SORGHUM FOR SILAGE

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter[1]	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Sorghum Partners	SS405	**6.2**	**31.9**	105.5	19	.
Sorghum Partners	SS304	**6.2**	**33.0**	84.5	19	.
Alta Seeds	AF8301	**6.0**	30.2	66.5	20	**5.2**
Mehrrin Ag	SH905F	**5.8**	28.9	63.5	20	.
Sorghum Partners	SP1880	**5.7**	**32.9**	96.5	17	.
Sorghum Partners	Hikane ll	**5.7**	26.0	88.0	22	**4.8**
Sorghum Partners	SP1615	**5.7**	**32.1**	80.0	18	**4.8**
Alta Seeds	AF7102	**5.7**	24.2	70.5	23	.
Southern States	SS 1515F	**5.6**	30.1	66.5	19	**5.1**
Gayland Ward	GW 600 BMR	**5.4**	25.7	95.5	21	**5.1**
Sorghum Partners	Sordan Headless	**5.3**	**33.9**	95.0	16	.
Sorghum Partners	SP2876BMR	**5.3**	26.9	83.5	20	.
Moss	4Ever Green	**5.3**	**36.3**	83.5	15	.
Sorghum Partners	SP4105	5.1	30.5	70.5	17	.
Sorghum Partners	CHR14FB0240	5.1	26.4	93.5	19	.
Sorghum Partners	CHR12FS0012	5.1	24.5	92.5	21	.
Sorghum Partners	RED TOP +BMR	4.9	28.4	85.0	17	.
Desert Sun	BIG KAHUNA	4.9	25.1	64.5	20	.
Sorghum Partners	NK300	4.8	24.3	64.0	20	**4.5**
Gayland Ward	Silo-Pro Dwarf BMR	4.6	24.6	63.5	19	3.9
Desert Sun	BUFFALO GRAIN	4.6	25.4	74.0	18	.
Sorghum Partners	SP3903BD	4.6	22.4	54.0	21	.
Southern States	SS 1597FS	4.6	24.6	60.0	19	.
Gayland Ward	EXP 10216	4.5	20.7	91.0	22	.
Alta Seeds	AF7201	4.4	20.0	86.0	22	.
Sorghum Partners	SP3902BD	4.4	22.2	56.5	20	.
SS	SS 2010 BDF	4.2	21.7	48.5	19	3.8
Alta Seeds	AF7401	4.2	23.2	54.0	18	3.6
Gayland Ward	GW 2120	4.2	20.9	77.5	20	4.2
Gayland Ward	GW 400 BMR	4.2	20.3	80.5	20	4.1
Mehrrin Ag	SH905F BMR	4.1	21.2	55.5	19	.
Sorghum Partners	SP4105BMR	3.8	23.1	65.5	17	.
Desert Sun	ELITE	3.3	16.8	53.8	20	.
Sorghum Partners	SP2774BMR	3.2	16.8	76.5	19	.
Average		4.9 [2]	25.7 [3]	74.9	19	4.5
LSD at 10% Level		1.0	4.8	9.1	1	0.8
Std. Err. of Entry Mean		0.4	2.0	3.9	1	0.3

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter[1]	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Ratoon or Regrowth Crop						
Alta Seeds	AF8301	**3.7**	**17.8**	58.5	21	**5.0**
Southern States	SS 1515F	**3.5**	**17.0**	59.5	20	4.0
Alta Seeds	AF7102	**3.4**	**16.2**	56.5	21	.
Sorghum Partners	SP2876BMR	**3.3**	**16.0**	63.0	20	.
Sorghum Partners	SS304	**3.3**	**18.6**	66.0	17	.
Mehrrin Ag	SH905F	**3.2**	**15.4**	58.0	21	.
Sorghum Partners	CHR12FS0012	**3.2**	14.2	65.5	23	.
Alta Seeds	AF7401	**3.2**	**16.2**	43.0	20	3.7
Sorghum Partners	SP1880	2.8	**14.7**	68.0	19	.
Sorghum Partners	Hikane II	2.7	13.9	60.5	20	3.4
Desert Sun	BUFFALO GRAIN	2.7	14.1	58.5	19	.
Sorghum Partners	CHR14FB0240	2.6	13.9	60.0	19	.
Sorghum Partners	NK300	2.6	13.3	55.5	20	3.6
Desert Sun	BIG KAHUNA	2.6	13.9	51.5	19	.
SS	SS 2010 BDF	2.6	12.1	43.5	21	3.3
Gayland Ward	Silo-Pro Dwarf BMR	2.5	11.4	45.5	22	3.6
Sorghum Partners	SP2774BMR	2.5	12.2	58.0	20	.
Gayland Ward	GW 600 BMR	2.5	11.7	60.5	21	4.2
Southern States	SS 1597FS	2.5	11.9	45.5	21	.
Sorghum Partners	SS405	2.4	12.9	60.5	19	.
Mehrrin Ag	SH905F BMR	2.4	10.3	46.5	23	.
Desert Sun	ELITE	2.4	9.9	46.5	24	.
Sorghum Partners	SP1615	2.3	10.5	61.0	22	4.0
Gayland Ward	GW 2120	2.2	10.3	58	22	3.1
Sorghum Partners	Sordan Headless	2.2	12.0	54.5	18	.
Sorghum Partners	SP4105	2.2	11.0	50.5	20	.
Gayland Ward	GW 400 BMR	2.1	10.2	60.5	21	3.3
Alta Seeds	AF7201	2.0	8.2	56.5	25	.
Sorghum Partners	RED TOP +BMR	2.0	11.2	49.0	18	.
Gayland Ward	EXP 10216	2.0	8.6	58.0	24	.
Sorghum Partners	SP3902BD	2.0	9.3	41.5	22	.
Moss	4Ever Green	2.0	9.2	54.5	21	.
Sorghum Partners	SP4105BMR	2.0	10.3	51.0	19	.
Sorghum Partners	SP3903BD	1.9	7.7	42.5	24	.
Average		2.6[4]	12.5[5]	54.9	21	3.7
LSD at 10% Level		0.7	3.4	6.4	1	0.5
Std. Err. of Entry Mean		0.3	1.4	2.7	1	0.2

