

SIDNEY

MSU

# ARS & EARC DRYLAND FIELD DAY

## WEDNESDAY, JULY 17<sup>th</sup>, 2024

### PROGRAM:

REGISTRATION: 8:45 AM (MDT) AT ARS FARMSITE

**Spring wheat yield, soil nitrate-nitrogen, and nitrous oxide emissions from slow nitrogen release fertilizers**

*Dr. Upendra Sainju, Soil Scientist, USDA-ARS, Sidney, MT*

**The soil microbiome advantage: How beneficial microbes promote a thriving soil agroecosystem and healthy plants**

*Dr. Rosalie Calderon, Post Doc, USDA-ARS, Sidney, MT*

**Establishment of native grasses and forbs for pollinator-friendly CRP fields**

*Dr. Brett Allen, Research Agronomist, USDA-ARS, Sidney, MT*

*Dr. John Hendrickson, Research Rangeland Mgt. Specialist, USDA-ARS, Mandan, ND*

**Bees and insect pollinators of the northern Great Plains**

*Dr. Joshua Campbell, Res. Ecologist – Pollination Specialist, USDA-ARS, Sidney, MT*

**ARS  
stops**

### FORAGE | SOLAR RESEARCH - GUEST PRESENTATION

**Integrating solar panels with dryland livestock forage systems**

*Dr. John Hendrickson, Res. Rangeland Mgt. Specialist, USDA-ARS, Mandan, ND*

**Pulse crops and protein**

*Dr. William Franck, Res. Scientist, MSU-EARC, Sidney, MT*

**Measuring the impact of weather on ascospore release for improved chickpea Ascochyta blight predictions**

*Alma Chinchilla, Plant Pathology Res. Asst., MSU-EARC, Sidney, MT*

**The effect of long-term rotations and previous crop on pea, lentil pathogens**

*Dr. Frankie Crutcher, Plant Pathologist, MSU-EARC, Sidney, MT*

**Wheat stem sawfly update: Developing conservation and augmentation approaches to improve biological control of wheat stem sawfly**

*Dr. Tatyana Rand, Research Ecologist, USDA-ARS, Sidney, MT*

**EARC  
stops**

### GRASSHOPPER | DURUM RESEARCH - GUEST PRESENTATIONS

**Grasshoppers: An inconsistent, but challenging insect pest of Montana**

*Dr. Erika Rodbell, Extension Agronomic Entomology Assoc. Spec., MSU-Bozeman, MT*

**Brief update of durum breeding and new varieties**

*BranDee Johnston, Crop Variety Promotions and Educ. Spec., MSU-Bozeman, MT*



Battling wheat stem sawfly with "bug bales"



**1 pesticide point available**

## DETAILS:

**four times  
9am-12:30pm**

**lunch provided**

*Courtesy of Richland Co. Extension*

## farm directions

*We'll meet at the ARS farmsite located about 4 miles north of Sidney off MT Hwy 16.*

*Take a left at Co. Rd 129 and a second left on Co. Rd 346. Watch for entrance sign.*

### sponsors:

Richland County MSU Extension Office  
MSU Eastern Agricultural Research Center  
USDA-ARS Northern Plains Agricultural Research Laboratory

