Fox-Wolf Basin

Regional Coordination

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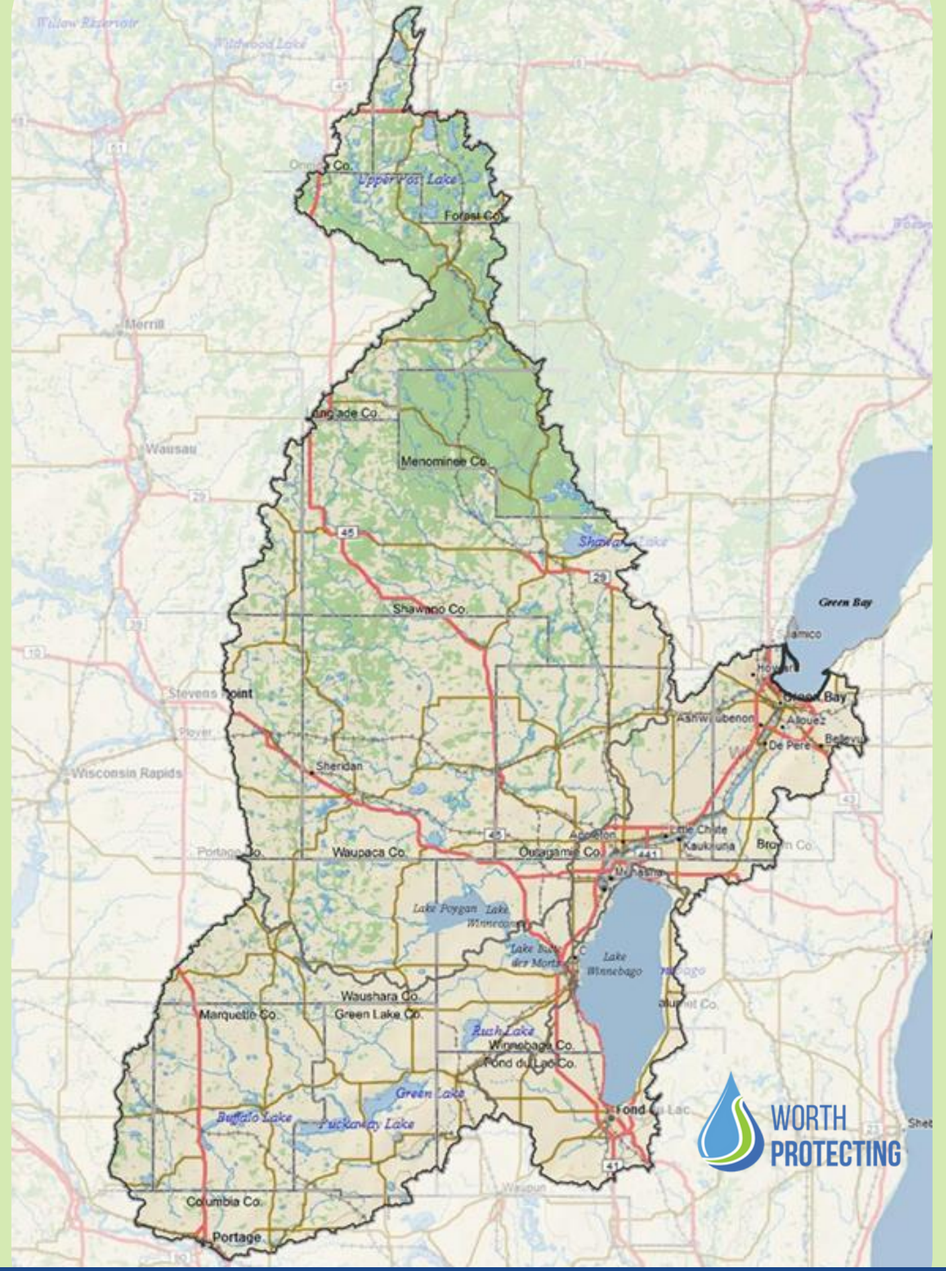
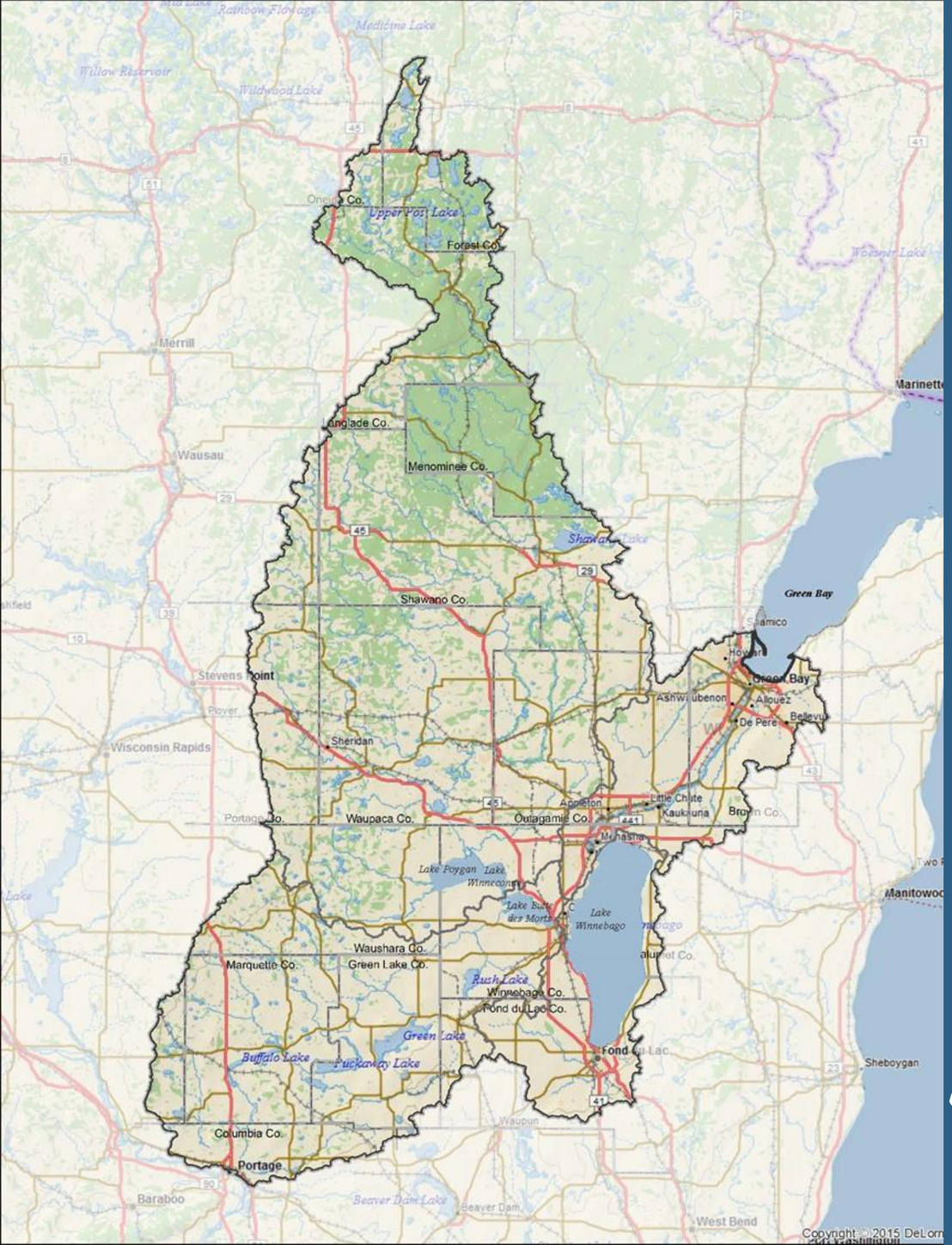


