

SORGHUM FOR SILAGE

Tifton, Georgia:

Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre	Disease ¹ rating
		Dry --- tons/acre ---	Green				
Gayland Ward	GW 600 BMR	4.8	27.5	100.3	18	4.6	.
Southern States	SS 1515F	4.7	32.1	71.0	15	4.7	.
Sorghum Partners	SPX27614	4.7	35.8	103.0	13	.	.
Sorghum Partners	SPX27514	4.6	34.9	106.0	13	.	.
Southern Harvest	905 (HFS)	4.5	29.8	73.0	15	.	.
Sorghum Partners	SPX23514	4.4	30.0	98.5	15	.	.
Sorghum Partners	SPX28414	4.3	38.7	106.5	11	.	.
Alta Seeds	AF8301	4.3	29.3	69.5	15	5.2	.
Gayland Ward	Super Sugar	4.3	24.8	109.5	17	.	.
Gayland Ward	GW 2120	4.2	27.7	97.5	15	.	.
Dyna-Gro	FullGraze	4.2	31.2	113.5	14	5.0	.
Gayland Ward	Super Sugar(DM)	4.2	30.5	114.0	14	.	.
Sorghum Partners	SS405	4.2	32.1	113.0	13	5.4	.
Athens	HFS 1	4.2	27.1	76.5	16	4.6	.
Sorghum Partners	NK300	4.2	27.3	73.0	15	4.7	.
Blade	EJ 7281	4.1	35.5	100.5	12	.	.
Gayland Ward	GW 400 BMR	4.1	25.1	97.0	16	4.4	.
Sorghum Partners	Hikane II	3.9	25.9	102.5	15	.	.
Sorghum Partners	SP1615	3.9	27.1	88.5	14	.	.
Coffey	Centurion bmr-6	3.9	29.7	71.5	13	4.7	.
Sorghum Partners	SP 3903 DB	3.6	26.2	61.5	13	.	.
Coffey	MaxiGain bmr-6	3.5	28.0	75.0	12	3.9	.
Moss	MegaGreen PPS Sorghum Sudan	3.4	28.0	100.5	12	.	.
SS	SS 2010 BDF	3.3	25.2	55.5	13	3.9	.
Moss	4EverGreen PPS Forage Sorghum	3.3	26.4	88.5	13	.	.
Alta Seeds	AF7301	3.3	23.4	79.0	14	.	.
Dyna-Gro	FullGraze BMR	3.2	26.6	91.0	12	3.6	.
Gayland Ward	Silo-Pro BMR DF	3.2	23.4	58.5	14	.	.
Alta Seeds	AF7401	3.1	24.1	55.0	13	4.3	.
Blade	DS 7853	2.9	26.8	94.0	11	.	.
Sorghum Partners	SPX37114	2.7	16.2	48.0	17	.	.
Sorghum Partners	SPX37214	2.7	16.8	49.5	16	.	.
Average		3.9 ²	27.9 ³	85.6	14	4.5	.
LSD at 10% Level		0.6	3.5	7	1.3	N.S. ⁴	
Std. Err. of Entry Mean		0.3	1.5	3	0.5	5.7	

