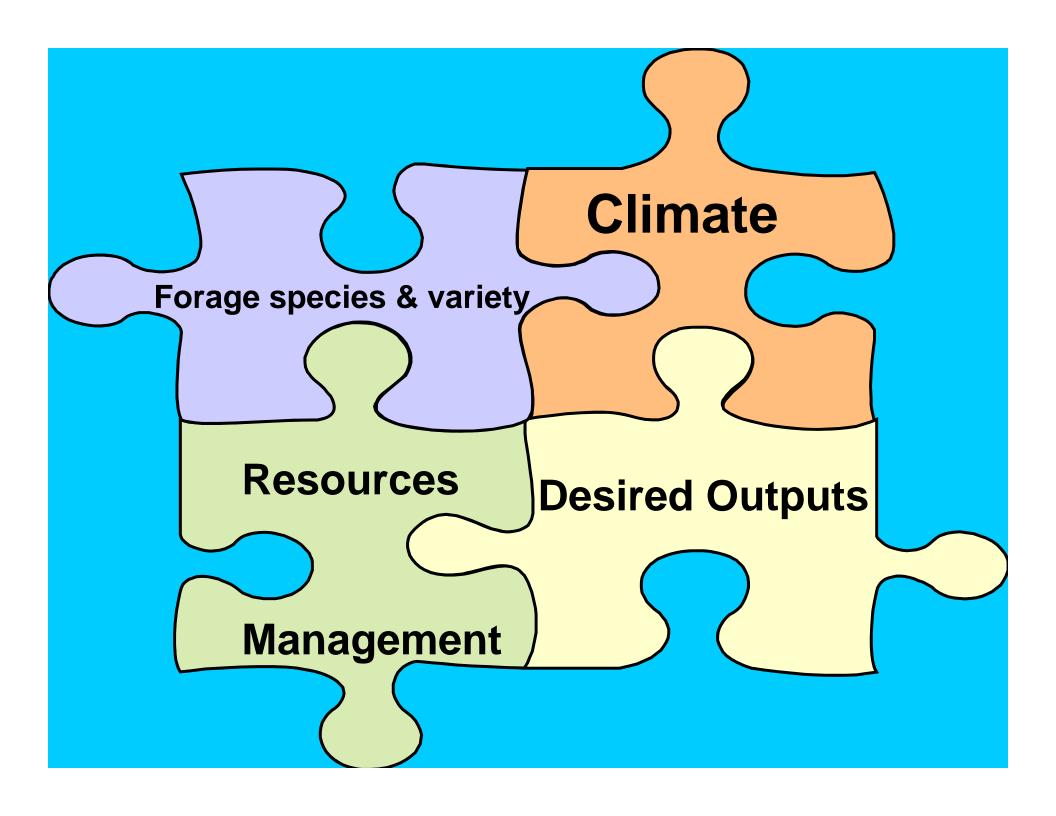


Forage / Grazing Goals

- Low cost gain
- Maximize grazing over hay feeding
- Minimum inputs





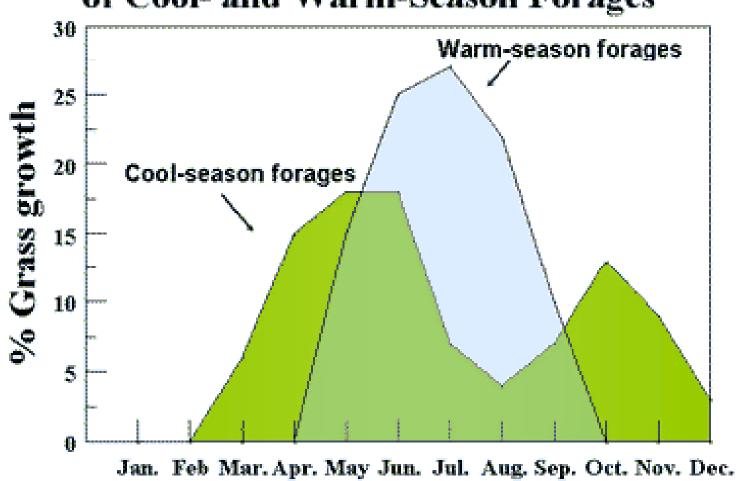


Decisions

- Season-fall, spring, summer
- Forage variety base
- Stocking rate
- Clover
- Supplement or not
- Grazing management



