



**Eric Cooley**

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*UW-Discovery  
Farms Program*

## Eric T. Cooley

**Outreach Program Manager 1**

**Discovery Farms Research Coordinator**

**UW-Discovery Farms Program**

4319 Expo Drive

PO Box 1150

Manitowoc, WI 54221

Phone: 608-235-5259

Email: [eric.cooley@ces.uwex.edu](mailto:eric.cooley@ces.uwex.edu)

For more information, visit this website: <http://www.uwdiscoveryfarms.org>

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## Programming Areas

- Agricultural research in surface runoff and tile drainage
- Agricultural Best Management Practice (BMP) education
- Nutrient Management education

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## Audience and Partners

- Agricultural producers
- Governmental agencies
- Environmental organizations
- General public

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## Team Membership

- UW – Discovery Farms
- ANRE – Nutrient Management Team

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## Educational Resources

### Publications

- Cooley, E.T., B. Lowery, K. A. Kelling, P.E. Speth, F.W. Madison, W.L. Bland, and A. Tapsieva. 2009. Surfactant use to improve soil water distribution and reduce nitrate leaching in potatoes. *Soil Sci.* 174:321-329.
- Cooley, E.T., B. Lowery, K.A. Kelling, and S. Wilner. 2007. Water dynamics in drip and overhead sprinkler irrigated potato hills and development of dry zones. *Hydrological Proc.* 21:2390-2399.

- Cooley ET. 2005. Quantifying dry zones in potato hills and the use of surfactant to reduce dry zones and nitrate leaching. MSc. Thesis, University of Wisconsin-Madison, Wisconsin, USA. 158 pp.
- Starr GC, Cooley ET, Lowery B, Kelling K. 2005. Soil water fluctuations in a loamy sand under irrigated potato. *Soil Science*. 170:77-89.
- Starr GC, Lowery B, Cooley ET. 2000. Soil water content determination using a network analyzer and coaxial probe. *Soil Science Society of America Journal*. 64:867-872.

### **Workshops, Wislines and Other Programs**

- 2011, 35th Annual AWRA Meeting: Wisconsin's Role in Great Lakes Restoration in Appleton, WI, Eric T. Cooley, Frederick Madison, and Stephen Mael, "Mapping Carbonate Bedrock Surfaces in Glaciated Landscapes to Enhance Management Decisions."
- 2009, 17th National Nonpoint Source Monitoring Workshop: Reducing Nutrients and Documenting Results in New Orleans, LA, Eric T. Cooley "Comparison of Water Quantity and Quality between Subsurface-Tile and Surface-Water Runoff from a Wisconsin Discovery Farm."
- 2008, National Soil Tilth Laboratory Research Workshop, in Ames, IA, Eric T. Cooley and Dennis Frame, "The Discovery Farms Program."
- 2008, USDA-CSREES National Water Conference: Research, Extension and Education for Water Quality and Quantity in Reno, NV, Eric T. Cooley Water & Nutrient Output from a Wisconsin Agricultural Landscape
- 2006, ASA-CSSA-SSSA International Annual Meetings, in Indianapolis, IN, Eric Cooley and Kevan Klingberg, "Comparison of Water Quantity and Quality between Subsurface Tile and Edge-of-Field Runoff from a Wisconsin Agricultural Landscape."

### **Online Tools**

- Not applicable

### **Research and Outreach**

- Environmental Education and Training Program  
<http://www.uwdiscoveryfarms.org/Education.aspx>
- Newsletters:  
<http://www.uwdiscoveryfarms.org/Publications/NewslettersFactsheets.aspx>
- Blog: <http://fyi.uwex.edu/discoveryfarms/>
- UW-Discovery Farms Monitoring Sites and Weather Stations  
<http://www.uwdiscoveryfarms.org/OurResearch/USGSRealTimeData.aspx>