



Today's plan

- Drought Planning Trigger Dates (beef.unl.edu, Brad Schick)
- Weather-past and forecast
- Drought affects plants how?
- Reduce stocking rates-what does this look like?
- Trigger dates: what to look for and management options
- Resources





Disclaimer

Options presented today will not work for everyone

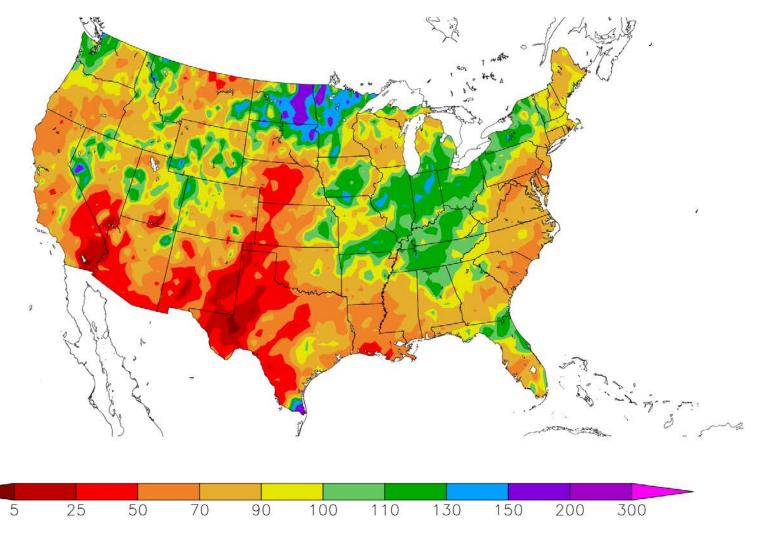
What are your ranch goals?

What are your resources?

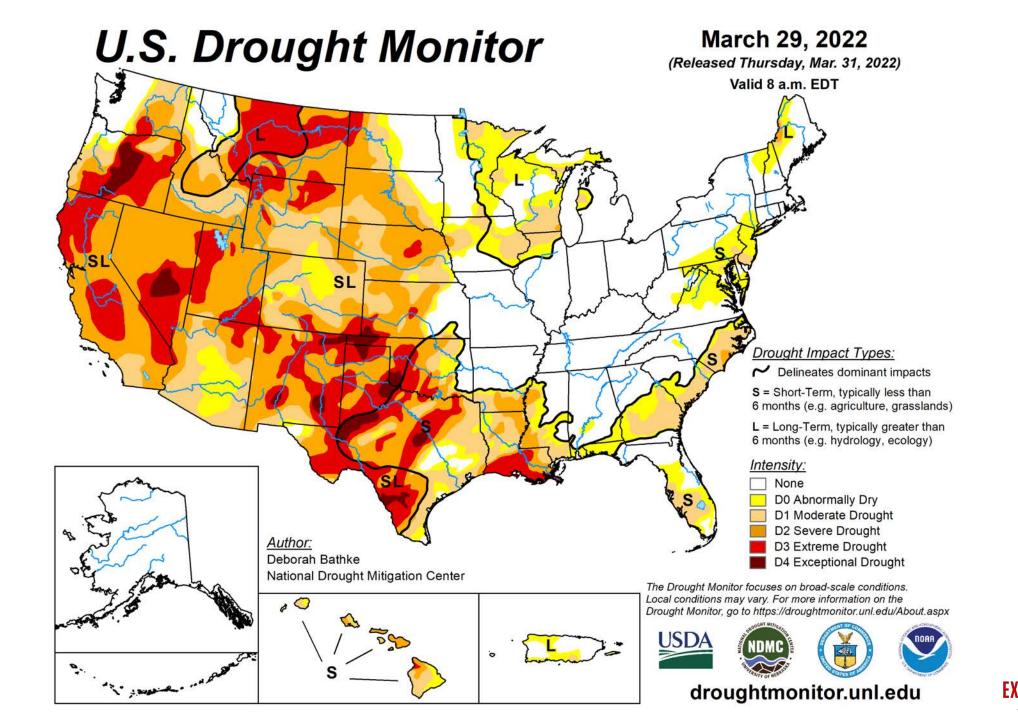
If we keep talking about it, maybe it'll rain



