
# AWQPF Committee Report Outline

- A. Summary of Logic Model Metrics
- B. Update on existing initiatives and new initiatives started after the Strategy was published.

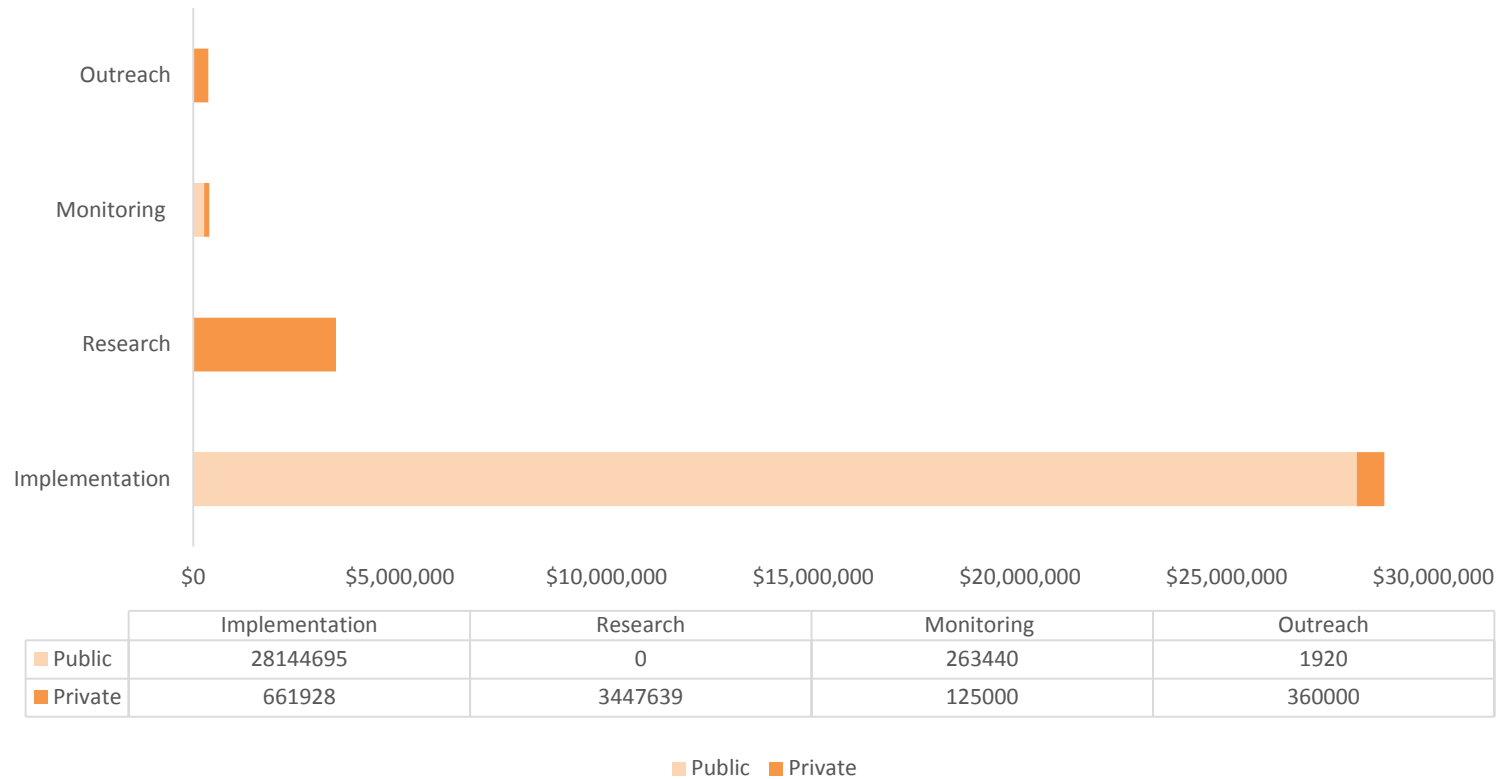
Appendices will include submittals to obtain A. and B.

