

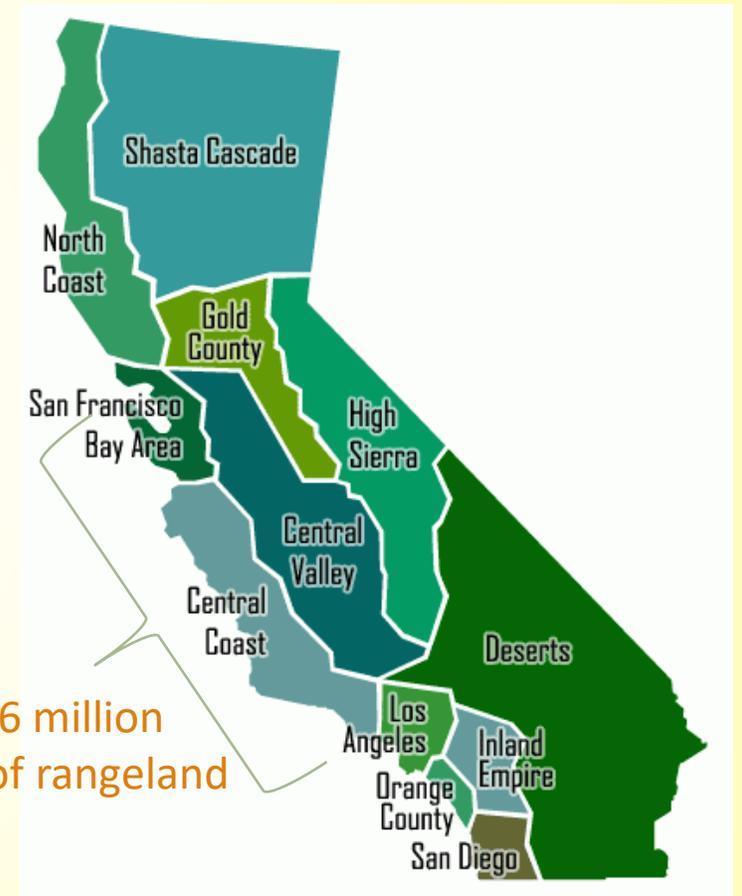


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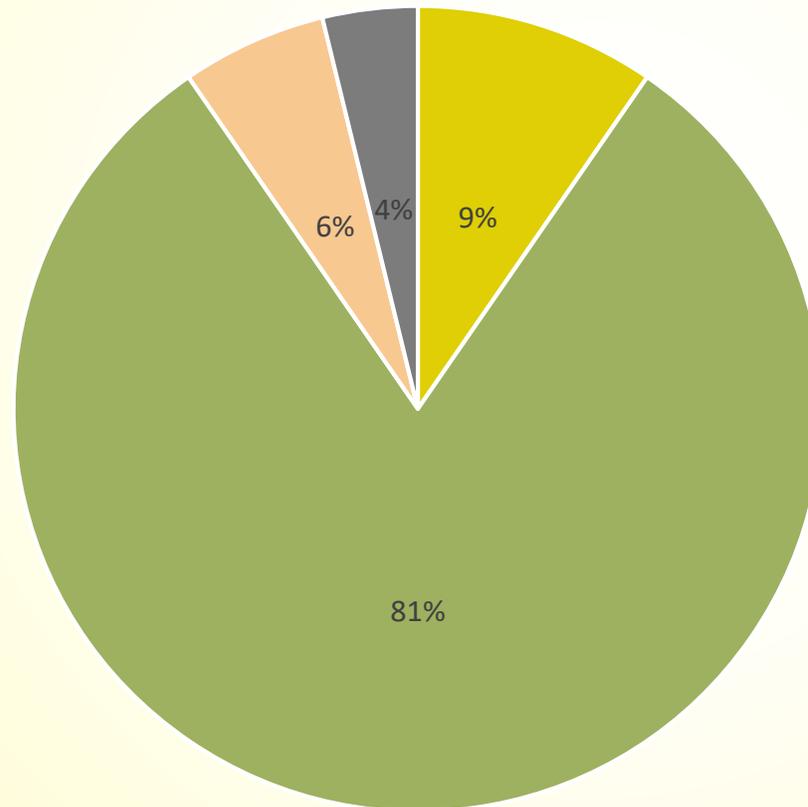
Targeted and Prescribed Grazing on California's Central Coast

Project goals

- Review the scientific literature
- Interview ranchers and agency managers
- Collect feedback at CCRC annual meeting
- Amass summary report presenting
 - A comprehensive literature review
 - Rancher/manager feedback and perspectives
 - Recommendations on targeted grazing in Central Coast rangelands



Would you be interested in learning more about targeted/prescribed grazing practices?



