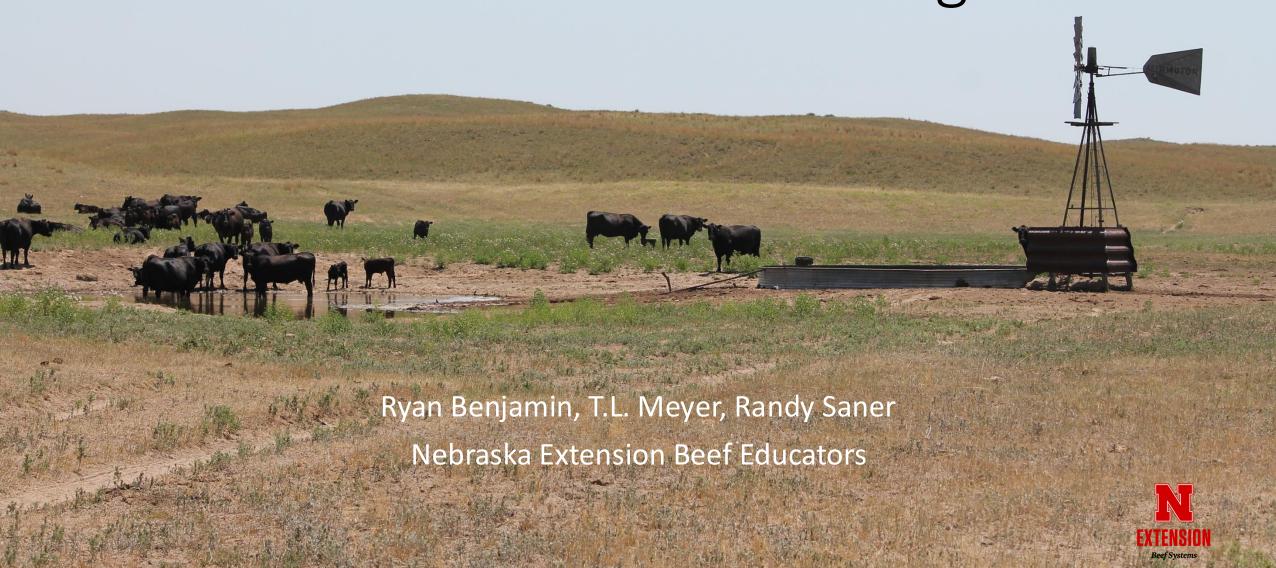
Triggering Management Decisions Before a Drought





Today's plan



Drought Planning Trigger Dates



Weather-past and forecast



Drought affects plants how?



Adjust stocking rateswhat does this look like?



Trigger dates: what to look for and management options



Resources





Drought Prep for Cattle Producers Tues, April 15, 6:30PM MT



Topics

Conditions and Outlook
Rangeland Response to Drought
Annual Forage Options
Summer Dry Lot Feeding Pairs
Programs for Producers

Online or In-Person

Rushville Scottsbluff Kimball Thedford O'Neill

More info

go.unl.edu/april15droughtprep or 308-235-3122





Disclaimer

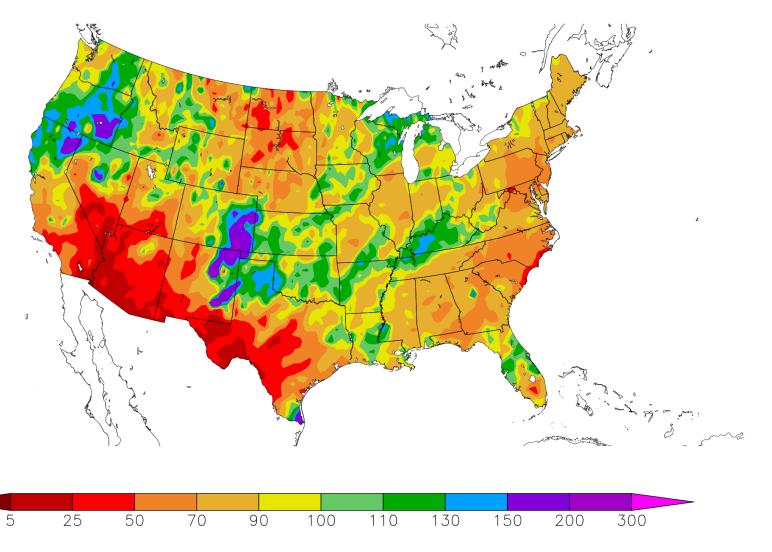
Options presented today will not work for everyone

Your goals and resources will determine your management.