# Logic Model for BMP implementation tracking

## Measurable indicators of desirable change



# Funding

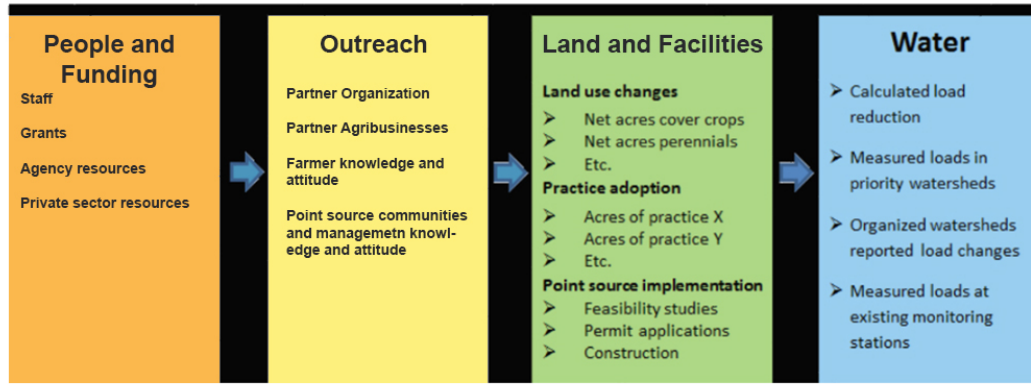


*Financial contribution information provided by Association of Illinois Soil and Water Conservation Districts, Illinois Corn Growers Association, Illinois Department of Natural Resources, Illinois Environmental Protection Agency, Illinois Farm Bureau, Illinois Fertilizer and Chemical Association, Illinois Land Improvement Contractors Association, Illinois Pork Producers, Illinois Natural Resources Conservation Service, Illinois Soybean Association, Nutrient Research and Education Council, and Trees Forever.*

**Question: Do all NRCS BMPs show up in FSA info?**

# Outreach Analysis – Dr. Anna Marshall

## Measurable indicators of desirable change



# Outreach Data

- Responses to Questionnaires by Members of Agriculture Water Quality Partnership
  - Types of Outreach (e.g. Field Days, Presentations, Workshops, etc.)
    - Number of Events
    - Number of People in Audience
  - Identified the Partners
  - Identified the Topics

# Summary of Outreach Efforts

2016 OUTREACH EFFORTS		
	Number of events	Total Reported Attendance
Outreach (fairs, tours, community education, presentations)	353	25,312
Field Days	121	3,360
Workshops	596	12,848
Conferences	24	6,545
<b>TOTAL</b>	<b>1094</b>	<b>48,065</b>



# Examples of Outreach Efforts

## ➤ Workshops

- Nutrient Management
- Land Management
- Economic Issues
- Watershed Planning Activities

## ➤ Presentations

- Training for Certified Crop Advisors
- Presentations to Agricultural and Environmental Educators

## ➤ Active Field Day Program

## ➤ Media Outreach

- Print and Radio
- Posters and Pamphlets
- Social Media



# Farmer Knowledge of Nitrogen BMPs

Knowledge of Nitrogen BMPs – NASS Survey Result						
	% Not at all	% Slightly	% Somewhat	% Knowledgeable	% Very	Total % Somewhat to Very Knowledgeable
Four R strategy	10.7	13.1	22.9	31.3	22	76.20%
MRTN strategy	11.5	18.6	26.1	28.8	15	69.90%
Drainage water management	8.1	20.6	35.8	22.2	13.3	71.30%
Bioreactors	43.1	22.3	24.8	7.9	1.9	34.60%



