ROCK COUNTY LAND CONSERVATION DEPARTMENT TOTAL
MAXIMUM DAILY LOAD IMPLEMENTATION PROGRAM

CHRIS MURPHY
CONSERVATION SPECIALIST
WHAT IS THE BEST OPTION?

WATER QUALITY TRADING

• Pay landowners to reduce phosphorus runoff
• Compliance is determined by comparing credits generated to permit discharge limit
• Details of best MGMT practices must be specified prior to effective date of permit
• Must use trade ratios
• Best for permits with smaller required phosphorus reductions

ADAPTIVE MANAGEMENT

• Pay landowners to reduce phosphorus runoff
• Compliance is determined by reduction of in-stream phosphorus concentrations
• Details of best MGMT practices are not required prior to effective date of permit
• No trade ratios
• Best for permits with large required phosphorus reductions
BEST MANAGEMENT PRACTICES
BEST MANAGEMENT PRACTICES
ROCK COUNTY WATER QUALITY TRADING

- Met with City of Beloit Water Resource Division to explain options for P reduction.
- Formed partnership with the City in Summer of 2019 for the purpose of reducing the amount of phosphorus (1800 lbs/year) discharged into the waters of the Lower Rock River Watershed and Spring Brook – Turtle Creek Watershed.
- Met with WDNR to discuss proposed plan in Fall of 2019 and Winter of 2020.
- Plan to present final plan to WDNR Spring of 2020.
ROCK COUNTY WATER QUALITY TRADING

• INTERGOVERNMENTAL AGREEMENT BETWEEN CITY OF BELOIT AND ROCK COUNTY LAND CONSERVATION DEPARTMENT (LCD) FOR PURPOSE OF PROVIDING FUNDING FOR STAFF COSTS; BMPS INSTALLATION AND MAINTENANCE; P REDUCTION MODELING.

• PRIVATE CONSULTANT UTILIZED FOR MODELING CURRENT DISCHARGE FROM SITE, DEVELOPING APPLICATION AND PLAN.

• CITY OF BELOIT PAYS FOR INSTALLATION OF BEST MANAGEMENT PRACTICES (BMPS) TO REDUCE AGRICULTURAL STORM WATER RUNOFF IN EXCHANGE GETS CREDIT FOR PHOSPHORUS REDUCTION. GOAL > $50/LB OF P

• CITY OF BELOIT ENTERS INTO AGREEMENTS WITH LANDOWNERS TO PROVIDE PAYMENT FOR INSTALLATION AND MAINTENANCE OF BMPS. LANDOWNER RECEIVES TOTAL PAYMENT FIRST YEAR OR PAYMENT MAY BE DIVIDED INTO 3 PAYMENTS STARTING FIRST YEAR. AGREEMENTS ARE RECORDED ON LAND DEED AT COUNTY REGISTER OF DEEDS

• FILTER STRIPS, GRASSED WATERWAYS, CONTOUR STRIPS = $450 / ACRE; CONSERVATION EASEMENT = $300 / ACRE; STREAMBANK AND BARNYARD ITEMS PAY 100% OF COSTS SO LONG AS UNDER $50/LB OF P.

• LANDOWNER MAINTAINS LAND USE CONTROL – (I.E. ABLE TO HARVEST PERENNIAL VEGETATION FOR FORAGE)
The Yahara Watershed Improvement Network (YAHARA WINS), was formed in 2012.

Partners in YAHARA WINS include cities, villages, towns, wastewater treatment plants, environmental groups and others.

Formed for the purpose of reducing the amount of phosphorus discharged (22,879 LBS PER YR) into the waters of the Yahara River Watershed.
ROCK COUNTY YAHARA RIVER ADAPTIVE MANAGEMENT

- **YAHARA WINS** PAYS FOR INSTALLATION OF BEST MANAGEMENT PRACTICES (BMPS) TO REDUCE AGRICULTURAL STORM WATER RUNOFF IN EXCHANGE GETS CREDIT FOR PHOSPHORUS REDUCTION. **GOAL** > $50/LB OF P

- **PRIVATE CONSULTANT** UTILIZED FOR MODELING CURRENT DISCHARGE FROM SITE, DEVELOPING APPLICATION AND PLAN.

- **YAHARA WINS** ENTERED INTO AN INTERGOVERNMENTAL AGREEMENT WITH ROCK COUNTY LAND CONSERVATION DEPARTMENT (LCD) FOR PURPOSE OF PROVIDING FUNDING FOR STAFF COSTS; BMPS INSTALLATION AND MAINTENANCE; P REDUCTION MODELING.

- **ROCK COUNTY LCD ENTERS INTO AGREEMENTS WITH LANDOWNERS** TO PROVIDE PAYMENT FOR INSTALLATION AND MAINTENANCE OF BMPS. LANDOWNER RECEIVES TOTAL PAYMENT FIRST YEAR OR PAYMENT MAY BE DIVIDED INTO 3 PAYMENTS STARTING FIRST YEAR. AGREEMENTS ARE RECORDED ON LAND DEED AT COUNTY REGISTER OF DEEDS

- **FILTER STRIPS, GRASSED WATERWAYS, CONTOUR STRIPS = $450 / ACRE; CONSERVATION EASEMENT = $300 / ACRE** STREAMBANK AND BARNYARD ITEMS PAY 100% OF COSTS SO LONG AS UNDER $50/LB OF P.

