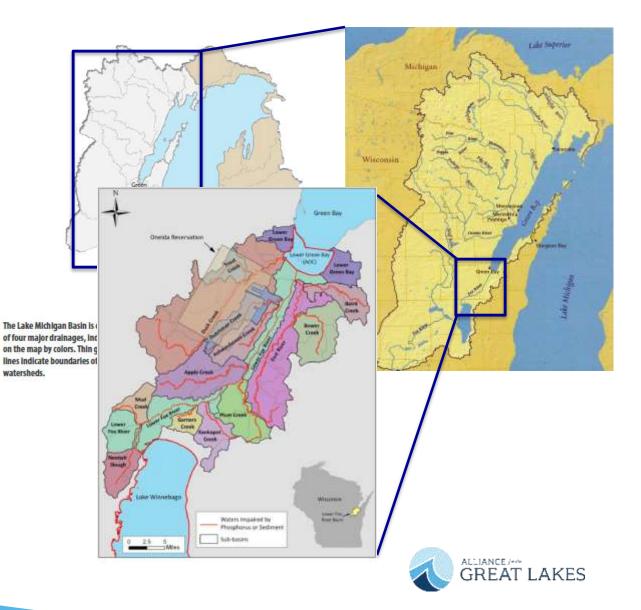


Lake Erie Water Quality Goals



Year	Proposed P Reduction Goals*		Water Quality Performance (% towards what TMDL deems as achieving water quality)	Objective (Target Narrative)
2020	20% reduction	3.9 million (lbs/year)	50% towards 2008 conditions	
2025	40% reduction	7.8 million (lbs/year)	Achieve baseline conditions from 2008	 Minimize hypoxic zones in central basin Maintain algal species consistent with healthy systems where that is a localized problem Maintain cyanobacteria at levels that do not produce concen. of toxins that pose threat to human and eco

Green Bay and the Fox River



LFR Total Load and Sources

Phosphorus

Table 6. Sources of baseline TP loading in the LFR Basin

Source	Total Phosphorus (lbs/yr)
Natural Background	5,609
Agriculture	251,382
Urban (non-regulated)	25,960
Urban (regulated MS4)	65,829
Construction Sites	7,296
General Permits	2,041
Industrial WWTFs	114,426
Municipal WWTFs	87,160
TOTAL (in-basin)	549,703
Lake Winnebago	716,954
TOTAL (in-hasin + Lake Winnebago)	1,286,657

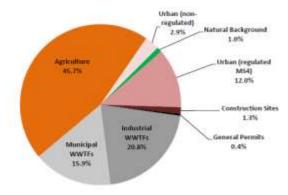


Figure 19. Sources of baseline TP loading in the LFR Basin

Sediment

Table 7. Sources of baseline TSS loading in the LFR Basin

Source	Total Sespended Solids (lbs/yr)	Total Soopended Solids (mt/yr)
Satural Background	1,264,433	574
Agriculture	93,101,945	42,230
Urban (non-regulated)	4,491,399	2,037
tirban (regulated MS4)	81,505,733	14,291
Construction Sites	7,015,420	2,182
General Permits	616,532	260
Industrial WWTFs	2,435,778	1,105
Municipal WWTFs	1,170,510	531
Notic Selies	54,833,097	15,800
TOTAL (in-basin)	176,434,787	80,030
Lake Winnebago	127,397,076	57,788
TOTAL (in-basin + Lake Winnehage)	101,811,803	137,816

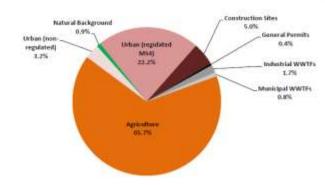
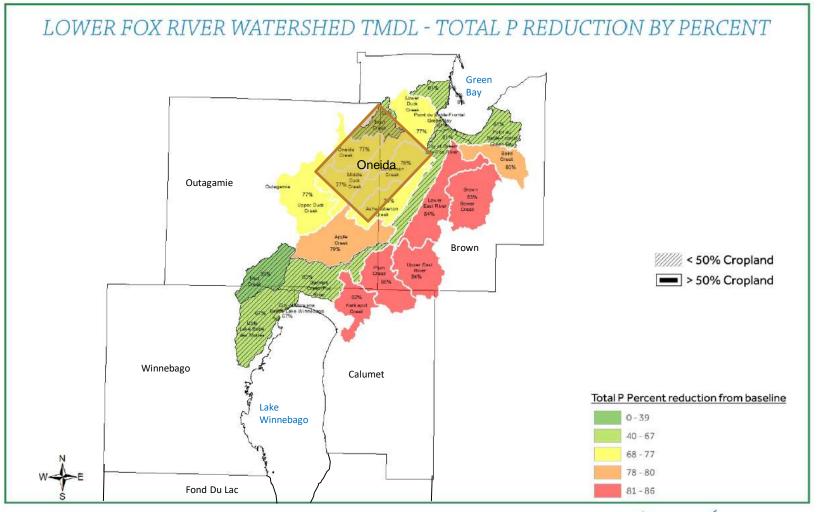


