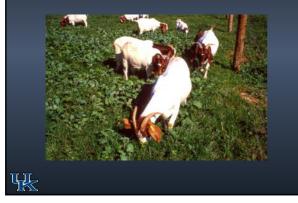
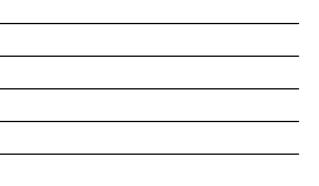
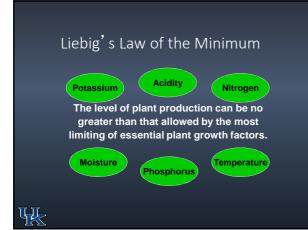
Efficient Grazing Systems











## Nutrients Removed by Hay

Crop	Ν	<b>P</b> <sub>2</sub> <b>O</b> <sub>5</sub>	K₂O		
		- Ibs/tor	า		
Alfalfa	56	15	60		
Tall Fescue	39	19	53		
Orchardgrass	50	17	62		
Bermudagrass	43	10	48		
Sorghum-Sudan	40	15	58		
Adapted from Southern Forages, Fourth Edition.					
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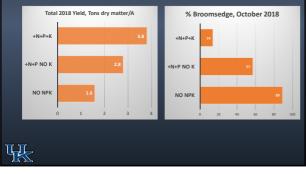
# Powell County Potash Study

- Problem Under fertilizing with potash (K) on a tall fescue hay field over several years led to:
  - Very low levels of soil K
  - Broomsedge encroachment



₩ 6

## NPK effects on 2018 Yield and Percent Broomsedge





7

 Fifects on % Clover in July 2018 and 2019

 Fifect of P and K on % Clover in July

 P + 6

 0 - 20

 20

 40

 5 - 5 Clover 2019

 5 - 5 Clover 2019

8





### Pasture Management Goals

- •Utilization
- •Maximum regrowth
- Intake and Quality
- Persistence

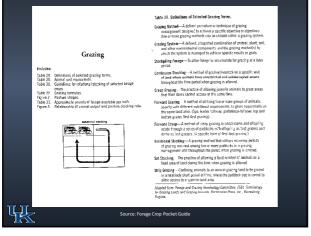
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### Few Grazing Terms

- AUM = Animal Unit Month Amount of forage needed to support 1,000 lb of grazing animal for 30 days (month)  $\sim$  900 lb DM or 90% of Body Wt/Mo
- <u>Stocking Rate</u> = Number of animals per unit of land over a given period of time Season long ~ Carrying Capacity
- Stocking Density = this is relationship of animals to land at the given moment on the given land base
   Snapshot in time and uses only the land base livestock are on at that point in time

  - Ex. 500 pounds of livestock on 1/20<sup>th</sup> A = 10,000 lb / acre SD
     ~ 40' X 50' per 5 100 lb goats



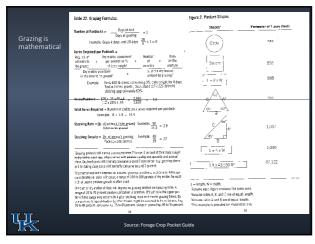


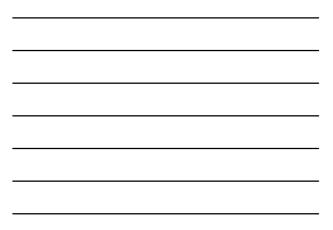


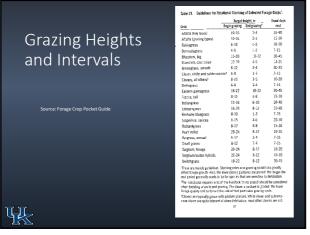
# Forage system choices and parasites

- Parasite life cycle
- Sericea lespedeza
- Residual height management
- Time on paddock management
- Haying as a clean up tool

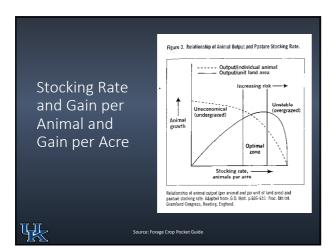








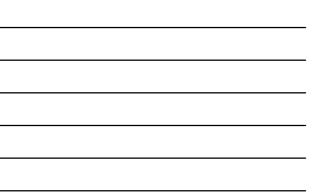






Water: The 800 foot rule

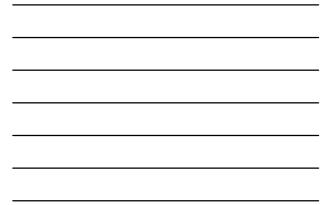




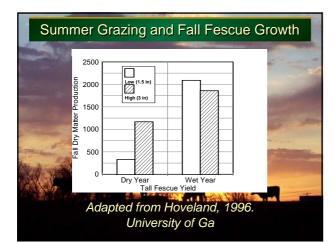


	Rotation, Rest and Utilization					
	Rotation		Reasonable Expectations for Utilization (%	)		
	2x daily		70			
	Daily		65			
	3 to 5 days		50 to 60			
	Weekly		50	_		
	Month or longer		30 to 40			
	Never		30*	_		
		Shorter rotations	Less trampling, soiling			
		Stocking rate	Has a great effect			
ų						

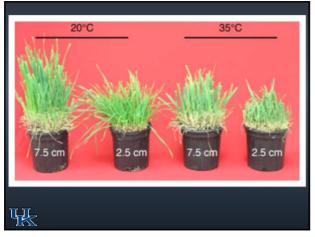






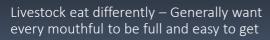




















# Endophyte infected tall fescue and small ruminants

- Effects similar to large ruminants • Heat stress, intake, gain, breeding
- Much less is known about toxicity thresholds
   Ergovaline
- Ergovaline content is seasonal, with great year to year variation

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