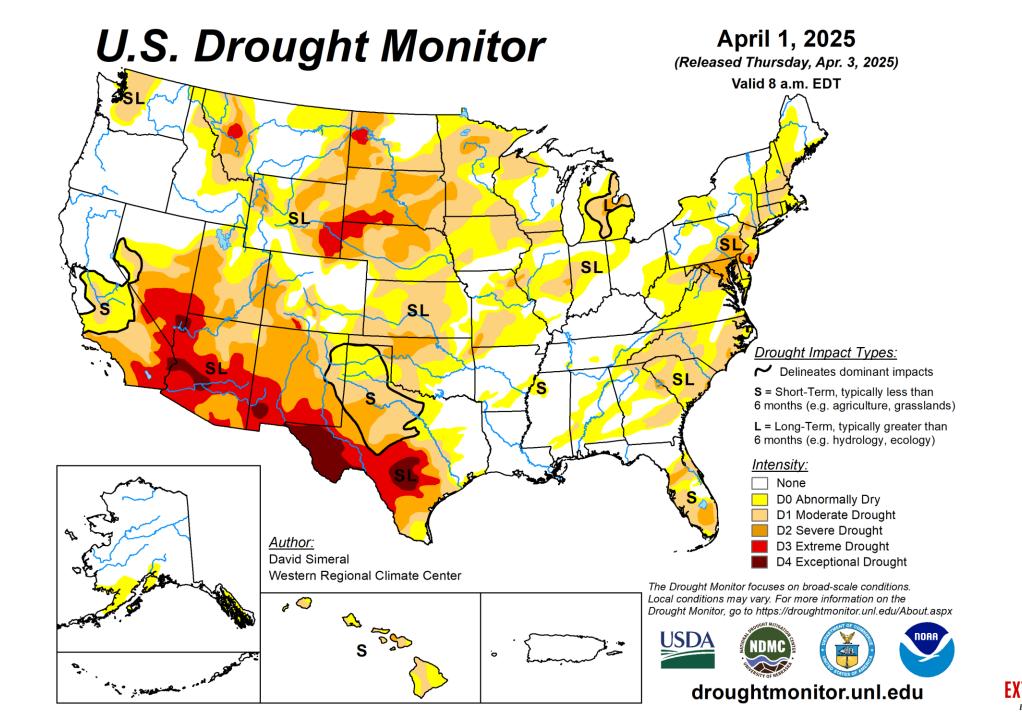
Will talking about drought make it rain?