Figure 20. Sources of baseline TSS loading in the LFR Basin (excluding biotic solids)

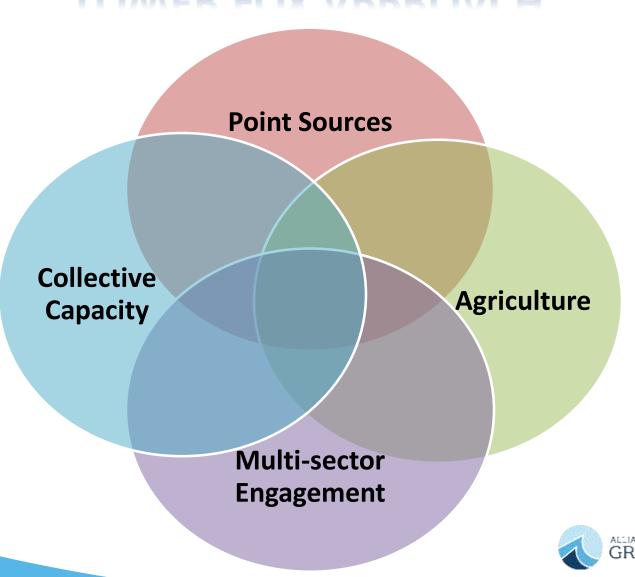




delta institute / FRAMEWORK FOR PRIORITIZATION OF ACTION AREAS FOR THE AMO IN THE LOWER FOX RIVER WATERSHED



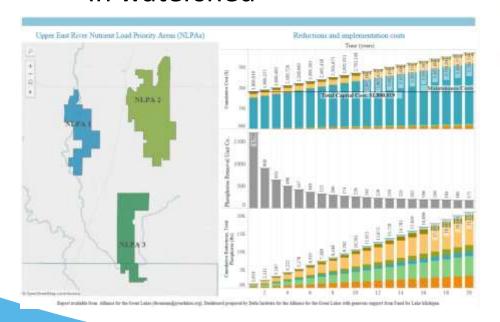
LOWER FOX APPROACH

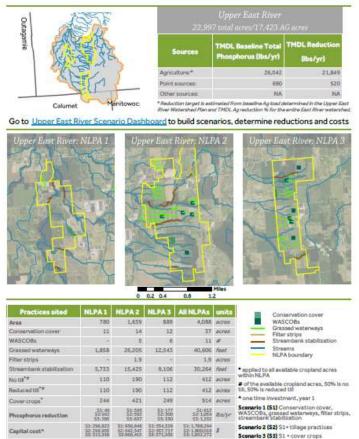


Point Sources

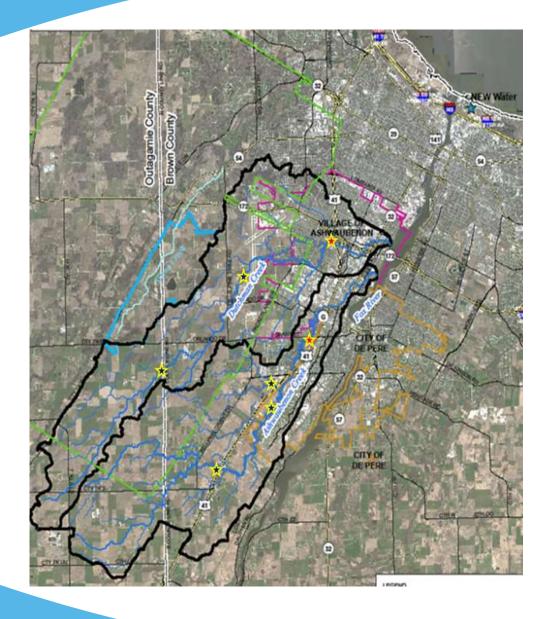
Compliance option prioritization:

