

“ Many things learned when implemented would pay big dollars to growers.”

- 2008 CMDC Participant

Crop Management Diagnostic Clinics

UNIVERSITY OF
Nebraska
Lincoln EXTENSION

209 Mussehl Hall
P.O. Box 830718
Lincoln, Nebraska 68583-0718

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Nebraska
Lincoln EXTENSION

Know how. Know **Now.**

Crop Management Diagnostic Clinics

In-Field Training for Agribusiness Professionals... Earn CCA Credits!



Midsummer - July 22 & 23, 2009
Late Season - August 20, 2009

University of Nebraska-Lincoln
Agricultural Research & Development Center
near Mead, Nebraska

Registration begins at 7:30 a.m.
Clinics begin at 8:00 a.m.

Some **GOOD NEWS** about increasing your bottom dollar... Our clinics provide research-based, best management training that can help you **Increase Crop Production and Increase Profitability** while protecting soil and water resources .

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.

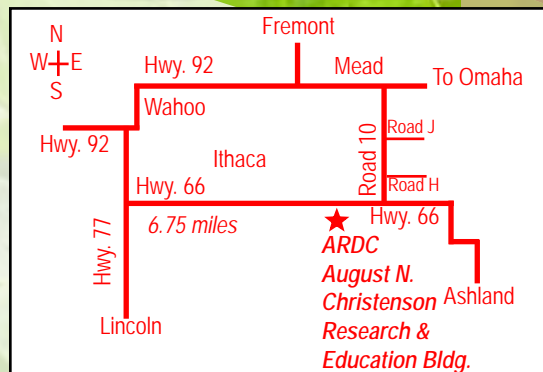
Fees: Fees include training, lunch and reference materials.

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's 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).



University of Nebraska-Lincoln
Institute of Agriculture and Natural Resources

Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska-Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska-Lincoln and the United States Department of Agriculture.



4 Ways to Register.....

- * **Online:** <http://ardc.unl.edu/training.shtml> or e-mail cdunbar2@unl.edu
- * **Phone:** (800)529-8030, have your credit card information ready
- * **Fax:** (402)624-8010, use the form below minus the credit card information

We want to protect your privacy....DO NOT LIST CREDIT CARD INFORMATION when registering via e-mail, web or fax, you will be called for this information.

* **Mail:** UNL ARDC CMDC Programs, 1071 County Road G, Ithaca, NE 68033

REGISTER 1-Week in Advance & SAVE \$50

(See pricing below)

Name _____

Daytime Phone _____

Address _____

City, State, Zip _____

E-Mail Address _____

Company - If company is to be billed, provide company name & billing address _____

Charge Card # _____ Mastercard

Visa

Expiration Date _____

Name on Card _____

Signature _____

Early registration is recommended to reserve a seat and resource materials....

- July 22: Mid-Summer Diagnostic Clinic** - \$145 before 7/15; \$195 after
- July 23: Mid-Summer Diagnostic Clinic** - \$145 before 7/16; \$195 after
- BOTH July 22 & 23: Mid-Summer Diagnostic Clinics** - \$255 before 7/15; \$305 after
- Aug. 20: Late Season Diagnostic Clinic** - \$145 by 8/13; \$195 after

2009 CROP MANAGEMENT DIAGNOSTIC CLINICS

Registration begins at 7:30 a.m. Clinics begin at 8:00 a.m.

JULY 22 Mid-Summer Clinic

6 TOTAL CCA CREDITS
(Crop Mgt. - 1.0, Pest Mgt. - 3.0, and Soil & Water Mgt. - 2.0)

In-Depth Soybean Cyst Nematode (SCN) Management

- Learn how to recognize the symptoms of SCN
- Gain an understanding of the life cycle of SCN
- Learn how to manage SCN
- See how weed populations can influence SCN populations
- Winter annual weeds that are hosts of SCN

Loren Giesler, UNL Extension Plant Pathologist; Lowell Sandell, UNL Extension Weed Science Educator; and John Wilson, UNL Extension Educator

Crop Protection/Weed Issues/Goss's Wilt

- Reappearance of an old disease
- Grass weed alternate hosts of Goss's Wilt
- Differences in hybrid and inbred resistance

Mark Bernards, UNL Extension Weed Specialist; Tamra Jackson, UNL Extension Plant Pathologist; and Lowell Sandell, UNL Extension Weed Science Educator

Troubleshooting Corn Stand Problems

- Observe planting depth effects on stands and the resulting root systems
- Discuss potential injury from herbicides and the effects on crop development
- Learn about rodent pests, damage to stands, and various control methods
- Compare residue, fertilizer, rootworm, and herbicide effects on growth
- Diagnose problems in both seedling and established corn
- Pest damage; insects, vertebrates

Paul Jasa, UNL Extension Engineer; Lowell Sandell, UNL Extension Weed Science Educator; Bob Wright, UNL Extension Entomologist; and Stephen Vantassel, UNL Wildlife Damage Project Coordinator

Stax and More Stax: Making a Smart Choice

- Yield impact of volunteer corn
- Expression of traits in volunteer corn
- Future trait technologies (drought, nitrogen use efficiency, etc.)
- Bio-tech traits: driving or preventing resistance

Mark Bernards, UNL Extension Weed Specialist and Don Lee, UNL Extension Plant Geneticist

Irrigation - Nitrogen Management

- Monitoring soil water and crop water use
- Nitrogen fertigation issues
- Estimating days to next irrigation

Charles Wortmann, UNL Extension Nutrient Management Specialist; Gary Zoubek, UNL Extension Educator; and Keith Glewen, UNL Extension Educator