Percent of Normal Precipitation (%) 10/1/2021 - 3/31/2022



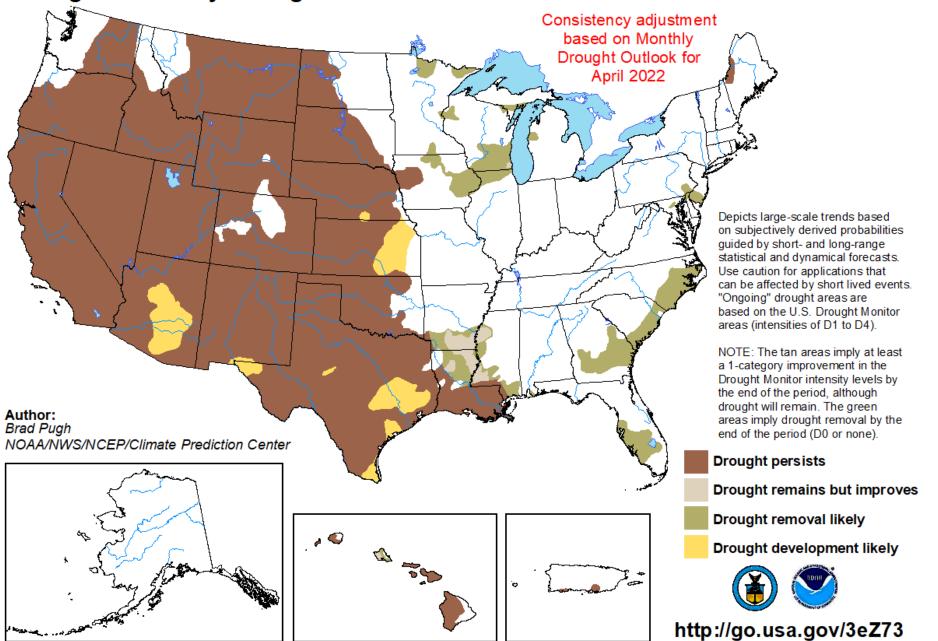




U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for April 1 - June 30, 2022 Released March 31, 2022

EXTENSION



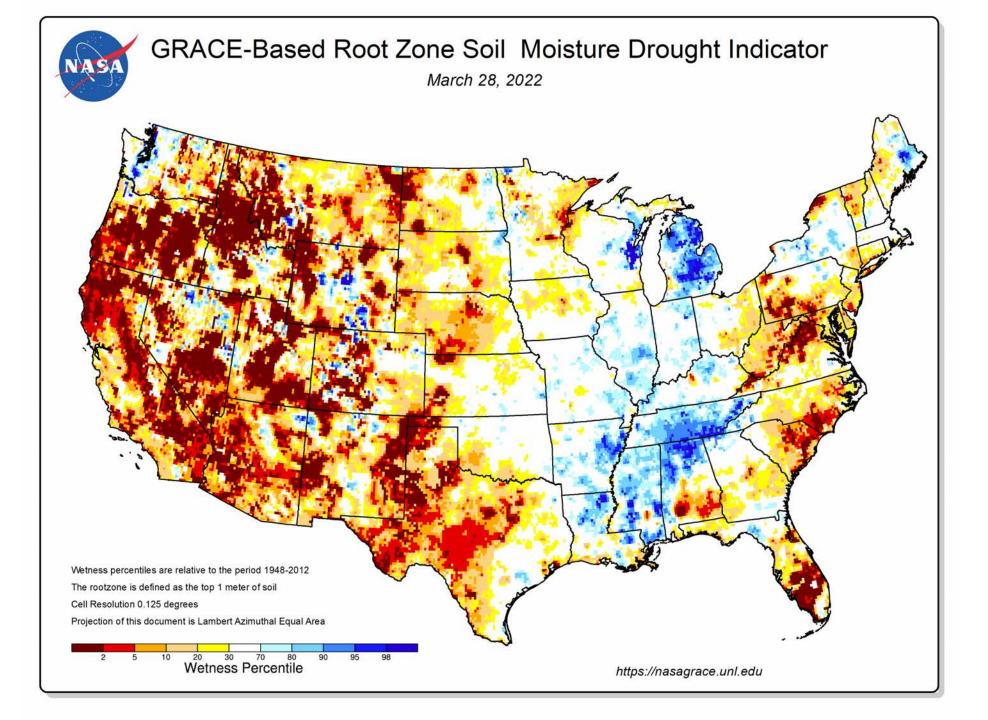


Proactive > Reactive

- Planning provides more options than reacting
- Inventory animals and feed resources