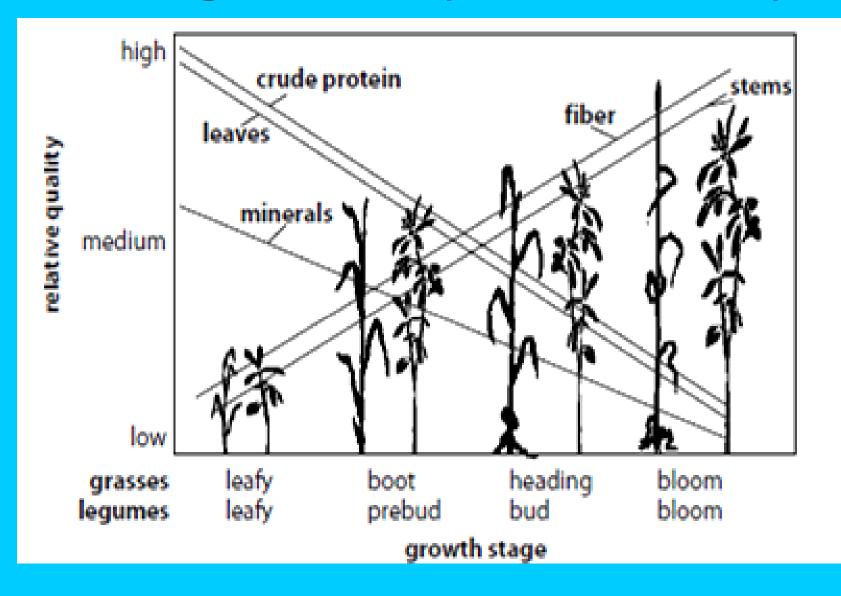






Nutrient Intake= (Amt Forage Consumed) x (Nutrient Content)

Forage Quality vs Maturity



Orchardgrass- date of harvest impact on quality

The effect of date of harvest on the quality of orchardgrass forage (Reid et al., 1966).

Date	Maturity	DMI	DDM	СР	ADF	NDF	Lig.
		% Body wt.	% Dry matter				
May 5-9	veg.	2.7	77	17	29	51	2.4
May 20-24	boot-e.h.	2.0	71	13	34	60	3.9
June 6-10	l.he.b.	1.9	65	9	38	65	4.9
Jul 15-19	veg	2.6	67	14	31	57	4.1
Jul 27-31	veg	2.7	66	12	35	59	4.3
Aug 9-13	veg	2.9	61	10	38	65	4.3

