

Minnesota Agricultural Water Quality Certification Program (MAWQCP)

Jim Lahn Area Certification Specialist - For 11 Counties in North Central Minnesota East Otter Tail SWCD Perham, Minnesota



Northwest Iowa



Minnesota's "Respectable" State Tree?

Red Pine

lowa's "Respectable" State Tree?

Bur Oak

And in North Dakota....???

Power Pole/ Telephone Pole

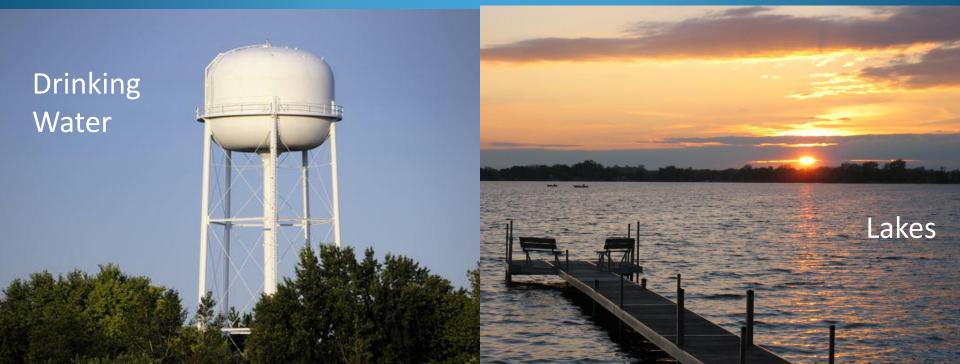
Farmers in Minnesota have many challenges.

One Challenge: Water Quality Issues

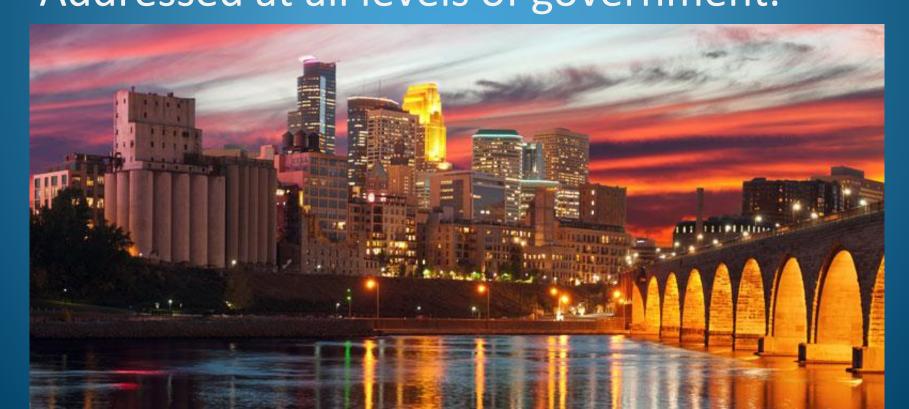
Water Quality. High Priority!

Ground water Surface Water





Water Quality. High Priority! Important to the public. Prominent in the media. Addressed at all levels of government.

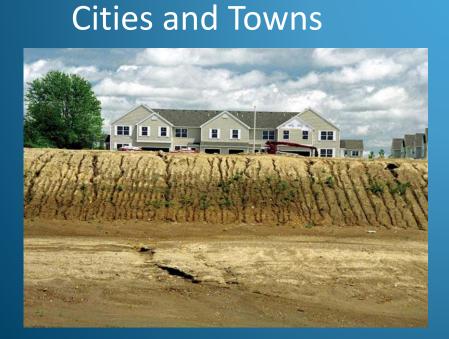


Water Quality. High Priority!





Farmland





Water Quality. High Priority!

Reduce 'delivery' of nitrates and phosphorus to local waters and to the Gulf.

> Nutrient Reduction Strategies Water Quality Initiatives VOLUNTARY Approach

Minnesota lowa North Dakota Illinois Wisconsin Missouri Indiana Other States



Minnesota's Water **Quality Efforts** One Watershed, One Plan. Nitrogen Fertilizer **Management Plan** Nutrient Mgmt. Initiative **Buffer Law** Nutrient Reduction Strategy Water Quality Initiative

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Minnesota Agricultural Water Quality Certification Program (MAWQCP)

- <u>Voluntary</u> Program for farm operators and farm owners.
- Involves entire farm operation.
- Assessment of farm operation related to water quality.
- <u>Comprehensive</u>. Confidential.



Minnesota Agricultural Water Quality Certification Program (MAWQCP) <u>Involves:</u>

- Field & Soil Characteristics.
- Nutrient Management.
- Pest Management.
- Tillage practices.
- Feedlot & Manure Management.
- Irrigation and tile.
- Conservation practices.