FOX-WOLF WATERSHED ALLIANCE

WORKING TO TO PROTECT, RESTORE, AND SUSTAIN THE WATER RESOURCES OF THE FOX-WOLF RIVER BASIN



FOX-WOLF RIVER BASIN

The largest drainage basin to Lake Michigan
The 3rd largest to the Great Lakes

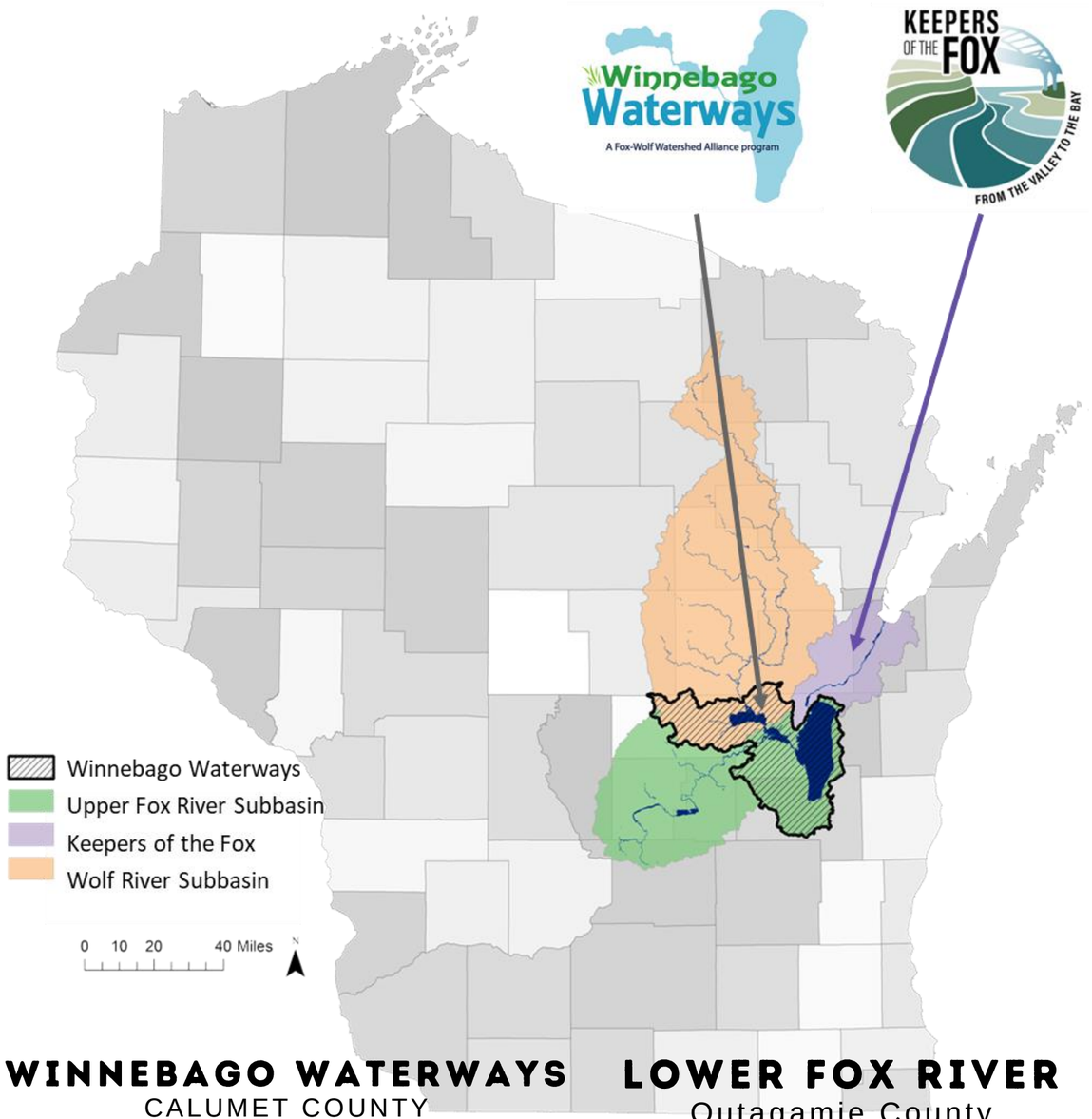
Drains >6,500 square miles

Lake Winnebago/Miller's Bay
Photo Credit: Oshkosh Convention & Visitors Center

Fox River and Bay of Green Bay through Green Bay
Photo Credit: Steve Ryan

Harmful Algal Blooms
plague the Winnebago System, Fox River
and the Bay of Green Bay during the summer months

REGIONAL RECOVERY COORDINATION



WINNEBAGO WATERWAYS

CALUMET COUNTY
Fond du Lac County
Waushara County
WINNEBAGO County

LOWER FOX RIVER

Outagamie County
Brown County
Oneida Nation

✓ Develop cohesive watershed strategic plans to guide multi-partner efforts and build support

Fox-Wolf fills in coordination gaps differently in different areas of the basin. Things we do:

- Work with County staff, other NGOs, communities or individual residents to identify needed projects, seek funding and manage grants.
- Conduct outreach to build/sustain community support
- Engage elected officials and decisions makers
- Build capacity within Fox-Wolf & Partners
- Conduct monitoring
- Coordinate at multiple levels to effieciently develop solutions at a regional scale

Things we are just beginning:

- Report out on progress
- Build long term private support

Base Funding for Regional Recovery Coordination through Fox-Wolf provided by annual contribution from listed partners.

FOX-WOLF WATERSHED ALLIANCE

Regional Recovery Coordination efforts are supported by topic -based programs