Grazing Tools

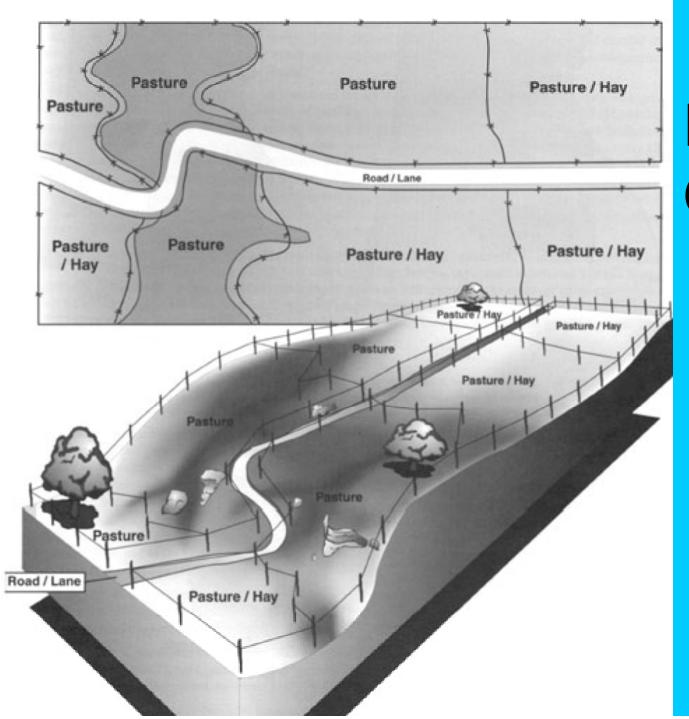






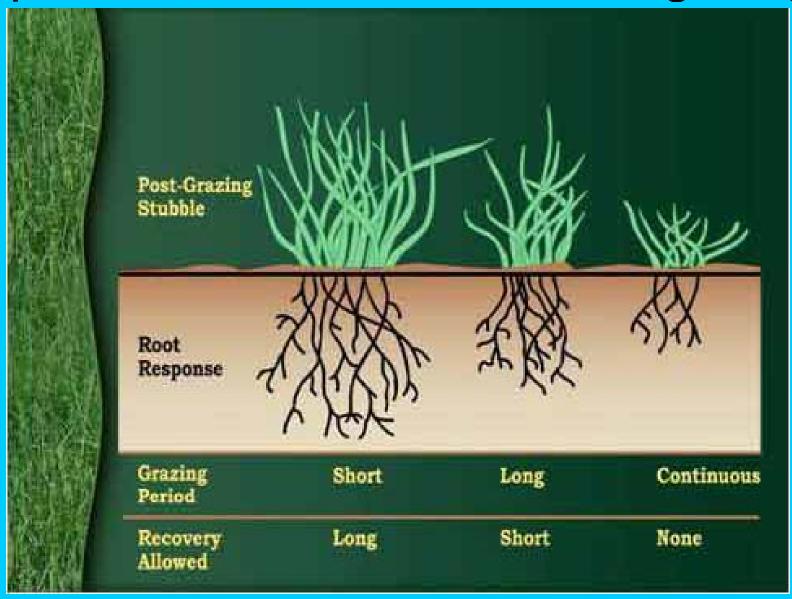






Rotational Grazing

Impact of Rest Period on Forage Vigor



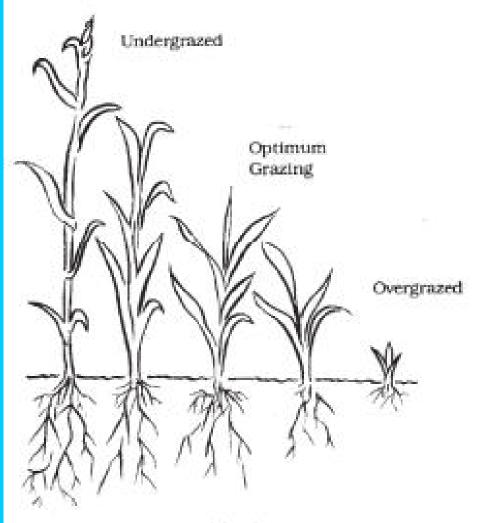
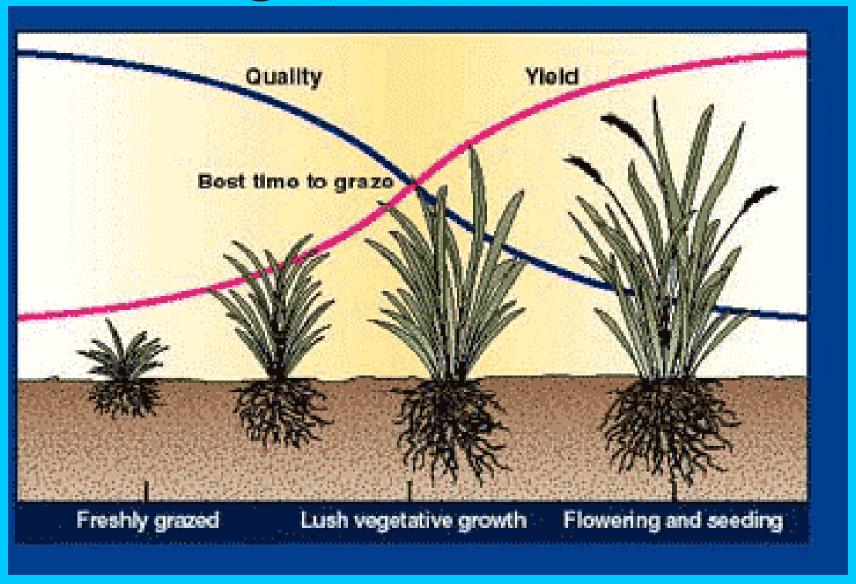