# Topic of Outreach

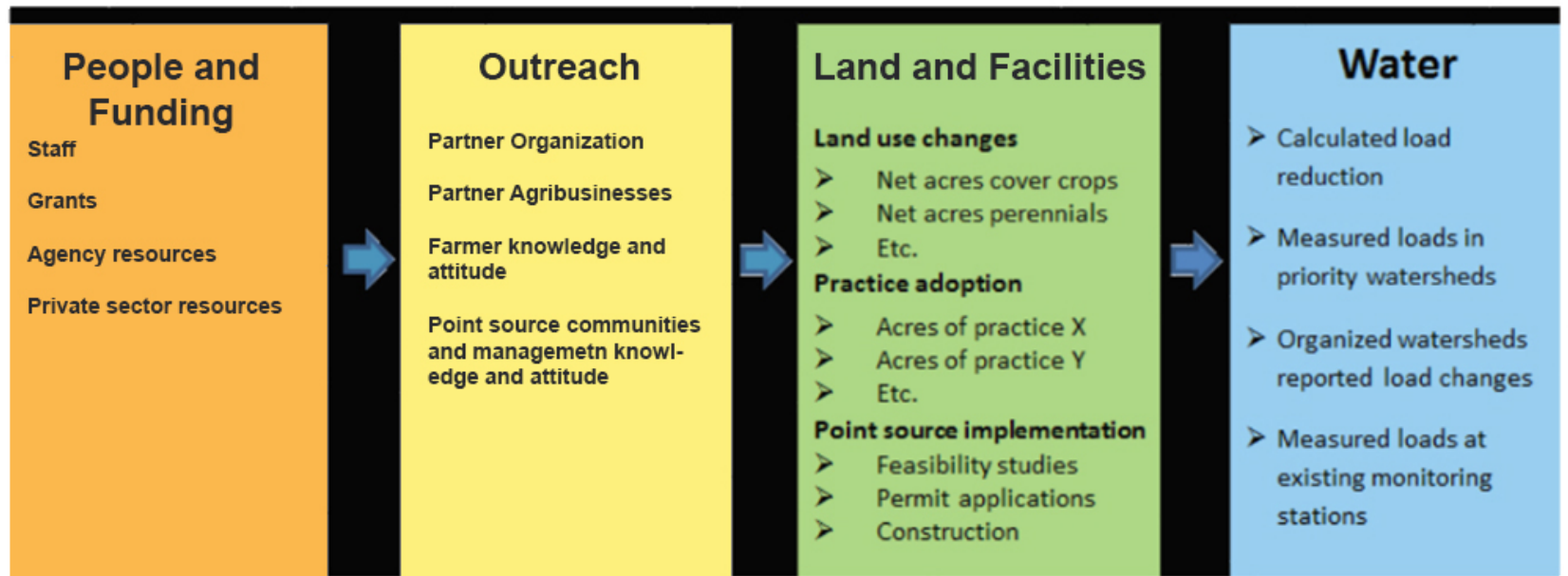
TOPIC OF OUTREACH	% (n=610)
Conservation Practices	29
Environment and Conservation Generally	27
Nutrient Management	16
Nutrient Loss Reduction Strategy	10
Farming Operations	8
Funding Opportunities	5
Research Findings	4

