

# Grazing Management for Conservation Goals

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Is grazing good or bad?  
Can grazing help me achieve my land management objectives?

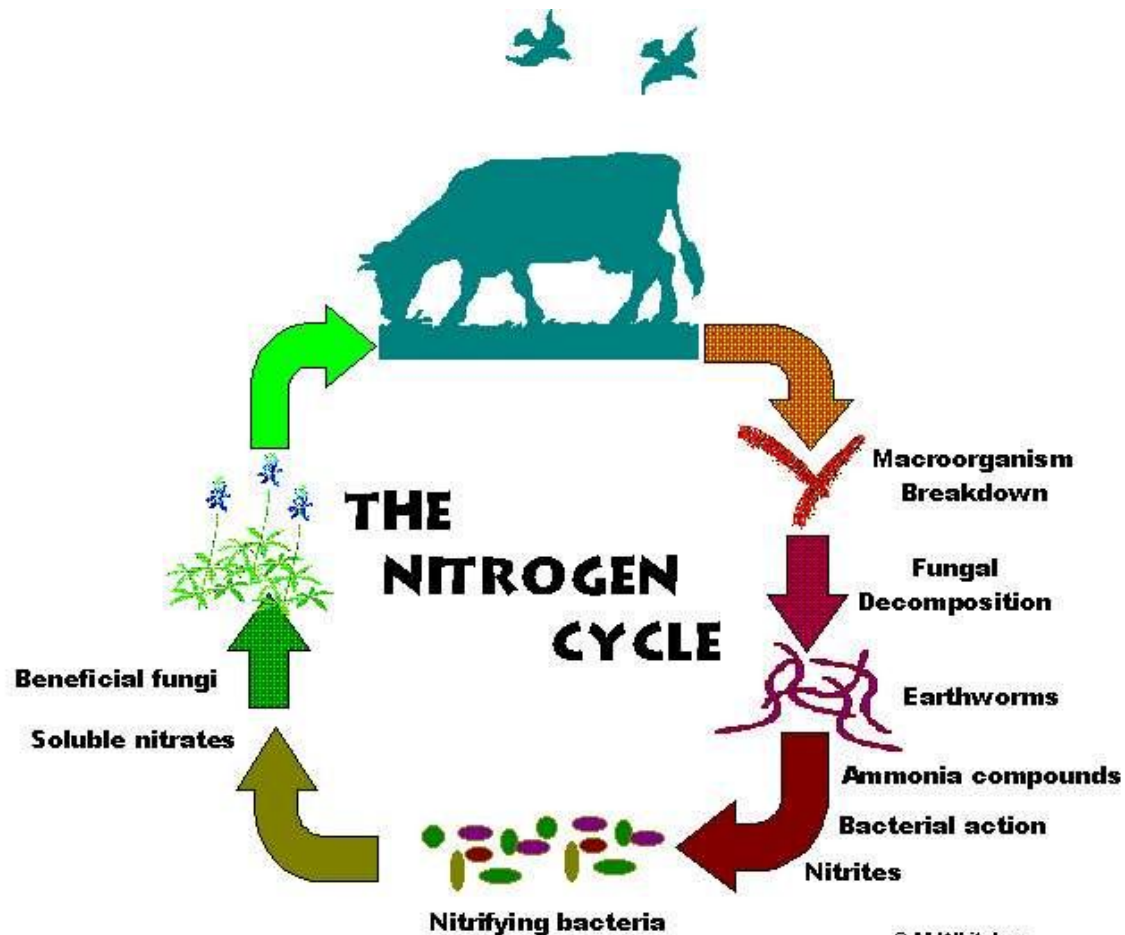




THATCH – An unnatural situation.



# Powering the nitrogen cycle in rangelands.



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<http://mrskingsbioweb.com/ecology.html>

# Grazing can be used to

- Alter species composition of site. Manage for forbs and wildflowers.
- Maintain or create specific habitat constituents for a species.
- Fuel reduction
- Target graze to reduce specific invasive species.





