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# Increase in cost of production

What can be done to cut costs?

# Times of hardship

We get to be better managers!





# Strategies and decision making ... and its consequences

### On pasture management

- 1) Optimize grazing management
- 2) Managing forage production and demand
- 3) Making use of a fertilization decision tree





# Grazing management

"NO COST" AND LIKELY THE MOST IMPACTFUL ASPECT (but mismanagement can cost you a lot!)



# About grazing management

Implement rotational grazing ~ 30% increase in efficiency

#### But

Rotational grazing alone does not solve overstocking and other mismanagement

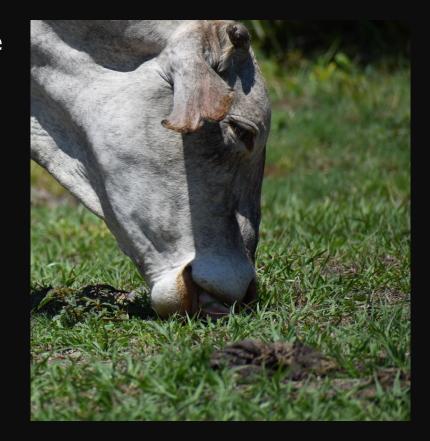
- 1) Stocking rate and carrying capacity
- ▶ 2) Increase pasture diversity to reduce dependence on supplemental feeding
- ▶ 3) Respect plant's growth requirements: avoid early overgrazing (spring) and respect stubble heights



# How much can your pastures support?

Pasture productivity → carrying capacity → stocking rate





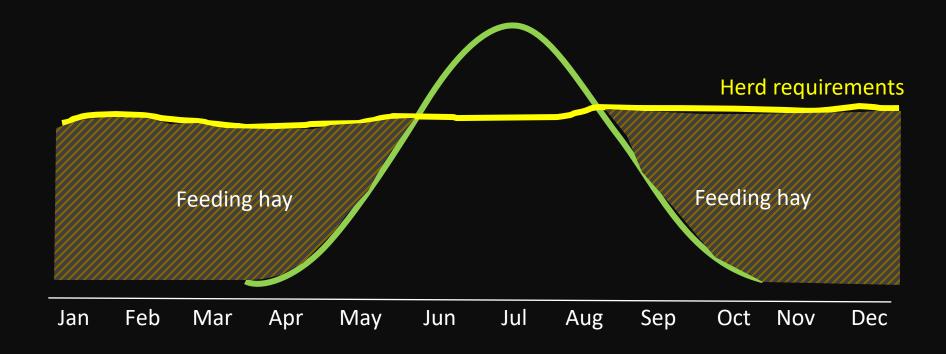


## Adjusting forage budget

Matching forage production and demand



### Typical scenario - only bahiagrass and no breeding season





### Reducing inventory and increasing the uniformity of

nutritional requirements (tightening breeding/calving season)

helps to balancing forage production and demand...



## Adjusting forage budget

### by **reducing** and **organizing** demand

#### Opportunity for reducing inventory

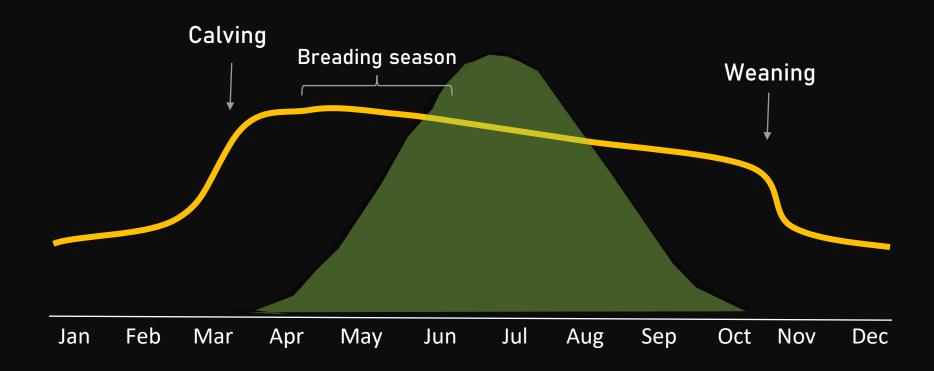
- Cull heavy defined breeding season and preg check generate income
- Breed earlier (requires investment in feed)