# Topic of Outreach

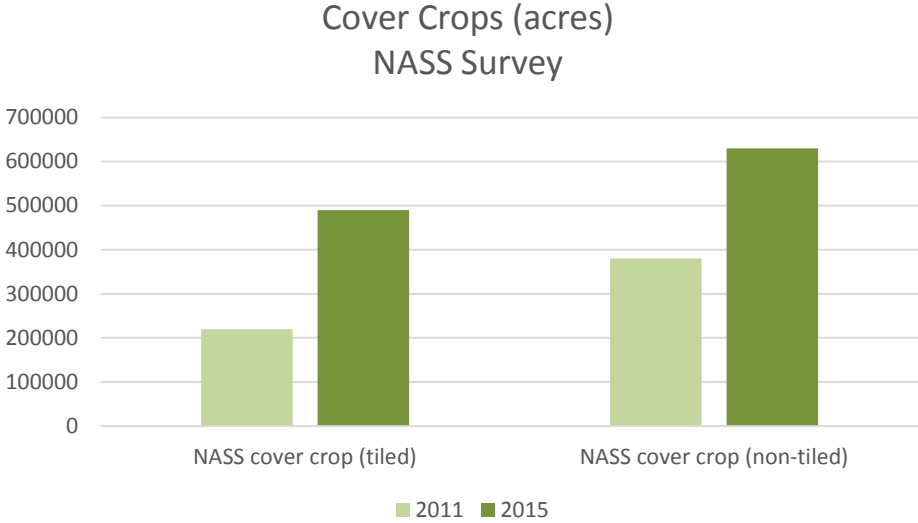
- Importance of Conservation / Environmental Issues
- Conservation Practices
- Nutrient Loss
- NLRS

# Land and Facilities

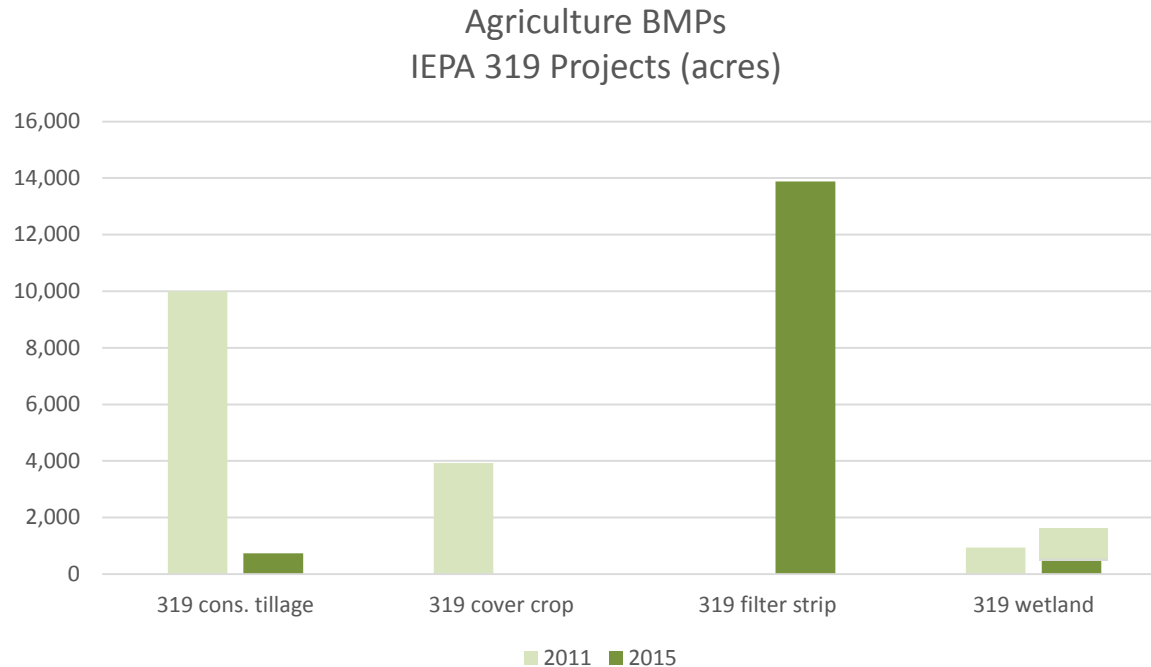
## Measurable indicators of desirable change



