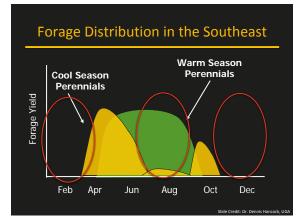
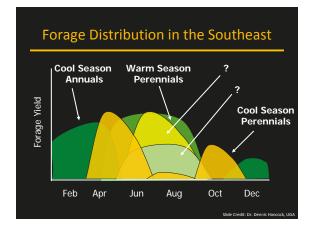
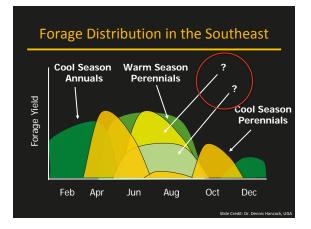
Summer Annual Species and Variety Selection Dr. Deidre Harmon, NCState

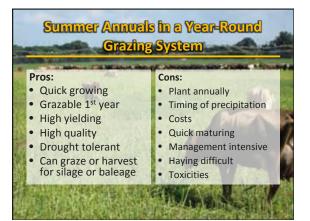
















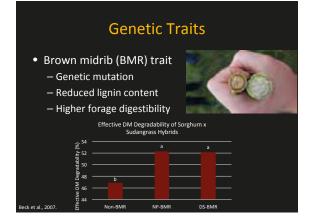






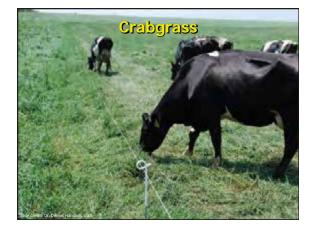


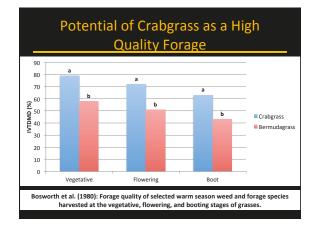






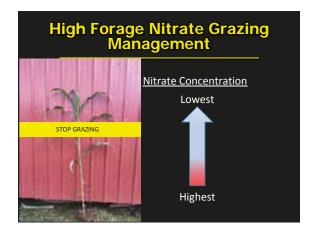


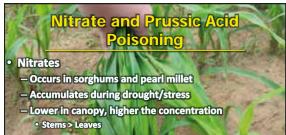




		n-Seaso Establisl			
	Forage Sorghum	Sorghum x Sudangrass	Sudangrass	Pearl Millet	Crabgrass
Seeding depth	1-1 1/2	1-1 1/2	1-1 1/2	3/4-1	1/4







Prussic Acid

- Occurs only in sorghums
- Start grazing once plant reaches 18-24 inches
- Accumulates during drought and frost stress in leaves

Summer-Annual Forage Pests

Sugarcane aphid

- 2012 shift host preferences
 Flupyradifurone (Sivanto)
 Transform (Section 18)
- Chinch bug
 - Preventative (14-21 d after emergence)
 Beta-cyfluthrin (Baythroid)
 Zeta-cypermethrin (Mustang Max)
- Seed treatment for both pests
 Gaucho 600 (45 day grazing)



	Produc	orage Dry Ma	100 C	re)
	20	15	2	016
Forage Type	Tifton	Griffin	Tifton	Griffin
Forage Sorghum				
Sorghum x Sudangrass				
Pearl Millet				

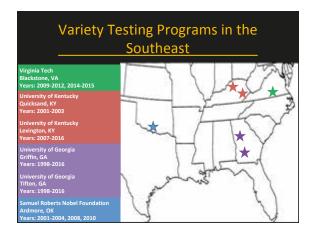


Recommendations

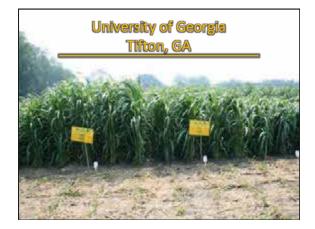
- Past recommendations
 - 1. Price
 - 2. Convenience "What's on the shelf"
- Future recommendations
 - 1. Forage yield
 - 2. Forage quality
 - 3. Pest/disease resistance

Objective

• Determine which varieties of forage sorghum (FS), sorghum x sudangrass (SS) hybrids, and pearl millet (PM) CONSISTENTLY yielded well across multiple years and multiple environments.