Percent of Normal Precipitation (%)10/1/2024 - 4/3/2025

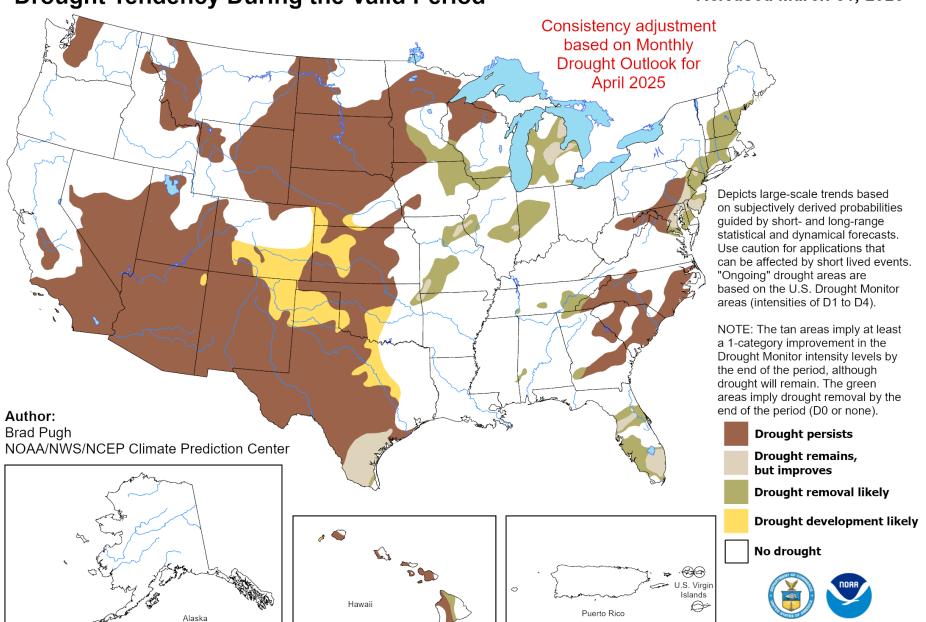






U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for April 1 - June 30, 2025 Released March 31, 2025





https://go.usa.gov/3eZ73



Proactive > Reactive



Planning provides more options and flexibility

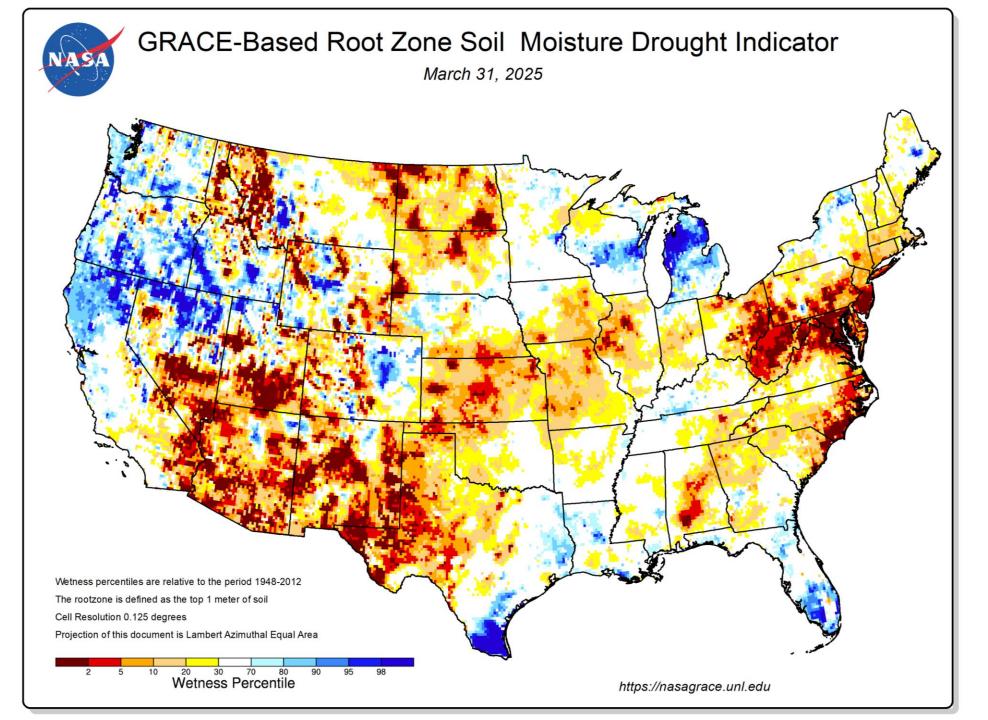


Keep a current inventory of animals and feed resources



Decisions based on facts, not emotions









How do plants work?