- I am already familiar with targeted/prescribed grazing practices
- I am already familiar with targeted/prescribed grazing practices, but would like to learn more
- I am not familiar with targeted/prescribed grazing practices and would like to learn more
- I am not interested in learning more about targeted/prescribed grazing practices

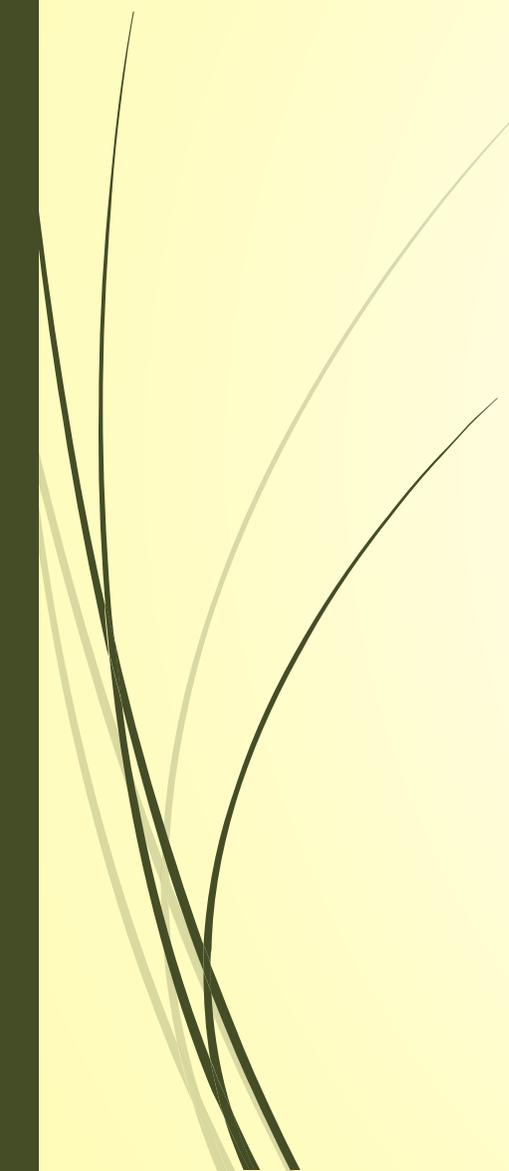
Online survey of CCRC members, March 2017



➤ TARGETED GRAZING

- “the application of a **specific** kind of livestock at a determined **season, duration, and intensity** to accomplish defined **vegetation or landscape goals**” (Launchbaugh and Walker, 2006)
- “Through **managed grazing**, livestock animals are used as a **vegetation management tool**, either with the goal of changing the plant community (e.g., converting scrub brush to pasture) or managing specific weed populations” (NCAT-ATTRA, 2014)

