

SORGHUM FOR SILAGE

Tifton, Georgia:

Early-Planted Sorghum Hybrids for Silage, 2005, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield	Quality Factors ¹	
		Dry	Green				Milk Production ²	
		--- tons/acre	---				in	%
AgraTech	86S	8.6	31.0	118	28	.	2053	17658
Southern States	SS1515F	7.5	27.1	95	28	6.8	2136	16021
AgraTech	3723F	7.3	24.3	100	30	.	2215	16465
Moss	4Ever Green	7.1	33.2	118	21	6.8	1867	13257
Pennington	Summergrazer III	6.7	20.2	114	33	.	1960	13131
AgraTech	8208F	6.2	19.0	103	32	.	2487	15421
AgraTech	9161F	6.1	23.0	110	26	.	2133	13009
SS	SS-85F	5.7	21.7	98	26	6.1	2527	14404
Moss	4Ever Green BMR	5.3	23.9	111	22	5.2	2579	13667
Moss	Millennium BMR	4.4	16.8	88	27	4.5	2901	12764
Pennington	Penn02BMR	4.3	14.9	109	29	.	2670	11481
Average		6.3 ³	23.2	106	28	5.9	2321	14298
LSD at 10% Level		1.2	4.3	17	1	1.0	435	2798
Std. Err. of Entry Mean		0.5	1.8	7	1	0.4	170	1095

1. Quality factors taken from the replicated silage trial at Tifton
2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 15.8% and df for EMS = 30.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 22, 2005.

Harvested: July 25, 2005.

Seeding Rate: 140,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 5.1.

Fertilization: Preplant: 60 lb N, 75 lb P₂O₅, 112 lb K₂O, and 2000 lb Dolomitic lime/acre.

Sidedress: 81 lb N/acre.

Previous Crop: Sorghum sudan.

Management: Paratilled and rototilled; Atrazine and three cultivations used for weed control; Lorsban used for insect control.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2005

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
AgraTech	9161F	9.2	35.0	131	26	.
AgraTech	86S	8.4	31.2	131	27	.
AgraTech	8208F	7.1	23.8	99	30	.
Southern States	SS1515F	7.1	28.2	92	25	6.9
Moss	Millennium BMR	7.1	26.7	112	27	6.2
Moss	4Ever Green	6.7	42.6	122	16	7.9
Pennington	Summergrazer III	6.5	21.5	93	30	.
SS	SS-85F	6.2	24.8	101	25	6.7
AgraTech	3723F	6.1	24.0	98	25	.
Pennington	Penn02BMR	5.2	22.6	110	23	.
Moss	4Ever Green BMR	4.7	30.2	103	16	5.9
Average		6.7 ¹	28.2	108	25	6.7
LSD at 10% Level		0.9	3.7	9.3	3	N.S. ²
Std. Err. of Entry Mean		0.4	1.5	3.9	1	0.4

1. CV = 10.9% and df for EMS = 30.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 19, 2005.

Harvested: August 26, 2005.

Seeding Rate: 150,000 seed/acre in 30" rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.0.

Fertilization: Preplant: 28 lb N, 56 lb P₂O₅, and 84 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Wheat.

Management: Chisel plowed, disked, and rototilled; Aatrex and one cultivation used for weed control; irrigated 1.0 inch.

Test conducted by P. A. Rose.