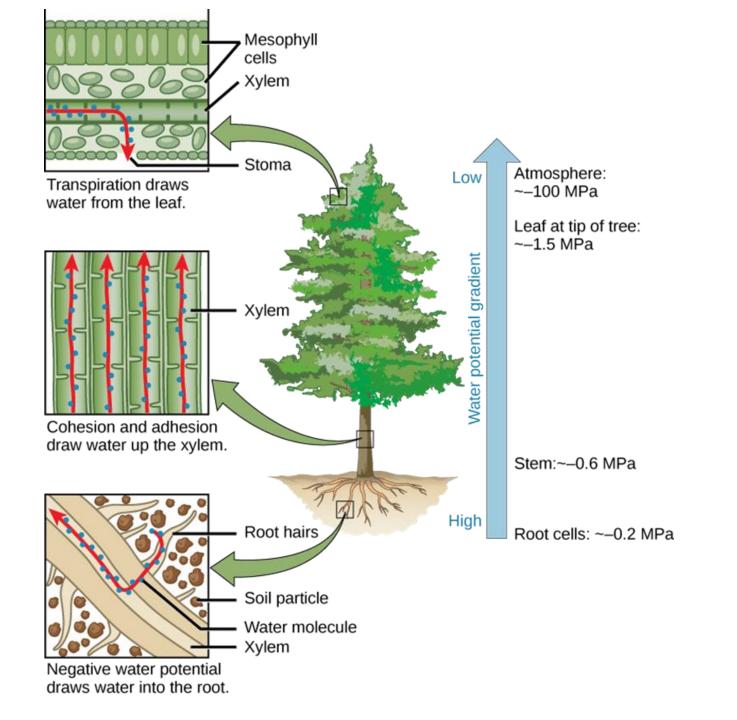




As drought progresses soil becomes drier holding onto water more tightly

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

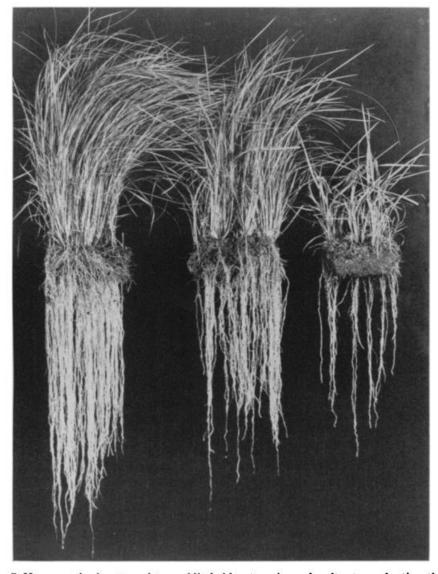


Fig. 7. New growth of roots and tops of little bluestem six weeks after transplanting the sods on May 17. The sods were each 6 inches long, 4 inches wide, and 3 inches deep but taken from a high-grade, mid-grade, and low-grade pasture, respectively.