A 'System' of Conservation Practices

Conservation Tillage No-Till or Strip-Till Farming Contour Farming Cover Crops Nutrient Management Manure Management Pest Management Filter Strips Terraces

Minnesota Agricultural Water Quality Certification Program (MAWQCP) Review of:

Fertility Program and Nutrient Management.

Nutrient	Conce	entration	Soil Test Level
	ppm	Ib/acre	(Mehlich 3)
Ρ	17	34	< Low >
к	92	184	Medium
Ca	876	1752	
Mg	91	182	
SO4-S	12	24	
Zn	1.4	2.8	Very Low
Fe	243	486	
Mn	85	170	**
Cu	0.7	1.4	
В	0.1	0.2	
NO3-N			**

Soil Test Report



Fertilizing Corn in Minnesota Table 9: Broadcast and band phosphate guidelines for corn production in Minnesota

Expected Yield	Broadcast/ Band	P soil test: 0-5 ppm Bray and 0-3 ppm Olsen	P soil test: 6-10 ppm Bray and 4-7 ppm Olsen	P soil test: 11-15 ppm Bray and 8-11 ppm Olsen	P soil test: 11-15 ppm Bray and 8-11 ppm Olsen	P soil test: 21+ ppm Bray and 16+ ppm Olsen
175-199 bu/acre	Broadcast	110 lbs P2O5 per acre	75 lbs P2O5 per acre	45 lbs P2O5 per acre	15 lbs P2O5 per acre	<u>0 lbs P2O5</u> per acre
175-199 bu/acre	Band	55 lbs P2O5 per acre	40 lbs P2O5 per acre	30 lbs P2O5 per acre	10-15 lbs P2O5 per acre	<u>10-15 lbs</u> P2O5 per acre

Very low probability of any return on those fertilizer dollars.

Minnesota Agricultural Water Quality Certification Program (MAWQCP) Review of:

Fertility Program and Nutrient Management.





Cover Crops.

Minnesota Agricultural Water Quality Certification Program (MAWQCP) <u>BENEFITS:</u>

- Stewardship! Protecting water quality.
- Priority Eligibility for funding: EQIP Program; State Funds.
- Regulatory Certainty.
- Process is beneficial.
 - Your operation & water quality.



Andy Dombeck

Local father-son farmers get Water Quality Certified

By Forum News Service on Nov 6, 2018 at 8:48 a.m.





Mike & Sandy Dombeck



NEWS	CROPS	LIVESTOCK	POLICY AND POLITICS	PEOPLE	COLUMNS	OPINION
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BUSINESS



Conservation farmers Mike and Sandy Dombeck, center, receive their Water Quality Certification sign from Jim Lahn, left, the program's local Area Certification Specialist, and Nathan Wiese, right, an Irrigation and Nutrient Manager with the East Otter Tail Soil and Water Conservation District. (Submitted Photo)

Local father-son farmers get Water Quality Certified

By Forum News Service on Nov 8, 2018 at 1:20 p.m.

Andy Dombeck

Wadena farmer, Andy Dombeck, named Conservationist of the Year

By Michael Denny on Dec 27, 2018 at 11:49 a.m.





Wadena Pioneer Journal

1/4 Staring in honoring Andy Dombeck are Jim Lahn, Area Certification Specialist (left), MAWQCP Program, Andy Dombeck, Conservation Farmer, Darren Newrille, District Manager for the East Otter Tail & Wadena SWCDs and Lyle Dittmann, East Otter Tail SWCD Board Chairman. Submitted photo

Andy Dombeck Farm

Andy Dombeck Farm

Rich Jibben Farm

Rich Jibben



Rich Jibben received his Minnesota Agricultural Water Certification Program sign on his farm near West Battle Lake and Clitherall Lake. With the help of the MAWQCP program, Jibben has adopted no-till farming practices and utilizes cover crops to reduce soil erosion and water runoff rates. Provided.

Certifiably the best: Farmers adopt conservation practices



By Kaley Sievert Email the author

Published 9:17 am Tuesday, February 20, 2018

The Daily Journal (Fergus Falls)



Rich Jibben Farm

near Battle Lake, MN

Aerial Photo



Rich Jibben Farm

Aerial Photo



5-year old program and

780 farming operations are *Water Quality Certified* in Minnesota! Minnesota Agricultural Water Quality Certification Program (MAWQCP) <u>INTERESTED?</u>:

Jim Lahn **Area Certification Specialist** North Central Minnesota East Otter Tail SWCD Perham, Minnesota (218) 457 - 0250(712) 251-7426









Midwest Old Thresher's Reunion

Mount Pleasant, Iowa

Andrew Schock. Dale Schock.



Minnesota Agricultural Water Quality Certification Program (MAWQCP)

"Decisions that farmers make that are profitable and sustainable economically are the same decisions that serve natural resources."

