

## Crop Management Training Programs

# MIDWEST SOIL HEALTH CLINIC

**Thursday, Aug. 22, 2019**

Registration begins at 8:00 a.m.; Clinic is from 8:30 a.m. - 5:00 p.m.

University of Nebraska Eastern Nebraska Research and Extension Center  
1071 County Road G, Ithaca, NE

### Management Considerations to Improve the Physical, Chemical & Biological Properties of Soil

*Candy Thomas, NRCS Natural Resources Specialist*

### Measuring Bulk Density, Porosity and Infiltration, How it Impacts Soil Health

- Small ring infiltration test (initial and secondary test when soil is at field capacity)
  - Demonstrate methods for collecting and processing bulk density samples
  - Use bulk density data to determine water content, porosity and water filled pore space
- Aaron Nygren, Nebraska Extension Educator and Marty Marx, NRCS Soil Conservation Technician*

### Physical Soil Properties – The Foundation for Soil Health!

- Field assessments of soil structure, compaction, aggregate stability and function of soil organic matter
  - Keeping good soil in place, building better soil
  - Relationship to key soil functions and other chemical and biological soil properties
- Patrick Cowsert, NRCS Resource Soil Scientist and Cathy Seybold, NRCS Soil Scientist*

### Cover Crops for Improving Soil Health

- See various cover crop mixes growing in wheat residue
  - Gain knowledge about selection and management
  - Discuss growth patterns, water use, and production
  - Understand nutrient cycling and nitrogen fixing potential
  - Learn about the long-term benefits to the soil system
- Paul Jasa, Nebraska Extension Engineer and Gary Lesoing, Nebraska Extension Educator*

### What is Soil Biology - Active Carbon Test

- What conditions are important to improving soil ecology?
  - Is increasing soil biology diversity important to improving crop yields and reducing input costs?
  - How can soil biology and soil health be measured?
  - The presenters will spend time in the pit illustrating differences in soil biology
- Aaron Hird, NRCS State Soil Health Specialist and Candy Thomas, NRCS Natural Resources Specialist*

### Soil Characteristics, Productivity and Landscape Position

- Effective use of field maps, soil interpretation, soil survey information, management history, in-field characterization and on-site investigation
  - Sampling for agronomic soil tests
  - Soil pit evaluation and discussion
- Neil Dominy, USDA-NRCS Nebraska State Soil Scientist and Keith Glewen, Nebraska Extension Educator*

### Chemical Soil Properties

- Hands-on assessment of Soil Temp, EC, pH, N and P conditions
  - Relationship of chemical properties to soil functions (nutrient cycling)
  - Onsite assessment and impact of different management systems
  - Relationship of physical, chemical properties and biological properties; and soil health
- Michael Kucera, USDA-NRCS Agronomist, National Soil Ecology Team, Dan Gillespie, NRCS No-till Specialist, and Keith Byerly, NCGA Field Manager, SHP Kansas and Nebraska*

## 6.5 Total CCA Credits

6.5 - Soil & Water Mgt Applied for and pending

Healthy Plants  
Start with  
Healthy Soil



  
United States Department of Agriculture  
Natural Resources Conservation Service

We wish to express our appreciation to the USDA-NRCS, private industry professionals and UNL staff and faculty for their contribution to the contents of this training resource and for their efforts in sharing their expertise and knowledge at this educational program.

**Additional 2019 sessions at:**  
<https://enrec.unl.edu/crop>  
Soybean Production - Aug.27  
Corn Production - Aug. 28



EXTENSION

# CROP MANAGEMENT DIAGNOSTIC CLINICS

**SAVE \$**

When you register  
at least 1-Week  
in advance

**For Credit Card  
Registrations:**

<https://go.unl.edu/2019cmdc>  
(402)472-2966 or  
[extevents@unl.edu](mailto:extevents@unl.edu)

**Cash or Check  
Registrations can  
be directed to:**

Nebraska Extension  
CMDC Programs,  
1071 County Road G,  
Ithaca, NE 68033  
If sending a check  
or bringing cash or  
check day of program,  
register complete this

## Registration & Clinic Details

Name

Daytime Phone

Address

City, State, Zipcode

E-Mail Address

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



Clinic(s) you are registering for:

- Soil Health Clinic - Aug. 22 - \$115 by 8/15, \$140 after
  - Soybean Production Clinic - Aug. 27 - \$115 by 8/21, \$140 after
  - Corn Production Clinic - Aug. 28 - \$115 by 8/22, \$140 after
  - Both Corn/Soy Production Clinics - \$170 by 8/22, \$220 after
- Total: \_\_\_\_\_

If paying by check, make checks payable to  
Nebraska Extension

### See each session's flyer for registration and clinic start times.

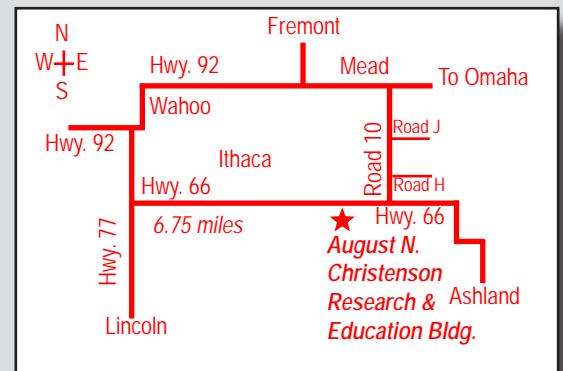
Pre-registration required. All registrants will be sent a confirmation letter, receipt and finalized schedule. Space is limited; your registration is not guaranteed unless payment is received. Cancellations received 1 week before the clinic will receive a full refund. In the event of program cancellation 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. *Money back guarantee - If you are not satisfied with quality and content of the Nebraska Extension Crop Management Diagnostic Clinics, you may request a refund.*

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 Eastern Nebraska Research and Extension Center, 1071 County Road G, Ithaca, NE. Participants meet at UNL Eastern Nebraska Research and Extension 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).



Map and directions online at:  
<http://go.unl.edu/enrecmap>