

2021 Drainage Tools Workshop Agenda

August 24, 2021

All times are in Eastern Time

Time (ET)	Topic	Presenter
8:55 am — 9:00 am	Log-in to Zoom <i>Type questions in the Q&A section</i>	
9:00 am — 9:10 am	Welcome and Introduction Overview of tools to inform drainage.	<i>Dr. Ehsan Ghane</i>
9:10 am — 9:20 am	Drainage Design as a Nutrient Reduction Strategy Effect of drain spacing on crop yield and water quality.	<i>Dr. Ehsan Ghane</i>
9:20 am — 9:30 am	Drain Spacing Tool Learn how the tool works to estimate the optimum drain spacing that maximizes economic return on investment.	<i>Dr. Ehsan Ghane</i>
9:30 am — 9:50 am	Demonstration of the Drain Spacing Tool Learn the basics of using the tool to estimate the optimum drain spacing. Learn how soil property and economics affect drainage design.	<i>Dr. Ehsan Ghane</i>
9:50 am — 10:00 am	Controlled Drainage Suitability Tool Subirrigation Suitability Tool Learn to identify land in the Midwest USA with a high chance of being suitable for controlled drainage or subirrigation.	<i>Dr. Jane Frankenberger</i>
10:00 am — 10:10 am	Questions and Answers <i>Type questions in the Q&A section</i>	
10:10 am — 10:20 am	Break	
10:20 am — 10:40 am	Drainage Water Recycling Learn about the features, site suitability, crop yield benefit, profitability, and water-quality benefit of drainage water recycling.	<i>Dr. Jane Frankenberger</i>
10:40 am — 11:00 am	EDWRD Tool (Evaluating Drainage Water Recycling Decisions) Learn the basics of using the tool to size a pond for drainage water recycling. Learn how to interpret the tool's results to make an informed design decision.	<i>Ben Reinhart</i>
11:00 am — 11:10 pm	Questions and Answers <i>Type questions in the Q&A section</i>	

Time (ET)	Topic	Presenter
11:10 am — 11:35 am	Drainage Design: Choice of Drain Depth Learn about the site suitability, crop yield benefit, profitability, and water-quality impact of shallow drains.	<i>Dr. Ehsan Ghane</i>
11:35 am — 11:50 am	Shallow Drains Tool Learn to use the tool to make an informed decision about drain depth. The tool estimates the nitrate load reduction of shallow drains compared to deep drains.	<i>Dr. Ehsan Ghane</i>
11:50 am — 12:00 pm	Questions and Answers <i>Type questions in the Q&A section</i>	
12:00 pm — 1:30 pm	Lunch Break	
1:30 pm — 1:50 pm	Reducing Phosphorus loss with P-Filters Learn about the features, site selection, maintenance, installation, and water-quality benefit of P-filters.	<i>Dr. Chad Penn</i>
1:50 pm — 2:10 pm	P-TRAP Phosphorus Transport Reduction App Learn the basics of using the P-TRAP app to design a P-filter for reducing phosphorus loss in drainage discharge.	<i>Dr. Chad Penn</i>
2:10 pm — 2:20 pm	Questions and Answers <i>Type questions in the Q&A section</i>	
2:20 pm — 2:25 pm	Break	
2:25 pm — 2:30 pm	Drain Sedimentation Tool Learn to use the tool to identify soil at risk of clogging with sediments.	<i>Dr. Ehsan Ghane</i>
2:30 pm — 2:45 pm	Nutrient Loss Calculator Learn how to use the tool to get an idea of nutrient loss from your tile, so you can improve profitability and downstream water quality. Listen to real-world examples of how producers are modifying their farming practices based on the tool's results.	<i>Dr. John McMaine</i>
2:45 pm — 3:00 pm	Questions and Answers <i>Type questions in the Q&A section</i> <i>Questions for any of the speakers are welcome</i>	
3:00 pm — 3:05 pm	Online Evaluation and Adjourned	

Presenters:

Ehsan Ghane: Assistant Professor and Extension Specialist, Michigan State University

Jane Frankenberger: Professor, Purdue University

Ben Reinhart: Director of Operations and Ag Water Management, Clark Farm Drainage

Chad Penn: Soil Scientist, USDA Agricultural Research Service

John McMaine: Assistant Professor, South Dakota State University