



United States Department of Agriculture
Natural Resources Conservation Service

SOIL HEALTH EXPOSITION

“Rebuilding Soils for a Changing Climate”

MU Bradford Research Center, 4968 Rangeline Rd., Columbia, MO

August 13, 2014, 9am to 5 pm

Keynote Speaker: Terry Taylor, long term no-tiller and cover crop innovator on Illinois claypan soils

Additional Topics: Field tours, soil pits, speakers on climate predictions, soil biology (Kristen Veum, USDA), cover crop and soil health economics (Lauren Cartwright, NRCS), cover crops for Missouri (Jerry Kaiser, NRCS), improving water infiltration, effects of glyphosate on soil biology (Nigel Hoilett, NW MO State)

August 14, 2014, 9am to 5 pm

Keynote Speaker: Keith Berns, cover crop innovator and educator from Bladen, Nebraska

Additional Topics: Field tours, soil pits, MDC, DNR and NRCS programs, plant interactions and the environment (Jack Schulz, MU), Missouri farmers and their cover crop experiences (Luke Linnenbringer and Linus Rothermich)

Field tours will include cover crop plots, water infiltration demo, soil properties. Lunch may be purchased on site. Vendors include Equipment Exhibits and Seed Dealers. For more information contact Kerry Clark at clarkk@missouri.edu or 573-884-7945.

2014 Soil Health Expo Agenda

“Rebuilding Soil for a Changing Climate”

August 13, 9 am to 5 pm

- 9:00 am Opening; Tim Reinbott, Bradford Research Center; J.R. Flores, USDA-NRCS
- 9:00-9:30 Why soil health matters and climatic interactions with soil. Dr. Robert Kremer, University of Missouri (MU)
- 9:30-10:00 Climate change and effects on agriculture: TBA, MU Climatology Dept.
- 10:00-12:00 Field tours (same tours will be repeated the following day- each participant can only do one tour/day)

Tour 1

Tim Reinbott (MU), Mark Abney (NRCS), Dr. Randy Miles (MU), Kayla Wolf (MU)- soil pits, rooting, cover crops, earthworms

Tour 2

Dr. Brent Myers (MU), Bruce Burdick (MU), Linus Rothermich (producer), Luke Linnenbringer (producer), Ray Wright (MU), Terry Woods (MU)- soil and plant interactions, farmers discuss cover crop, rainfall runoff demo, cover crop and herbicide interactions, pollinators

- 12-12:30 Lunch available for purchase from on-site vendors
- 12:30-1:00 Rainfall infiltration demo and water infiltration information-Ray Wright (MU)
- 1:00-2:00 Keynote speaker Terry Taylor- no-till and cover crop innovator from Illinois
- 2:00-2:15 Break
- 2:15- 4:00 Lauren Cartwright, Bryon Kirwan (NRCS)- economics of cover crops
Dr. Kristin Veum (USDA-ARS)- soil biology
Dr. Nigel Hoilett (NW MO State University)- glyphosate and soil biology
Jerry Kaiser (NRCS)- cover crop study results
- 4:00-5:00 Terry Taylor on 2nd topic

August 14, 9 am to 5 pm

- 9:00 am Call to order
- 9:00-10:00 Keynote Keith Berns (Green Cover Seed)- cover crop innovator from Nebraska
- 10:00-12:00 Tours
- 12-12:30 Lunch available for purchase from on-site vendors
- 12:30-1:00 View plots of cover crops
- 1:00-1:45 Keith Berns on 2nd subject
- 1:45-2 Break
- 2:00-2:45 MDC, DNR, NRCS programs for cover crops and soil health
- 2:45- 3:30 Dr. Jack Schulz (MU Life Science Center Director)- plant interactions and the environment
- 3:30-5:00 Linus Rothermich, Luke Linnenbringer, cover crop experiences from two mid-Missouri farmers