# Land and Facilities

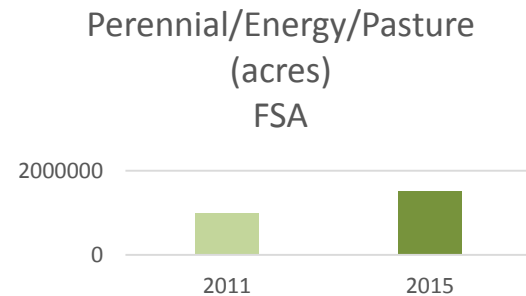
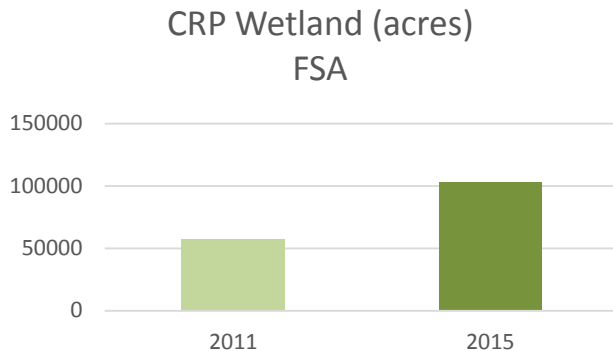
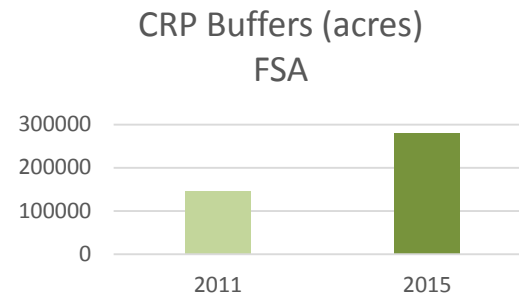
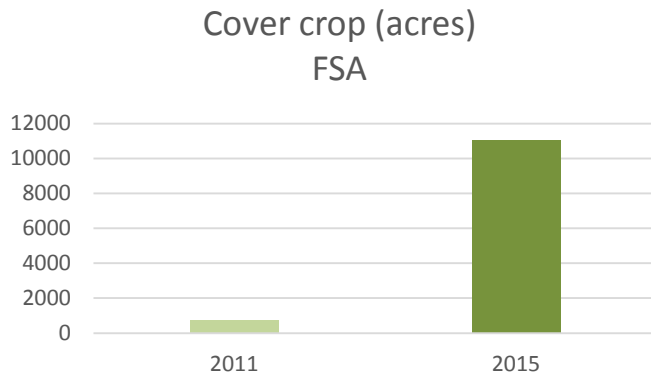


# Land and Facilities (IEPA 319 data)



Question: Do the filter strip and wetland data only include new contracts for that year?

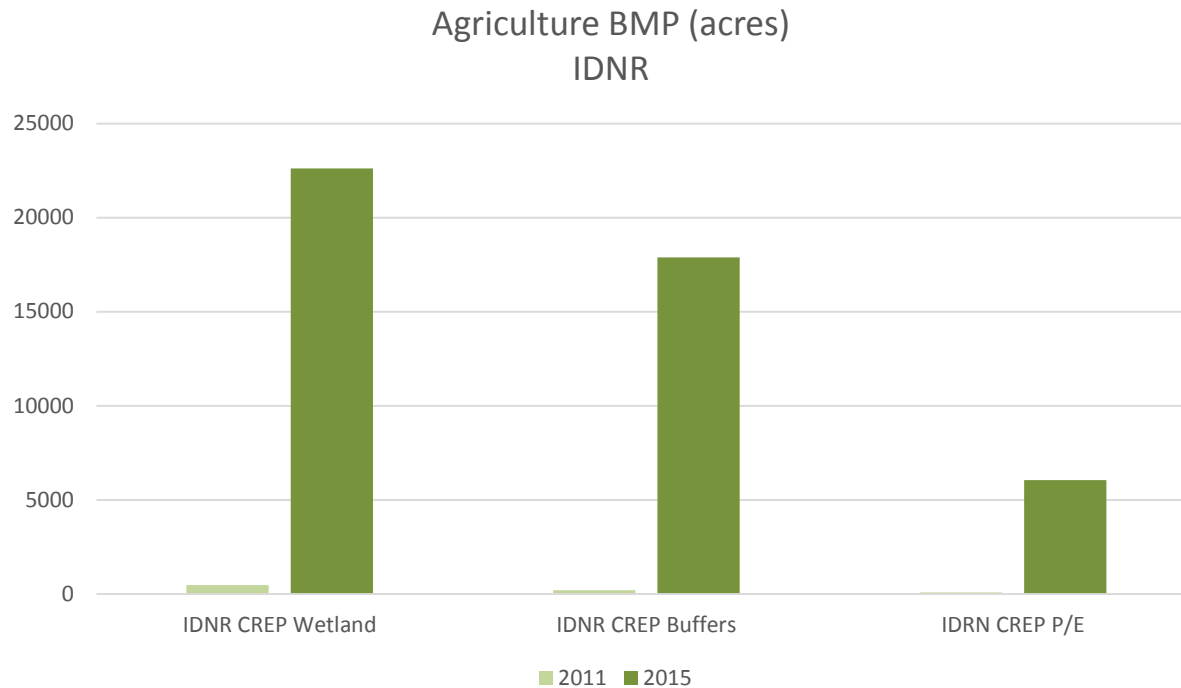
# Land and Facilities (FSA data)



