

SORGHUM FOR SILAGE

Tifton, Georgia:

Evaluation of Sorghum Hybrids for Silage, 2017

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			
Dyna-Gro	F73FS10	6.4	22.6	123.0	28	.
Sorghum Partners	SS405	6.1	25.2	144.5	24	6.2
Gayland Ward	EXP-15F909	5.8	20.8	127.5	28	.
Sorghum Partners	SP1880	5.6	27.7	144.0	20	5.7
Gayland Ward	EXP-15F910	5.3	18.2	120.0	29	.
Meherrin	SH905F	5.3	24.9	97.0	21	5.6
Dyna-Gro	705F (SGxS)	5.0	21.6	88.0	23	.
Sorghum Partners	SP1615	4.9	22.2	127.0	22	5.3
Alta Seeds	AF7401	4.8	22.3	73.5	21	4.5
Sorghum Partners	SP2774BMR	4.8	18.9	119.5	25	4.0
Dyna-Gro	F74FS23 BMR	4.7	23.8	118.5	20	.
Southern States	SS 1515F	4.4	19.6	89.0	23	5.0
Desert Sun	BUFFALO GRAIN	4.2	17.9	88.0	23	4.4
Sorghum Partners	NK300	4.2	17.1	86.0	25	4.5
Sorghum Partners	SP2876BMR	4.1	17.9	112.0	23	4.7
Alta Seeds	XF7103	4.1	17.0	67.5	24	.
Sorghum Partners	SP4555	4.0	17.3	118.0	23	.
Sorghum Partners	SP2880	4.0	16.0	110.5	25	.
SS	SS 2010 BDF	3.9	20.2	74.5	19	4.1
Moss	4Ever Green	3.7	18.9	104.5	20	4.5
Alta Seeds	XF7302	3.6	19.3	67.0	19	.
Gayland Ward	GW-475 BMR	3.4	11.8	114.0	29	.
Alta Seeds	XF7303	3.3	17.0	60.0	20	.
Dyna-Gro	F76FS77 BMR	3.3	14.8	68.5	22	.
Sorghum Partners	SPX56216	3.2	15.0	105.5	21	.
Sorghum Partners	SP3903BD	3.2	14.9	62.0	21	3.9
Gayland Ward	GW 600 BMR	3.1	11.6	115.5	27	4.3
Gayland Ward	EXP 15F1097	3.0	13.2	92.0	23	.
Gayland Ward	GW 400 BMR	3.0	12.4	97.0	24	3.6
Gayland Ward	Silo-Pro Dwarf BMF	2.6	12.4	64.5	21	3.6
Southern States	SS 1597FS	2.4	11.3	63.0	21	3.5
Average		4.2 ¹	18.2 ²	98.1	23	4.5
LSD at 10% Level		0.8	3.7	6.8	1	0.7
Std. Err. of Entry Means		0.4	1.6	2.9	0	0.3

Ratoon or Regrowth Crop:

No ratoon crop due to Hurricane Irma.

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2017
(Continued)

1. CV = 16.9% and df for EMS = 90.

2. CV = 17.4% 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: April 20, 2017.

Harvested: July 20, 2017.

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

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 50 lb N, 50 lb P_2O_5 , and 150 lb K_2O /acre. Sidedress: 60 lb N/acre.

Previous Crop: Soybeans.

Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Telone II used for nematode control; Sivanto used for insect control.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Athens, Georgia: Evaluation of Sorghum Hybrids for Silage, 2017

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield ¹ tons/acre
		Dry --- tons/acre ---	Green			
Dyna-Gro	F73FS10	6.0	21.8	110	27	.
Dyna-Gro	F74FS23 BMR	5.8	28.2	106	20	.
Gayland Ward	EXP-15F909	5.7	18.5	116	31	.
Dyna-Gro	705F (SGxS)	5.5	22.1	76	25	.
Gayland Ward	EXP-15F910	5.3	17.4	110	30	.
Meherrin	SH905F	5.0	20.8	71	24	4.6
Alta Seeds	AF7401	4.9	22.4	67	22	3.9
Dyna-Gro	F76FS77 BMR	4.7	22.1	67	22	.
Alta Seeds	XF7302	4.6	20.3	66	22	.
Gayland Ward	GW 400 BMR	4.5	18.4	91	24	3.7
Gayland Ward	GW 600 BMR	4.4	15.7	105	28	4.0
Alta Seeds	XF7103	4.3	16.4	65	27	.
Gayland Ward	EXP 15F1097	4.2	20.4	94	21	.
Desert Sun	BUFFALO GRAIN	4.0	17.0	73	24	3.7
Alta Seeds	XF7303	3.9	17.9	56	22	.
Moss	4Ever Green	3.7	18.6	92	20	3.0
Gayland Ward	GW-475 BMR	3.7	14.3	100	26	.
Gayland Ward	Silo-Pro Dwarf BMR	3.4	15.2	71	22	4.1
Average		4.6 ²	19.3 ³	85	24	3.8
LSD at 10% Level		1.0	3.5	7	3	NS ⁴
Std. Err. Of Entry Mean		0.4	1.5	3	1	0.3

Ratoon or Regrowth Crop

There was no ratoon crop this year due to poor regrowth.

1. Data from Griffin, 2016, and Athens, 2017.
2. CV = 18.4% and df for EMS = 51.
3. CV = 15.2% and df for EMS = 51.
4. The F-test indicates no statistical differences at the alpha = 0.10 probability level; therefore, an 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 16, 2017.
 Harvested: August 29, 2017.
 Seeding Rate: 100,000 seed/acre in 30" rows.
 Soil Type: Chewacla silt.
 Soil Test: P = Medium, K = Low, and pH = 6.1.
 Fertilization: Preplant: 50 lb N, 165 lb P₂O₅, and 330 lb K₂O/acre. Sidedress: 100 lb N/acre.
 Previous Crop: Ryegrass.
 Management: Strip tilled for planting; Dual Magnum and Atrazine used for weed control; Lorsban used for insect control.

Test conducted by H. Jordan and G. Ware.