

SORGHUM FOR SILAGE

Tifton, Georgia:

Evaluation of Sorghum Hybrids for Silage, 2009, Irrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield
		Dry --- tons/acre ---	Green			
Advanta	SG26837	7.0	30.2	72	23	.
Southern States	SS1515F	6.3	25.2	78	25	6.2
Coffey	Exp816BMR	6.0	20.2	82	30	6.8
FL	Fla.R27	5.7	25.1	82	22	.
Average		6.2 ¹	25.2 ²	78	25	6.5
LSD at 10% Level		N.S. ³	4.1	7	3	N.S.
Std. Err. of Entry Mean		0.4	1.6	2	1	0.3
Ratoon or Regrowth Crop						
Southern States	SS1515F	5.0	15.1	84	33	5.5
Coffey	Exp816BMR	4.0	14.0	98	29	5.3
Advanta	SG26837	5.0	16.5	75	30	.
FL	Fla.R27	4.8	18.4	76	26	.
Average		4.7 ⁴	16.0 ⁵	83	30	5.4
LSD at 10% Level		N.S.	N.S.	9	3	-
Std. Err. of Entry Mean		0.7	2.4	4	1	-

1. CV = 14.6% and df for EMS = 9.
2. CV = 12.6% and df for EMS = 9.
3. The F-test indicates no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
4. CV = 28.4% and df for EMS = 9.
5. CV = 26.2% and df for EMS = 9.

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

Planted: April 30, 2009.

Harvested: August 6, 2009.

Ratoon: November 19, 2009.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Tifton sandy loam.

Soil Test: P = Very High, K = Medium, and pH = 5.8.

Fertilization: Preplant: 34 lb N, 34 lb P₂O₅, and 101 lb K₂O/acre.

Sidedress: 100 lb N/acre, plus 50 lb N/acre after 1st harvest..

Previous Crop: Summer annuals.

Management: Disked, subsoiled and bedded, rototilled; Atrazine and one cultivation used for weed control; irrigated 8.0 inches.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2009

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
Southern States	SS1515F	5.3	20.7	56	25	5.1
Coffey	Exp816BMR	4.6	16.6	72	28	4.4
Advanta	SG26837	4.5	21.1	52	22	.
FL	Fla.R27	3.7	20.0	62	18	.
Average		4.5 ¹	19.6 ²	61	23	4.8
LSD at 10% Level		0.6	1.9	4	2	0.6
Std. Err. of Entry Mean		0.2	0.7	2	1	0.2
<u>Ratoon or Regrowth Crop</u>						
Southern States	SS1515F	1.6	10.8	56	14	.
Coffey	Exp816BMR	1.5	13.3	72	11	.
Advanta	SG26837	1.1	9.1	52	12	.
FL	Fla.R27	0.6	4.6	62	13	.
Average		1.2 ³	9.5 ⁴	61	13	.
LSD at 10% Level		0.4	2.3	4	1	
Std. Err. of Entry Mean		0.2	0.8	2	1	

1. CV = 10.3% and df for EMS = 9.

2. CV = 7.4% and df for EMS = 9.

3. CV = 28.4% and df for EMS = 8.

4. CV = 18.4% and df for EMS = 8.

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

Planted: June 2, 2009.

Harvested: September 8, 2009.

Ratoon: November 18, 2009.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Pacolet coarse sandy loam.

Soil Test: P = High, K = Very High, and pH = 5.9.

Fertilization: Preplant: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre.

Sidedress: 100 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Soybean.

Management: Chisel plowed, disked, rototilled; Atrazine and two cultivations used for weed control.

Test conducted by J. Gassett and G. Ware.