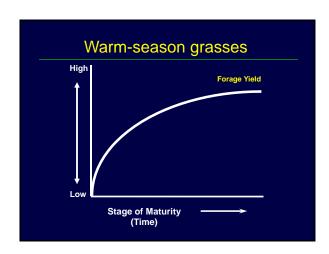
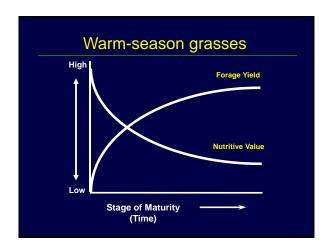
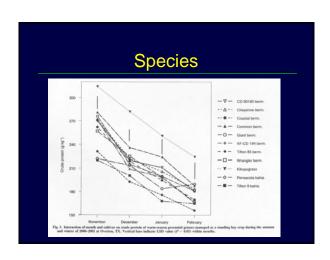


	Hay		
Cost for Hay production - 2007			
Cost Item	Cost per Ton	% of Total	
Labor	\$21.57	24%	
Chemicals	\$0.91	1%	
Fertilizer	\$50.00	50%	
Supplies	\$2.45	3%	
Depreciation	\$7.47	7%	
Fuel	\$1.32	1%	
Repairs/Maintenance	\$6.32	6%	
Other	\$2.33	2%	
Interest	\$6.28	6%	
TOTAL	\$98.65	100%	

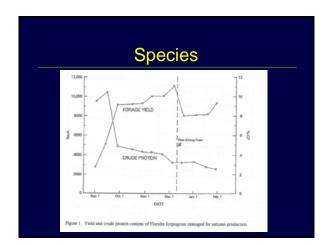
	Storage Losses			
Storage I	Dry Matter	Animal Refusal	TOTAL	
System	(%)	(%)	(%)	
Ground	28	22	50	
Gravel	31	17	48	
Tires	35	6	41	
Rack	26	6	32	
Rack with cove	er 12	2	14	
Barn	2	1	3	







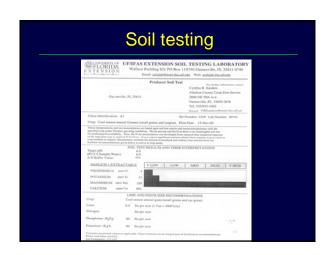
Species Limpograss Advantages Disadvantages High production Low CP concentration Competitive with weeds Not well adapted to dry, deep, sandy soils Adapted to wet soils Difficult to cure for hay at advanced growth stages Superior late fall and early spring production

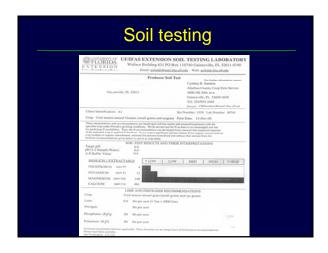












Fertilization

- ✓ N fertilization
- √ 50 100 lb N / acre on September

Fertilization Effects of N fertilization on Limpograss nutritive value CP TDN TDN:CP N rate lb/acre % % 45 5.6 50 9.1 135 7.3 54 7.4

Grazing

- ✓ 50-65 % grazing efficiency
- ✓ Grazing period: 70-120 d
- √ 0.75 acres / pair

Stockpiled Forage

Comparing Limpograss and Bahia + hay winter grazing systems

,	g <u>-</u> g -)		
	Weight Gain	Calf Weight	Preg Rates
	lbs	lbs	%
Limpograss	-115	547	91.6
Bahia + hay	-88	535	92.2

Grazing

- ✓ Limpograss (0.75 acres) can substitute approximately 1400 lbs of stored hay (15% waste)
- \checkmark \$ 35 /1000 lbs = \$ 49.00
- ✓ \$ 70 / 1000 lbs = \$ 98.00

Grazing

- ✓ 50-65 % grazing efficiency
- √ Grazing period: 70-120 d
- ✓ 0.75 acres / pair
- ✓ Plan B

Stockpiled Forages

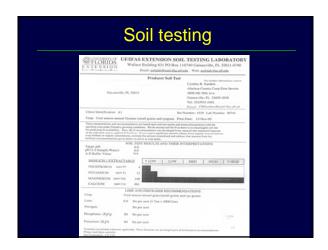
✓ Plan B: "BARN FULL OF HAY"

Winter forage

- ✓ Annual Ryegrass
- Cold tolerant varieties
- Late maturity, greater spring production
- Adapted to most soil types



Annual Ryegrass Table 1. Three years average dry matter yield of annual ryegrass at Overton TX. Yield (lb/ac) Variety Jumbo 7474 Prine 7358 Marshall 7126 Ed 7067 Jackson 6744 TAM 90 6556 Gulf 6256



Annual Ryegrass

✓ Fertilization program

N-P-K ~ 30 lb/acre – After germination

N ~ 50 lb/acre – Every 6 wks interval

Annual Ryegrass Planting method

Annual Ryegrass Establishment

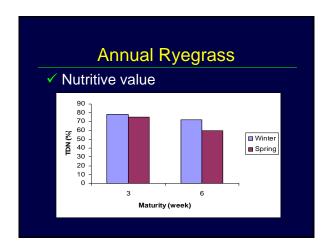
Method of Establishment	Ryegrass Yield (lb/ac)
Control	0
Overseeded	150
Gramoxone + overseeded	630
Light disk + overseeded	740
Roundup + overseeded	3400
Prepared seedbed + overseeded	3200

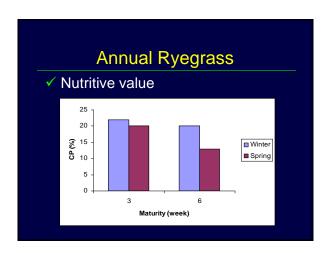
Annual Ryegrass

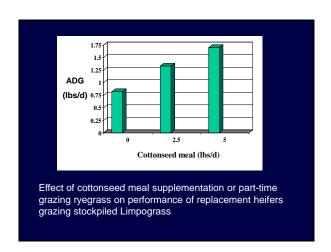
VERY IMPORTANT!

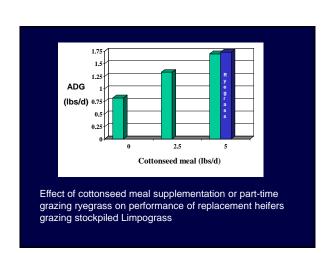
✓ Pulling some type of drag behind the seeder and/or rolling helps to cover the seed, firm the seedbed and allow better seed-soil contact











Days Grazing Ryegrass	Cost of Ryegrass establishment + fertilization / acre				
	CSM \$ Equiv.	\$100	\$150	\$200	\$250
	\$	\$			
12	42	-58	-108	-158	-208
24	84	-16	-66	-116	-166
36	126	26	-24	-74	-124
48	168	68	18	-32	-82