- Quantify reductions and costs
- Cost-benefit analysis to work in watershed









Ashwaubenon-Dutchman Creek

~ 38,000 acres total |

~ 20,000 acres Agricultural

Dutchman Creek

•Watershed Size: 19,186 acres

•Land Use: Ag 50.5%

•Creek Length:~18.2 miles

Ashwaubenon Creek

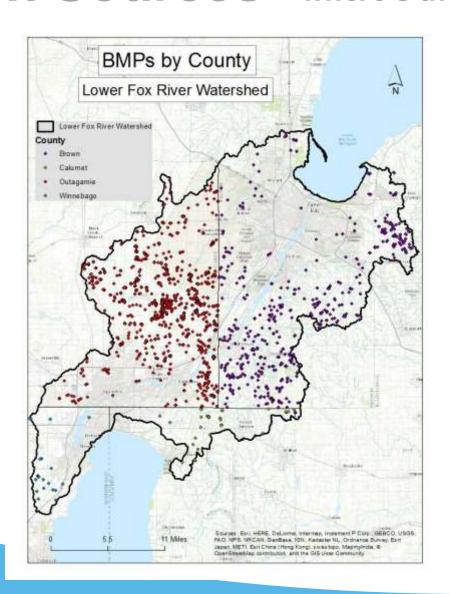
•Watershed Size: 18,528 acres

•Land Use: Ag 61.9%

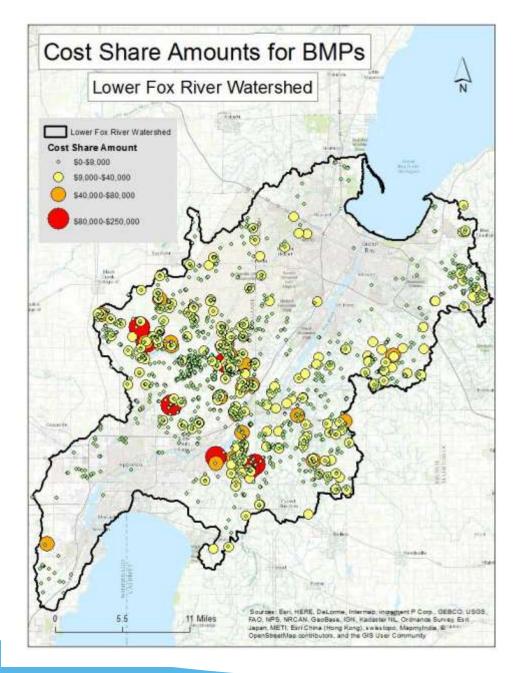
•Creek Length:~20.4 miles



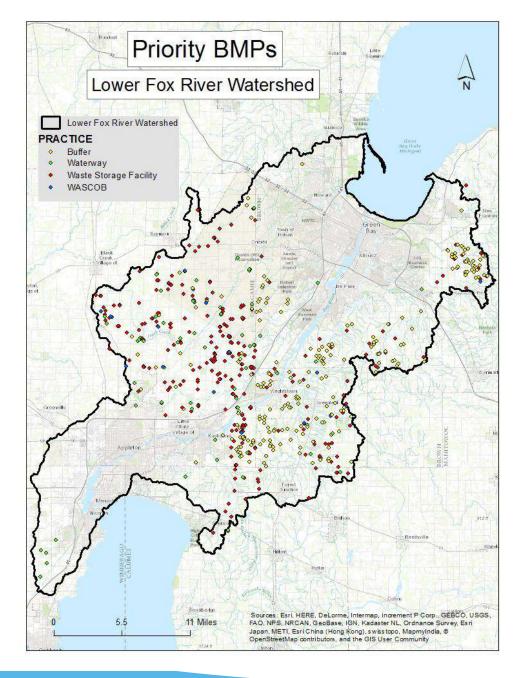
Point Sources - where's the investment been?