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Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre	Disease ¹ rating
		Dry --- tons/acre ---	Green ---				
<u>Ratoon or Regrowth Crop</u>							
Dyna-Gro	FullGraze	7.2	34.1	127.5	21	5.0	2.0
Blade	EJ 7281	6.8	39.3	126.0	17	.	1.0
Alta Seeds	AF8301	6.4	26.8	92.5	24	4.7	2.0
Moss	MegaGreen PPS Sorghum Sudan	6.3	32.7	128.5	19	.	2.0
Dyna-Gro	FullGraze BMR	6.0	30.3	112.5	20	3.9	2.0
Athens	HFS 1	5.9	28.8	91.0	21	4.4	2.3
Gayland Ward	Super Sugar(DM)	5.9	26.5	124.5	22	.	2.5
Gayland Ward	GW 600 BMR	5.9	23.3	121.0	25	4.1	2.3
Coffey	Centurion bmr-6	5.8	29.8	90.0	20	4.1	2.3
Southern Harvest	905 (HFS)	5.8	28.3	88.5	20	.	2.3
Sorghum Partners	SP1615	5.7	29.3	126.0	19	.	3.0
Gayland Ward	Super Sugar	5.3	20.3	116.5	26	.	3.5
Sorghum Partners	SPX28414	5.2	31.0	136.5	17	.	3.0
Sorghum Partners	SP 3903 DB	4.9	23.5	63.5	21	.	2.0
Gayland Ward	Silo-Pro BMR DF	4.8	25.0	73.5	19	.	2.0
Sorghum Partners	SS405	4.7	21.7	125.5	22	3.4	3.0
Sorghum Partners	SPX27514	4.7	23.5	121.5	20	.	3.0
Southern States	SS 1515F	4.6	22.2	79.5	21	3.7	2.5
Sorghum Partners	NK300	4.6	20.5	77.0	23	3.5	2.0
Moss	4EverGreen PPS Forage Sorghum	4.6	23.4	108.5	20	.	2.5
Gayland Ward	GW 400 BMR	4.5	19.1	116.5	23	3.2	3.5
Sorghum Partners	SPX23514	4.4	20.0	113.5	22	.	3.3
Alta Seeds	AF7401	4.1	20.4	63.5	20	3.1	2.0
Sorghum Partners	SPX37114	4.1	16.9	54.0	24	.	3.0
SS	SS 2010 BDF	4.1	18.2	63.0	22	3.0	2.5
Coffey	MaxiGain bmr-6	4.0	20.5	87.0	20	2.8	2.0
Sorghum Partners	Hikane II	4.0	18.5	120.5	22	.	2.8
Alta Seeds	AF7301	4.0	17.0	96.5	23	.	3.0
Gayland Ward	GW 2120	3.9	17.9	101.5	22	.	3.0
Sorghum Partners	SPX27614	3.8	19.8	129.0	19	.	3.0
Blade	DS 7853	3.7	19.9	113.0	18	.	2.5
Sorghum Partners	SPX37214	3.1	12.6	63.0	25	.	3.0
Average		5.0 ⁵	23.8 ⁶	101.6	21	3.8	2.5
LSD at 10% Level		0.8	3.6	9.2	1.6	0.5	0.6
Std. Err. of Entry Mean		0.3	1.5	3.9	0.7	0.2	0.2

Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated (Continued)

1. Rated as 1 = resistant to 5 = highly susceptible to foliar diseases.
2. CV = 13.7% and df for EMS = 93.
3. CV = 10.8% and df for EMS = 93.
4. The F-test indicates no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
5. CV = 12.8% and df for EMS = 93.
6. CV = 13.3% and df for EMS = 93.

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

Planted: April 23, 2015.

Harvested: June 25, 2015.

Ratoon: September 2, 2015.

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

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 65 lb N, 50 lb P_2O_5 , and 155 lb K_2O /acre.

Previous Crop: Summer annuals.

Management: Disked, subsoiled/bedded, and rototilled; Round-up used for burn down; Dual Magnum, Atrazine, and Warrant used for weed control; Transform and Sivanto used for insect control; Telone II used for nematode control.

Test conducted by D. Dunn, R. Brooke, B. McCranie, and G. South.