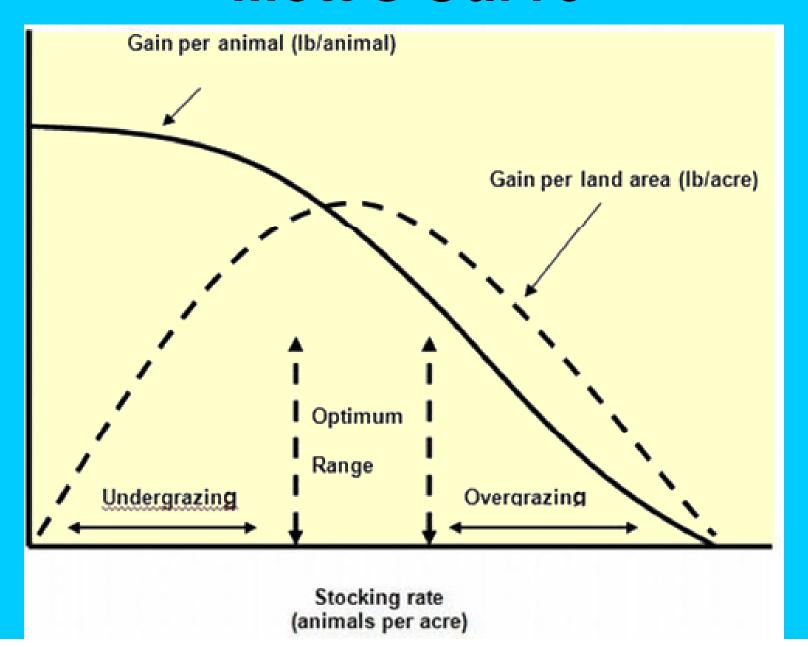
Figure 1. Grazing stages of the plant.



