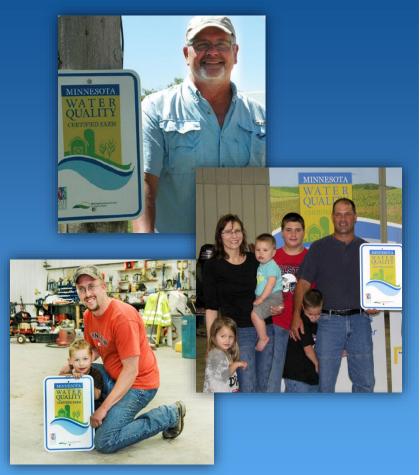
Minnesota Agricultural Water Quality Certification Program

Certifying that Minnesota's farms and waters can prosper together



Brad Jordahl Redlin Minnesota Department of Agriculture



Pilot Operations

Biennial appropriation available to June 30, 2018

FY14/FY15		
State - Clean Water Fund		
Pilot Operations/Administration/Staff	\$1,400,000	
Financial and Technical Assistance	\$1,600,000	Local TA & FA pass through
Total Biennium	\$3,000,000	
FY14/FY15		
Leveraged Funds		
Federal - NRCS Producer Contracts	\$3,500,000	EQIP
The McKnight Foundation	\$100,000	
Total Biennium	\$3,600,000	



<u>Pilot</u>	<u>Farms</u>	Acres
Elm Creek	1	231
Middle Sauk	12	2,996
Whiskey Creek	7	5,327.5
Whitewater River	23	16,064.7



Pilot Lessons

- Work with and via local professionals, especially SWCDs along with private service providers.
- Each certification is different, and ultimately (and appropriately) conducted at the producer's pace.
- Motivations are as varied as the producers; financial assistance, regulatory certainty, and management 'check-up' consistently cited as leading motivators.
- Crop Advisors and dealers are trusted resources of management records and strategies.

KAP Study Characteristics

- Studies are done twice: pre/post project
- · Each study is customized and unique, scalable
- Everything is local: KAP explores issues with local relevance
- · Flexible method (door-to-door, mail, phone, community workshop, etc.)
- · Focused on core constructs
- Inexpensive

Minnesota Department

Also Measuring Social Changes

What are <u>motivators</u> to engage individuals and communities in protecting vital water resources?

What **constrains** individuals and communities from engaging in water resource management?

How can resource professionals, policymakers, and citizens enhance individual and community capacity to protect and restore Minnesota's water resources?





Knowledge, Attitudes and Practices Results

- About half say they "don't know" if their operation contributes to pollution; 1/3 say they are "uncertain"
- Many producers said soil erosion was a concern, few said that water quality was a concern
- Soil loss, money, yields and time are the most important issues for producers
- Identified real differences in nitrogen fertilizer management between watersheds
- Barriers: potential cost; need to know more; and acreage reduction are concerns
- Incentives: cost-share, education and training, and technical assistance are most important



MAWQCP status

RESULTS AS OF NOVEMBER 30, 2015:

71 certified farms totaling

39,695 certified acres implementing

195 NEW conservation practices.



...and 260+ signed applications received.



CONSERVATION DELIVERED

A total of 195 new structural conservation practices have been installed or will be installed as part of the MAWQCP. These practices include:

- Water and Sediment Control Basins
- Agricultural Waste Facilities
- Contour Buffers
- Terrace Projects
- Streambank Protection Projects
- Grassed Waterways
- Cover Crops

MAWQCP status



- 2,010 tons of sediment avoided per year
- 2,418 lbs of Phosphorus loss avoided per year
- 2,468 tons of soil saved per year
- Nitrogen loss on treated acres projected at 49% reduction





¹ Sediment, Soil and Phosphorus numbers calculated using BWSR's Pollution Reduction Estimator and associated inputs from NRCS's RUSLE2, field notes, certification records and aerial measurements

² The sources used to estimate effectiveness of conservation practices for nitrate-nitrogen are compiled from either the MDA's Agricultural BMP Handbook for Minnesota or the MPCA's Nutrient Reduction Strategy. Employing a weighted average of practices where data is available, the conservation practices installed to date may have reduced nitrate-nitrogen losses by up to 55% on contributing acres.

