

SORGHUM FOR SILAGE

Tifton, Georgia:

Evaluation of Sorghum Hybrids for Silage, 2014

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	Green				
		--- tons/acre ---					
Gayland Ward	Ensil Master	7.1	33.3	125.0	21	7.3	1.3
Sorghum Partners	SS405	6.7	27.2	140.5	24	.	3.0
Sorghum Partners	SPX901	6.1	24.3	114.0	25	.	2.3
Alta Seeds	AF8301	6.1	26.9	75.5	23	7.3	1.5
Dyna-Gro	FullGraze	5.8	23.5	123.5	24	6.2	1.5
Sorghum Partners	SPX-28313	5.8	24.2	132.0	24	.	2.0
Sorghum Partners	SPX903	5.8	24.2	106.0	24	.	1.0
Coffey	Centurion bmr-6	5.6	27.7	91.5	20	6.5	1.3
Sorghum Partners	SPX902	5.5	22.8	112.0	24	.	1.8
Sorghum Partners	SPX3902	5.5	23.3	77.0	24	.	1.0
Alta Seeds	AF7401	5.5	23.3	68.5	24	5.7	1.8
Sorghum Partners	NK300	5.3	24.9	77.0	21	6.7	1.3
Sorghum Partners	SPX3903	5.2	22.4	69.0	23	.	1.3
Sorghum Partners	SD1741 BMR	5.1	15.1	89.3	35	.	1.0
Athens	HFS 1	5.1	20.6	71.5	25	.	1.3
Sorghum Partners	1990	4.9	19.3	110.0	25	6.7	1.3
Alta Seeds	AF7102	4.9	18.0	69.0	27	.	2.0
Sorghum Partners	X942	4.8	21.6	98.5	22	.	1.5
Gayland Ward	Dwarf Forage BMR	4.8	25.1	78.5	19	.	1.5
Sorghum Partners	SPX904	4.8	17.9	108.8	27	.	1.8
Gayland Ward	GW 400 BMR	4.8	18.3	93.0	26	5.1	2.3
Southern States	SS1515F	4.7	21.7	76.5	22	6.5	1.5
Sorghum Partners	X492 BMR	4.6	22.4	89.0	21	.	1.0
SS	SS2010BDF	4.5	19.4	66.5	23	5.4	1.5
Alta Seeds	AF7202	4.4	17.5	67.0	25	.	1.5
Gayland Ward	GW 600 BMR	4.4	16.4	89.8	27	.	2.0
Coffey	MaxiGain bmr-6	4.2	20.3	91.0	21	5.8	1.3
Dyna-Gro	FullGraze BMR	4.0	17.2	78.0	23	.	2.8
Alta Seeds	AF7101	3.8	15.4	72.0	25	4.2	1.5
Sorghum Partners	SPX3952	3.7	14.2	73.3	26	.	1.3
Alta Seeds	AF7201	3.6	14.0	74.8	26	4.0	1.5
Average		5.1 ²	21.4 ³	90.6	24	6.0	1.6
LSD at 10% Level		1.0	4.2	11.7	2	0.9	0.7
Std. Err. of Entry Mean		0.4	1.8	5.0	1	0.4	0.3

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(Continued)

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>							
Alta Seeds	AF8301	3.0	16.6	70.0	18	2.9	2.0
Athens	HFS 1	2.9	17.0	66.0	17	.	2.0
Dyna-Gro	FullGraze	2.8	17.0	104.0	17	3.2	1.0
Southern States	SS1515F	2.8	16.0	66.0	17	2.7	2.0
Gayland Ward	Dwarf Forage BMR	2.8	17.7	64.0	16	.	2.0
Sorghum Partners	SPX3902	2.5	16.2	62.0	15	.	2.0
Gayland Ward	Ensil Master	2.5	18.8	88.0	13	2.9	2.0
Sorghum Partners	NK300	2.5	14.6	66.0	17	2.7	2.0
Sorghum Partners	1990	2.5	14.3	88.7	17	2.8	2.8
Coffey	Centurion bmr-6	2.4	16.2	62.0	15	3.0	2.0
Gayland Ward	GW 600 BMR	2.4	14.2	116.0	17	.	1.0
Alta Seeds	AF7401	2.1	12.0	48.0	18	1.8	3.0
Alta Seeds	AF7101	2.1	9.6	96.0	22	2.5	2.0
Gayland Ward	GW 400 BMR	2.0	11.9	104.0	17	2.5	3.0
Sorghum Partners	SS405	2.0	13.0	104.0	16	.	3.0
Sorghum Partners	SPX901	2.0	10.8	85.0	19	.	2.8
SS	SS2010BDF	2.0	10.8	52.0	20	1.9	2.0
Sorghum Partners	SPX3952	1.9	9.8	80.0	20	.	2.0
Sorghum Partners	SPX-28313	1.9	12.5	91.5	15	.	3.0
Sorghum Partners	SPX902	1.9	11.1	95.5	17	.	2.3
Alta Seeds	AF7202	1.8	11.0	68.0	16	.	2.0
Dyna-Gro	FullGraze BMR	1.8	9.4	96.0	19	.	2.0
Sorghum Partners	X492 BMR	1.8	11.5	63.0	15	.	2.8
Sorghum Partners	SPX3903	1.7	10.7	50.0	16	.	2.0
Alta Seeds	AF7102	1.7	9.9	68.0	17	.	2.0
Alta Seeds	AF7201	1.7	8.1	96.0	20	2.1	3.0
Coffey	MaxiGain bmr-6	1.6	10.1	73.5	17	2.6	2.8
Sorghum Partners	SD1741 BMR	1.6	7.6	93.0	19	.	2.0
Sorghum Partners	SPX903	1.3	6.9	80.5	17	.	3.0
Sorghum Partners	SPX904	1.1	5.9	73.5	19	.	2.8
Sorghum Partners	X942	0.7	4.2	65.5	17	.	3.0
Average		2.0 ⁴	12.1 ⁵	78.6	17	2.6	2.3
LSD at 10% Level		0.8	4.6	10.3	2	0.5	0.4
Std. Err. of Entry Mean		0.3	2.0	4.4	1	0.2	0.2

Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2014 (Continued)

1. Rating: 1 = resistant to 5 = highly susceptible to foliar diseases.
2. CV = 17.5% and df for EMS = 90.
3. CV = 16.7% and df for EMS = 90.
4. CV = 32.2 % and df for EMS = 90.
5. CV = 32.7% and df for EMS = 90.

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

Planted: May 8, 2014.

Harvested: August 8, 2014.

Ratoon: October 2, 2014.

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

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 60 lb N, 0 lb P₂O₅, and 80 lb K₂O/acre.

Sidedress: 135 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Summer annuals.

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

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

Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2014

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 ---			
Sorghum Partners	SPX904	7.4	27.7	106.8	27	.
Sorghum Partners	SPX903	6.8	25.9	104.0	26	.
Alta Seeds	AF7202	6.3	15.9	60.8	39	.
Gayland Ward	GW 600 BMR	6.1	15.0	99.5	41	.
Sorghum Partners	SS405	5.8	21.9	117.3	27	.
Sorghum Partners	SPX901	5.8	21.8	98.3	26	.
Sorghum Partners	SPX-28313	5.6	23.3	109.3	24	.
Sorghum Partners	1990	5.4	21.7	103.8	25	7.8
Sorghum Partners	SD1741 BMR	5.3	14.7	107.8	36	.
Sorghum Partners	SPX902	5.3	20.5	96.5	26	.
Dyna-Gro	FullGraze	5.2	18.8	109.5	28	7.6
Coffey	MaxiGain bmr-6	5.2	21.8	77.8	24	6.0
Gayland Ward	GW 400 BMR	5.2	15.2	86.8	34	5.3
Sorghum Partners	NK300	5.1	13.9	62.5	37	6.6
Alta Seeds	AF7401	5.0	19.0	56.3	26	5.8
Alta Seeds	AF8301	5.0	15.3	62.0	33	6.5
Dyna-Gro	FullGraze BMR	5.0	14.2	87.8	35	.
Alta Seeds	AF7201	5.0	10.1	85.8	49	5.2
Southern States	SS1515F	4.9	14.4	60.8	34	5.9
Alta Seeds	AF7102	4.9	11.8	62.3	42	.
Coffey	Centurion bmr-6	4.8	14.4	69.0	33	5.8
Sorghum Partners	X942	4.7	19.1	83.0	24	.
SS	SS2010BDF	4.6	16.9	56.8	27	5.8
Athens	HFS 1	4.6	13.0	67.8	35	.
Sorghum Partners	SPX3952	4.6	12.0	81.5	38	.
Gayland Ward	Ensile Master	4.5	16.4	100.5	27	6.5
Alta Seeds	AF7101	4.4	8.9	80.3	49	5.1
Sorghum Partners	SPX3903	4.2	13.5	61.8	31	.
Gayland Ward	Dwarf Forage BMR	4.2	14.6	65.8	29	.
Sorghum Partners	SPX3902	3.7	12.6	70.0	29	.
Average		5.1 ¹	16.8 ²	83.0	32	6.1
LSD at 10% Level		1.0	3.1	9.1	2	0.9
Std. Err. of Entry Mean		0.4	1.3	3.9	1	0.4

1. CV = 16.1% and df for EMS = 87.

2. CV = 15.9% and df for EMS = 87.

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

Planted: May 20, 2014.

Harvested: September 2, 2014.

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

Soil Type: Cecil sandy clay loam.

Soil Test: P = High, K = High, and pH = 6.7.

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

Previous Crop: Corn.

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

Test conducted by H. Jordan and G. Ware.