➤ PRESCRIBED GRAZING

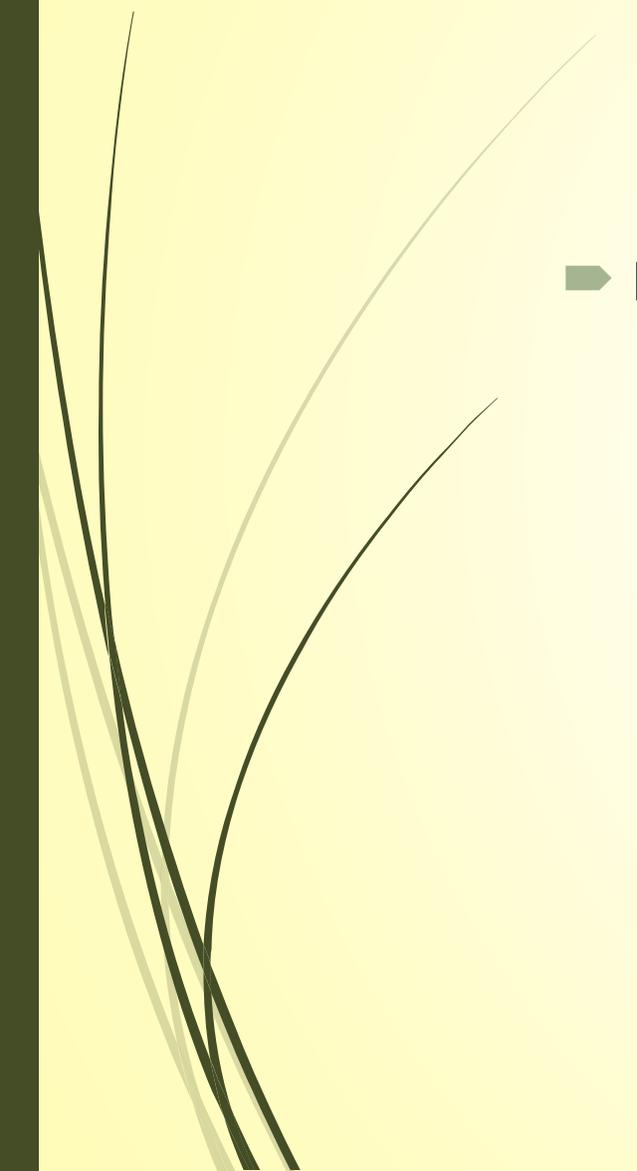
- “**provide(s) adequate nutrition** to animals while maintaining or achieving the **desired vegetative community** on the grazed site” (Butler et al., 2003)
 - “the **controlled harvest** of vegetation with grazing animals, managed with the intent to achieve a **certain objective**” (NRCS, 2010)
- 



➤ DEFERRED GRAZING/STOCKING

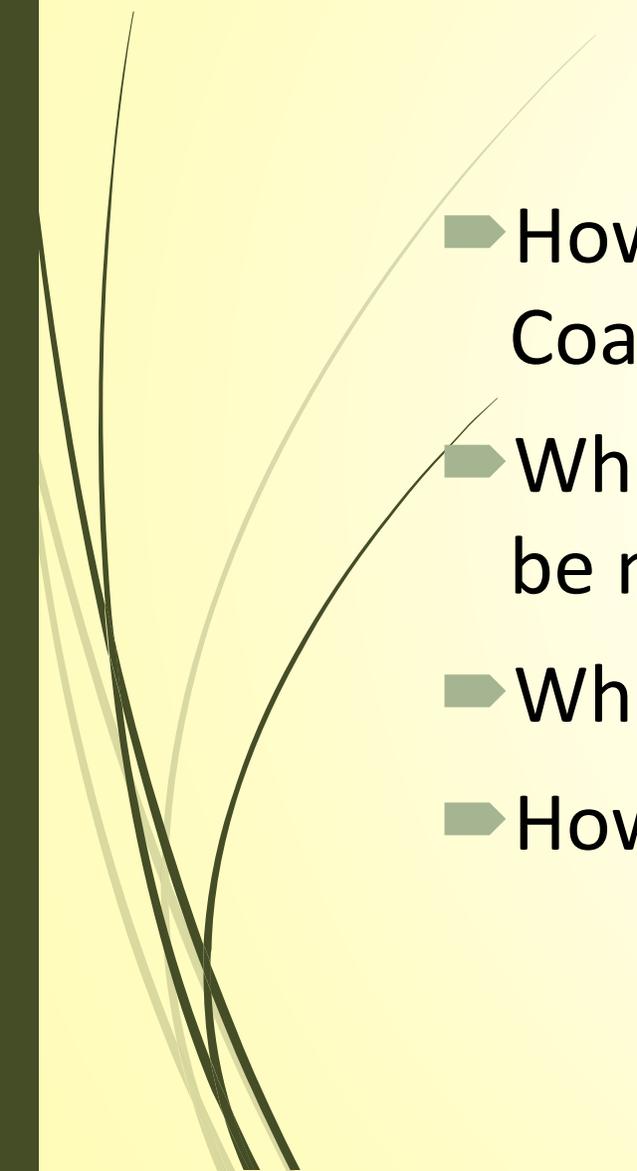
- “the **postponement or delay** of grazing or harvesting to achieve a **specific management objective**”, (The Forage and Grazing Terminology Committee, 1991)
- “The **delay of grazing** to achieve a **specific management objective**” (Society for Range Management, 1998)