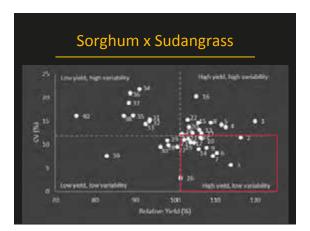




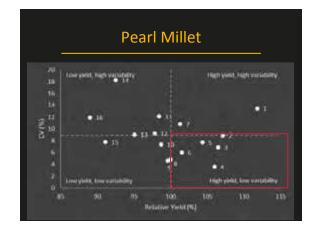
	20	15	20	15	20	14			
	Tifton	, UGA	Griffir	i, UGA	Blackst	one, VT	Overall		Coefficient
PM Variety	ariety Rel Yield Y	Relative Yield (%)		Relative Yield (%)	Yield (kg ha⁻¹)	Relative Yield (%)	Relative Yield (%)	Standard Deviation	of Varatior (CV)
А	6400				9600				
в	5800		9250		7525				
	3500		11050		5000				
	4000		8340		8800				
100+ F	Relative Y	ield 🌙				10	- Coeffici	ent of Vari	ation 🗸

Calculations and Standardization

Varie	ty Selec	ction Tool	
Species	Total Varieties	Varieties That Met Criterion (6 site/year)	Varieties With High Relative Yield + CV < 10
Sorghum x Sudangrass	229		
Pearl Millet	62		



Variety Code	Variety	Company/Brand Name	Site- Year Count	Average Relative Yield (%)	CV (%)
	SS 211	Southern States	38	116	11.5
	AS5201	Alta Seeds		114	5.6
	Summergrazer III	Pennington		110	8.2
	Headless Trudan	NK		109	
	Special Effort			108	9.2
	AS9302	Alta Seeds		107	11.3
	Super Sugar	Gayland Ward		107	12.3
	705F (SGxS)	Dnya-Gro		106	11.5
	Headless Sordan	NK		106	9.0
	Green Grazer V	Seed Resource		105	10.3
18	SG-2000	Coffey		104	12.4
19	Super Sugar(DM)	Gayland Ward		104	10.4
	Sweet For Ever	Gayland Ward		103	11.1
23	AS9301	Alta Seeds	12	102	11.0
24	Sugar Graze Ultra	Coffey	11	102	12.3
25	SS 220	Southern States	41	101	12.1
26	ExtraGraze bmr	Coffey	3	101	2.8

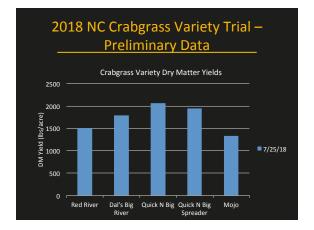


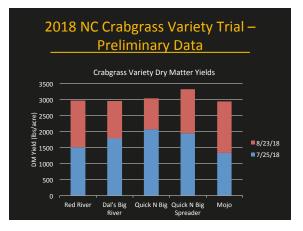
_					
Variet Code		Company/Brand Name	Site- Year Count	Average Relative Yield (%)	CV (%)
2	Tif Exp. 6*	Ga CPES	11	107.13	8.90
	Tifleaf 3	Ga CPES	46	106.50	6.85
	Elite III	CSC	8	105.97	3.58
	SS 635	Southern States	43	104.33	7.71
	DMP4SR*	USDA-ARS	17	101.53	5.98
*Indicate	Experimental varieti	es			











Summary

- Varieties of SS and PM differ in performance across environments
- Select varieties based on TESTED performance
- Management, Management,

Management!!!!



Summary

- There are many forage options to ease seasonal transitions in the summer and summer slump in cool-season perennial forage production
- Take advantage of the long growing season and graze it, don't hay it.
- Plan on incorporating summer annual forages into your forage program!

Summer Annual Species and Variety Selection Dr. Deidre Harmon, NCState