FOX-WOLF WATERSHED ALLIANCE

Winnebago Waterways
A Fox-Wolf Watershed Alliance program

KEEPERS OF THE FOX
FROM THE VALLEY TO THE BAY

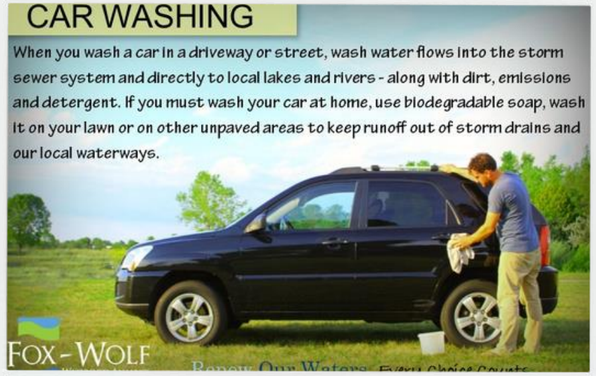
A wholistic approach to watershed management allows us to engage residents in understanding the problems and the need for everyone to be a part of the solution.

- Urban Stormwater Education
- Agriculture Conservation
- Streambank & Shoreline Restoration
- Water Level Management
- Aquatic Plant Management
- Aquatic Invasive Species Prevention

URBAN STORMWATER

Supporting Northeast Wisconsin MS4s through the Northeast Wisconsin Stormwater Consoritum (NEWSC)

School Age Education



Urban Resident Education

Exhibiting

46 MS4 members
17 Stormwater Business Partners

- Coordinate NEWSC Meetings
- Coordinate Trainings for Municipal Staff and Audiences identified in the MS4 permit
- Educate & provide volunteer opportunities for residents

Annual Conference

Trainings & Workshops

Urban Stormwater program is supported by NEWSC

AQUATIC INVASIVE SPECIES

Prevention Outreach and Education

Clean Boats, Clean Waters

School Age Programs

Adopt-a-Launch

New findings Outreach

WISCONSIN DEPT. OF NATURAL RESOURCES

The AIS program is supported by the WDNR Lake Monitoring Protection Network through 5 Counties - Brown, Calumet, Fond du Lac, Outagamie and Winnebago

AIS Snapshot Day

Annual Campaigns

Exhibiting

AIS is a great entry point to engage residents in conversations about water quality

VOLUNTEER ENGAGEMENT

Opportunities to get involved - Individuals, Families, and Groups!