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

1. Dry Matter: Due to an infestation of the sugar cane aphid, harvest was before soft dough.
2. CV = 16.9% and df for EMS = 99.
3. CV = 16.0% and df for EMS = 99.
4. CV = 22/6% and df for EMS = 99.
5. CV = 23.1% and df for EMS = 99.

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

Planted:	April 28, 2016.
Harvested:	July 12, 2016.
	Ratoon: August 30, 2016.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.6.
Fertilization:	Preplant: 50 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre.
	Sidedress: 50 lb N/acre.and 50 lb N after each cutting.
Previous Crop:	Dryland corn.
Management:	Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control; Telone II used for nematode control.

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

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated

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
Alta Seeds	AF8301	**5.0**	**15.1**	54.5	33	**6.2**
Gayland Ward	Silo-Pro Dwarf BMR	**4.8**	**16.0**	55.5	30	4.9
Mehrrin Ag	SH905F	4.2	**13.6**	56.5	31	.
Gayland Ward	GW 600 BMR	3.7	11.8	69.8	31	3.9
Alta Seeds	AF7201	3.6	10.0	60.5	36	.
Desert Sun	BUFFALO GRAIN	3.3	13.1	65.1	25	.
Sorghum Partners	SP4105BMR	3.2	12.7	57.0	25	.
Mehrrin Ag	SH905F BMR	3.1	9.9	51.8	31	.
Gayland Ward	EXP 10216	3.1	9.0	61.0	34	.
Alta Seeds	AF7102	3.0	8.6	44.0	34	.
Alta Seeds	AF7401	2.9	10.1	46.0	28	3.9
Gayland Ward	GW 400 BMR	2.8	9.2	50.0	31	3.7
Desert Sun	BIG KAHUNA	2.7	9.3	52.3	30	.
Gayland Ward	GW 2120	2.5	7.2	50.5	35	3.8
Moss	4Ever Green	2.2	8.3	61.8	26	.
Desert Sun	ELITE	1.7	5.4	45.3	32	.
Average		3.2 [1]	10.6 [2]	55.1	31	4.4
LSD at 10% Level		0.7	2.7	8.2	2	0.7
Std. Err. of Entry Mean		0.3	1.1	3.5	1	0.4
Ratoon or Regrowth Crop						
Mehrrin Ag	SH905F	**0.9**	**4.0**	32.8	23	.
Alta Seeds	AF7201	**0.9**	**4.0**	34.0	22	.
Alta Seeds	AF8301	**0.8**	**3.3**	31.8	24	**2.0**
Alta Seeds	AF7102	**0.7**	**3.3**	27.8	23	.
Gayland Ward	GW 600 BMR	**0.7**	**3.3**	29.3	22	**1.8**
Moss	4Ever Green	**0.7**	3.1	34.0	23	.
Sorghum Partners	sSP4105BMR	**0.7**	3.0	28.6	22	.
Alta Seeds	AF7401	0.6	2.6	23.5	24	**1.5**
Gayland Ward	GW 400 BMR	0.6	2.2	26.5	25	**1.5**
Gayland Ward	Silo-Pro Dwarf BMR	0.6	2.4	26.3	24	**1.2**
Gayland Ward	EXP 10216	0.6	2.7	30.0	22	.
Gayland Ward	GW 2120	0.4	2.0	26.8	23	**1.7**
Mehrrin Ag	SH905F BMR	0.4	1.6	25.3	24	.
Desert Sun	BUFFALO GRAIN	0.4	1.5	26.3	25	.
Desert Sun	BIG KAHUNA	0.3	1.3	26.8	28	.
Desert Sun	ELITE	0.3	1.0	22.5	29	.
Average		0.6 [3]	2.6 [4]	28.2	24	1.6
LSD at 10% Level		0.2	0.8	3.2	2	N.S.[5]
Std. Err. of Entry Mean		0.1	0.3	1.4	1	0.1

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

1. CV = 19.3% and df for EMS = 45.
2. CV = 21.5% and df for EMS = 45.
3. CV = 25.7% and df for EMS = 45.
4. CV = 25.3% and df for EMS = 45.
5. 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 18, 2016.
Harvested:	September 6, 2016. Ratoon: October 13, 2016.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Cecil sandy clay loam.
Soil Test:	P = Very High, K = Very High, and pH = 6.7.
Fertilization:	Preplant: 50 lb N, 100 lb P_2O_5, and 150 lb K_2O/acre. Sidedress: 100 lb N/acre.
Previous Crop:	Fallow.
Management:	Chisel plowed, disked, rototilled, and one cultivation; Dual Magnum and Atrazine used for weed control; Prevathon and Savanto used for insect control.

Test conducted by H. Jordan, G. Ware, and T. Dunn.