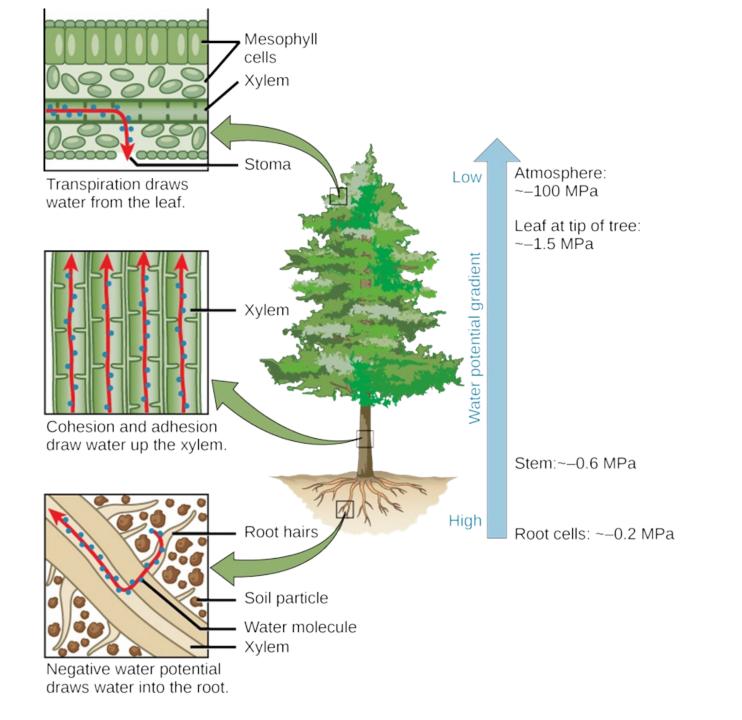




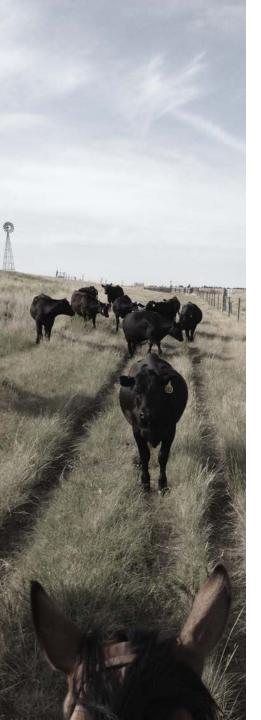
How do plants work?

- As drought progresses soil becomes drier holding onto water more tightly
- If we don't feed cows enough protein, they metabolize muscle. Same thing with plants using water & carbohydrates.









Roots

- When plants go dormant, due to drought, they use carbohydrates in roots
- Root mass shrinks, fewer roots to take up water after drought
- Overgrazing does the same thing
- If compounded by overgrazing in drought it can have long-term plant health impacts

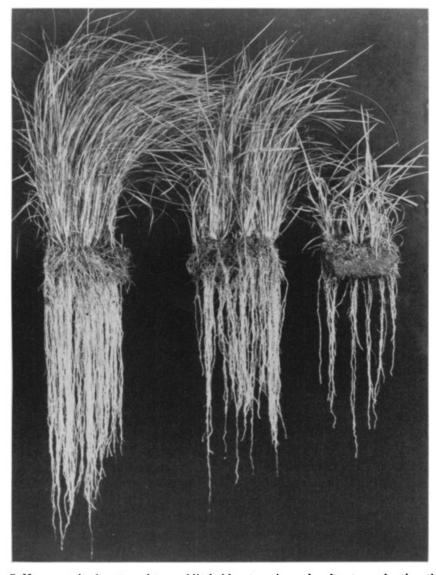


Fig. 7. New growth of roots and tops of little bluestem six weeks after transplanting the sods on May 17. The sods were each 6 inches long, 4 inches wide, and 3 inches deep but taken from a high-grade, mid-grade, and low-grade pasture, respectively.