Shoreline Workcrew

Water Quality Monitoring

Adopt-a-Launch

Annual Watershed Cleanup

Grow Native Plants

Office Support/Data Entry

Clean Boats, Clean Waters

Small Group Cleanups

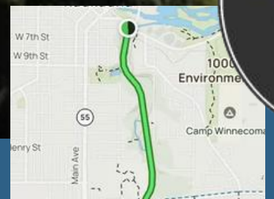
SHORELINE RESTORATION

Working with shoreline property owners to install BMPs

Demonstration Sites - Columbia Park, Fond du Lac County & Marble Park, Winneconne
New Demonstration Site coming to the East Shore of Lake Winnebago in 2025!

Shoreline Restoration is a great tool to engage lake shore property owners!

STREAMBANK RESTORATION



Prioritizing restoration of highly visible streambank sites to increase support for upstream conservation work.

PLUM & KONKAPOT CREEK WATERSHEDS

LESS THAN 1000 FEET AWAY, THE WATERS OF KANKAPOT CREEK DELIVERS EXCESS NUTRIENTS AND SEDIMENT WITH THE LOWER FOX RIVER.

Clean water is everyone's business. We can all be part of the solution. Upstream from this location, agricultural landowners are making changes to reduce pollution entering these waters.

WHAT ARE THE ISSUES?

A watershed is an area of land that is drained by a river system. Precipitation that falls within the boundaries of the Plum and Konkapot Creek Watersheds (as seen on this map) will either infiltrate into the ground or become surface water runoff, also known as stormwater runoff. Surface water runoff across the watershed land mass through ditches, tributaries creeks and streams allow it to find and transport pollutants very efficiently.

The Plum & Konkapot Creeks drain a watershed of XXXX acres. The watershed it utilized for residential, agricultural, industrial, municipal and many other land uses. Pollutants such as Nitrogen, Phosphorus and sediment from residential, agricultural, industrial and municipal sources find their way into these creeks and ultimately the Lower Fox River. These pollutants alter riverine ecosystems and cause biological problems due to increased water temperatures, sedimentation, algal blooms, eutrophication and oxygen depleted areas.

Agricultural producers are working hard to help reduce pollutants in the Plum & Konkapot Creeks... HERE'S HOW!

1. Constructing engineered wetlands to treat agricultural runoff before entering waterways
2. Promoting agricultural conservation practices to improve water quality
3. Stabilizing phosphorus-rich streambanks prevents sediments and nutrients from entering waterways
4. Sharing innovative equipment to promote agricultural conservation practices and improved manure management
5. Monitoring the effectiveness of agricultural conservation practices.

To learn more, visit: www.fwwa.org

This Sign was Created and Donated by Graphics Composition, Greenville, WI

You Are Here

Agricultural Solutions

1. Engineered Treatment Wetlands

Agricultural stormwater runoff is collected and filtered through a man-made wetland to remove sediment and allow plants to remove excess nutrients like phosphorus and nitrogen

2. Agricultural Conservation Practices

- COVER CROPS provide fields with biomass year-round to prevent erosion, promote soil health, and reduce fertilizer needs
- NO-TILL farming practices prevents erosion and promotes soil health
- Planting BUFFER STRIPS along water courses helps reduce nutrient and sediment loading
- GRASSED WATERWAYS removes sediment and nutrients from stormwater runoff

3. Streambank Stabilization

Stabilizing phosphorus-rich streambanks prevents sediment and nutrients from entering waterways.

4. Innovative Agricultural Equipment

- Inter-seeding and air-seeding allow cover crops to be planted efficiently
- Manure injecting and side dressing provide nutrients to plants where they need it most

5. Water Quality Monitoring

Strategically placed monitoring stations track sediment and nutrient reductions and show the effectiveness of agricultural conservation practices.

Project Partners Working Together to Improve Water Quality by reducing Sediment and Nutrient Loading into the Lower Fox River Area of Concern

Fox-Wolf Watershed Alliance · Outagamie County · The Nature Conservancy · University of Wisconsin Green Bay · Great Lakes Commission des Grands Lacs