Question: Do the wetlands and buffer data only include new contracts for that year?

Question: Do all NRCS BMPs show up in FSA info?









# Land and Facilities (IDNR data)



Question: Do the data only include new contracts for that year?

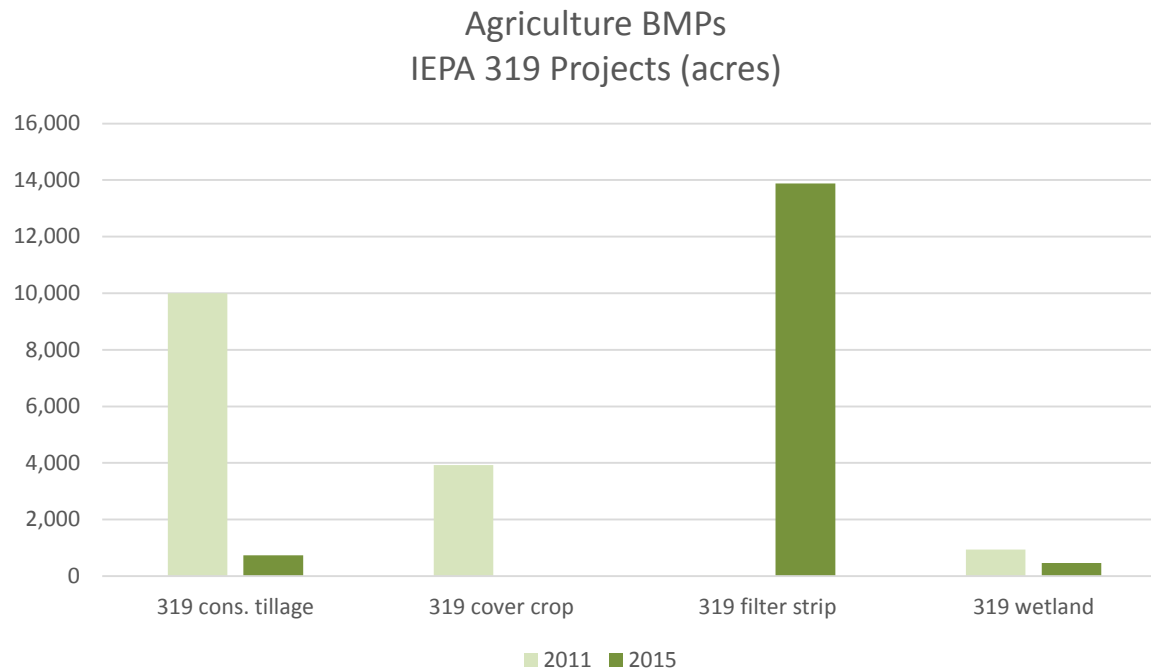


# Land and Facilities

	Data Source		
Practice	FSA	NASS	Illinois DNR
Cover Crops	 1340%	 87%	-
CRP/CREP Wetlands	 80%	-	 4581%
CRP/CREP Buffers	 92%	-	 8758%
P/E/P	 54%	-	 7360%