# Grazing Systems

- **Sites are not simply grazed or ungrazed!**
- Variables include
  - Grazing intensity
    - Stocking rate
    - Length and season of use
  - Species and class of animal
    - Goats, Sheep, Livestock
      - Cow/Calf pairs, “stockers”, different breeds.



# Developing a grazing program.

## Infrastructure needs:

- Fencing to contain cattle on site.
  - Very expensive if not present.
- Water sources.
- Access to bring livestock on and off property.



# Goals and Objectives

- Goals – what you want to happen on the land.
  - “Increase percent cover of native forbs”
  - “Increase active SKR burrows”
  - “Increase or maintain native perennial grass cover”
- Objectives – what you are going to do to get there.
  - “Decrease annual grass biomass by 60% by doing winter, early spring grazing.”
  - “Target graze mustard invaded pasture from May to July”.



# Developing a grazing program.

- Stocking rate = (number of head X length of time)
  - Results based, what do you want to leave on the ground.
  - Adaptive, not prescriptive.
- Season of use
  - Critical consideration to meet goals and objectives.



# Developing a grazing program

- Other resources to include in a plan:
  - Riparian resources
    - Adaptive management – fence last approach
      - Season of use, water sources, supplements, herding all effective at limiting riparian impacts
  - Soil impacts (compaction and erosion)
  - Water quality
    - Lots of emerging research
    - Small buffers have big impacts.
  - Recreation
  - Chaparral and CSS



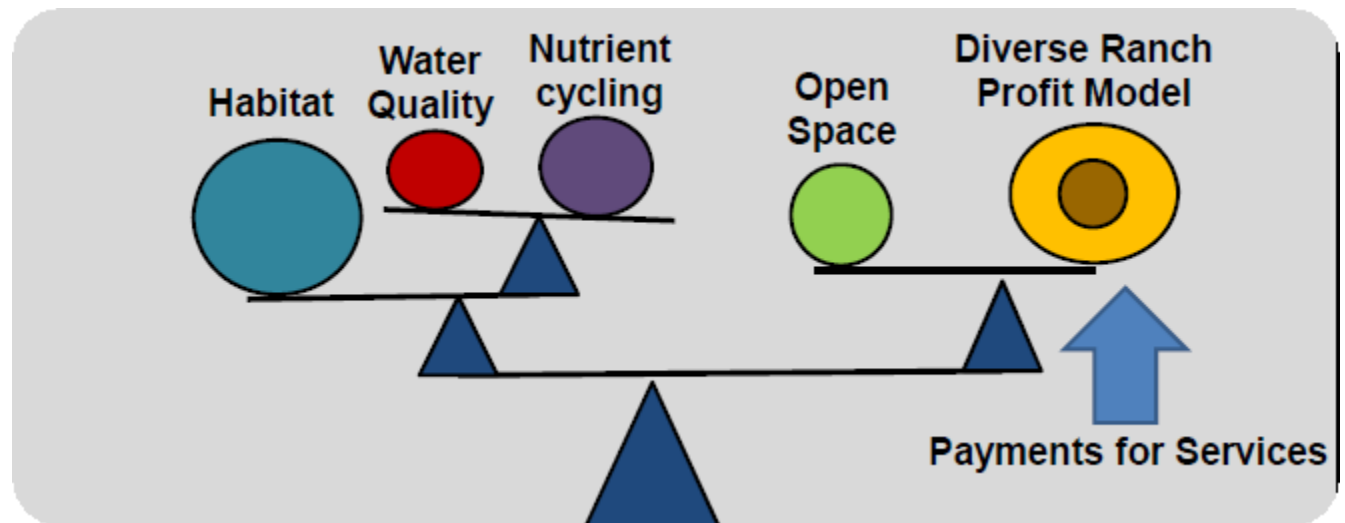
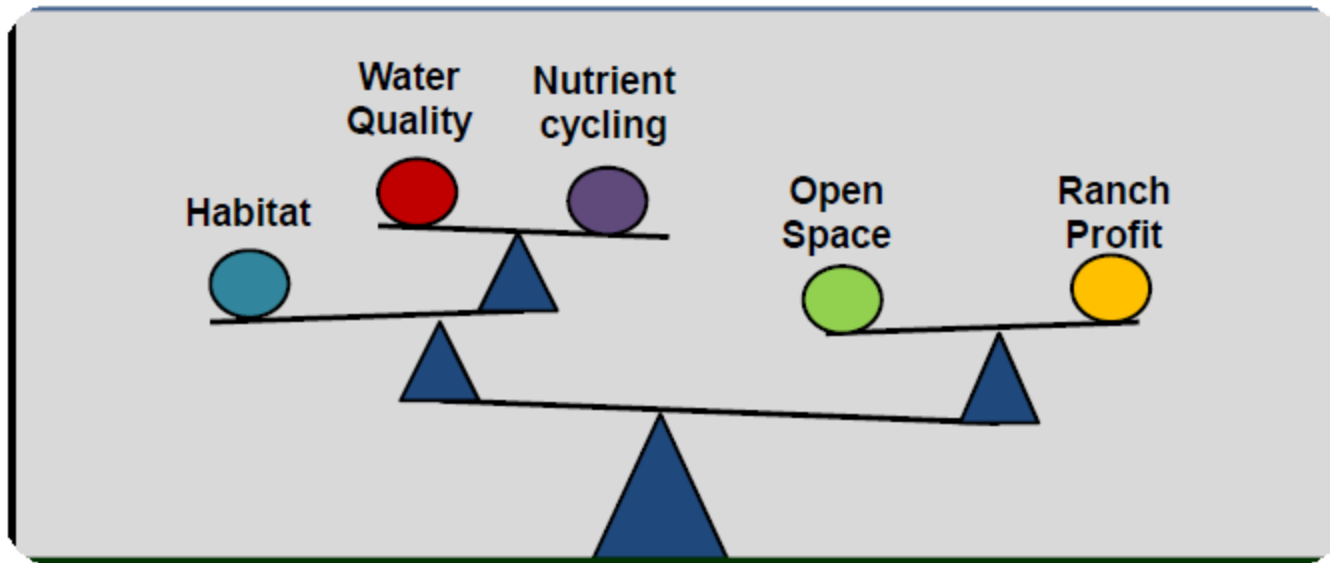
# Developing a grazing program