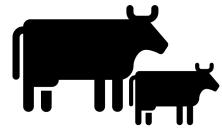


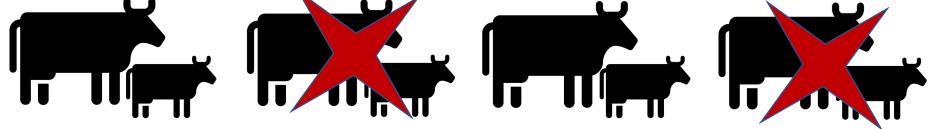


Reduce Stocking Rates

Reduce grazing length on a pasture

Reduce Animal Units (AU) on a pasture

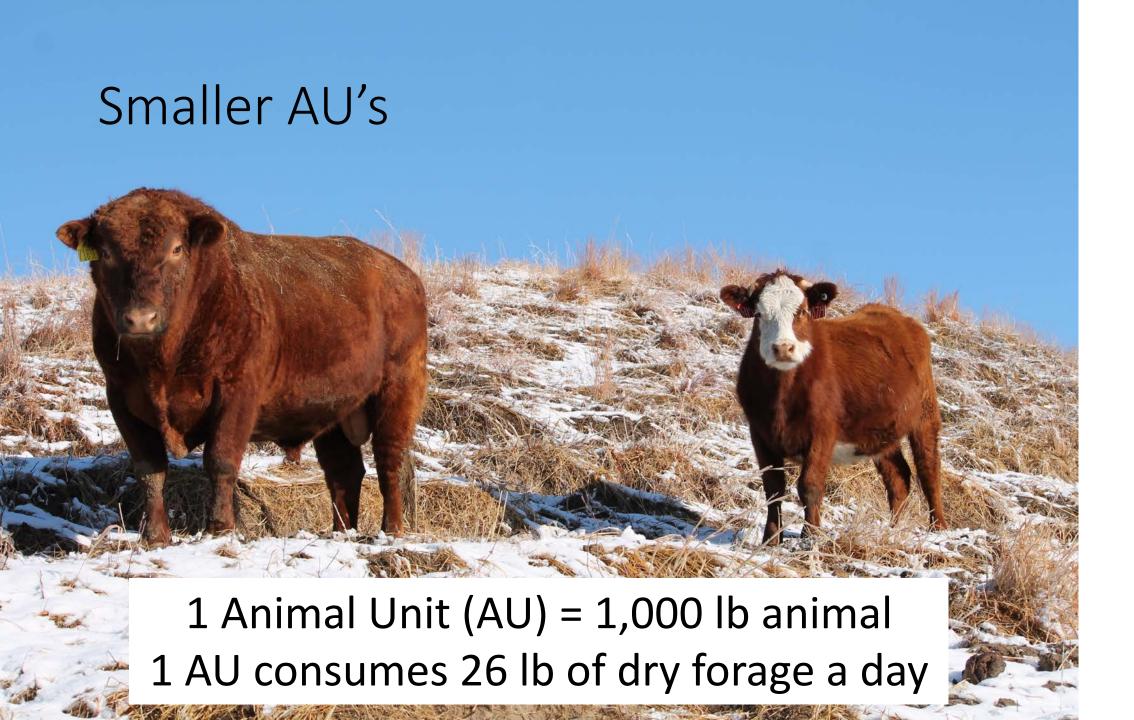
















Trigger Dates

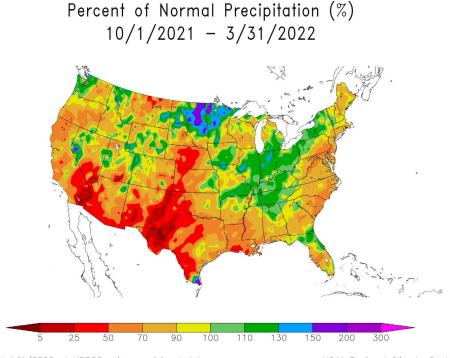
- April 1
- April 15 to May 10
- May 20 to June 10
- June 15 to June 30
- June 15 to July 15
- September 1 to September 15





April 1-Look at

- Soil moisture critical previous growing season & dormant season moisture
- Lack of moisture reduces cool-season grass growth







April 1- Management

- If exceptionally dry, reduce stocking rates 10-20% cool season rangeland
- Inventory all cattle & feed resources-what can go first?
- Cull late calvers, opens
- Keep smaller AU's: heifers vs pairs
- Pastures leases evaluate drought clause, find more pasture



