9:00 a.m.-Noon  Research Updates

**Fort Keogh: Introduction & Research Overview**- Dr. Lance Vermeire, will share an update on current range and livestock research being conducted at Fort Keogh.

**Lodgepole Complex Fire Recovery**- Dr. Lance Vermeire and Amanda Williams will discuss their findings about the range recovery following the Lodgepole Complex fire that took place in Garfield County in 2017.

**Grasshopper Management**- Dr. Dave Branson will talk about how grasshoppers influence grassland health, grazing system sustainability, nutrient cycling and relationships between exotic and native plants.

**Long-Term Heifer Efficiency Study**- Dr. Andy Roberts will give an update on his research exploring the long-term effects of various heifer management strategies and their ultimate effect on herd productivity.

**Variability in Cattle Gestation**- Your calving book likely has a 285 day gestation table in it to help you calculate when you want to calve, but is that number accurate? Dr. Andy Roberts will discuss variability in gestation length and factors that influence it.

**Genetic Improvement in Beef Production**- Dr. El Hay will summarize some of his current research in evaluating genotype x environment interaction in beef cattle, genetic mechanisms involved in heifer development, and genomic selection in multi-breed populations.

Noon-1:00 p.m.  Lunch  *Sponsored by Stockman Bank and catered by the Airport Inn*

1:00-3:30 p.m.  Range Tour

**Technology in Research**- Cows are important research partners at Fort Keogh. We’ll learn about the role cannulated cows play in beef cattle research.

**Grazing Management and Drought**- Dr. Kurt Reinhart will discuss what they are learning about the interaction between long-term drought and grazing management.

*This program is brought to you by:*

MSU Extension, Prairie County  Stockman Bank
Prairie County Grazing District  USDA-ARS Fort Keogh Livestock & Range Research Laboratory

For more information, contact Sharla Sackman at 635-2121 or Sandra Brown at 635-5381