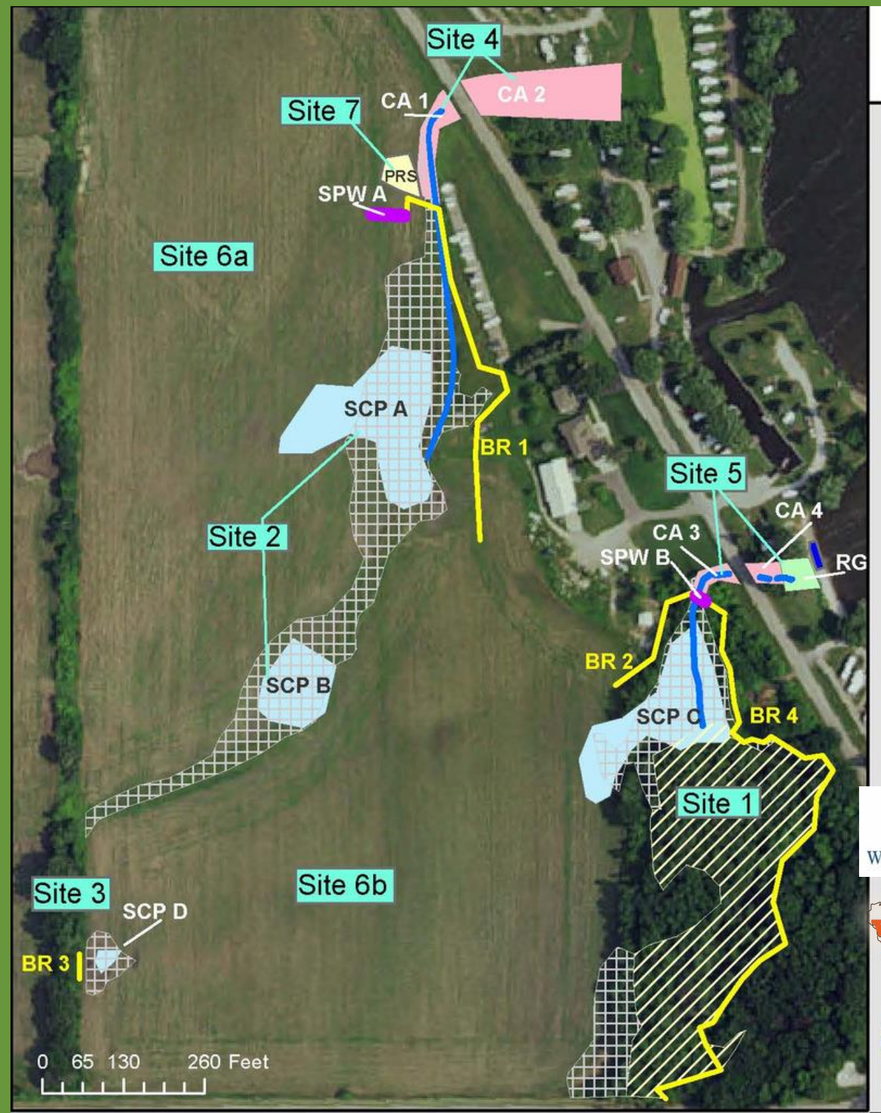
Project funding provided by Great Lakes Restoration

AG IMPLEMENTATION
WETLAND RESTORATION

~33 acres of wet meadow, hardwood-swamp, and grassy meadow restored from its previous agricultural use to a natural state with native vegetation to protect the environment, wildlife, and waterways.

Site 1: Wooded Wetland (3.38 acres)
Site 2: Large Wet Meadow (2.33 acres)
Site 3: Small Wet Meadow (.11 acres)
Site 4: Creek Restoration North (0.03 acres)
Site 5: Creek Restoration South (0.22 acres)
Site 6: Grassy Meadows (27 acres)
Site 7: Phosphorus Removal System (potential)

Great Demo project to showcase how Private/Public Partnerships can work together to achieve greater results!



KALBUS COUNTRY HARBOR RESTORATION

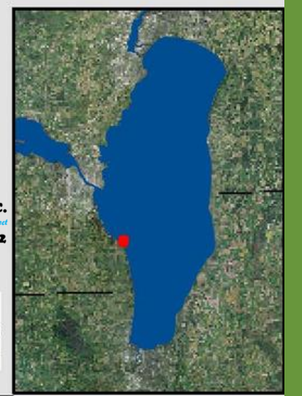
Project Sites:

SITE 1: Wooded Wetland
SITE 2: Wet Meadow
SITE 3: Small Wet Meadow
SITE 4: Creek Bed Restoration North
SITE 5: Creek Bed Restoration South
SITE 6: Grassy Meadow
SITE 7: Phosphorus Removal System

N

Legend:

- Waterbody
- Fresh (Wet) Meadow
- Hardwood Swamp
- Spillway (SPW)
- Berm (BR)
- Creek Area (CA)
- Raingarden (RG)
- Scrape (SCP)