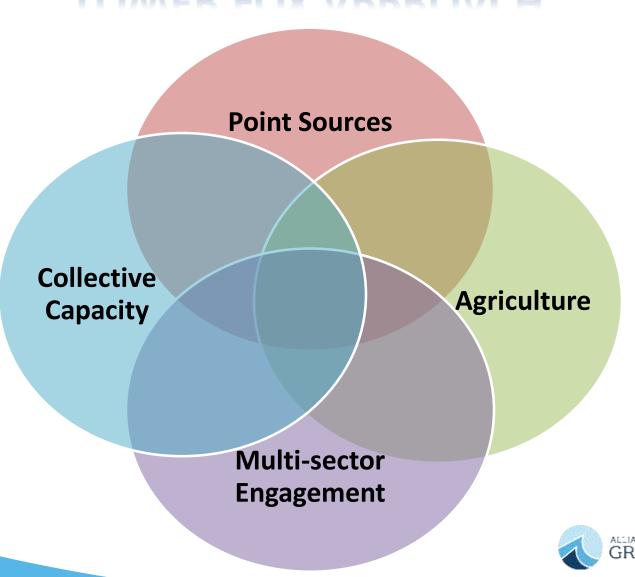








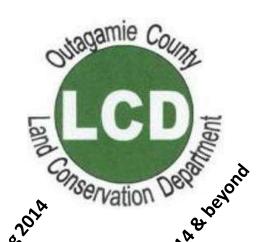
LOWER FOX APPROACH



Agriculture – Social Factors and Conservation Behavior Survey







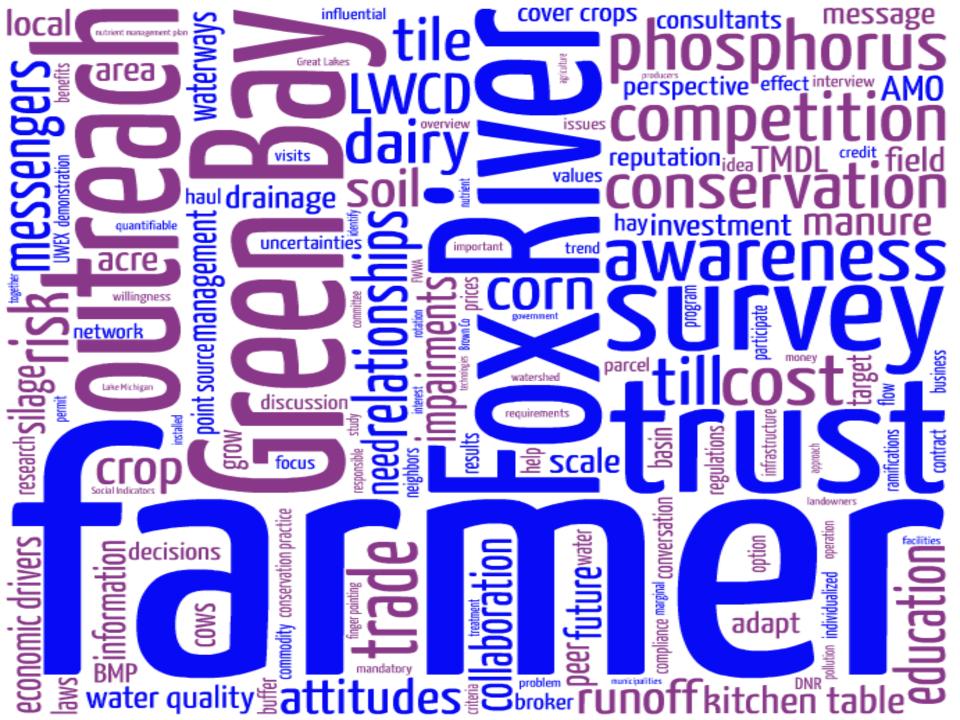
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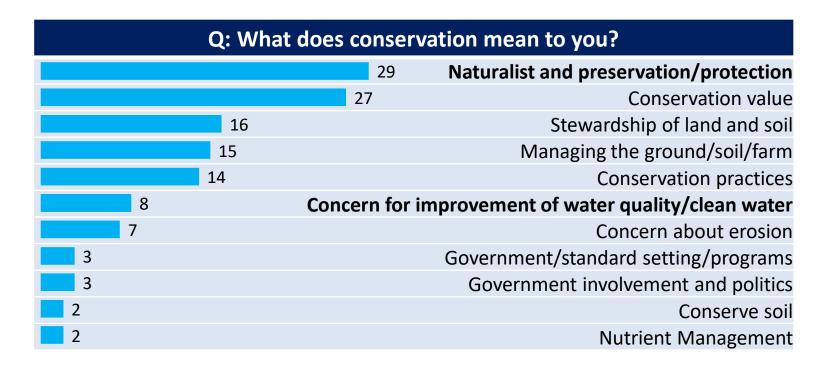
Visits with partner checkins a

