NDSU | CARRINGTON RESEARCH EXTENSION CENTER

North Dakota State University
CARRINGTON RESEARCH EXTENSION CENTER
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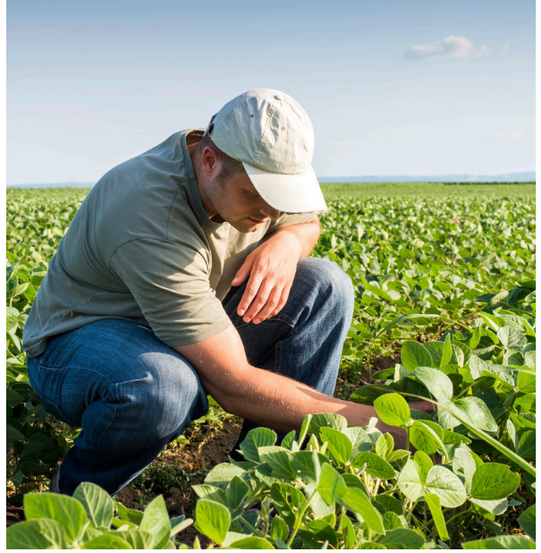

Virtual Advanced Crop Advisers Workshop

Feb. 9-10, 2021

Sponsored by

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UNIVERSITY OF MINNESOTA EXTENSION
Driven to Discover℠

Audience

This is an advanced workshop for agricultural professionals, including crop consultants, agronomists, Extension agents and agribusiness representatives, who advise farmers with recommendations on crop production.

Agenda

Tuesday, Feb. 9

1 p.m. General Session:
Introduction

1:15 p.m. General Session:
More Acres and Less Time: How Do You Address Climate Weirdness?
Jochum Wiersma
What does the data tell us about the time we have to complete field tasks during our "crunch times" and how do we make the most of the time we have?
(0.5 continuing education unit [CEU] – crop management)

Participants will be able to participate in three of six concurrent sessions during the afternoon.

2 p.m. **Concurrent Sessions:**
1. 2,4-D and dicamba
2. Low-production fields

2:45 p.m. **Break**

3 p.m. **Concurrent Sessions:**
1. Corn diseases
2. Soil compaction

3:45 p.m. **Concurrent Sessions:**
1. Soybean cyst nematode, sudden death syndrome and brown stem rot
2. Biostimulants

4:30 p.m. **Adjourn**

Wednesday, Feb. 10

8:30 a.m. General Session:
Introduction; North Dakota Certified Crop Adviser of the Year

8:45 a.m. General Session:
2021 Cash Flow and Market Expectations, and Outlook for Farm Profitability
Josh Tjosaas and Randy Zimmerman
2021 farm profitability – 2021 projected cash flows and breakeven for area crops. Summary of 2021 crop price outlook and grain marketing strategies.
(0.5 CEU – crop management)

Participants will be able to participate in three of six concurrent sessions during the morning.

9:30 a.m. **Concurrent Sessions:**
1. Ragweed
2. Mycorrhizae

10:15 a.m. **Break**

10:30 a.m. **Concurrent Sessions:**
1. Frogeye leaf spot
2. Cover crops

11:15 a.m. **Concurrent Sessions:**
1. Soybean insects
2. Acid and K soils

Noon **Workshop ends**

Concurrent Sessions

All sessions will be recorded and posted for registered participants to view after the workshop.

Tuesday, Feb. 9

- **What's old is new again: The art and science of using 2,4-D and dicamba**
  Joe Ikley
  We have been applying 2,4-D and dicamba for more than 50 years, but now we have the ability to spray the herbicides postemergence in soybeans. Off-target movement gets the lion's share of the headlines, but more attention is needed on optimizing weed control. This session will cover how water pH and herbicide tank mixes might affect efficacy, and more!
  (0.5 CEU – pest management)

Concurrent Sessions continued on next page

Tuesday Concurrent Sessions continued

- **Managing Low-production Fields: Soil Tests and Solutions**
  Naeem Kalwar
  Learn about sampling techniques and management options for saline and sodic soils.
  (0.5 CEU – soil and water management)

- **Goss's Wilt and Other Emerging Corn Diseases**
  Andrew Friskop
  Goss's wilt is the No. 1 corn disease in North Dakota; however, other yield-limiting diseases continue to increase in major corn-producing regions. This presentation will provide a Goss's wilt research update in North Dakota and summarize research efforts on new diseases such as bacterial leaf streak and tar spot.
  (0.5 CEU – pest management)

- **How to Break Up Compaction in No-till and Reduced-till Systems**
  Aaron Daigh
  While tillage philosophies and practices can vary greatly, this session covers how to break up compaction without destroying soil structure.
  (0.5 CEU – soil and water management)

