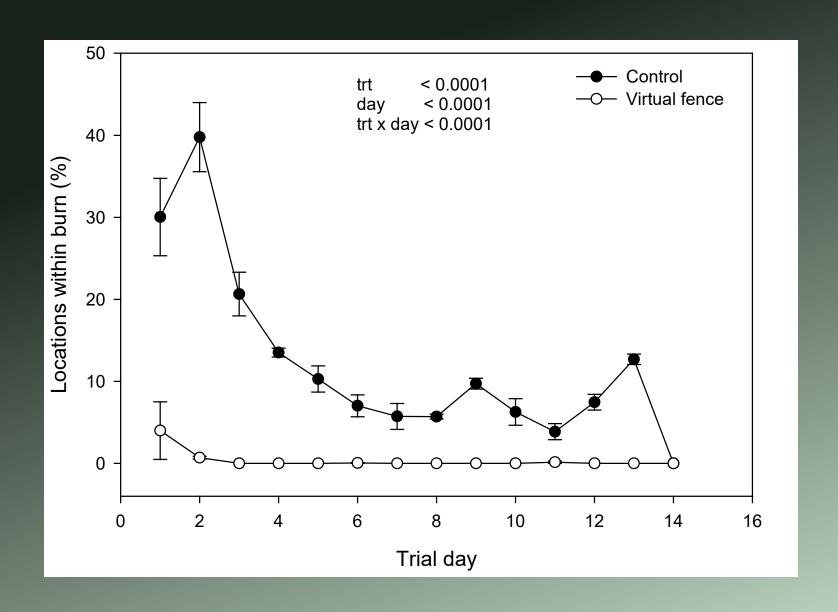




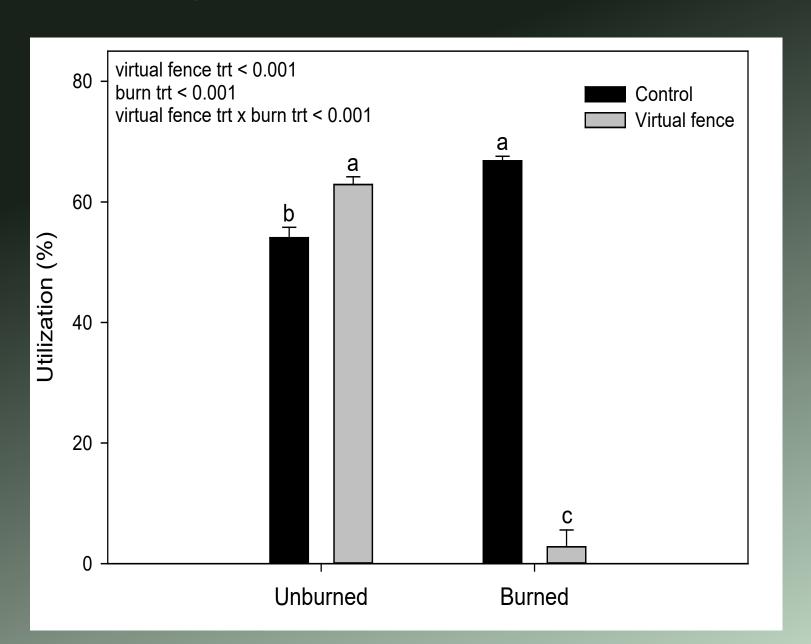




Virtual Fencing to Exclude Cattle from Burned Areas



Virtual Fencing to Exclude Cattle from Burned Areas

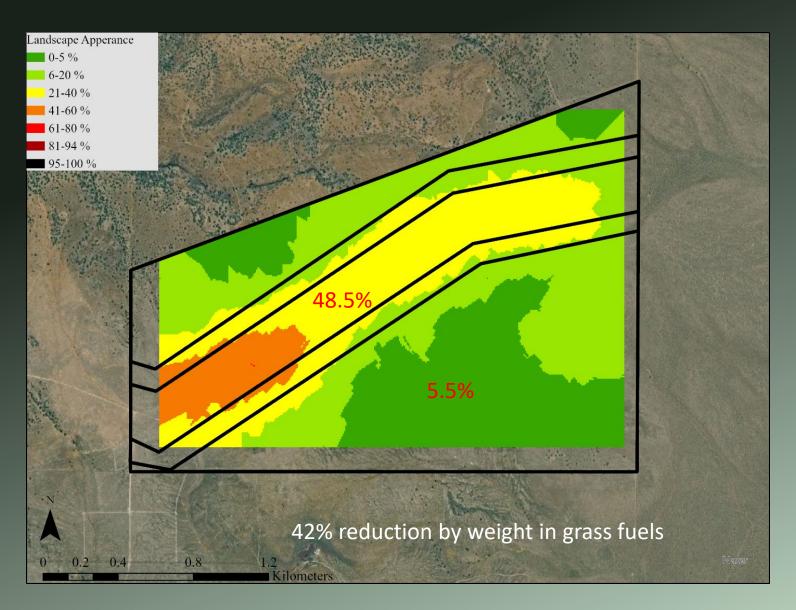


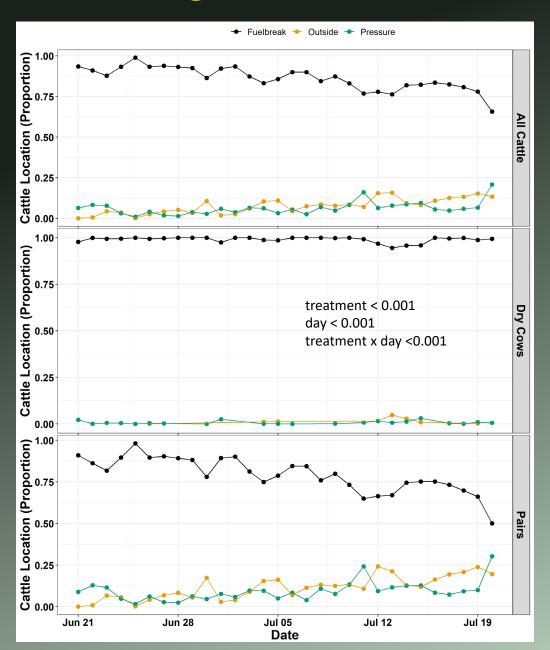
Conclusions

- Virtual fencing technology dramatically reduced but did not eliminate use of burned areas.
- Need additional tests in larger, more complex rangeland landscapes.









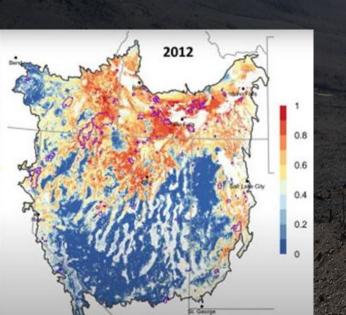
Conclusions

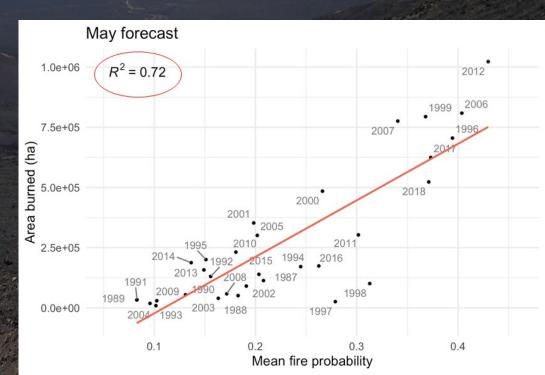
- Virtual fencing can concentrate grazing distribution to reduce grass fuels within fuel break perimeters
- Efficacy of containment relates strongly to animal reproductive status.



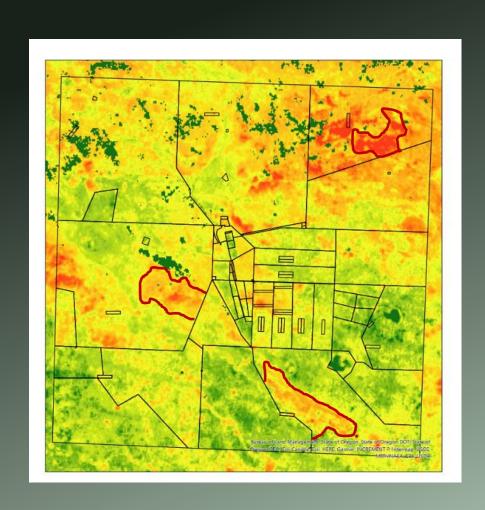
Large Scale Fuels Management

- Predicting wildfire occurrence
 - Hypothesis generation from plot data
 - Collaborative work with U of M to model wildfire probability at Great Basin Scale





Virtual Fencing for Targeted Large Scale Fuel Reduction





Take-homes

- Virtual fencing allows for spatially and temporally opportunistic containment in large fire-prone rangeland landscapes.
- Virtual fencing is not an "iron gate" and will work best when used as a tool within a larger strategy incorporating strategic water placement.
- Technology, including virtual fencing, allows us to strategically use grazing to meet management objectives.

Exploring the Boundaries of Virtual Fence



Access factsheets, videos, webinars & more resources

rangelandsgateway.org/vf





Webinar 1 - Recording, slides, handouts available online

Virtual Fence 101 & Vendor Comparison





Webinar 3 - January 23, 2025 - Registration is Open

Virtual Fence Economics



Supported by USDA NIFA WSARE (WPDP22-016), AFRI IDEAS (2022-10726), Arizona Experiment Station, the Marley Endowment for Sustainable Rangeland Stewardship & The Nature Conservancy