

# SORGHUM FOR SILAGE

## Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2013

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield	Disease <sup>1</sup> rating
		Dry --- tons/acre ---	Green				
Alta Seeds	AF8301	<b>8.6</b>	23.9	94	36	<b>8.1</b>	2.0
Sorghum Partners	CHR-FS9	<b>8.4</b>	<b>28.5</b>	130	30	.	2.0
Southern States	SS1515F	<b>8.3</b>	21.6	94	38	<b>7.6</b>	3.0
Sorghum Partners	CHR-FS3	<b>8.1</b>	22.6	86	36	.	2.0
AgraTech	81F	<b>8.1</b>	21.7	88	37	.	2.0
Gayland Ward	Ensil Master	<b>7.5</b>	<b>25.0</b>	132	30	<b>8.0</b>	2.0
Coffey	MaxiGain bmr-6	<b>7.4</b>	<b>28.3</b>	121	26	6.9	2.0
Coffey	Centurion bmr-6	<b>7.4</b>	24.0	97	31	<b>7.6</b>	2.0
Pioneer	849F	6.9	19.7	108	35	.	4.0
Dyna-Gro	FullGraze	6.7	23.0	136	29	.	2.0
Dyna-Gro	Danny Boy	6.7	20.9	113	32	.	4.0
Sorghum Partners	CHR-FS4	6.6	21.3	150	31	.	2.0
Gayland Ward	Exp 10074	6.4	17.3	132	37	.	2.0
SS	SS2010BDF	6.4	17.8	65	36	6.3	2.0
Grabow	80F BMR6	6.0	17.8	77	34	.	2.0
Alta Seeds	AF7401	5.8	17.5	76	33	6.5	2.0
Gayland Ward	GW 400 BMR	5.4	14.2	109	38	5.3	2.0
Dyna-Gro	Dynagraze II	5.4	15.7	108	35	.	4.5
Alta Seeds	AF7101	4.6	12.9	86	36	4.8	4.5
Advanta	AF7201	4.5	12.4	88	36	4.9	4.0
Dyna-Gro	71F10	4.2	11.8	86	35	.	3
Average		6.6 <sup>2</sup>	19.9 <sup>3</sup>	104	34	6.6	2.6
LSD at 10% Level		1.2	3.6	4	4	0.7	-
Std. Err. of Entry Mean		0.5	1.5	2	2	0.3	-

## Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2013 (Continued)

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre	Disease <sup>1</sup> rating
		Dry --- tons/acre ---	Green ---				
<b>Ratoon or Regrowth Crop</b>							
Pioneer	849F	<b>4.9</b>	<b>19.6</b>	.	25	.	.
Gayland Ward	Exp 10074	<b>4.8</b>	<b>17.9</b>	.	27	.	.
Coffey	Centurion bmr-6	3.7	16.7	.	22	.	.
Dyna-Gro	Dynagraze II	3.5	11.0	.	33	.	.
Coffey	MaxiGain bmr-6	3.5	<b>16.8</b>	.	21	.	.
Dyna-Gro	FullGraze	3.5	14.7	.	23	.	.
Gayland Ward	Ensile Master	3.3	16.3	.	21	.	.
Sorghum Partners	CHR-FS9	3.2	16.1	.	20	.	.
Gayland Ward	GW 400 BMR	3.0	11.8	.	26	.	.
Sorghum Partners	CHR-FS3	3.0	14.3	.	21	.	.
Alta Seeds	AF8301	2.9	11.7	.	25	.	.
Alta Seeds	AF7101	2.9	9.8	.	29	.	.
AgraTech	81F	2.7	11.3	.	24	.	.
Dyna-Gro	Danny Boy	2.7	9.6	.	28	.	.
Southern States	SS1515F	2.6	10.7	.	24	.	.
Advanta	AF7201	2.5	9.3	.	26	.	.
Sorghum Partners	CHR-FS4	1.8	7.9	.	23	.	.
SS	SS2010BDF	1.8	6.3	.	28	.	.
Grabow	80F BMR6	1.7	7.3	.	24	.	.
Alta Seeds	AF7401	1.5	5.8	.	26	.	.
Dyna-Gro	71F10	1.4	5.9	.	25	.	.
Average		2.9 <sup>4</sup>	11.9 <sup>5</sup>	.	25	.	.
LSD at 10% Level		0.7	2.8		5		
Std. Err. of Entry Mean		0.3	1.2		2		

1. Rated 1 = resistant to 5 = highly susceptible to foliar diseases.

2. CV = 14.7% and df for EMS = 60.

3. CV = 15.5% and df for EMS = 60.

4. CV = 21.7% and df for EMS = 60.

5. CV = 19.9% and df for EMS = 60.

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

Planted: April 18, 2013.

Harvested: August 16, 2013.

Ratoon: October 3, 2013.

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

Soil Type: Tifton loamy sand.

Soil Test: P = Very High, K = Medium, and pH = 6.3.

Fertilization: Preplant: 128 lb N, 0 lb P<sub>2</sub>O<sub>5</sub>, and 80 lb K<sub>2</sub>O/acre. Sidedress: 130 lb N/acre.

Previous Crop: Summer annuals.

Management: Disked, subsoiled and bedded, rototilled: Atrazine and Prowl used for weed control; Telone II used for nematode control.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

## Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2013

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
Sorghum Partners	CHR-FS9	<b>10.1</b>	<b>34.4</b>	126	29	.
Dyna-Gro	FullGraze	<b>9.9</b>	<b>36.4</b>	140	27	.
Gayland Ward	Exp 10074	8.8	23.1	138	38	.
Gayland Ward	Ensile Master	8.5	<b>35.6</b>	147	24	<b>8.9</b>
Sorghum Partners	CHR-FS3	8.1	28.6	110	28	.
Alta Seeds	AF8301	7.9	28.8	102	28	7.9
SS	SS2010BDF	7.0	26.0	83	27	6.7
Pioneer	849F	6.9	25.0	118	28	.
Southern States	SS1515F	6.9	24.5	104	28	7.1
Coffey	Centurion bmr-6	6.8	27.9	110	25	7.3
Coffey	MaxiGain bmr-6	6.8	32.8	108	21	6.6
Alta Seeds	AF7401	6.6	25.9	83	26	6.8
Sorghum Partners	CHR-FS4	6.2	23.0	154	27	.
Alta Seeds	AF7101	5.9	16.5	100	36	6.5
Dyna-Gro	Danny Boy	5.9	22.4	124	26	.
Advanta	AF7201	5.5	18.1	107	30	6.0
Gayland Ward	GW 400 BMR	5.4	20.3	118	27	6.2
Dyna-Gro	71F10	5.4	18.6	107	29	.
Dyna-Gro	Dynagraze II	5.0	19.5	120	26	.
Average		7.0 <sup>1</sup>	25.6 <sup>2</sup>	116	28	7.0
LSD at 10% Level		1.0	3.2	7	3	0.8
Std. Err. of Entry Mean		0.4	1.3	3	1	0.3

1. CV = 12.3% and df for EMS = 54.

2. CV = 10.5% and df for EMS = 54.

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

Planted: May 23, 2013.

Harvested: August 28, 2013.

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

Soil Type: Cecil sandy clay loam.

Soil Test: P = Medium, K = High, and pH = 6.3.

Fertilization: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Soybeans.

Management: Chisel plowed, disked, rototilled; Dual Magnum and one cultivation used for weed control.

Test conducted by J. Gassett and G. Ware.