➤ ROTATIONAL GRAZING/STOCKING

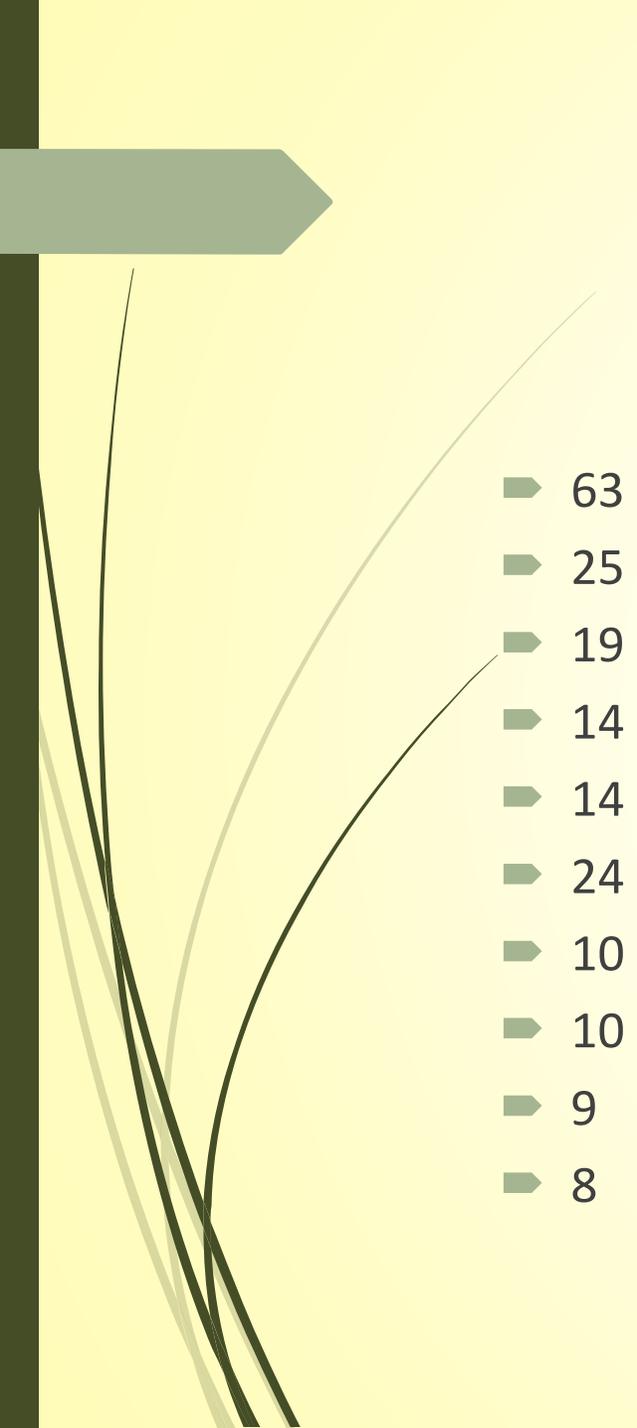
- A **grazing system that moves animals** from one pasture division to another over the course of time, allowing previously grazed areas to **rest and recover** before animals are allowed to graze them again.” (NCAT-ATTRA)
 - A grazing method that utilizes **recurring periods of grazing and rest...**” (The Forage and Grazing Terminology Committee, 1991)
 - “only **one portion of pasture is grazed** at a time while the **remainder of the pasture ‘rests’**” (Undersander et al., 2002)
 - “...also called **prescribed or managed grazing**, is a management-intensive system of raising livestock on subdivided pastures called paddocks.” (Minnesota Department of Agriculture)
- 



Questions to answer

- How do the CCRC and practitioners on the Central Coast define targeted or prescribed grazing?
 - Which conservation goals on the Central Coast would be most served by the application of targeted grazing?
 - What are the main barriers preventing implementation?
 - How do we document success?
- 

