

Soil Health Workshop: Regenerative Agriculture

Carbon, Microbial Processes and Soil Health Indicators

Thursday, September 12, 2019

Dickinson Research Extension Center (DREC) – Ranch HQ

11092 15th St. SW, Manning, ND

From ND Hwy 22, turn onto 15th St. SW and travel west 2.8 miles

Please RSVP for Meal Count
By September 6 to
Toby Stroh
701-590-1151
toby.stroh@dickinsonstate.edu
Workshop is FREE!



Pea-Barley



Steers and Pea-Barley Residue



Mycorrhizal Fungi

- | | |
|-------------|---|
| 8:35-8:45 | Welcome
Dr. Chris Schauer , Interim Director, DREC |
| 8:45-9:30 | Importance of mycorrhizal fungi in crop and grazing systems
Dr. Heike Bucking , Soil Microbiologist, South Dakota State University |
| 9:30-10:00 | Fate of carbon in the ecosystem
Dr. Joshua Steffan , Associate Professor of Soil Microbiology, DSU |
| 10:00-10:15 | Break |
| 10:15-10:45 | Soil health principles and tabletop slake/Water holding capacity demo
Hal Weiser , North Dakota State Soil Health Specialist, NRCS |
| 10:45-11:15 | Soil Web Soil Survey
Jeanne Heilig , Soil Survey Team, USDA/NRCS
UC Davis Soil Web App
Hal Weiser , North Dakota State Soil Health Specialist, NRCS |
| 11:15-11:30 | Introduction into soil health field indicators
Susan Sampson-Liebig , Soil Quality Specialist, NRCS |
| 11:30-12:15 | Working Lunch – DREC Soil DNA project report
Dr. Songul Senturklu , Turkish Visiting Scholar, NDSU |
| 12:15-12:30 | Travel to Section 19 |
| 12:30-3:30 | Rotating field soil health indicator and soil pit stations
Station #1: Residue, cover, biological decomposition
Doug Landblom , Beef Cattle Specialist, DREC
Station #2: Soil Pit #1 – Soil horization, color, texture
John Kempenich , Soil Survey Team, USDA/NRCS
Station #3: Soil aggregates and structure
Jeanne Heilig , Soil Survey Team, USDA/NRCS
Susan Sampson-Liebig , Soil Quality Specialist, NRCS
Station #4: Soil Pit #2 – Roots, pores, and structure
Hal Weiser , North Dakota State Soil Health Specialist, NRCS
Station #5: Biological diversity, bio-pores, compaction, and crusting
Dr. Joshua Steffan , Associate Professor of Soil Microbiology, DSU |

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