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
Iowa’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

Drinking Water

Streams & Rivers

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

Cities and Towns

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’s Water Quality Efforts

- One Watershed, One Plan.
- Nitrogen Fertilizer Management Plan
- Nutrient Mgmt. Initiative
- Buffer Law
- Nutrient Reduction Strategy
- Water Quality Initiative
Minnesota Agricultural Water Quality Certification Program (MAWQCP)

- Voluntary Program for farm operators and farm owners.
- Involves entire farm operation.
- Assessment of farm operation related to water quality.
- Comprehensive. Confidential.
Minnesota Agricultural Water Quality Certification Program (MAWQCP) *Involves:*

- 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.
## Fertilizing Corn in Minnesota

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

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

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) **BENEFITS:**

- Stewardship! Protecting water quality.
- Priority Eligibility for funding: EQIP Program; State Funds.
- Regulatory Certainty.
- Process is beneficial.
  - Your operation & water quality.
Local father-son farmers get Water Quality Certified

By Forum News Service on Nov 6, 2018 at 8:48 a.m.
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.
Wadena farmer, Andy Dombeck, named Conservationist of the Year

By Michael Denny on Dec 27, 2018 at 11:49 a.m.
Andy Dombeck Farm
Andy Dombeck Farm
Rich Jibben Farm
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
Rich Jibben Farm
near Battle Lake, MN
Aerial Photo
5-year old program and ....

780 farming operations are Water Quality Certified in Minnesota!
Minnesota Agricultural Water Quality Certification Program (MAWQCP) INTERESTED?:

Jim Lahn
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“Decisions that farmers make that are profitable and sustainable economically are the same decisions that serve natural resources.”