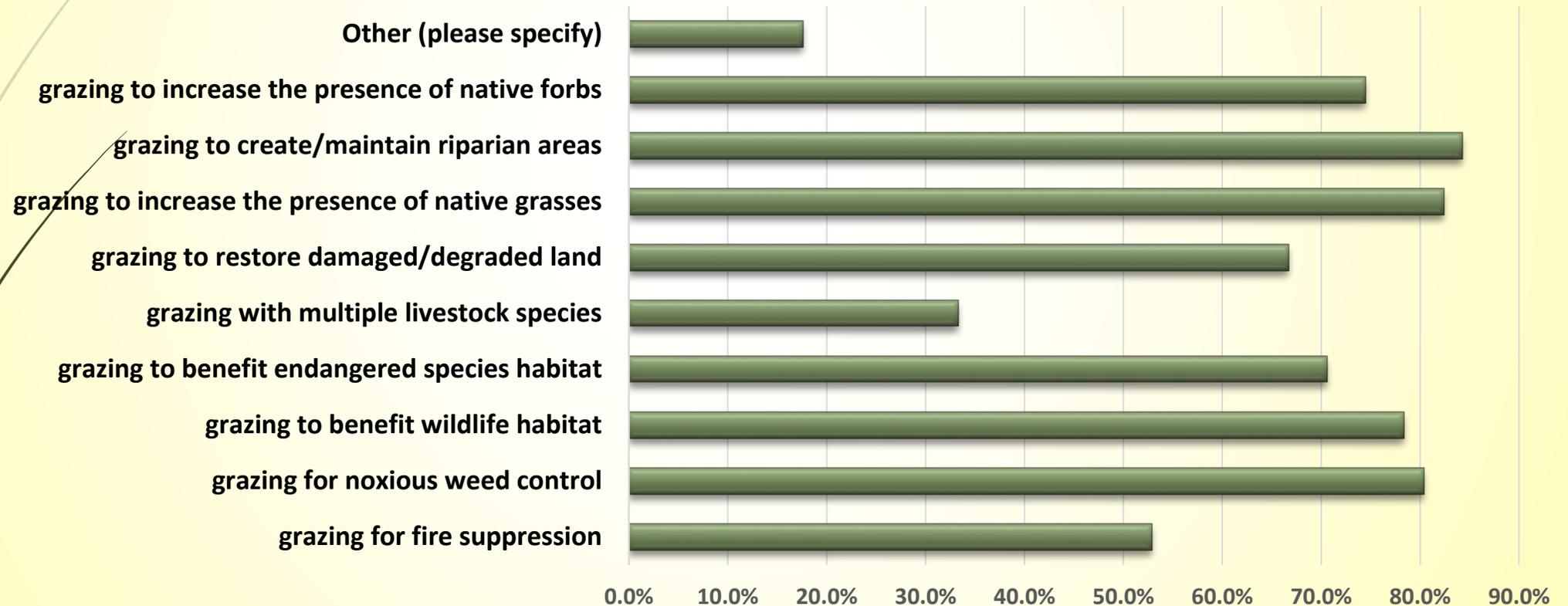
How would you define “targeted” or “prescribed” grazing?



| | | | | | |
|----|------------|---|------------|---|------------|
| 63 | grazing | 8 | uses | 5 | objectives |
| 25 | specific | 7 | cattle | 5 | ecosystem |
| 19 | management | 7 | areas | 5 | intensity |
| 14 | livestock | 6 | accomplish | 5 | habitat |
| 14 | achieve | 6 | landscape | 5 | timing |
| 24 | goals | 6 | duration | 5 | Using |
| 10 | species | 6 | certain | 5 | land |
| 10 | animals | 6 | reduce | 5 | used |
| 9 | area | 6 | plants | 5 | fire |
| 8 | vegetation | 6 | e.g | | |

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What topics would you be most interested in learning more about in hopes of using, advising others on their use, or providing effective supervision of lands where others use these practices? (select all that apply)

