Workshop: Soil, Crop & Livestock

Healthy Soils & Microbial Processes = Healthy Environment

Wednesday, September 12, 2018

Dickinson Research Extension Center - Manning Ranch

11092 15th St. SW. Manning. ND

Please RSVP for Meal Count By September 5 to **Toby Stroh** 701-590-1151

toby.stroh@dickinsonstate.edu Workshop is FREE!

Section 19, located 5.5 miles west of ND Highway 22 on 15th St. SW

9:00-9:10 Welcome - Dr. Kris Ringwall, Director, DREC

9:10-9:40 Dr. Josh Steffan, Dickinson State University Introduction to soil microbial processes

9:40-10:15 Hal Weiser, NRCS Soil Health Specialist Using cover crops – which species to plant and why

10:15-11:15 Heike Bucking, SDSU Soil Microbiologist Fungal hyphae, glomalin, soil aggregate stability, and mycorrhizal hyphae root symbiosis

11:15-12:00 Sharon Weyers, USDA-ARS Soil Scientist, Morris, MN Soil sample analysis reports: traditional soil reports (NDSU, others), biological soil analysis reports (Ward Labs, Cornell University, etc.)

> Working Lunch – Doug Landblom, DREC Beef Cattle Specialist Overview of DREC Integrated Systems Research and Ward Labs - DREC

Biological Soil Analysis Report

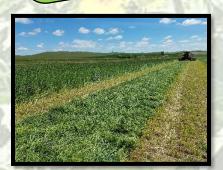
1:00-1:10 Instruction for applying soil health indicators in the field

> Rotating soil health indicator field stations (rotate every 12 minutes) Field Station Leaders: Hal Weiser, Dr. Josh Steffan, Sharon Weyers, Heike Bucking, and Larry Cihacek

Student groups application of soil health indicators

Student assessment group findings

Sponsors



Triticale hairy-vetch



Cattle grazing corn



13-specie cover crop

2:10-2:45

2:45-3:10

Caravan to Section 19

Rainfall simulator/system planning alternatives/final thoughts

DICKINSON RESEARCH EXTENSION CENTER





12:00-12:45

12:45-1:00

1:10-2:10

3:10-3:30