Winnebago County

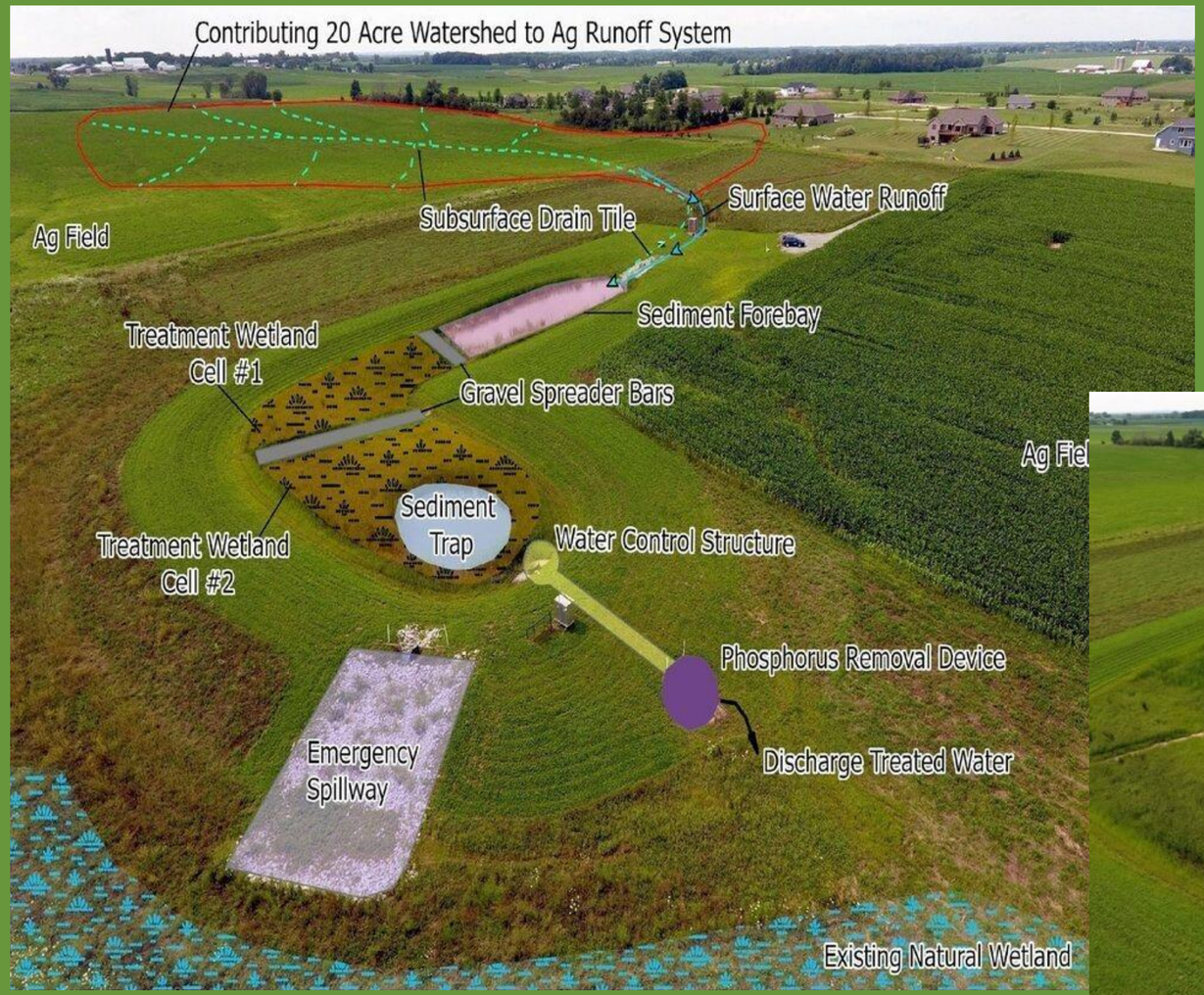
Wisconsin Waterfowl Association
dedicated to the conservation of Wisconsin's waterfowl and wetland resources

TEAM SNW, LLC.
Wetland Restoration Project
920-426-0062

Winnebago Waterways

FOX-WOLF WATERSHED ALLIANCE

AG IMPLEMENTATION AGRICULTURAL RUNOFF TREATMENT SYSTEMS (ARTS)



Structual Storage solution for increasing storage capacity on the land in a smaller footprint than traditional wetland restoration.