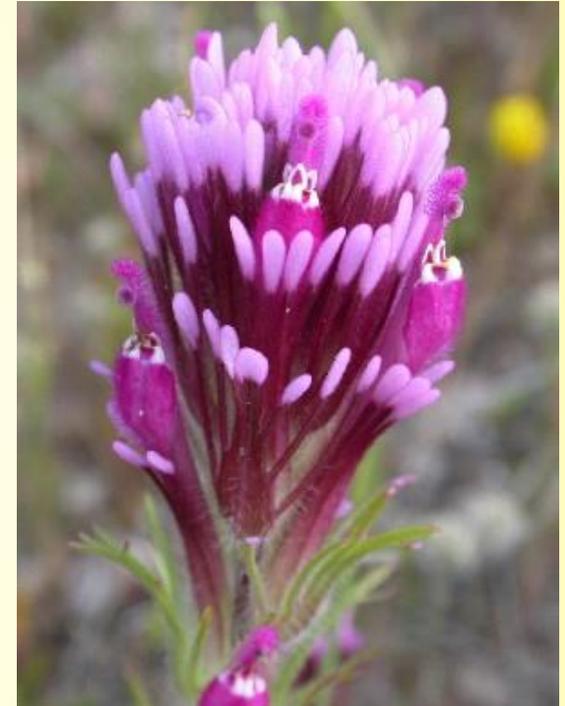


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Grazing to create/maintain riparian areas