Forage Growth Curve

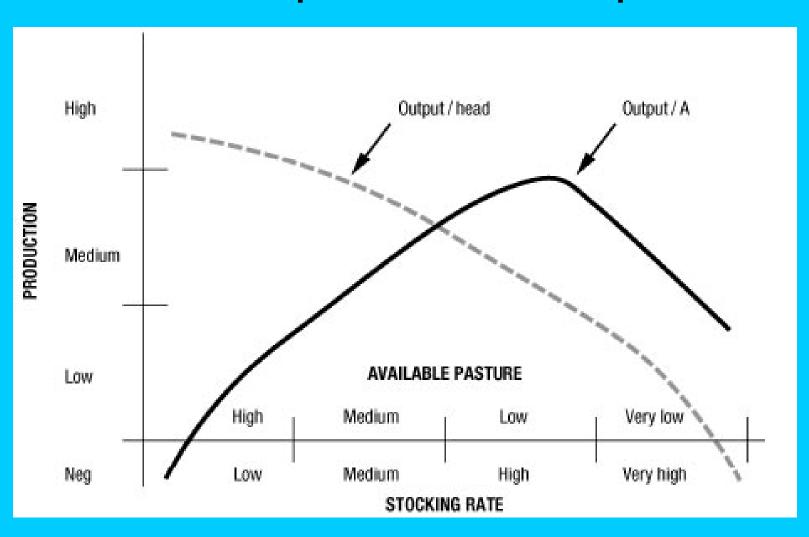


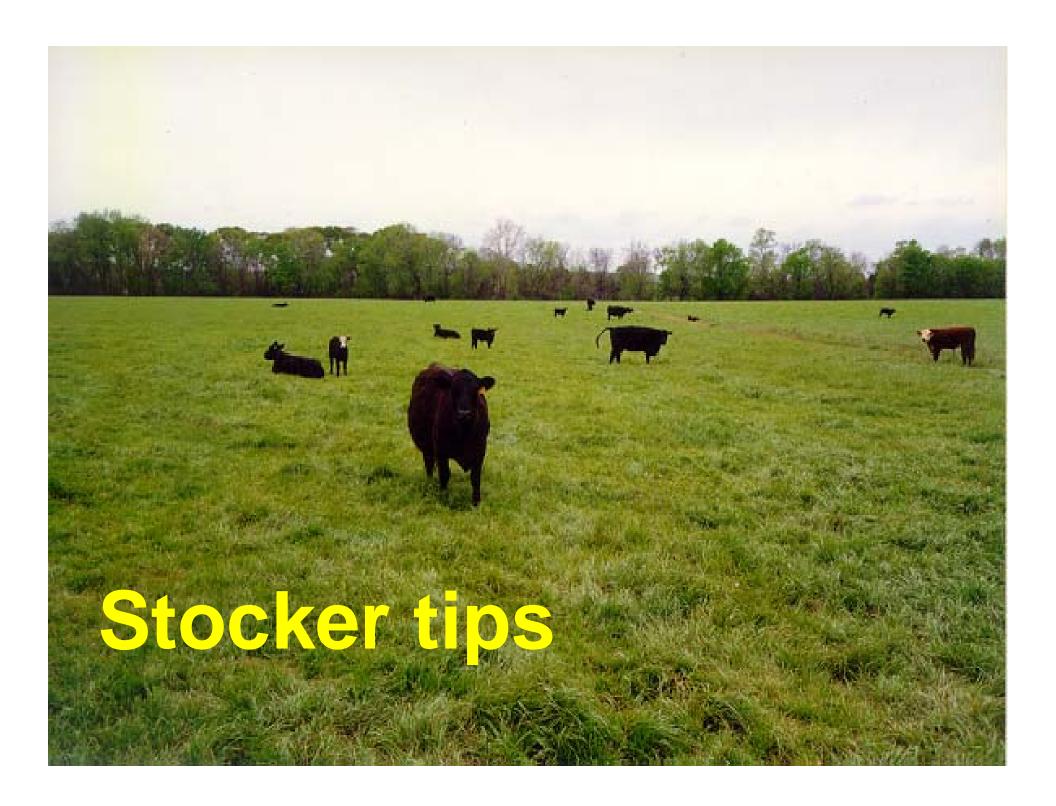
Mott's Curve

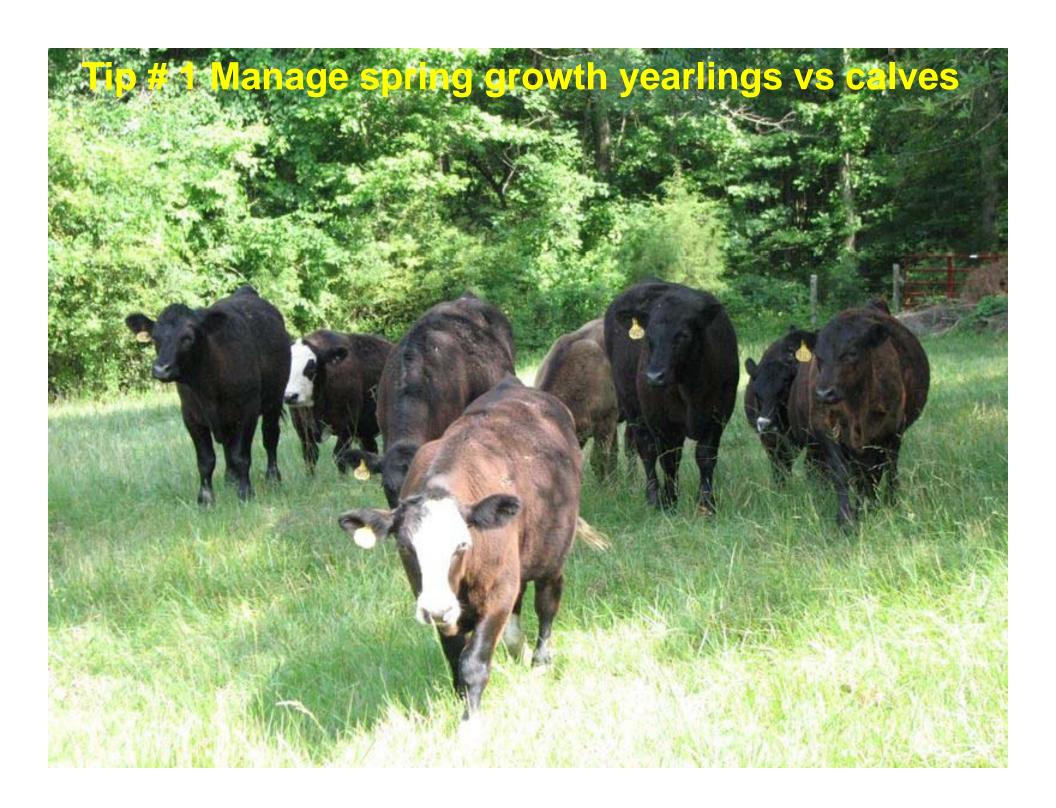




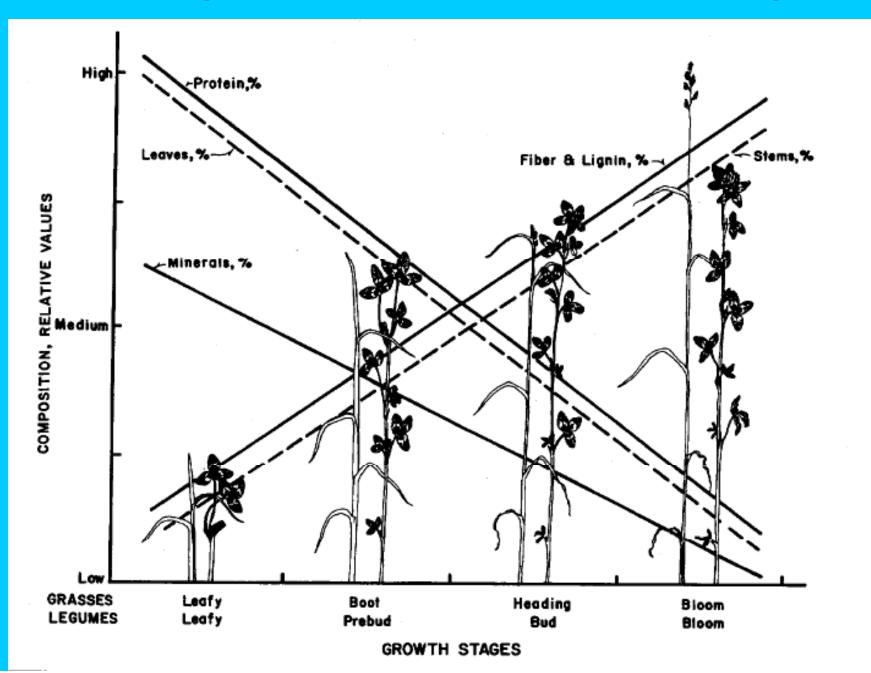
Effect of Grazing Pressure on Production per Animal & per Acre



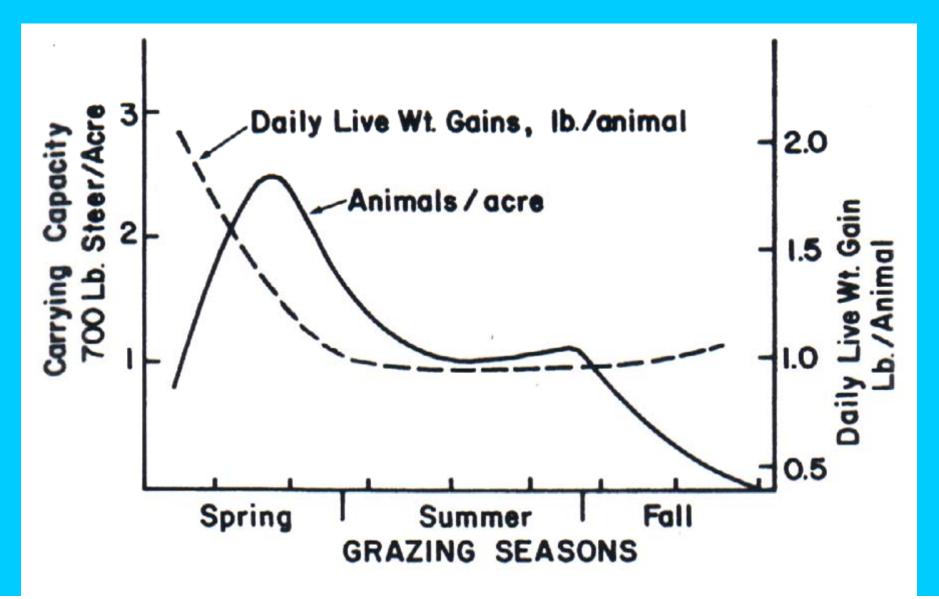




Forage Composition and Growth Stages



Expectations of Cattle & Forage



Tip #2 Maintain Legumes in Pastures



- Nitrogen
- Forage quality & digestibility
- Red clover>
 Ladino>
 Intermediate>
 Dutch

Approximate pounds of nitrogen annually fixed per acre by various legumes.

