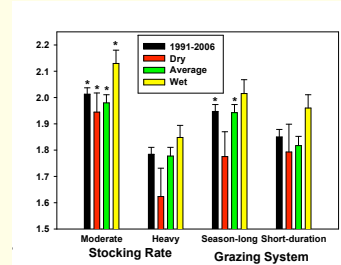


Study Notes

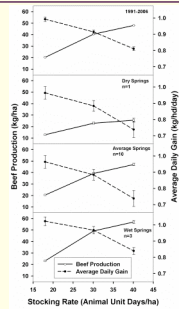
- Started in 1982, results through 2006 reported
 - Longest known grazing system X stocking rate study in North America
- No grazing in 2000 and 2002
 - Severe droughts
- Grazing seasons shortened in 1994 and 2006

Livestock Weight Gains



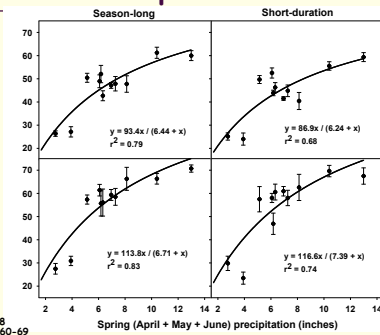
Denner et al. 2008
Livestock Science 117:60-69

Livestock Gains - tradeoffs



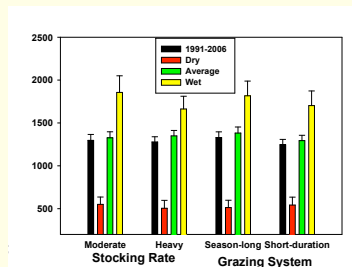
Denner et al. 2008
Livestock Science 117:60-69

Beef Production and Spring Precipitation



Denner et al. 2008
Livestock Science 117:60-69

Vegetation Production

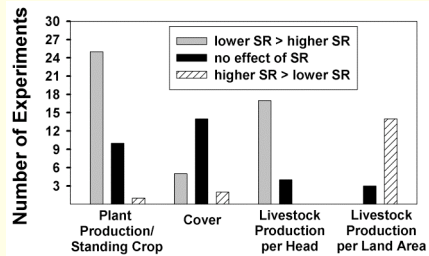


Denner and Hart 2007
Rangeland Ecology and Management 60:270-276

National Assessment

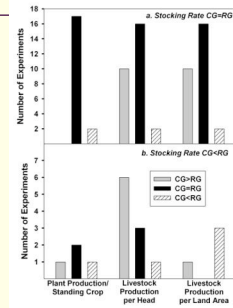
- USDA-NRCS, Conservation Effects Assessment Project (CEAP)
 - Prescribed Grazing
 - Stocking rate
 - Grazing system

Stocking Rate



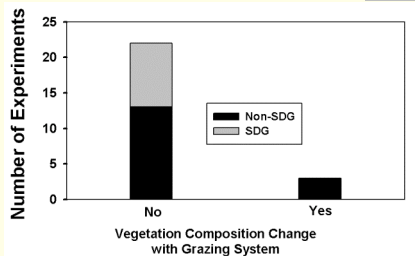
Briske, Derner, Milchunas, Tate - CEAP Prescribed Grazing Chapter, in review

Grazing System



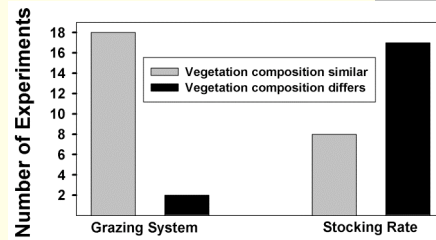
Briske et al. 2008 Rangeland Ecology and Management 61:3-17

Grazing System



Briske, Derner, Milchunas, Tate - CEAP Prescribed Grazing Chapter, in review

Stocking rate and grazing system



Briske, Derner, Milchunas, Tate - CEAP Prescribed Grazing Chapter, in review

Conclusions

- Stocking rate and grazing system, but not interaction, influenced livestock gains
 - Gains more responsive to stocking rate
- Neither stocking rate nor grazing system influence vegetation production
- Beef production increases with increasing spring precipitation
- Results being incorporated into plant-animal system models to assess production risks and assist in enterprise decision making and risk assessments



Questions?

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