- **LANDOWNER MAINTAINS LAND USE CONTROL – (I.E. ABLE TO HARVEST PERENNIAL VEGETATION FOR FORAGE)**
PARTNERS

- Municipalities
- Private Business
- Consultants

- Farmers Group
- Individual Ag Producers

- Gov't Agencies
- County LWCD
- WDNR

- Citizens Groups
YAHARA PRIDE FARMS IS A FARMER-LED, NOT-FOR-PROFIT ORGANIZATION WORKING TO IMPROVE SOIL AND WATER QUALITY. WE STRIVE TO HELP ADVANCE NEW IDEAS AND TECHNOLOGY THAT BALANCE WATER QUALITY IMPROVEMENT WITH FARM SUSTAINABILITY AND PROFITABILITY.

CREATE A MECHANISM TO RECOGNIZE FARMER-LED ENVIRONMENTAL SUSTAINABILITY, REWARD FARMERS FOR GOOD STEWARDSHIP, TRACK COLLECTIVE PROGRESS IN CONSERVATION AND DEMONSTRATE WATERSHED ADVANCEMENT.

THROUGH OUR FARMER NETWORK OF INFORMATION SHARING, HELP INFORM THE AGRICULTURAL INDUSTRY OF NEW WATER QUALITY RULES, LAWS AND ISSUES.

EARN THE TRUST AND RESPECT OF FARMERS, PRIVATE CITIZENS AND GOVERNMENT THROUGH ENGAGING THEM IN OUR PROJECTS AND EDUCATIONAL PROGRAMS THAT DEMONSTRATE HOW THE AGRICULTURAL INDUSTRY IS COMMITTED TO DOING ITS FAIR SHARE IN MAKING IMPROVEMENTS IN THE WATERSHED.

CREATE THE YAHARA PRIDE BRAND AND GROW ITS RECOGNITION AMONG BOTH URBAN AND RURAL COMMUNITIES.
2018 Cost-Share Programs – Due Nov. 15

The following incentives are being considered for 2018:

1. **Strip Tillage** - $15 per acre up to 100 acres (max. payment of $1500/farm)
2. **Low Disturbance Manure Injection** - $20 per acre up to 100 acres (max. payment $2,000/farm)
3. **Cover Crops** - $40 per acre up to 50-acres
4. **Low Disturbance Deep Tillage and Cover Crop Planting** - $55 per acre up to 50 acres
5. **Headland Stacking** - for winter application only - $3.50/yd
6. **Composting Manure** - enroll in pilot program, payment TBD
7. **Stacking of multiple cost-shared practices** - payment TBD

Yahara Pride Farms provides on-farm assessment and verification of conservation practices leading to Yahara Pride Farms Certification. **Final cost-share payments are dependent on available funds and participation.**

To enroll in the 2018 Cost-Share program, complete the form below, detach and return by Nov. 15. Retain the top half of this form for your records. **You may also enroll at the YPF conference.**
WHY I THINK THIS IS A BLUEPRINT FOR SUCCESS

• A PROCESS THAT DEVELOPS PARTNERSHIPS AND MAXIMIZES RESOURCES

• SIMPLE AND EASY TO UNDERSTAND FOR ALL INVOLVED – USER FRIENDLY

• WIN – WIN. GUARANTEED ECONOMIC RETURN WITH CONTROL OF LAND USE IN EXCHANGE FOR LONG-TERM, COST EFFECTIVE PHOSPHORUS REDUCTION.

• LOCALLY LED EFFORT WITH LITTLE GOVERNMENT DICTATION.

• WERE ABLE TO WORK WITH PRIORITY FARMS. EFFICIENTLY REDUCE LARGE P RUNOFF.
WHAT IS A PRIORITY FARM?

• ATCP 50.12(F)
  • SUBJECT TO DNR NOTICE OF DISCHARGE
  • FARMS IN WATERSHED OF 303(D) IMPAIRED WATERS
  • SIGNIFICANT PROBLEMS WITH MANURE MGMT.
  • FARMS MAKING CLEARLY EXCESSIVE NUTRIENT APPLICATIONS
  • FARMS WITH CLEARLY EXCESSIVE RATES OF CROPLAND EROSION
EXAMPLE OF PRIORITY FARM

- ENTIRE CROP FIELD SLOPES TO DRAINAGE

- PASTURE AREA OVERGRAZED AND USED AS SEASONABLE FEEDING AREA

- HAS A HISTORY OF NOT WANTING TO WORK WITH GOV’T AGENCIES
EXAMPLE OF SUCCESS

- CROP FIELDS SLOPE TO DRAINAGE – SEED TO GRASS FOR 15 YRS

- PASTURE AREA OVERGRAZED SEASONABLE FEEDING AREA – SEED TO GRASS WITH NO GRAZING FOR 15 YEARS.

- HAS A HISTORY OF NOT WANTING TO WORK WITH GOV’T AGENCIES – WORKING WITH LCD TO CAPTURE RUNOFF IN POND WITH SLOW RELEASE TO INFILTRATE WATER
SOLUTION TO AN IMPOSSIBLE SITUATION
WHERE DO WE START?

- CONTACT LAND CONSERVATION DEPARTMENT, UW EXTENSION AND/OR PRIVATE CONSULTANTS

- CONTACT THOSE ALREADY IN ADAPTIVE MGMT. OR WATER QUALITY TRADING

- ASK FOR GUIDANCE AND ASSISTANCE TO FACILITATE MEETINGS

- GET ALL THE PARTNERS IN ONE ROOM
ROCK COUNTY LAND CONSERVATION DEPARTMENT

TOTAL MAXIMUM DAILY LOAD IMPLEMENTATION PROGRAM

CHRIS MURPHY
CONSERVATION SPECIALIST
608-289-0877