













Hypotheses

Patch scale (within pasture) 1: Cattle use greater in recently burned patches

2: Greater evenness in recently burned patches



Study Design

RxFire – Jan 2017

Feb – Dec 2017

Full and patch burn treatments 16 ha pastures (n=16)

Stocking rate

o chang rate

Improved pastures – 32 cows
Semi-native – 15 cows

4 GPS collared cows / pasture





GPS Loggers

Li Battery life: +6 months GPS fix interval: 5 minutes Storage: ~70,000 points/unit 32 total cows with collars









Grazing Intensity – Patch Scale Analysis: • Proportional use comparison – each grazing period • GLM: Proportion ~ patch * date, random: pasture





































Conclusions

Patch scale

- Cattle use higher in burned areas across the year
- Evenness not significantly different between PB patches

Implications

- Cattle attracted to burned areas throughout year
- Fire may influence grazing evenness (weak evidence)
- In humid subtropical rangelands, patch burns can increase heterogeneity