(Source: Don Ball, Auburn University)

Legume Species	Annual Ibs N/Acre	N value at \$.40 per lb.
Alfalfa	200-300	\$80-120
Red clover	100-200	\$40-80
White clover	100-150	\$40-60

Stocker gains of cattle grazing fescue interseeded with two white clover varieties

2-acre paddocks grazed at Eatonton, GA from 3/28-6/14, 2002

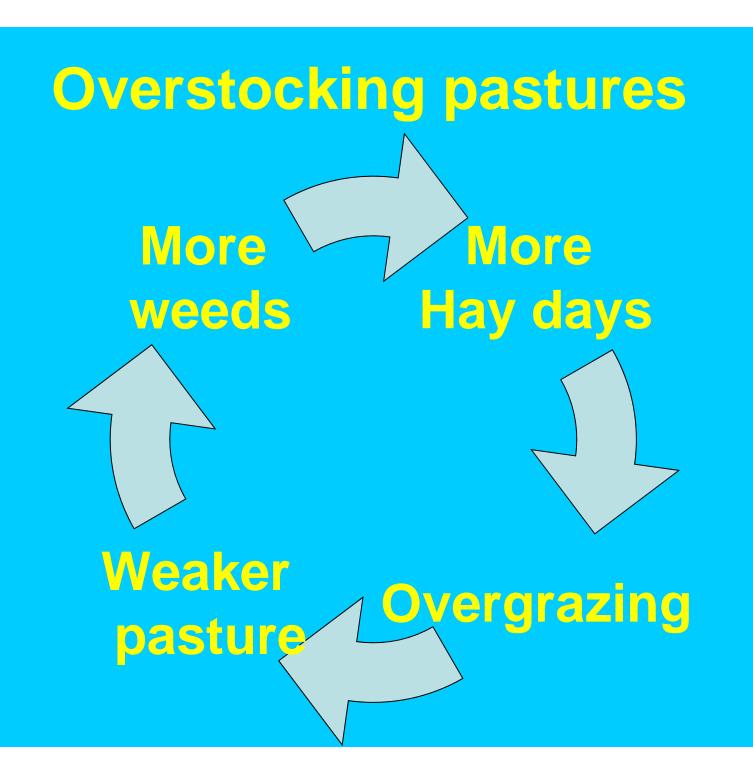
Pasture species	Average daily gain, lbs	Gain/acre, lbs
Toxic tall fescue	0.60	187
Fescue + Durana white clover	1.79	296
Fescue + Regal white clover	0.89	136

Clover seeded fall 1998.

Impact of grazing height on legume growth



Stocking Rate



Impact of Grazing Pressure and Management on Steers Grazing Orchardgrass Pastures

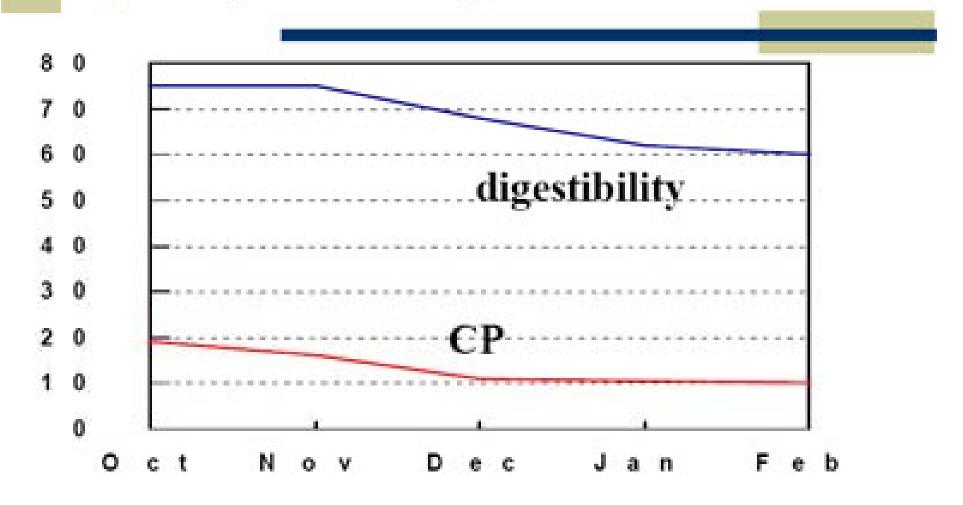
	Light	Medium	Heavy
Continuous			
Available forage, lbs DM/ac	1200-1600	600-1200	200-500
Grass height, in	4 - 6	3 - 5	2 - 3
ADG, lb/d	1.5	1.2	.73
Rotational			
Available forage, lbs DM/ac	1200-1800	600-1200	200-600
Grass height, in	4 - 6	3 - 5	2 - 3
ADG, lb/d	1.5	1.1	.81