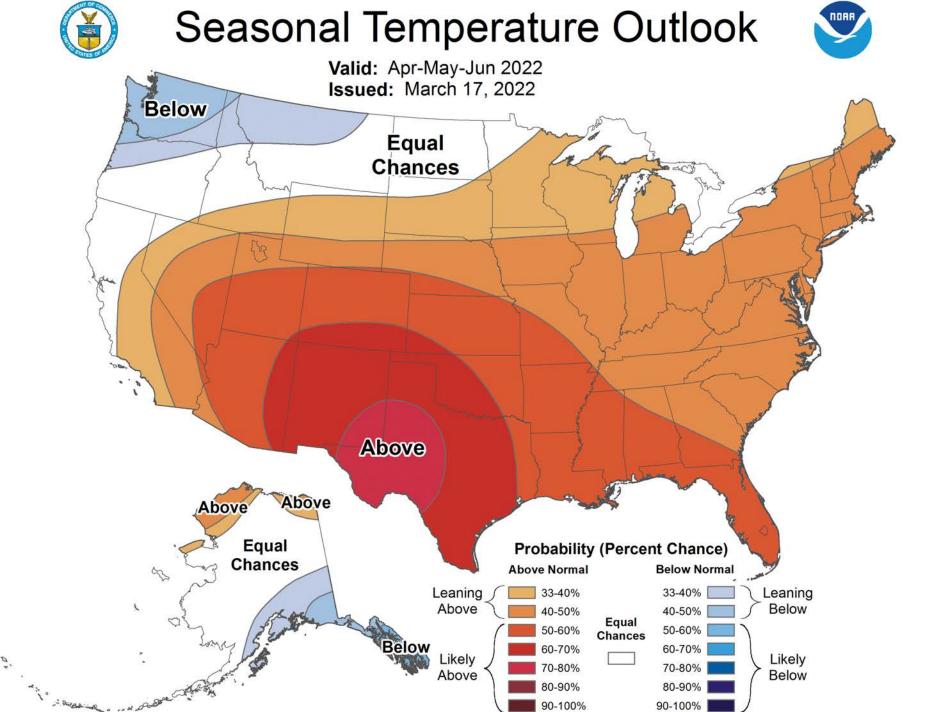


April 15 to May 10-Look at

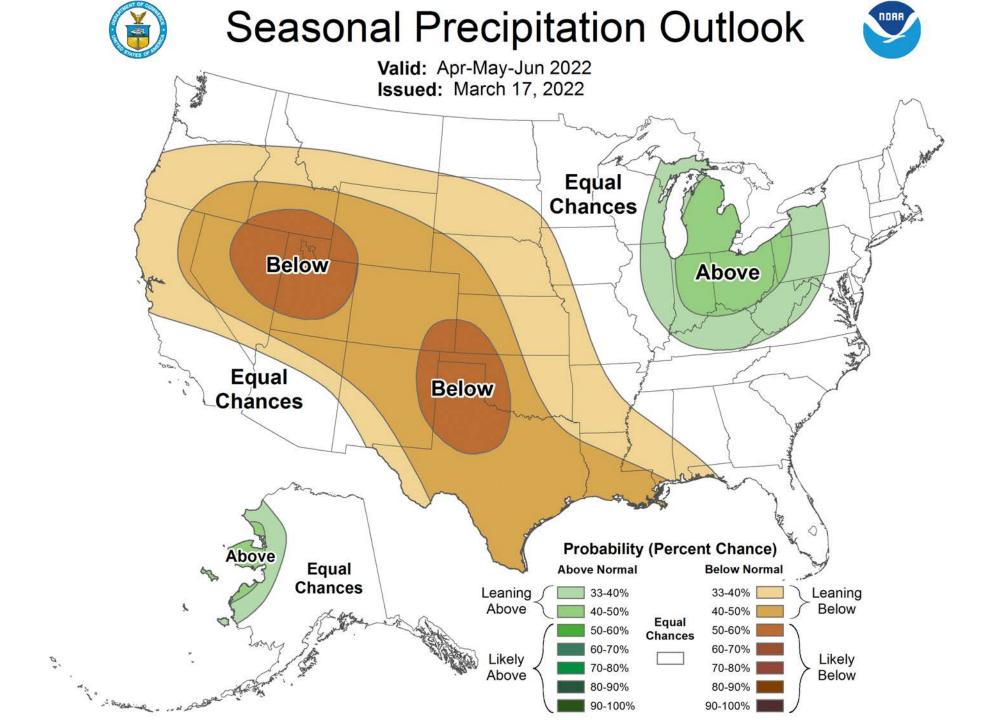
- 30-45 day forecasts
- Cool season grass green-up













April 15 to May 10-Management

- Decrease stocking rate more
- Cull more
- Delay turn out, know your hay/feed inventory





May 20 to June 10-Look At

- Needlegrasses finishing growth
- Wheatgrasses rapid growth window
- March-May precipitation compared to average