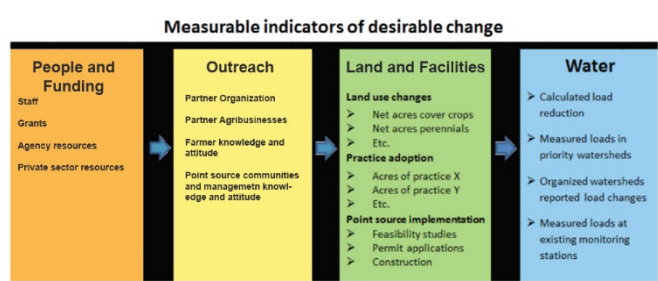
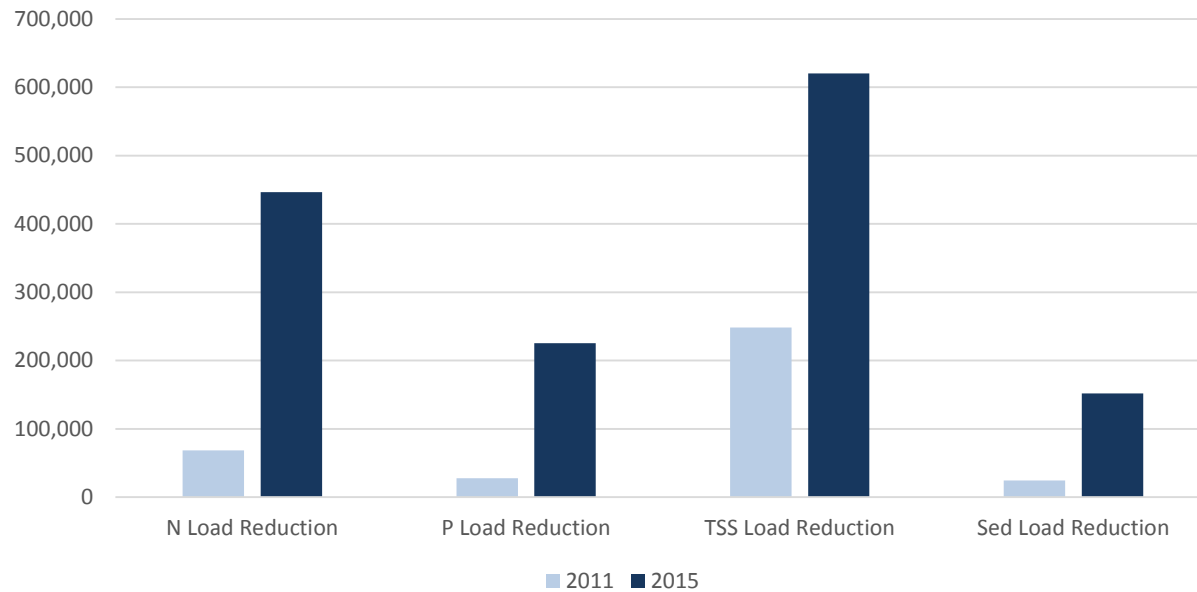
	2011 (acres)	2015 (acres)	Notes
FSA	1189575	1918230	cover crops, CRP wetlands, CRP buffers, P/E/P
NASS	910,000	1620000	cover crops, wetlands, and perennial energy crops
DNR	766	46545	CREP buffers, CREP wetlands, perennial energy

