### **Practical Grazing System Application**

Bruce Anderson Extension Forage Specialist University of Nebraska

### Practical Grazing System Application: Extending the Grazing Season

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# Goas Challenges

Options

# Goals

# Goas 300 days of grazing

# Challenges

# livestock









# Chalenges Available forage gaps

# Options

## **Two options:**



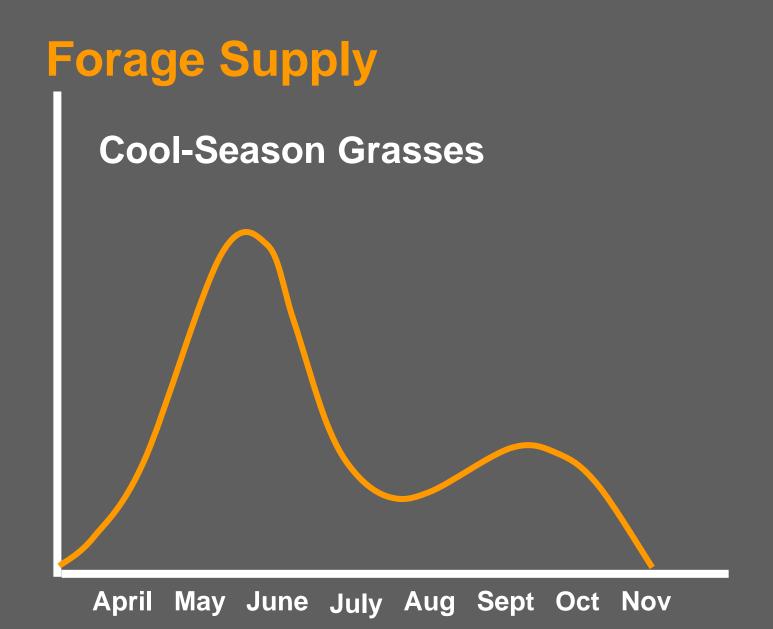


## Manage existing perennials

#### Add annuals

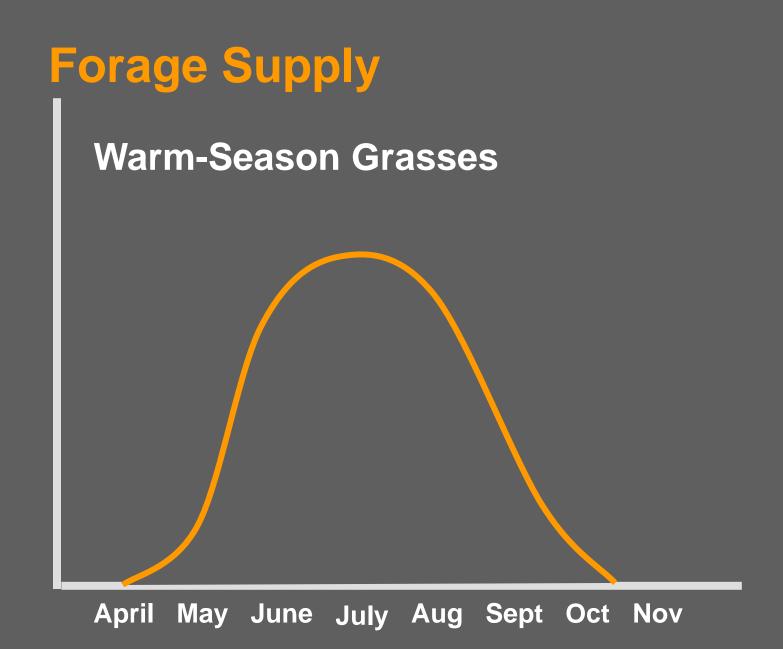


# Start with what you have



### LIMITATIONS: COOL-SEASON GRASSES

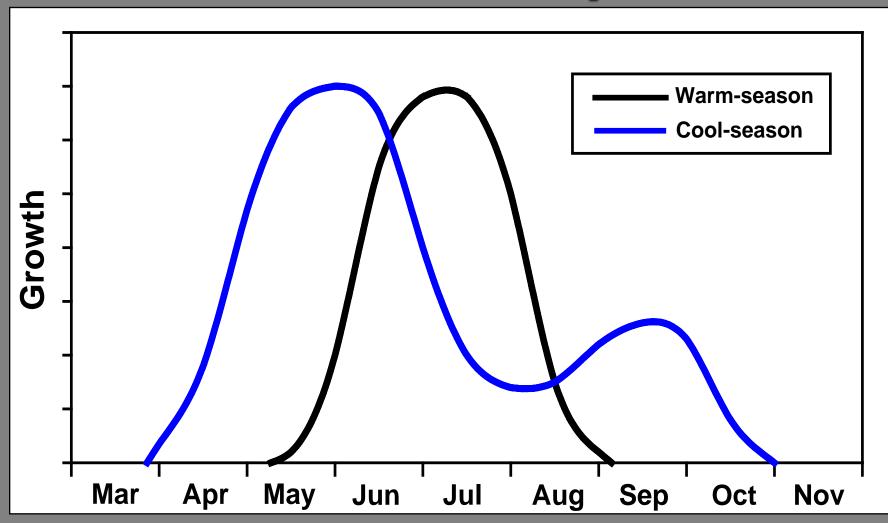
Iow summer production
 Iow summer forage quality
 excessive (?) spring growth
 unreliable fall production