#### Opportunity for selection

Know your heifers early → keep only the top



### Adjusting breeding season: spring calving on bahiagrass





### Diversity

#### Annual options ~20% of the area

- Improve quantity and quality of forage production strategic
- Require investment in fertilizer

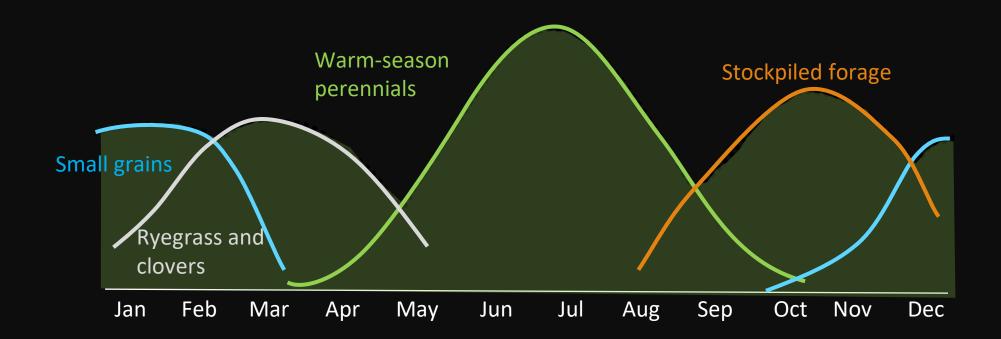
#### Perennial options

- Bahiagrass base
- Add bermudagrass high quality and high production
- Add impograss alternative for fall grazing (stockpiling)
- Add perennial peanut improved pasture quality w/o need for N and increase animal gain (we will talk more about legumes later)

But now might not be the best time to establish new pastures...

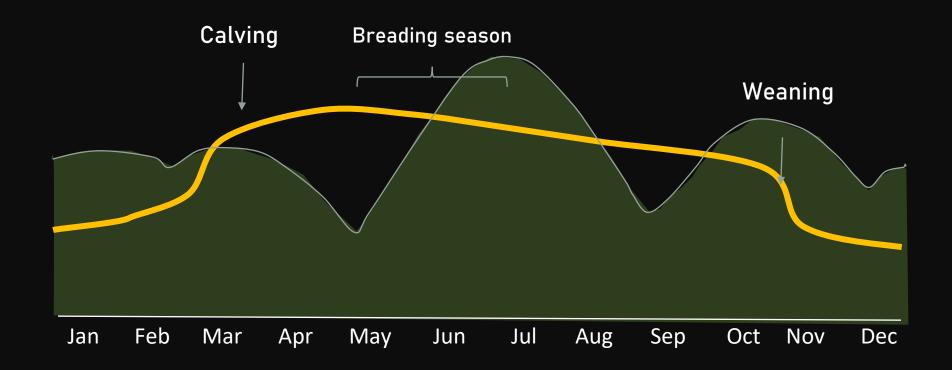


### Diversity of forages along the year (and area)





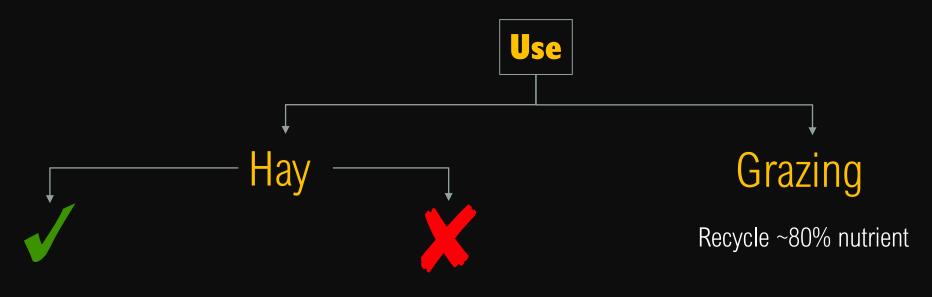
# Scenario 4 spring calving with bahiagrass, stockpiled limpograss and cool-season forages