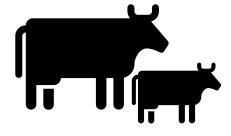




Reduce Stocking Rates

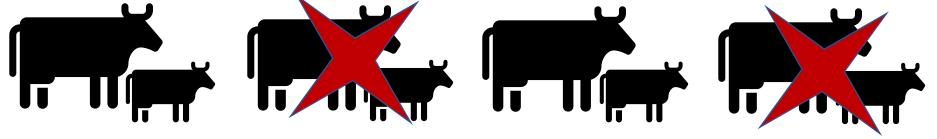
Reduce grazing time on a pasture















Smaller AU's



1 Animal Unit (AU) = 1,000 lb animal



1 AU consumes 26 lb of dry forage a day

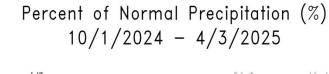


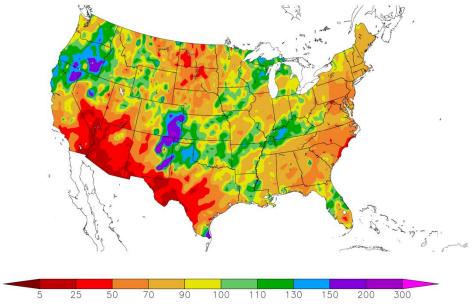




April 1... Look At

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





Generated 4/4/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers





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

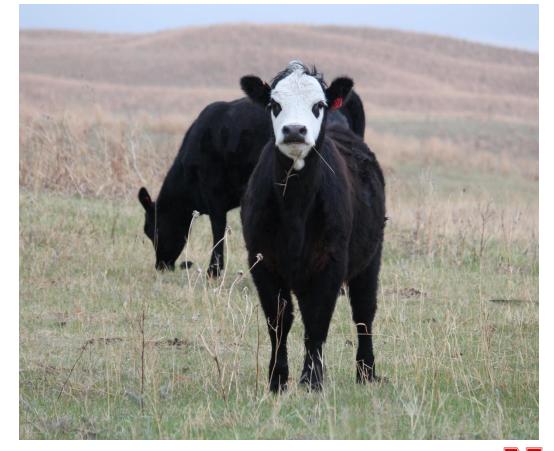
Pastures leases – evaluate drought clause, find more pasture



