Wednesday, July 18, 2018
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
Aaron Hird, NRCS State Soil Scientist

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, Marty Marx, NRCS Soil Conservation Technician, and Dan Gillespie, NRCS No-till Specialist

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
Charles Shapiro, UNL Emeriti Professor of Agronomy and Horticulture, Soil Scientist - Crop Nutrition

Cover Crops and How They Impact 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 & Gary Lesoing, Nebraska Extension Educator

What is Soil Biology? What You Can Do to Change It!
- 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 Scientist and Paty Jones, NRCS Lead Physical Science Technician

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

6.5 Total CCA Credits
(Applied for and pending - 6.5 - Soil & Water Mgt.)
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 - July 18 - $95
- Soybean Production Clinic - Aug. 22 - $95 by 8/17, $120 after
- Corn Production Clinic - Aug. 23 - $95 by 8/17, $120 after
- Both Corn/Soy Production Clinics - $150 by 8/17, $200 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 7 days 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