- Relationship with operator
  - Grazing program must be economically feasible for operator to be sustainable.
  - They need some sense of security and flexibility in the relationship.





Including the operator in the sustainability equation.



Graphics shamelessly stolen from Dr. Ken Tate, UC Davis

# Resources to help:

- Certified Rangeland Managers – CRM
  - Certified by California Dept. Of Forestry. Required to be involved with rangeland management activities on “forested landscapes”.
  - List can be found at <http://casrm.rangelands.org/>
- University of California Cooperative Extension.
- Local livestock operators
- Your colleagues north of the grapevine

Working to Keeping Ranchers, Ranching!

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## NEWS

March 5, 2012 – Rangeland Coalition signatories sent Senate Committee on Agriculture letter highlighting mutual priorities for 2012 Farm Bill. [Click here to read the letter.](#)

February 2, 2012 – Rangeland Coalition wrote a letter of support for 5 Dot Ranch for the Beef Improvement Federation Producer of the Year Award. [Click here to read the letter.](#)

## FEATURE

*Summit*

January 19-20, 2012  
UC Davis Freeborn Hall

[Click here for event highlights, materials and presentations.](#)



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# Useful links

- UC Cooperative Extension: Livestock, Range and Natural Resources.  
<http://ucanr.org/sites/ucelr/>
- UC Davis, Plant Sciences: California Rangelands.  
<http://californiarangeland.ucdavis.edu/>
- California Rangeland Watershed Lab.  
<http://rangelandwatersheds.ucdavis.edu/index.htm>
- California-Pacific Society of Range Management. <http://casrm.rangelands.org/>
- Bush, Lisa. “Grazing Handbook”.  
<http://sotoyomercd.org/GrazingHandbook.pdf>
- NRCS. “Conservation Benefits of Rangeland Practices”.  
<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/technical/nra/nri/?&cid=stelprdb1045811>
- The Landscape Toolbox, Tools and Methods for Effective Rangeland Management. <http://methods.landscapetoolbox.org/>