Hammond,1970

Tip -Stockpile Fescue



Quality of Stockpiled Tall Fescue



Ross and Reynolds, 1979

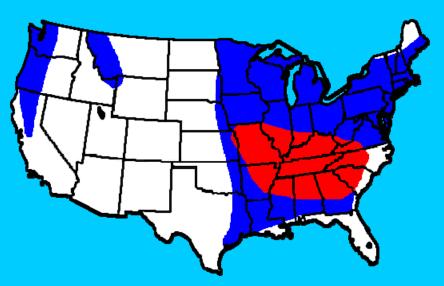
Strip Grazing



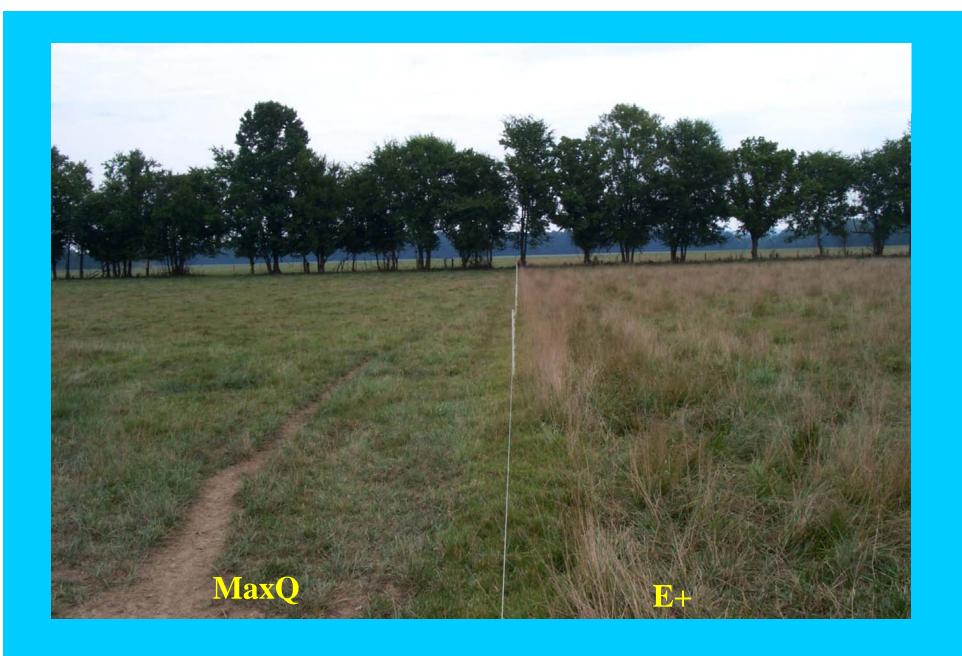
Tall Fescue

- √ pasture and hay
- ★ 90% of tall fescue fields in southeastern U.S. infected by wild-type "toxic" fungus
- Consumed by cattle, horses, sheep







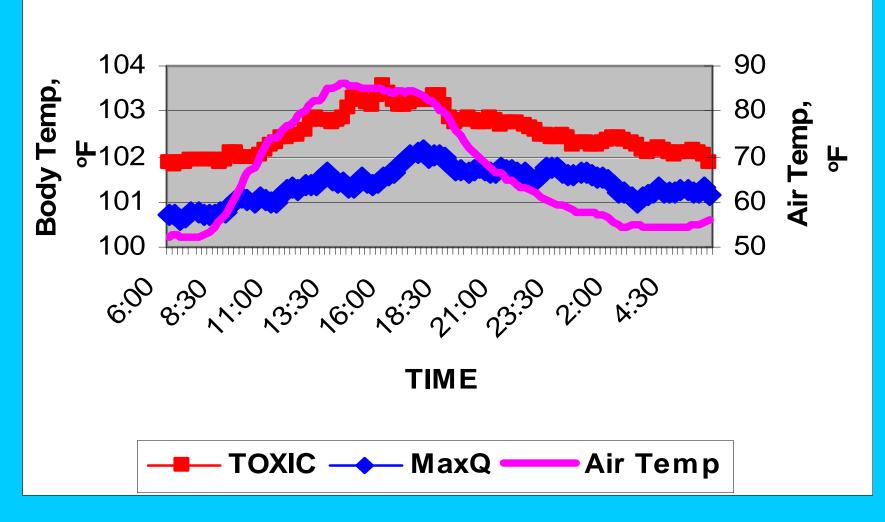


Cattle Paddocks
Calhoun GA, Spring 2001



IN SUMMER HEAT:





R. Watson, J. Parish, M. McCann, C. Hoveland, and J. Bouton, The University of Georgia

Tip - Ionophores









Questions?