# Fertilization decision tree



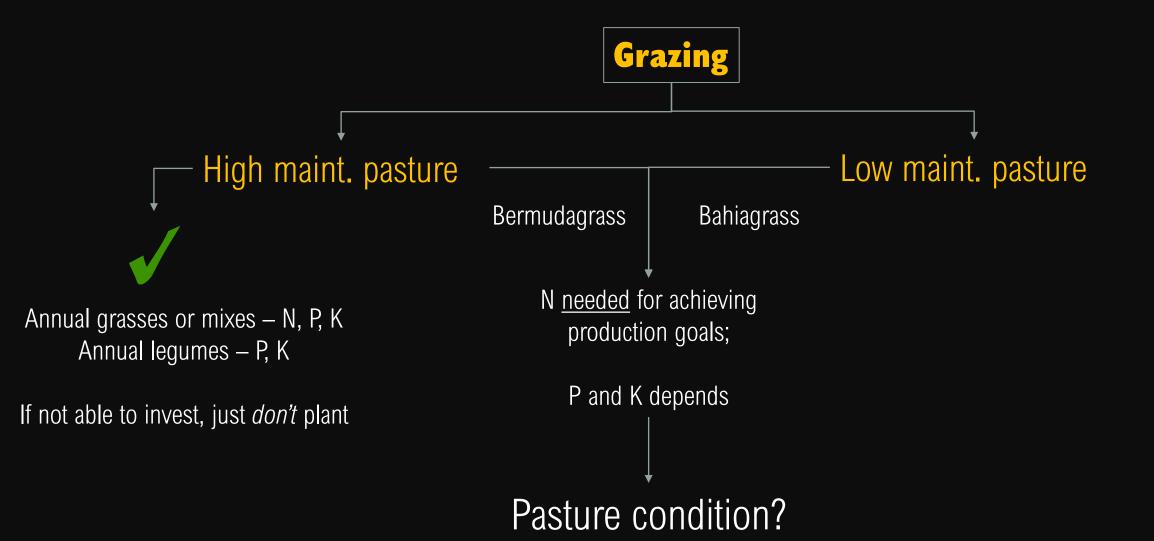


Removal of nutrients

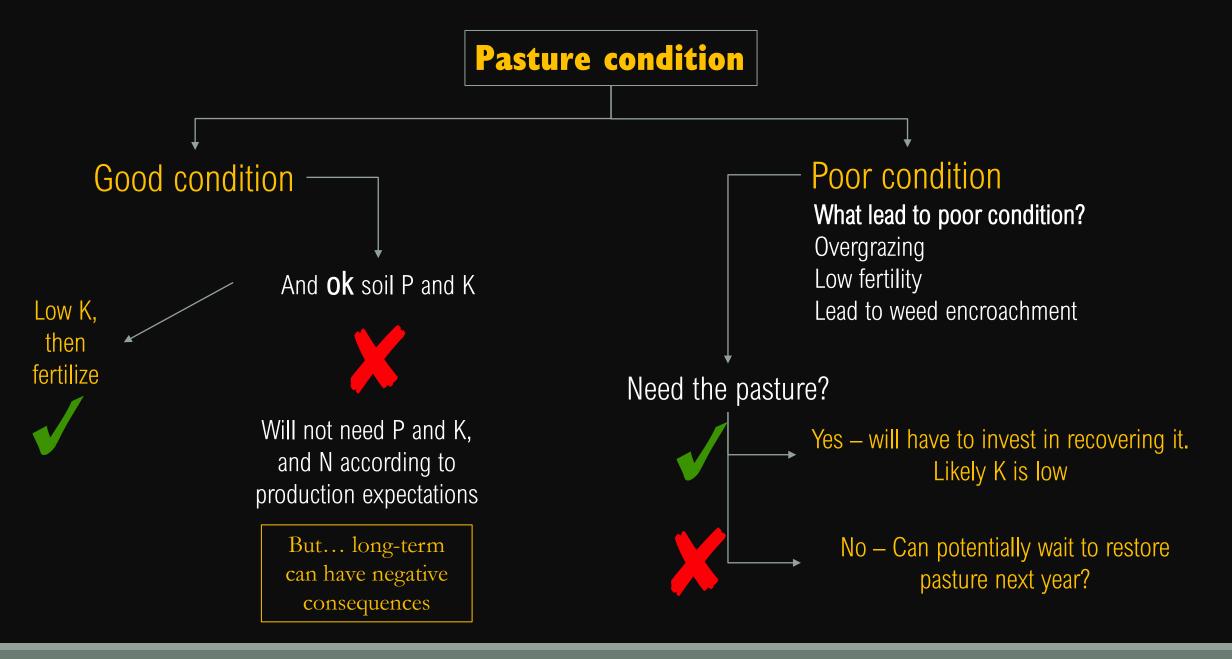
1 ton bermudagrass 50-60 lb N 14-17 lb P 30-40 lb K