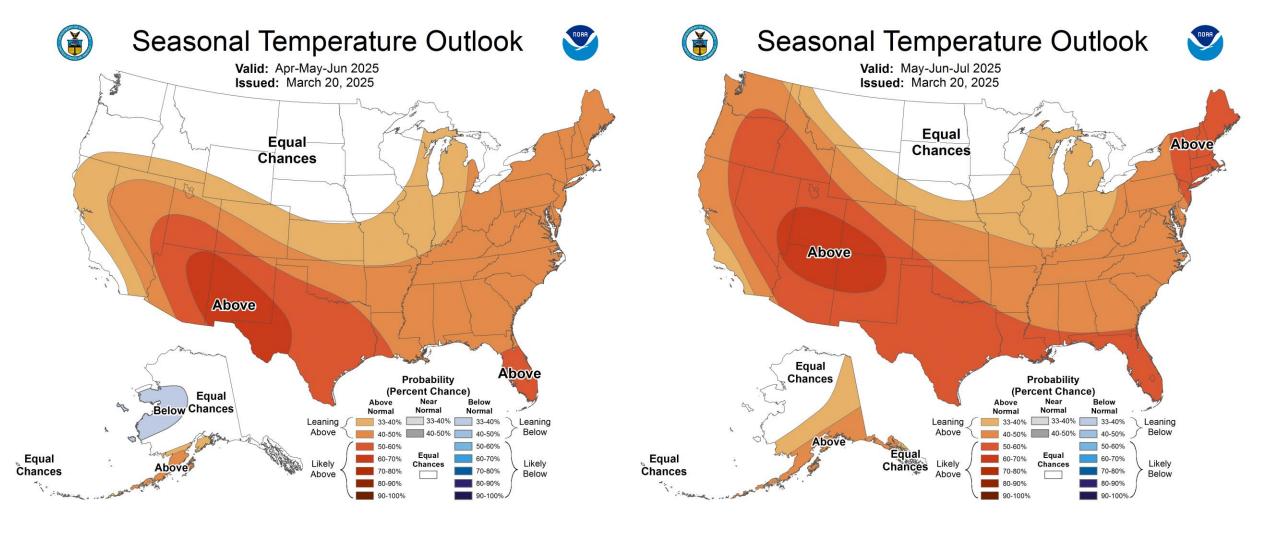


April 15 to May 10... Look At

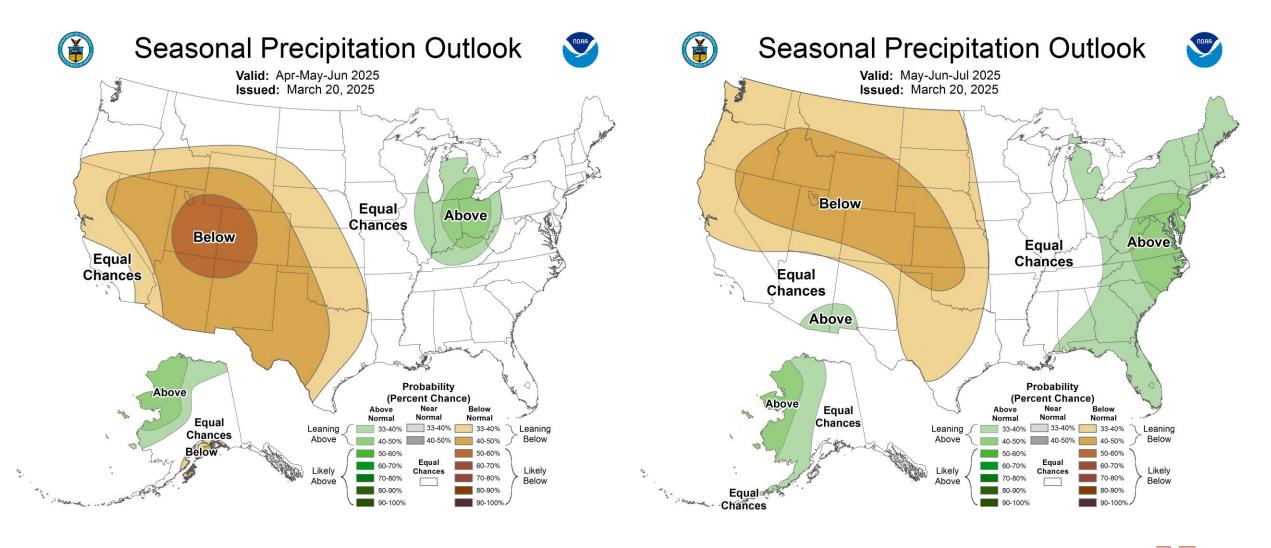
- 30-45 day forecasts
- Cool season grass green-up















April 15 to May 10... Management

Decrease stocking rate more

Cull late calvers, opens

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

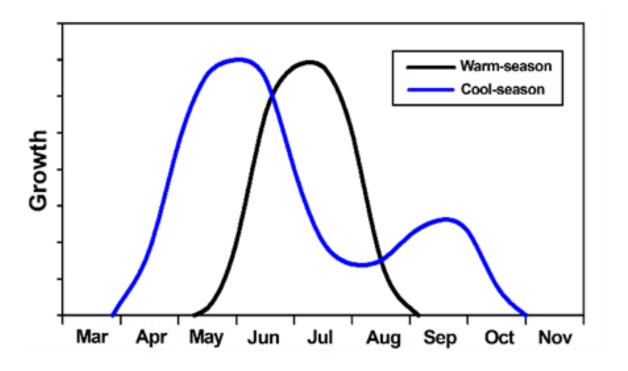
Heifers vs pairs





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, sell bulls
- Preg check, cull lates& opens







June 15 to July 15... Look At

- Precipitation and available soil moisture important for warmseason 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

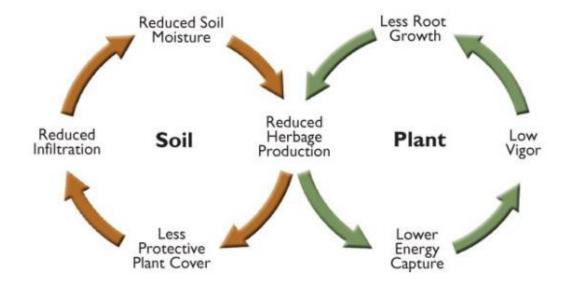
Early wean, creep feed, etc. (Creep feed ↓ calf forage consumption, but does not ↓ cow milk)





Sept 1 to Sept 15... Look At

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







Sept 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; use trigger dates to manage

To reduce stocking rates, reduce time or AU's

Be flexible





Resources

FSA/NRCS drought programs

- keep records
- visit w/ local office

GrassCast: Grassland Productivity Forecast

National Weather Service Climate Prediction Center

Short and long term precip and temp forecasts

NebGuide: Skillful Grazing Management on Semiarid Rangelands

DROUGHT.UNL.EDU

Managing Drought Risk on the Ranch

BEEF.UNL.EDU





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