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre
		Dry --- tons/acre ---	Green			
Alta Seeds	AF8301	7.4	34.2	74.5	22	6.2
Dyna-Gro	FullGraze	7.0	35.3	129.5	20	6.1
Southern States	SS 1515F	6.7	31.3	74.8	22	5.8
Blade	EJ 7281	6.3	36.3	122.0	17	.
Southern Harvest	905 (HFS)	6.2	30.6	80.3	20	.
Athens	HFS 1	6.0	30.9	82.0	19	5.3
Moss	MegaGreen PPS Sorghum Sudan	5.8	36.2	119.0	16	.
Gayland Ward	Super Sugar(DM)	5.6	29.0	116.0	19	.
SS	SS 2010 BDF	5.5	29.7	63.0	18	5.0
Blade	DS 7853	5.3	33.6	101.3	16	.
Moss	4EverGreen PPS Forage Sorghum	5.2	34.0	111.5	15	.
Dyna-Gro	FullGraze BMR	5.1	29.8	105.3	17	5.0
Gayland Ward	GW 2120	5.0	23.2	98.0	22	.
Alta Seeds	AF7401	5.0	27.6	61.8	18	5.0
Gayland Ward	Silo-Pro BMR DF	4.9	26.1	64.8	19	.
Coffey	MaxiGain bmr-6	4.7	33.2	95.5	14	5.0
Gayland Ward	Super Sugar	4.7	20.1	106.0	23	.
Gayland Ward	GW 400 BMR	4.5	21.6	92.3	21	4.8
Coffey	Centurion bmr-6	4.1	21.9	79.8	19	4.5
Gayland Ward	GW 600 BMR	4.1	19.3	99.5	21	5.1
Alta Seeds	AF7301	3.7	17.3	92.5	21	.
Average		5.4 ¹	28.6 ²	93.8	19	5.3
LSD at 10% Level		1.0	4.6	9.0	2.2	0.8
Std. Err. of Entry Mean		0.4	1.9	4.0	1	0.3

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2015, Nonirrigated
(Continued)

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre
		Dry --- tons/acre ---	Green			
<u>Ratoon or Regrowth Crop</u>						
Alta Seeds	AF8301	3.1	20.3	57.3	15	2.1
Southern States	SS 1515F	3.0	19.6	58.0	15	2.2
Gayland Ward	GW 2120	3.0	20.6	69.5	14	.
Gayland Ward	GW 600 BMR	2.9	18.9	74.0	15	1.9
Athens	HFS 1	2.7	17.0	58.3	16	1.9
Southern Harvest	905 (HFS)	2.7	17.4	51.3	15	.
Dyna-Gro	FullGraze	2.6	18.5	79.3	14	2.2
Blade	EJ 7281	2.4	18.5	68.8	13	.
Alta Seeds	AF7401	2.4	16.5	45.5	14	2.3
Gayland Ward	GW 400 BMR	2.3	17.1	62.8	14	1.9
Gayland Ward	Super Sugar	2.3	14.9	72.0	16	.
Gayland Ward	Super Sugar(DM)	2.3	16.9	72.5	14	.
Moss	MegaGreen PPS Sorg	2.3	16.8	66.8	14	.
SS	SS 2010 BDF	2.3	15.6	44.5	15	1.9
Blade	DS 7853	2.2	15.5	58.0	14	.
Alta Seeds	AF7301	2.0	14.4	60.3	14	.
Moss	4EverGreen PPS For	2.0	14.6	57.0	14	.
Gayland Ward	Silo-Pro BMR DF	1.8	11.4	40.8	16	.
Coffey	MaxiGain bmr-6	1.8	13.4	56.8	13	1.7
Dyna-Gro	FullGraze BMR	1.8	12.3	57.8	14	1.2
Coffey	Centurion bmr-6	1.6	10.4	49.5	15	1.3
Average		2.4 ³	16.2 ⁴	60.0	14	1.9
LSD at 10% Level		0.4	2.8	6.8	1.2	0.4
Std. Err. of Entry Mean		0.2	1.2	2.9	0.5	0.2

1. CV = 15.4% and df for EMS = 60.

2. CV = 13.6% and df for EMS = 60.

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

4. CV = 16.2% 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: May 21, 2015.

Harvested: August 19, 2015.

Ratoon: October 7, 2015.

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

Soil Type: Cecil sandy clay loam.

Soil Test: P = Low, K = High, and pH = 6.6.

Fertilization: Preplant: 30 lb N, 60 lb P₂O₅, and 90 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Fallow.

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

Test conducted by H. Jordan and G. Ware.