Outagamie County Est. 1851

JEREMY FREUND

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AG IMPLEMENTATION

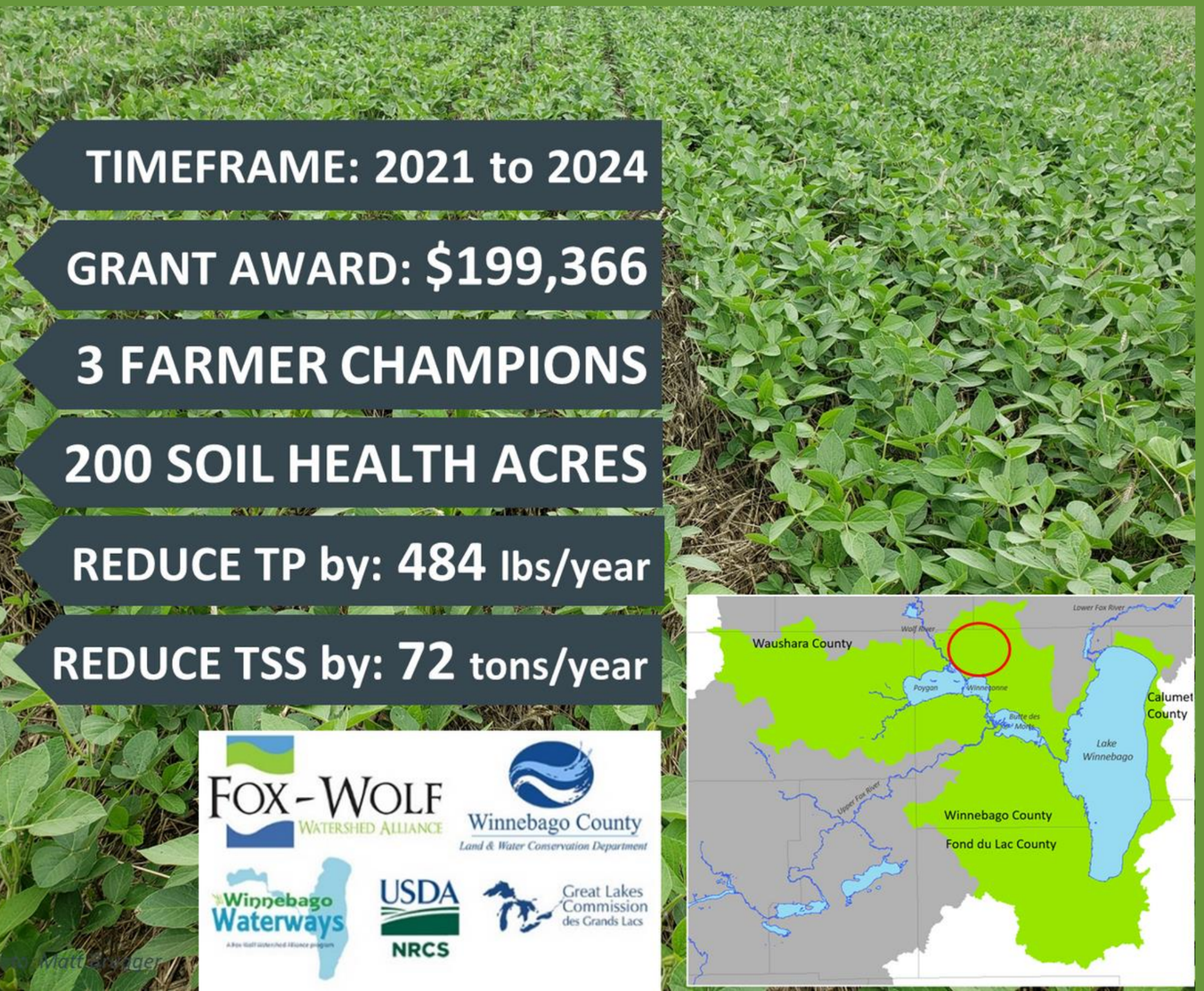
SOIL HEALTH THROUGH CONTINUOUS COVER SYSTEMS




Cover Crop ~ No-Till ~ Low Disturbance Manure Application

Implementing in the highest priority watersheds in partnership with the counties
Finding win-win solutions for farms and water quality

RAT RIVER WATERSHED - GLSNRP PROJECT



TIMEFRAME: 2021 to 2024

GRANT AWARD: $199,366

3 FARMER CHAMPIONS

200 SOIL HEALTH ACRES

REDUCE TP by: 484 lbs/year

REDUCE TSS by: 72 tons/year

Implementing in the highest priority watersheds in partnership with the counties
Finding win-win solutions for farms and water quality

Project Highlights

New Farmer Led Group & Increased County Support for Full Time Staff

AG IMPLEMENTATION FARMER OUTREACH & RESOURCES

Successful implementation requires increased farmer outreach, one-on-one agronomy support and access to needed equipment.

Field Signage

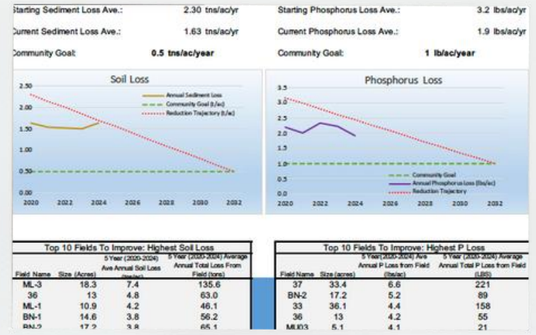
Farmer Champions

Demo Field Days

Equipment

Annual Farmer Roundtable

Semi-annual Newsletter



Farm Progress Report

AG IMPLEMENTATION COUNTY STAFF TRAINING/SUPPORT

Basin Agronomy Team

Successful implementation requires training and support for new conservation staff, ability to transfer knowledge throughout the region quickly and working together to overcome implementation hurdles.