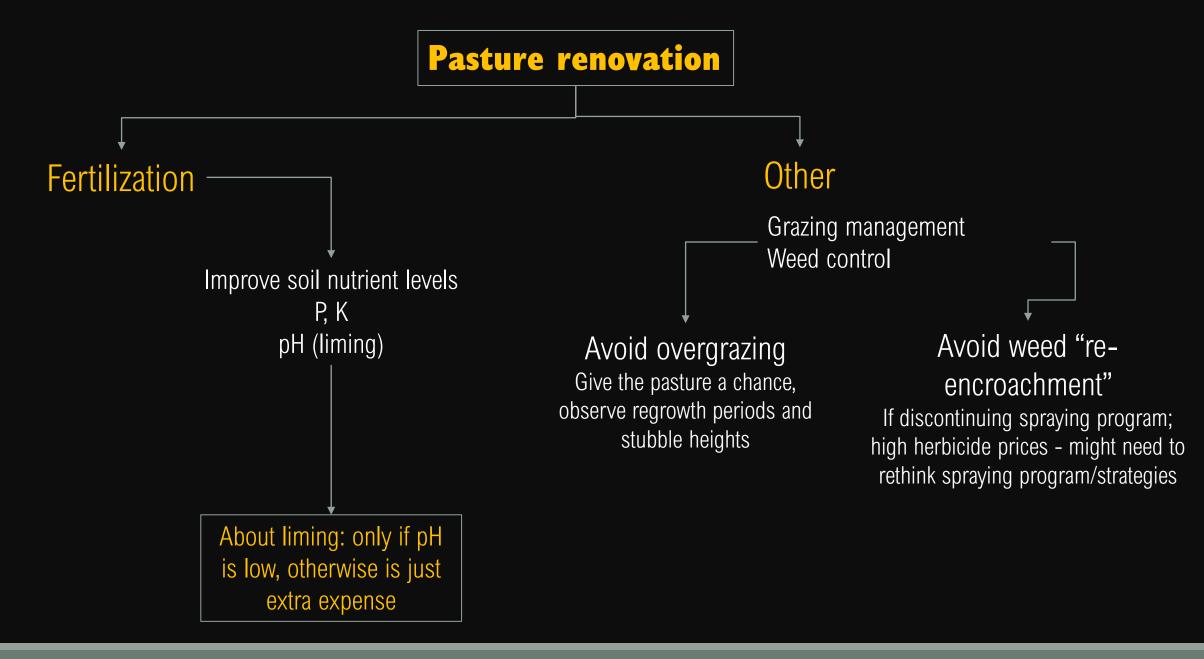
UAN32 \$1.09/lb N ~ \$60/ton just in N

Will lead to lower productivity and pasture degradation









### Other considerations about fertilization

#### Invest where return is best

- If planting annual forages
- On bermudagrass instead of bahiagrass

If budget is tight, strategically fertilize part of the area

- Where it is needed the most, and will be the best return
- Remember: N fertilization strategy affects amount and timing of forage production



### What about legumes?

#### Great strategy to reduce N inputs

#### Not an overnight solution

- Will require good soil fertility
- Perennials take time to establish
- Annuals add nitrogen to the system, not "give" N to companion crops for being productive

Multiple resources at Panhandle Ag e-News – and with your local agent





## Hay testing

#### Cheap hay can be expensive

- Low intake, high waste
- Low performance
- More need for supplementation

#### Know the quality of your hay

- Supplement only what is needed
- Use hay balancer