Grazing to increase the presence of native grasses/forbs



Grazing for noxious weed control



<https://www.sccgov.org/sites/ag/mgmt/Pages/weeds.aspx>



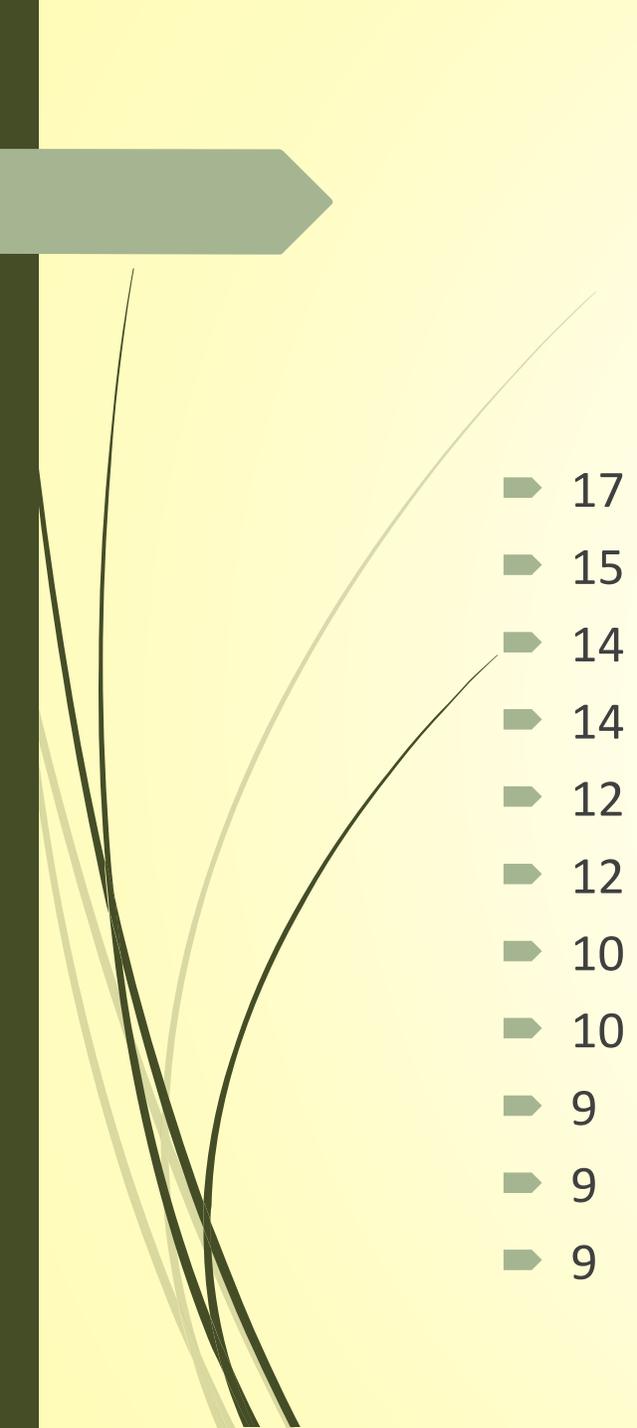
Photo by Jane Mangold, MSU Extension

Grazing to benefit wildlife/ endangered species habitat



Photo by Geoff Holroyd

Objectives that you have accomplished or hope to accomplish

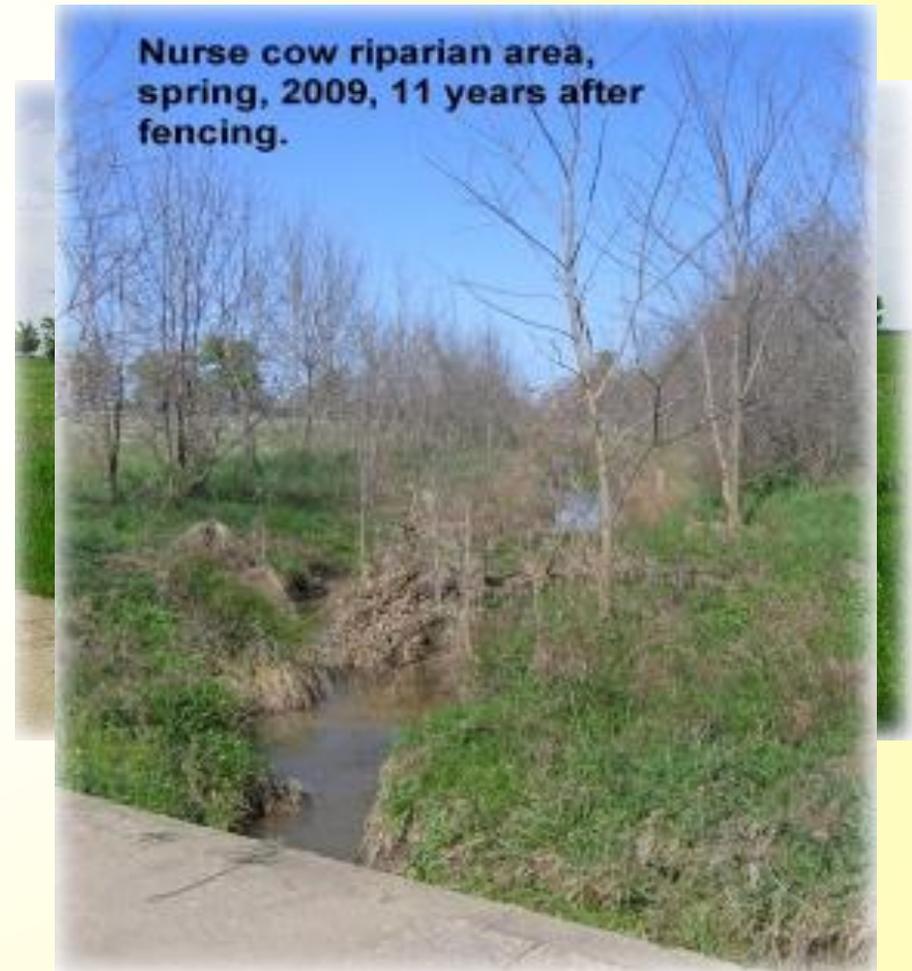


| | | | | | |
|----|------------|---|-------------|---|------------|
| 17 | habitat | 8 | soil | 5 | water |
| 15 | species | 8 | annual | 5 | used |
| 14 | plants | 7 | suppression | 5 | thatch |
| 14 | grasslands | 7 | invasive | 5 | successful |
| 12 | reduce | 7 | endangered | 5 | reduced |
| 12 | native | 6 | weed | 5 | quality |
| 10 | use | 6 | vegetation | 5 | management |
| 10 | fire | 6 | targeted | 5 | improve |
| 9 | grasses | 6 | perennial | 5 | grass |
| 9 | control | 6 | increase | | |
| 9 | areas | 6 | cover | | |

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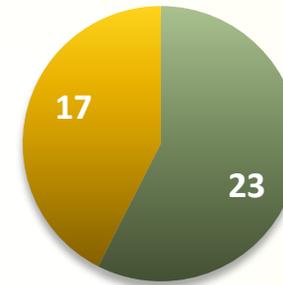
Tools to accomplish targeted/ prescribed grazing objectives

- A good grazing plan contains:
 - Goals to accomplish
 - Grazing methods to accomplish goals
 - Species
 - Grazing intensity
 - Stocking rate
 - Grazing capacity
 - Timing
 - Monitoring systems to measure whether goals were met