- **Soybean Cyst Nematode, Sudden Death Syndrome and Brown Stem Rot**
  Carl Bradley and Sam Markell
  A review of current North Dakota and U.S. research and management recommendations will be provided for soybean cyst nematode, sudden death syndrome and brown stem rot.
  (0.5 CEU – pest management)

- **Ins and Outs of Biostimulants**
  Carl Rosen
  The market (and marketing push) for biostimulants has exploded in recent years, but what does the data say about what they are, what they claim to do and what they can do in a field environment?
  (0.5 CEU – nutrient management)

Wednesday, Feb. 10

- **Biology and Management of Common Ragweed**
  Debalin Sarangi
  What is it about common ragweed biology, growth and development that makes it such a bear to manage? How can we control this weed in the Red River Valley?
  (0.5 CEU – pest management)

- **Uncovering the Mystery of Mycorrhizal Fungi**
  Caley Gasch
  This presentation will provide an overview of mycorrhizal fungi: what they are, how they associate with plants and the benefits they provide. We'll also discuss management practices that impact mycorrhizal fungi, including the use of commercial inoculants.
  (0.5 CEU – nutrient management)

- **Is This Soybean Disease (Frogeye Leaf Spot) Only an Eye Problem?**
  Carl Bradley and Sam Markell
  A national authority on Frogeye leaf spot will discuss identification, biology and management of this disease, including if this disease is an economic or just visual threat.
  (0.5 CEU – pest management)

- **Natural Resources Conservation Service Cover Crop Producer Programs and Planting Rates**
  Ted Alme and Carissa Spencer
  Join NRCS agronomists from Minnesota and North Dakota as they discuss 2021 programs involving cover crops that will likely benefit your farm clients.
  (0.5 CEU – Soil and water management)

- **Insect Management in Soybean: There's More Than Just Aphids Out There**
  Robert Koch
  While soybean aphids tend to punch above their weight (size), producers have good reason to also pay attention to other less common soybean pests.
  (0.5 CEU – pest management)

- **Acid Soils, Really? Can There Be Too Much K?**
  Dave Franzen
  This session challenges the notions that we 1) do not need to worry about acidifying soils and 2) that there is no such thing as too much K.
  (0.5 CEU – soil and water management)

Workshop Instructors

Ted Alme	NRCS, Bismarck, N.D.
Carl Bradley	University of Kentucky, Princeton
Aaron Daigh	NDSU, Fargo
Dave Franzen	NDSU, Fargo
Andrew Friskop	NDSU, Fargo
Caley Gasch	NDSU, Fargo
Joe Ikley	NDSU, Fargo
Naeem Kalwar	NDSU, Langdon, N.D.
Robert Koch	University of Minnesota, St. Paul
Sam Markell	NDSU, Fargo
Carl Rosen	University of Minnesota, St. Paul
Debalin Sarangi	University of Minnesota, St. Paul
Carissa Spencer	NRCS, St. Paul, Minn.
Josh Tjosaas	Northland Community and Technical College, Moorhead, Minn.
Jochum Wiersma	University of Minnesota, Crookston
Randy Zimmerman	West Central Ag Services, Ulen, Minn.

Workshop Planning Committee

Greg Endres *co-chair*	701-652-2951 NDSU Extension, Carrington, N.D.
Angie Peltier *co-chair*	218-281-8692 University of Minnesota Extension, Crookston
Jerry Arneson	Bell Bank, Moorhead, Minn.
Darren Dunham	Centrol Crop Consulting, Maxbass, N.D.
Dave Franzen	NDSU, Fargo
Chris Johnson	Centrol Crop Consulting, Horace, N.D.
Tom Jones	Crop Consultant, Wyndmere, N.D.
Lindsey Lysne	Liberty Ag, Minnewaukan, N.D.
Evan Twedt	Dekalb/Asgrow, McHenry, N.D.
David Willis	Agassiz Crop Management, Thief River Falls, Minn.

CEUs

Certified crop advisers will have the opportunity to receive 4 continuing education units by participating in both days of the workshop.

QR codes to log CEU credits will be available at the conclusion of each session. Participants will need a separate device to scan QR codes.

Preregistration

Preregistration (including fee payment) preferred by Feb. 4. The workshop fee is $40 per person. Participants **must** preregister for connection information and links to the workshop.

Electronic registration and credit card payment can be submitted at

www.tinyurl.com/CRECstore

or

https://epayment.ndus.nodak.edu/C22800_ustores/web/store_main.jsp?STOREID=29&SINGLESTORE=true

Fee: $40 per person preferred by Feb. 4

For more information, contact Linda Schuster:

Phone: 701-652-2951 • Fax: 701-652-2055
Email: linda.schuster@ndsu.edu

Requests for accommodations related to disability should be made to Linda Schuster at 701-652-2951 by Jan. 4, 2021.