How to develop a successful grazing plan for wildland fuels reduction

Goals and Objectives

Morgan Doran Livestock & Natural Resources Advisor

June 6, 2023



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing activities?
- Integrate with a larger grazing plan?
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing activities?
- Integrate with a larger grazing plan?
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?

- Purpose of other grazing
- Timing
- Type of livestock
- Amount of residue
- How might other grazing activities support or hinder fuel reduction grazing?
- And visa versa



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing
- Integrate with a larger grazing
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?

- Commercial ranch viability
- Threatened/endangered species
- Wildlife habitat
- Water quality
- Public relations
- Public access
- Potential conflicts and mitigation



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing activities?
- Integrate with a larger grazing plan?
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?

- Long-term timeframe (years)
- Seasonal windows of time



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing activities?
- Integrate with a larger grazing plan?
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?

- Financial
- Infrastructure might determine type of livestock
- Species of concern



- Just for fuel reduction grazing?
- Does other grazing occur?
- Integrate with other grazing activities?
- Integrate with a larger grazing plan?
- What are the broader goals and objectives?
- What is the timeframe?
- What are the constraints?
- Is grazing part of a broader set of veg. management practices?





Grazing Plan Goal(s)

- Broad goal for the entire property or organization
 - Supports a mission statement
- More focused goal for the grazing plan
- Brief and clear
- Reflects values and purpose
- Backed by all vested interests
- Have a long-term application
 - Safe fire fuel environment
 - Integrate grazing into ecosystem





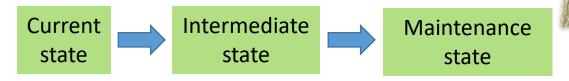
- Support the goal(s)
- Will vary across the landscape
 - Topography
 - Vegetation type
 - Proximity to structures
 - Water features
 - Other objectives
- Google Earth examples





- What do you want the landscape to look like and when?
- Use objectives as targets

Step-wise guide





Short – Medium – Long-Term



- What do you want the landscape to look like and when?
- Use objectives as targets

Step-wise guide





Short – Medium – Long-Term



• S.M.A.R.T. Objectives are **S**pecific **M**easurable **A**chievable Relevant Time-bound





- Holistic approach in developing objectives
 - Grazing plan objectives should support broader objectives
 - Public relations & access
 - Water quality
 - Species of concern
 - Capacity building
 - Identify conflicting objectives and explain reason





- Static versus adaptive objectives
 - Grazing plan is a living document
- Experience-based
- Science-based







Russell L. Rustici Rangeland & Cattle Research Endowment

UC

CE

Vollmar

TURAL LANDS CONSULTIN

Munch that grass biomass reductions reduce fire hazards

Roxanne Hulme Foss, Vollmar Natural Lands Consulting Roxanne@vollmarconsulting.com

Matthew Shapero, UC Cooperative Extension <u>mwkshapero@ucanr.edu</u>



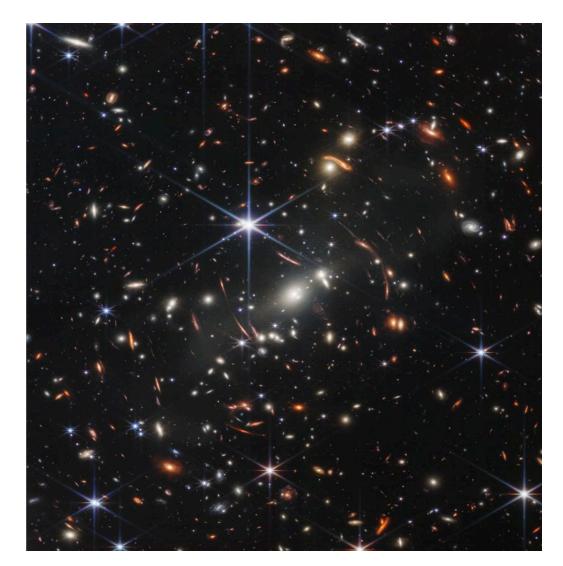


Pasture Management

Biomass Range (Ibs/acre)	Grazing Level	Potential Fire Behavior
>3,500	Ungrazed	Likely flame heights above 4 ft and all biomass is burned
3,500 to 2,500	Ungrazed or very light	Possible flames above 4 ft and majority burned
2,500 to 1,250	Light to moderate	Flames likely below 4 ft and fire will not be stopped
1,250 to 400	Moderate to heavy	Flames below 4 ft and fire may be stopped
<400	Very heavy	Flames below 4 ft and highly likely fire stopped

Applicable to annual grassland/hardwood rangelands (12-40 inches precip./year), 0-25% woody cover.

- Avoid tendency to prescribe grazing practices
 - The plan objectives provide the targets
 - Let the contract grazer decide how to meet the targets
- Long-term view
 - How to re-integrate grazing back into our ecosystems





Resources

- Targeted Grazing Handbook
 - University of Idaho, https://www.webpages.uidaho.edu/rx-grazing/handbook.htm
- Blog post: Thinking of hiring a targeted grazing contractor?
 - By Dan Macon, https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=29673
- Contact a Certified Rangeland Manager (CRM)
 - Roster: <u>https://bof.fire.ca.gov/projects-and-programs/professional-foresters-</u> registration/rpf-crm-rosters/
 - About CRM, https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=29673



THANK YOU

Morgan Doran UC Cooperative Extension mpdoran@ucanr.edu