Survey and the tree times of the strings





VALUE OF LAND AND WATER RESOURCES



OTHER TAKE-AWAYS:

- Perception visible features
- High value place on natural resources:
 - 90% improving water quality is important
 - 80% meet water quality standards for their community
- Connection between their land and downstream impacts is missing

CONSERVATION-MINDEDNESS



"Yes, not all about money, community matters, we have to live here.
Incentives do give a boost to promote practices, to try it then it may become an accepted practice"

"We would do without payment & have in the past"



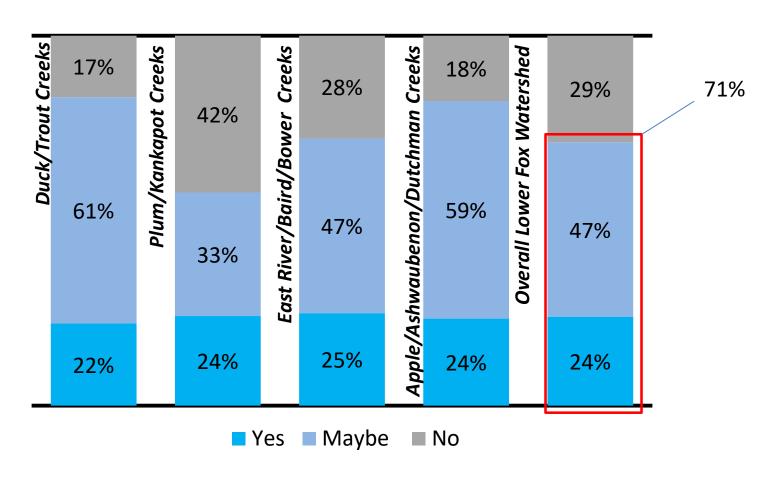
"Possible, if there is a problem you don't want it to continue. Being responsible"

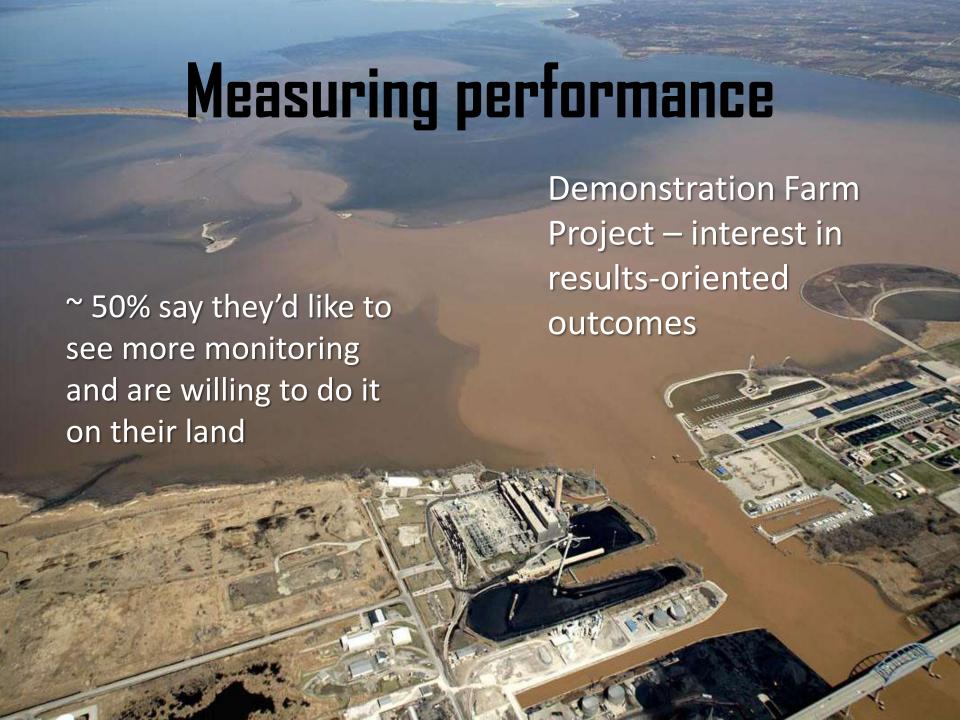
"If the extra dollars has payback or if it will cause pollution or a problem"