May 20 to June 10-Management

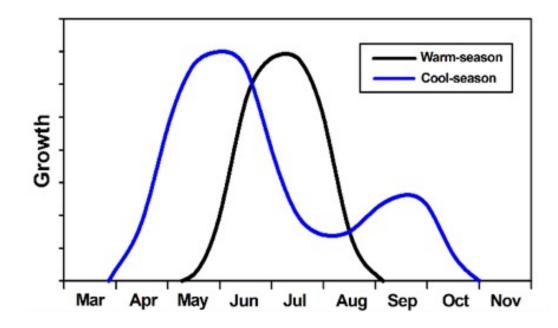
- Reduce stocking rates 30-40% or more
- Cull late calvers, opens
- Shorten breeding season, depending on calving season, sell bulls
- Heifers vs pairs





June 15 to June 30-Look at

- Cool-season grass done growing, unless irrigated
- 50% of warm-season grass growth
- Rainfall after late June may benefit warm-seasons







June 15 to June 30-Management

- Reduce stocking rates
- Shorten breeding season
- Preg check, cull lates & opens
- Sell bulls







June 15 to July 15-Look at

- Precipitation and available soil moisture important for warm-season grass
- Most warm-season growth by July 15
- Some shortgrass warm-seasons may benefit from precipitation

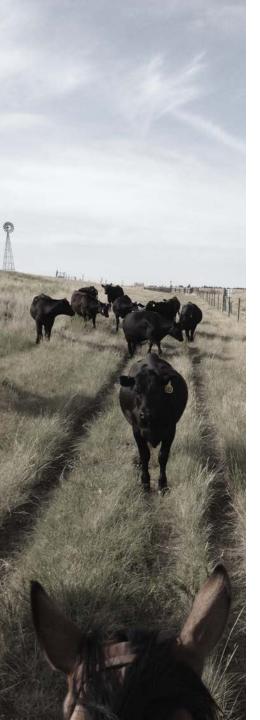




June 15 to July 15-Management

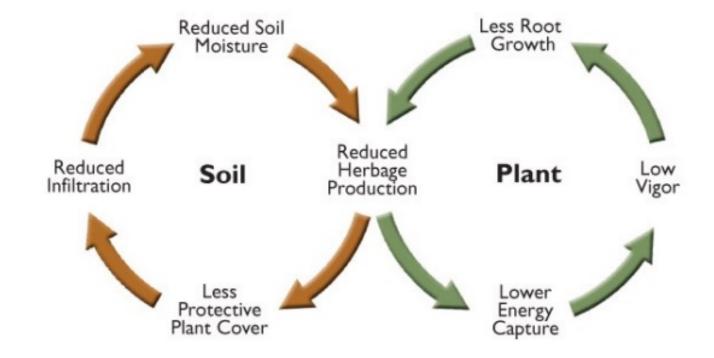
- Reduce stocking rate; remove from pasture
- Shorten breeding season
- Cull late calvers, opens, bulls
- Early wean, creep feed, etc





September 1 to September 15-Look at

- Cool-season pasture regrowth if adequate moisture now
- Temperature & precipitation forecasts







September 1 to Sept 15-Management

- Start planning for next year
- How will drought affect production
- Early wean/marketing calves
- Cornstalk leases
- Acquire feed
 - If bringing in feed watch for weeds/invasive plants where fed
 - Fescue toxicity





Summary

Drought is in the forecast

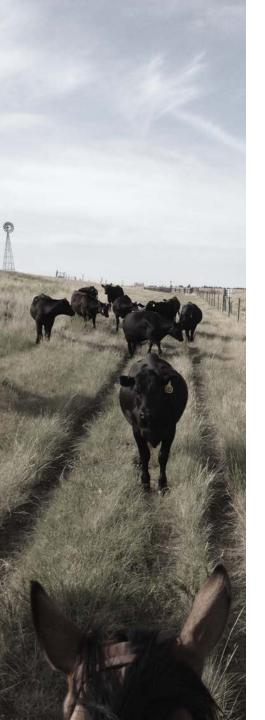
Plan now or react later

To reduce stocking rates, shorten time or fewer AU's

Be flexible

Use trigger dates to manage





Resources

National Weather Service Climate Prediction Center

Short and long term precip and temp forecasts

NebGuide: Skillful Grazing Management on Semiarid Rangelands

Beef.unl.edu

Drought.unl.edu

Managing Drought Risk on the Ranch

FSA/NRCS drought programs-keep records!





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