“The training was very informative and helpful in scouting and recommendations for our patrons.”

- 2010 CMDC Participant

### About the Training...

**Pre-registration required.** All registrants will be sent a confirmation letter, receipt and finalized schedule. Space is limited; your registration is not guaranteed unless payment is received. Cancellations received 1 week before the clinic will receive a full refund. In the event of program cancellation by the University, pre-registered participants will be contacted and will receive a full refund. The University of Nebraska is not responsible for any expenses incurred by registrants.

**Fees:** Fees include training, lunch and reference materials.

**CCA Credits:** We reserve the right to request change in CCA credits based on program needs. Participants must attend entire program to obtain full continuing education credits.

**The Location:** All clinics are held at the University of Nebraska-Lincoln Agricultural Research and Development Center near Mead, Nebraska. Participants meet at UNL Agricultural Research Center’s August N. Christenson Research and Education Building - rain or shine (bring rain gear).

**Lodging:** Arrange directly with the motel of your choice in Lincoln, Omaha, Fremont, or Wahoo (Heritage Inn).

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2011 CROP MANAGEMENT DIAGNOSTIC CLINICS

JULY 21 Mid-Summer Clinic
6 TOTAL CCA CREDITS
(Pest Mgt. – 3.0, Soil & Water Mgt. – 2.0, and Crop Prod. – 1.0)

Update on Corn Nematodes and Their Management
• Distribution in the Midwest
• Interpreting assays
• Results of nematode trials
Tamara Jackson, UNL Extension Plant Pathologist and Joe Lemmons, UNL Extension Educator

In-Depth Soybean Cyst Nematode (SCN) Management
• Learn how to identify SCN under field conditions
• Gain an understanding of the life cycle of SCN
• Learn how to manage SCN with genetic resistance and crop rotation
• See how weed populations can influence SCN populations
Andrew Goyer, UNL Extension Plant Pathologist and Jon Wilkins, UNL Extension Educator

Water Management – Are You Smarter Than a 5th Grader?
• Learn how soil texture affects water holding capacity.
• Learn about various soil water monitoring equipment
• See how soil water sensors could be permanently installed
• Learn how to schedule irrigation based on ET versus water sensors
• Learn about ways to get crop ET estimates during the growing season
Austin Noyes and Gary Zvetek, UNL Extension Educators

Decision Making on Hybrids and Varieties: Show Me the Data!
• The methods and timeline plant breeders use to create a new hybrid
for the marketplace
• The techniques required to produce a hybrid with a value added (transgenic) trait
• What data seed companies use to select hybrids and how you can obtain data that helps your own decision making
• How seed technology can be used as a risk management tool
Dan Lee, UNL Professor of Agronomy and Horticulture and Lowell Sandell, UNL Extension Weed Science Educator

Sharpening your Insect Identification Skills
• Learn how to identify stink bug, aphid, and caterpillars of field crops
Ron Seyfman, Extension Educator and Bob Wright, UNL Extension Entomologist

Like Us & Follow Us
Simply visit us on the web at: www.arcd.unl.edu/training.shtml or on Twitter to learn more about UNL Extension Crop Management programs and other information.

JULY 22 Mid-Summer Clinic
6 TOTAL CCA CREDITS
(Pest Mgt. – 3.0, Nutr. Mgt. – 1.0, Soil & Water Mgt. – 1.0, and Crop Prod. – 1.0)

SoyPod - A Smartphone Application for Scouting Soybean Aphids
• Learn about a web-based tool that can improve the progressions of aphid reproduction based on the information you input
• Learn how to create an account and add/edit field information
• Experience “explore”'s Speed Scouting in action
• Discuss current and future roles of mobile technologies in decision making
Brian McDonald, Assistant Professor, Kansas State University

Impact of Winter Annual Weeds
• Keys to identify important winter annual weeds before they flower
• How and Why winter annual weed removal timing affects yield
• Effective strategies to manage winter annual weeds and protect yield
Mark Bernards, UNL Extension Weed Specialist and Lowell Sandell, UNL Extension Weed Science Educator

Getting the Most from Fungicides on Corn and Soybean
• When fungicides are most effective
• Application timing
• Fungicide use for plant health?
• Resistance
Loren Gerdes, UNL Extension Plant Pathologist and Tamara Jackson, UNL Extension Plant Pathologist

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• Learn how to schedule irrigation based on ET versus water sensors
• Learn about ways to get crop ET estimates during the growing season
Austin Noyes and Gary Zvetek, UNL Extension Educators

Herbicides/Fungicide Applications and Impact on Corn Ear Development
• Defining earred, transgenic, and other deferrals
• Ear development in relation to plant growth stage
• The interaction of herbicides, fungicides, adjuvants, and plant growth stage on ear deformities
• The science behind why growth stage restrictions for pesticides application are necessary
Mark Bernards, UNL Extension Weed Specialist; Tamara Jackson, UNL Extension Plant Pathologist; and Lowell Sandell, UNL Extension Weed Science Educator

Decision Making on Hybrids and Varieties: Show Me the Data!
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• How seed technology can be used as a risk management tool
Dan Lee, UNL Professor of Agronomy and Horticulture and Lowell Sandell, UNL Extension Weed Science Educator

CORN EAR DEVELOPMENT UNIFORMITY
• Uniform corn plant and ear development are necessary for every plant to reach its optimum yield potential and contribute to the optimum yield potential of the field. This session will help growers understand the variability of plant-to-plant ear development in a corn crop and diagnose a few of the common factors that can occur in the field, including:
  - Influence of stand density
  - Uneven crop emergence
  - Nitrogen nutrition
  - Crop stress during grain fill
Bill Beringer, Technical Services Manager for Pioneer Hi-Bred International

CROP SCIENCE INVESTIGATION (CSI)
This hands-on session will engage clinic participants in diagnosing problems associated with the growth and development of crops in relation to pest management, soil and water management, nutrient management, and crop management.
Kevin Eschenbrenner and Jennifer Herr, UNL Extension Educators; and Laura Dottreer, UNL Doctor of Plant Health Student

Update on Goss’s Wilt
• Advances in diagnostics
• Survey opportunity
• Pathogen changes
Tamara Jackson, UNL Extension Plant Pathologist and Craig Langemeier, UNL Graduate Student

August 25 Late Season Clinics
6 TOTAL CCA CREDITS
(Crop Prod. – 4.0, Soil & Water Mgt. – 1.5, and Pest Mgt. 3.5)

Keys to Entering the 100 Bushel Soybean Club
• How soybean plants produce yield
• Importance of light capture
• Barriers to increasing yield and how to overcome them
Bill Metallo, Soybean Specialist, University of Missouri

Cover Crops and Their Benefits
• See various cover crops growing in wheat residue
• Gain knowledge about selection and management
• Learn about weed control benefits and microbial response
• Understand nutrient recycling and nitrogen fixing potential
• Discuss water use and the benefits to the soil system
Paul Jaus, UNL Extension Educator; Jim Schneider, UNL Extension Educator; and Sam Mowrath, UNL Graduate Student

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