70% - Yes and maybe

Engagement and Partnerships

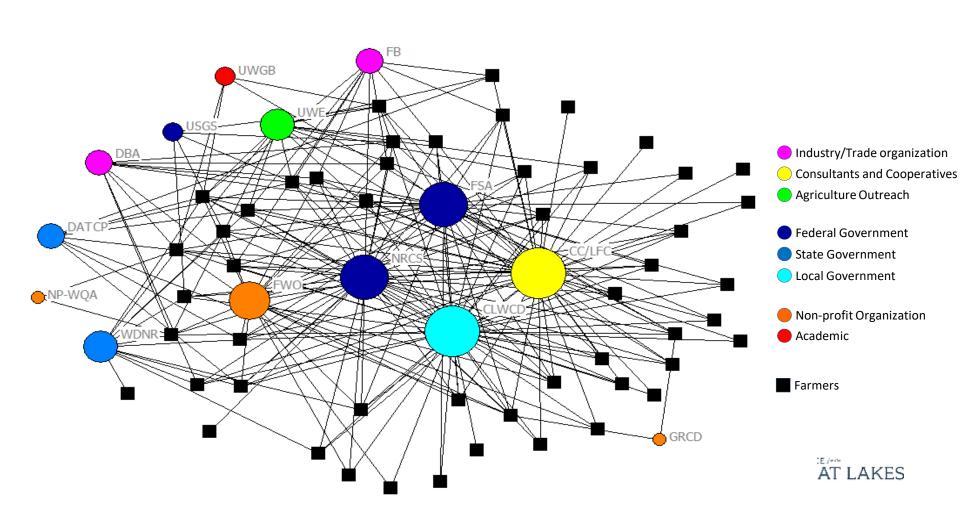
Contracts with wastewater treatment plants and industry



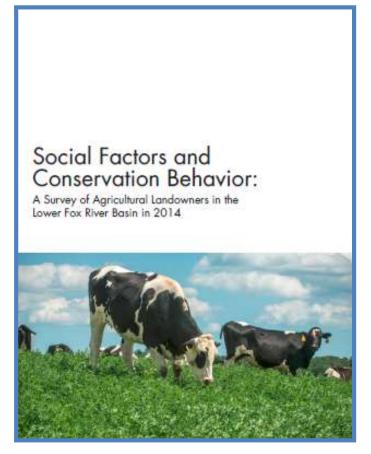


Information/communication:

Most important organizations for water quality information



Agriculture



- Survey Summary
- Outreach Plan

- HUC12 Farmer Meetings
- Conservation Profiles of farmers
- Farmer's in planning
- Newsletter

	Wednesday, January 27th	2
for a Farmer	Luncheon and Runoff	The second second
Roundtable fro	om 12-2:30 PM (location	
	TBD)	7.75
For more informa	tion, please call Brent Petersen,	100
	ns Project Manager, at (920) 391-	
	4643.	100
Do you have any sug	gestions for other topics?	-
		OF THE PERSON NAMED IN
Do you have sugges	tions for speakers? If so, who and	
for what topic?	nors for specimens, it so, into one	
Speaker	Topic	10000
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Is there anything else	that would increase your interest	14 - See 14 -
in attending this ever		
		2000年
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Agriculture

Fox Watershed Farmer Roundtable



Inspiring Action . Improving Farms . Restoring our Water

Thursday, January 24, 2019 10:30am-4:00pm Liberty Hall, Kimberly, WI

Join us for the 4th Annual Farmer Roundtable!

- Meet Keynote Speaker Jill Clapperton PhD, Principal Scientist, Rhizoterra Inc. Jill is an internationally recognized lecturer on how to create and manage the long-term health and productivity of soils.
- · Participate in a Local Farmer Panel and Breakout Discussions
- Explore Local On-farm Case Studies and Demonstrations
- This Free Event Includes Lunch and a Happy Hour from 4-5pm!



