### LIMITATIONS: WARM-SEASON GRASSES

# short growing season grazing management is challenging vigor requirements

### Growth periods of cool- and warm-season plants



Daily gain

Carrying capacity





# What else?

## Fertilizer

- High and fast response to N
- N costs keep increasing
- Challenge to stimulate more growth when needed



## Weed & Brush control

- Chemical costs and risks
- Multiple species
- Weed or feed?



Without good grazing management, all production improvements will be wasted.



G R A P

#### How Grasses Grow

#### LEAVES

Food Factories short tops mean short roots

#### ROOTS

Gather & Store Food short roots mean short tops

**Overgrazing Destroys both leaves and roots** 

M Δ А G Ξ 

rapid growth
Abundant leaves strengthen roots
increase forage

Slow growthFew leavesweaken rootsless forage

### What can we do to extend grazing of existing perennials?

## Fertilizer

- High and fast response to N
- N costs keep increasing
- Challenge to stimulate more growth when needed



## Fertilizer

- High and fast response to N
- N costs keep increasing
- Challenge to stimulate more growth when needed



## Conserve excess!







#### **Windrow Grazing:**

 Windrows left in field for direct grazing; often during fall and/or winter but summer also possible



# Stockpile



A mouthful of forage when the supply is low may be worth more than two mouthfuls when forage is plentiful

### **Annual Forages for Pasture**

### Warm Season Annuals

Late-spring or early summer seeded: Millet (grazing & hay types) Sudangrass S X S hybrids Cane Teff

#### 48 days (13-Sep.) after 27-July seeding



#### **Preferred Uses of Summer Annuals**

#### Pasture: sudan, pearl millet

## Hay: sorghum-sudan, teff, pearl millet, foxtail millet

Silage: forage sorghum







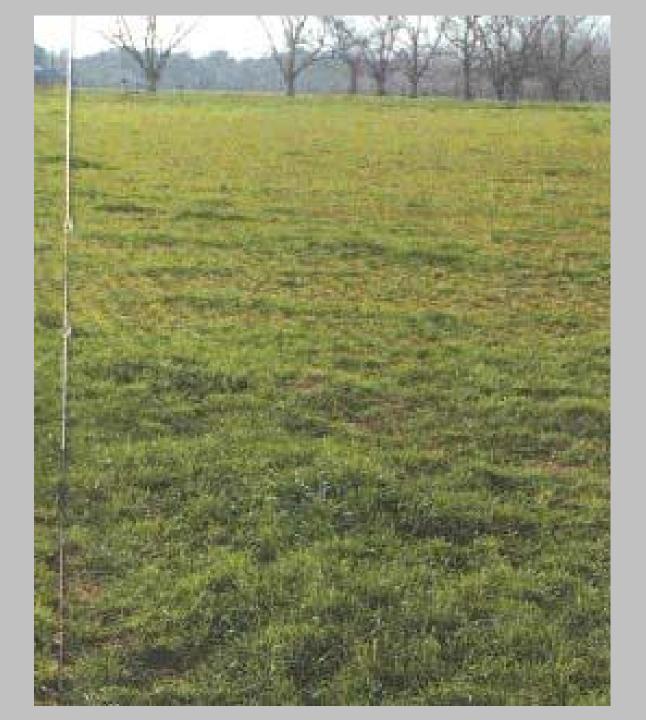


#### **Annual Forages for Pasture**

Summer or late-summer seeded (for fall forage):

### Annual ryegrass and clovers

Oats, barley, rye, triticale, and/or wheat



#### **Annual Forages for Pasture**

Summer or late-summer seeded (for fall forage):

# Turnips & other brassicas

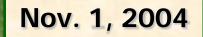


#### Oats + Turnips (Planted Aug. 20, 2004)





Freeze-down...late November to mid-December



### Use imagination

## Use imagination Be flexible

# Use imagination

### **Be flexible**

### Plan ahead

# **Use imagination Be flexible** Plan ahead Opportunistic

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