# Land and Facilities (IEPA 319 data)

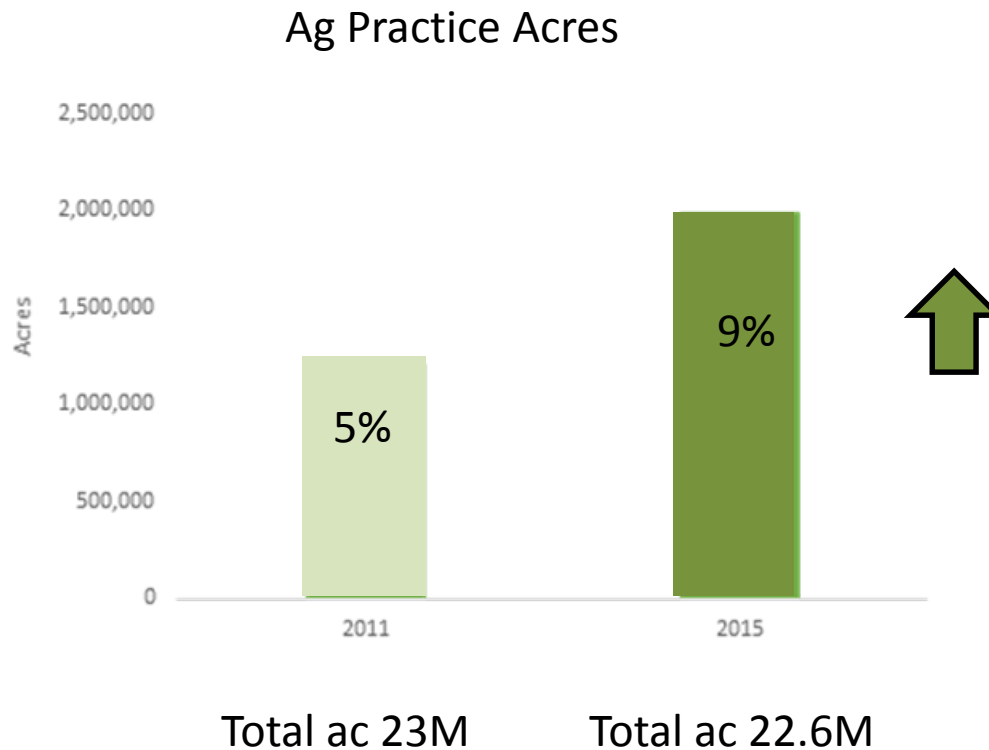


# Water (IEPA 319 data)

Agriculture Load Reduction (Estimated)  
IEPA 319 Projects (lbs/year)



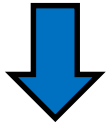
# Executive Summary



Note: Does not include NASS information to avoid double counting.

# Executive Summary

## Water Measures (David/McIssac/Mitchell)



Nitrate losses are decreasing  
likely due to improved agricultural N balances

Total P losses have increased  
possibly due to increased population/flow  
and MWRDGC facilities hadn't come on line  
at that time



# Timeline for Biennial report

APRIL 17: Review

AUGUST 30: Release report and fact sheet

# Winter Meeting Recap & Discussion



# NLRS Workshop



# NLRS Workshop

November 29-30

Northfield Inn, Springfield

# Workshop – Possible Topics

- Keynote: representative from Hypoxia Task Force
  - Bill Northey (IA Secretary of Ag) or USEPA staff
- Implementation Lessons Learned (Wisconsin, Minnesota, etc.)
- How IL stacks up to other states (presentations given at the Hypoxia Task Force meeting)
- Stakeholder Showcase
- Feedback from Policy Working Group:
  - Group interaction
  - Research
  - Hypoxia Task Force or Other state speaker

# Workshop – Possible Topics

- How do we aggregate and assess nutrient monitoring for the state? What should we be measuring?
- How do we aggregate and assess BMP adoption in the state?
- How do we put these two together?

# Comments from the Floor (time permitting)



*Photo by Ashley Rice, "Water Is..." Photo Contest*