Agriculture

Perennial Forage Project:

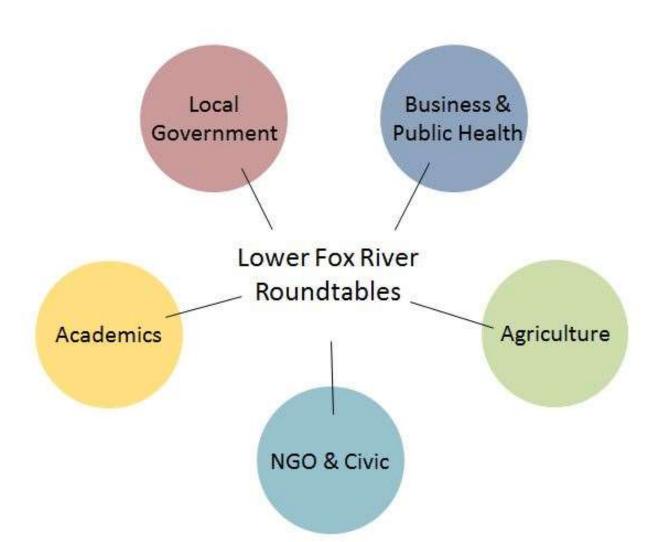
 Technical assistance, cost sharing, and outreach to increase the number of acres in a multispecies perennial forage.



 Targeting high priority acres to provide benefits for the producer and improve water quality.

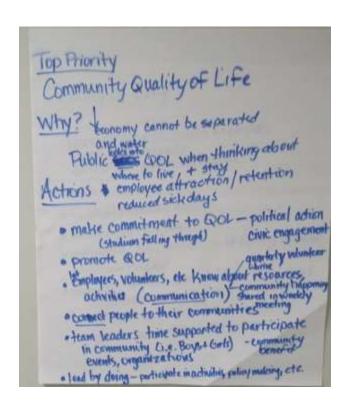


Multi-sector Engagement





Multi-sector Engagement





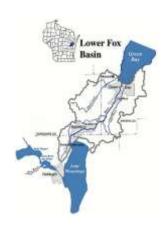
Business and Health Roundtable





By 2030, we will achieve significantly cleaner water, supporting healthier communities, and resilient economies through coordinated regional collaboration in the Lower Fox River and Green Bay





Lower Fox Basin Leadership Council

The Basin Leadership Council, a stakeholder advisory group, established to inspire and guide collective action towards achieving a Clean Water Agenda for the Lower Fox River and Bay of Green Bay.

- Lower Fox Basin coordination and leadership
- Multi-sector participation
- Strategic approach & clear metrics for success
- Championing cause

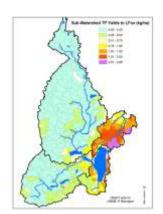


LFR Water Quality Goals

Year	Proposed P Reduction	Water Quality	
		Performance (% towards what TMDL deems as achieving water quality)	
2030	30% reduction	164,911 (Ibs/year)/ 75 MT	50%
2040	60% reduction (per TMDL)**	325,402 (lbs/year)/ 148 MT	100%

- *none of this includes internal loading (i.e. suspended sediment), this is just what's coming out of the LFR watersheds for Ag and Urban nonpoint, point sources, etc.
- **Adaptive Target: will need to be reassessed adaptively based on status and climate modelling





Goal



By 2030, we will have cleaner and safer water by reducing 30% of the P pollution entering from the Lower Fox River Watershed.

By doing so, we will see significant reductions in dead zones, algae outbreaks, sediment plumes, and nutrient pollution. As a result, we will see healthier wildlife, improved recreation, less dredging and healthier soils. We also believe this represents significant momentum toward ultimately achieving the TMDL goal for water quality by 2040.















NE Wisconsin Water Quality Pact:

Executives signed in March 2019 at FWWA Conference, committing them to:

- 1. Prioritize water quality in decision making
- 2. Draft and adopt goals, target dates and metrics
- 3. Establish sub-basin management plans and governance programs



Recommendations



- 1. Aspiration & Strategy
- 2. Management and Accountability
- 3. Sufficient Funding
- 4. Diverse Funding Sources & Incentives
- 5. Shifting the WI Agriculture Brand