Benchmarking Corn Water Productivity in Irrigated and Rainfed Systems and How to Use this Information

- Improving water productivity in Nebraska corn production
- Recent research on estimating the water productivity frontier for irrigated and rainfed corn in Nebraska - what is the maximum grain yield per unit of available water that can be achieved?
- Estimating the water productivity of an individual corn field and how it compares to the water productivity frontier
- Improving water productivity in a given field: identification of limiting factors and management practices to overcome them
- Current research to benchmark Nebraska irrigated corn water productivity under our current WEAI project (funded by the Nebraska Center for Energy Sciences Research, the Agricultural Research Division of the University of Nebraska, the Nebraska Corn Board, and the Nebraska Soybean Board)

Ken Cassman, UNL Professor of Agronomy and Horticulture

JULY 23 Mid-Summer Clinic

6 TOTAL CCA CREDITS
(Crop Mgt. - 2.0, Nutr. Mgt. - 1.0, Pest Mgt. - 2.0, and Soil & Water Mgt. - 1.0)

Crop Disasters, Late Planting and Tough Choices

- Assessing yield potential of late planted crops
- Early season herbicide and fertilizer applications and replant options
- Insect and disease pressure on late planted crops
- Pest management concerns; weeds, diseases, insects

Dale Flowerday, Agronomist, Dalmar Consulting; Keith Glewen, UNL Extension Educator; Tamra Jackson, UNL Extension Plant Pathologist; Lowell Sandell, UNL Extension Weed Science Educator; Charles Wortmann, UNL Extension Nutrient Management Specialist; and Bob Wright, UNL Extension Entomologist

Tailoring Weed Management Strategies for Your Field

- When weeds cause yield loss
- Considerations with late season herbicide applications
- Using WeedSOFT to access which weed management strategy is best for your field

Mark Bernards, UNL Extension Weed Specialist and Lowell Sandell, UNL Extension Weed Science Educator

Improving Nutrient Management

- Advise on the conversion of CRP to row crop production
- Make corn N recommendations for a field using the N slide rule
- Advise on soil sampling of a field with varied soils and land use history.

Charles Wortmann, UNL Extension Nutrient Management Specialist

Alfalfa Disease Management

- Foliar diseases
- Root and crown rot diseases
- Management

Bruce Anderson, UNL Extension Forage Specialist; Stephen Wegulo, UNL Plant Pathologist; and Bob Wright, UNL Extension Entomologist

Optimizing Yield in

Irrigated Soybean Systems

- Plant irrigated soybeans early
- Utilize more of the stored soil water
- Pod elongation (R3) is a critical stage

Jim Specht, UNL Professor of Agronomy and Horticulture

How Can Weather Forecasts be So Wrong, So Often?

- The different types of weather models
- Global and regional influences on the local forecast
- Initializing weather model variables
- Seasonal trends and weather model accuracy

Al Dutcher, State Climatologist, UNL School of Natural Resources



This year's clinics feature even more "CSI" Crop Scene Investigation HANDS-ON TRAINING!

MORE SUMMER 2009 LEARNING OPPORTUNITIES...

- **Soybean Management Field Days**
Unbiased, Research-Based Information for Soy Producers! 8/11 (McCook), 8/12 (Upland), 8/13 (Greeley), and 8/14 (Schuyler)
- **Irrigation & Energy Conservation Field Day**
For Irrigated Corn Producers - Conserve Water...Save Dollars! Attend on 8/26 at UNL's Haskell Ag Lab near Concord, NE
- **Solution Day**
Learn to Manage your Corn & Soy Production \$ More Wisely! Attend on 8/28 - Near York, NE

Details at www.ardc.unl.edu/whatsnew.shtml

AUGUST 20 Late Season

9 TOTAL CCA CREDITS
(Crop Mgt. - 4.5, Nutrient Mgt. - 1.5, and Soil & Water Mgt. - 3.0)

Getting the Most Out of Your Nitrogen Dollar

- Determining N rates using the UNL N slide rule
- What's new in the *Fertilizer Use for Corn* NebGuide
- Alternative products for N management: which products and when are these likely to be profitable

Charles Shapiro, UNL Soil Scientist - Crop Nutrition and Charles Wortmann, UNL Extension Nutrient Management Specialist

Soybean Management - Creating Higher Potential Yield

- Plant early - use the longer sunlit days
- Narrow rows - close the canopy sooner
- Seeding rates - impact on yield & branching
- Scheduling irrigation - the importance of when

Jim Specht, UNL Professor of Agronomy and Horticulture

Corn Growth and Ear Development

- Understand how a corn plant develops and produces ears
- Contrast uniformity of spacing to uniformity of emergence
- Observe the effects of various stresses on stalk and ear development

Learn about ways to improve yields by reducing stand variability
Dale Flowerday, Agronomist, Dalmar Consulting and Paul Jasa, UNL Extension Engineer

Irrigation Management

- Monitoring crop water use
- Monitoring soil water
- Determining the last irrigation

Gary Zoubek, UNL Extension Educator and Keith Glewen, UNL Extension Educator

Effects of Biostimulants/Growth Enhancers/ Anti-Stress Chemistries on Soybeans and Corn

- Soybean nitrogen production
- Soybean growth
- Soybean pod sets and yields
- Corn yields

Michael Rethwisch, UNL Extension Educator

Carbon Sequestration Report Card

- UNL Carbon Sequestration Project (CSP) update
- CSP results compared to other mid-west sites
- Soil C-sequestration in a Cap & Trade World
- What about nitrous oxide and agriculture?

Dan Walters, UNL Extension Soil Scientist