FY16 Operations

Annual appropriation to June 30, 2016



State - Clean Water Fund

Statewide Operations/Administration/Staff \$862,500

Financial and Technical Assistance \$1,637,500 L

Annual Total \$2,500,000



Leveraged Funds

Federal - NRCS Regional Conservation Partnership Program (RCPP)

NRCS FY16 Producer Contracts \$2,250,000 EQIP, ACEP, CSP

RCPP Total FY16-FY19 \$9,000,000



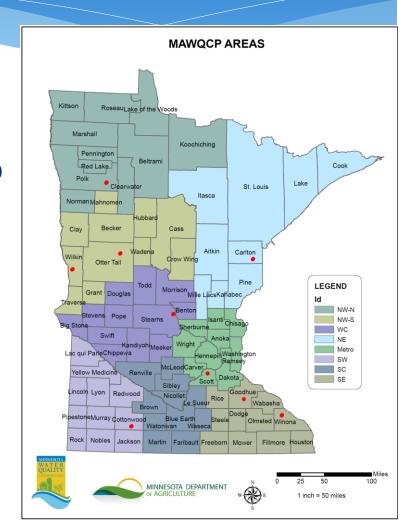
Local TA & FA pass through



United States Department of Agriculture

Regional Structure

- North-Northwest: East Polk SWCD
- South-Northwest: E.OtterTail/Wadena SWCD
- Northeast: Carlton SWCD
- West Central: Stearns SWCD/TSA Area 2
- Southwest & South Central: GBERBA
- Metro: Scott SWCD/TSA Area 4
- Southeast: Goodhue SWCD/TSA Area 7



Area Specialists, Support Staff

Fiscal Agents manage service areas:

- Area Certification Specialist (ACS) full-time lead staff coordinating certification services for each Area
- MDA staffed, area-designated Intermittent Certification
 Specialists; part-time/on-call position for certification support
- A pool for hourly reimbursement of SWCDs for technical assistance or conservation design





Private Sector Participation

Access and engage agricultural expertise in providing MAWQCP certification services:

- Pilot project of Crop Advisors/Consultants to work with producers
- Fee for service for conducting MAWQCP farm assessments
- Limited to \$5,000/individual Crop Advisor during pilot project (FY16)

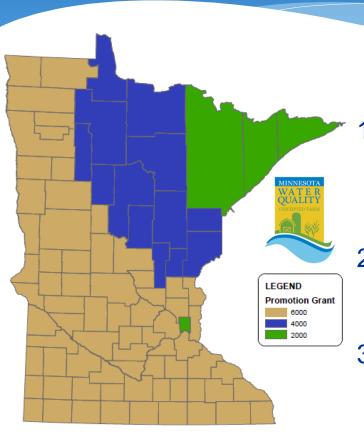


Ag Resource
Consulting Inc.
Glen Borgerding & James Schroepfer





Statewide Activities - BWSR



- 1. **Promote** the MAWQCP through producer contacts, newsletters, local papers, radio spots, etc. provided by MAWQCP.
- MAWQCP Program and Assessment Tool Training.
- 3. 10 (brown counties) or 5 (blue counties) producer applications by May 31.

Supplying more than 700 new applicants by May 2016

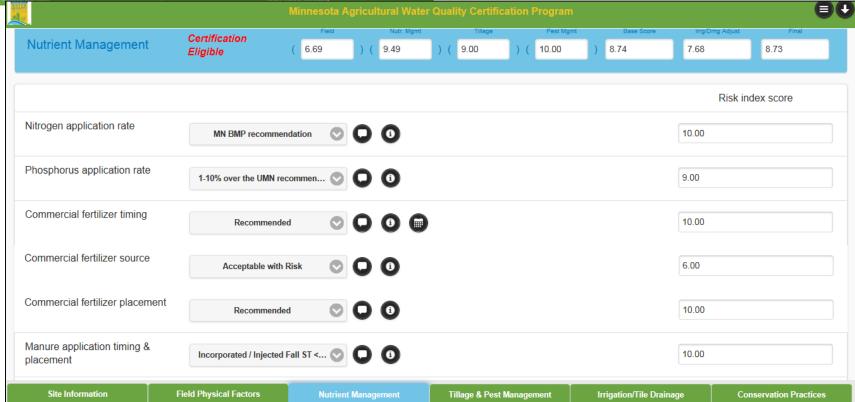
Assessment Tool Update

- Updated assessment tool online at: https://mnwatercertify.mda.state.mn.us/wqcpapp/
- Current project with Houston Engineering for nutrient management updates/precision ag
- Also will host and integrate with a new Nutrient Management Planner









Nutrient Management Planner

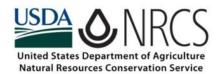


- Existing planning software is unsupported on old version of Access
- Existing version is not user friendly
- New online version integrates with MAWQCP Assessment Tool
- Produce simplified reports farmers will use
- Produce product exportable for NRCS, PCA, other reporting



Partners























THE MCKNIGHT FOUNDATION





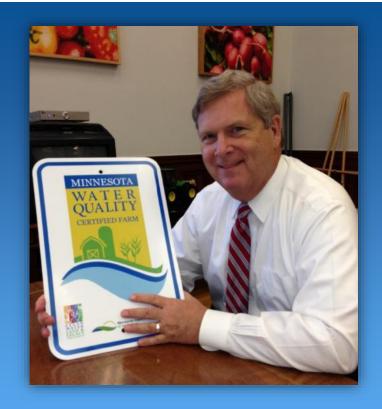




Certification & Recognition



Questions?





www.mda.state.mn.us/awqcp

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