EXPANDING AG IMPLEMENTATION

PARTNERS

Counties:

Brown
Calumet
Fond du Lac
Outagamie
Shawano
Waupaca
Waushara
Winnebago
Wisconsin Farmers Union
Pheasants Forever
Utah State University

Funding:

USDA Climate Smart

$4,994,088 Direct Award

$7,910,165 Subaward from Edge Dairy Cooperative

FOX-WOLF WATERSHED ALLIANCE RECIEVED 2 AWARDS TOTALING $12.9M

FOX-WOLF WATERSHED ALLIANCE

2 Awards:
Separate but complimentary

FOX-WOLF AGRONOMY SUPPORT

SUBAWARD OF EDGE DAIRY COOPERATIVE

- **8 AGRONOMY STAFF**
- **8 COUNTIES**
- **WHOLE BASIN**
- **NEW EQUIPMENT**
- **FARM PROGRESS REPORT**
- **$2.7M IN COST SHARE**

PARTNERS:

Brown, Calumet, Fond du Lac, Outagamie Shawano, Waushara, Waupaca, Winnebago

FOX-WOLF CLIMATE SMART COMMODITIES

DIRECT AWARD

- **SMALL & UNDERSERVED FARMERS**
  ADDITIONAL STAFF AT WI FARMERS UNION
- **PRECISION AG ANALYSES**
  ADDITIONAL STAFF AT PHEASANTS FOREVER
- **REGIONAL CLIMATE RESOURCE**
  ADDITIONAL STAFF AT OUTAGAMIE CTY
- **CLIMATE SMART PRODUCE**
- **MILK NUTRITION STUDY**
- **$1.6M IN COST SHARE**

PARTNERS:

Outagamie, Wisconsin Farmers Union, Pheasants Forever, Utah State University

Questions?

Thank you!

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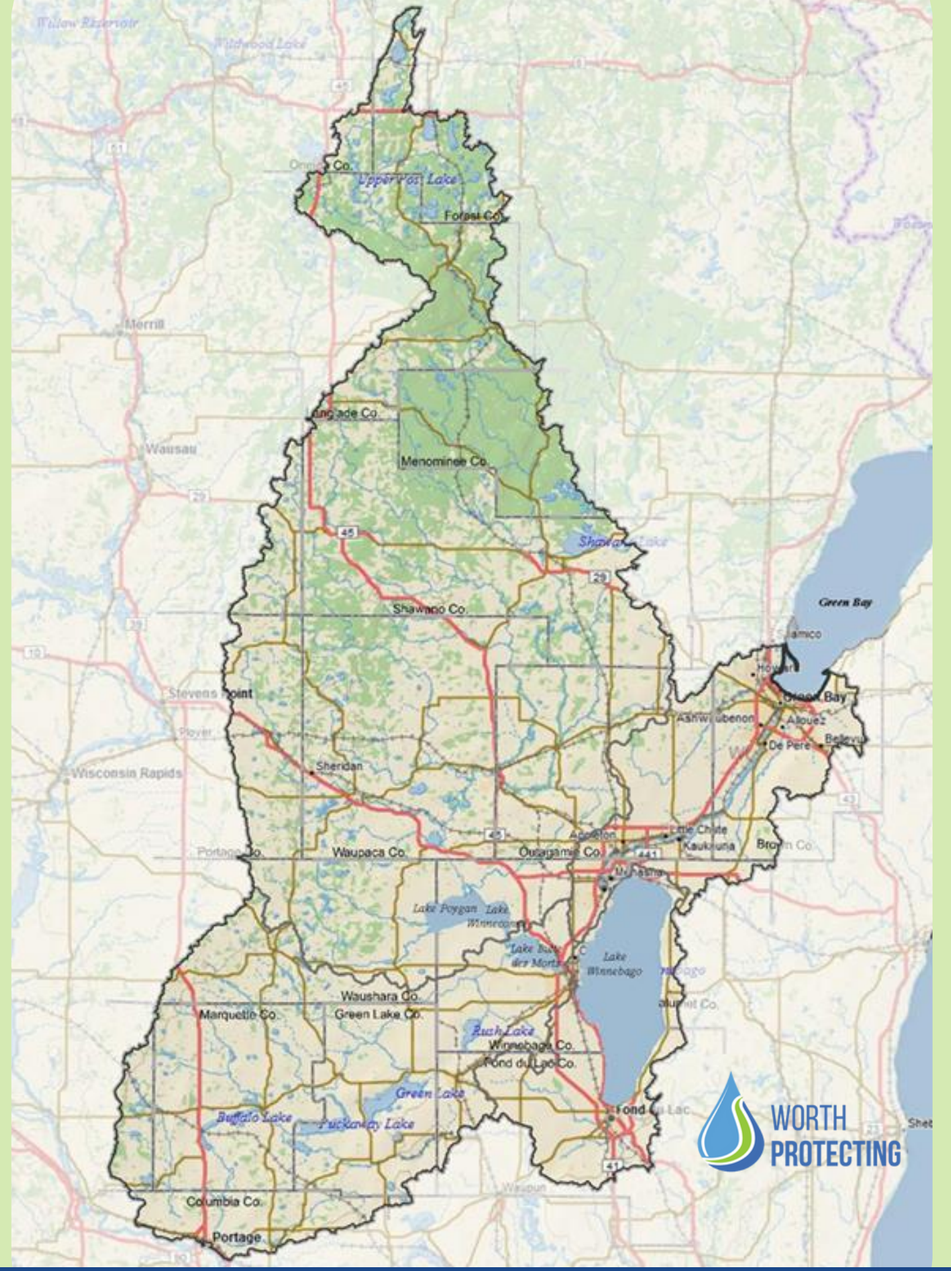

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