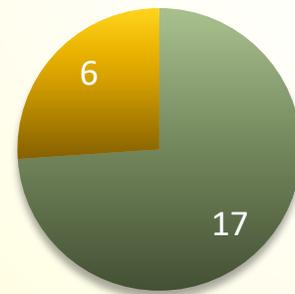
Written grazing plan including objectives/goals and ways to measure progress toward goals

Written grazing plan



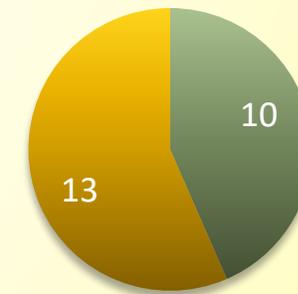
■ yes ■ no

Grazing objectives/goals



■ yes ■ no

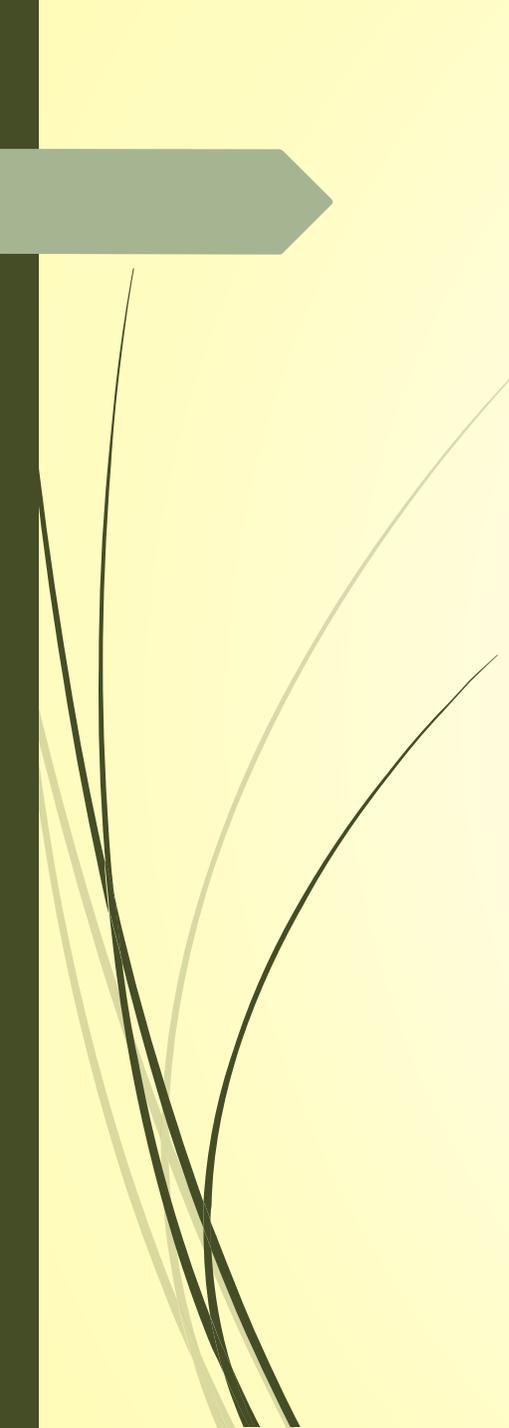
Methods of measurement



■ yes ■ no

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Major obstacles to implementing targeted/prescribed grazing practices on an operation



| | | | | | |
|---|----------------|---|------------|---|---------------------|
| 8 | land | 5 | animals | 3 | challenges |
| 8 | ranchers | 5 | fencing | 3 | change |
| 7 | can | 5 | operations | 3 | effort |
| 7 | cost | 5 | public | 3 | funding |
| 7 | herd | 5 | resources | 3 | increased |
| 7 | lack | 4 | cattle | 3 | lessees |
| 7 | water | 4 | goals | 3 | move |
| 6 | field | 4 | management | 3 | property |
| 6 | impacts | 4 | needs | 3 | rotational |
| 6 | infrastructure | 4 | pay | 3 | targeted |
| 6 | labor | 4 | time | 3 | targeted/prescribed |
| 6 | managers | 3 | benefits | | |
| 6 | use | | | | |

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