

# SUMMER ANNUAL FORAGES

## Tifton, Georgia: Evaluation of Summer Annual Forage, 2016 and Two-Year Average Yields, 2015-2016

Company or Brand Name	Hybrid Name or Number	Clipping Dates		Season Total	2-Year Average
		6-28-16	8-30-16		
----- dry matter yield - pounds per acre -----					
<b><u>Sorghum x Sudangrass</u></b>					
Mehrrin Ag	SH90044	<b>9233</b>	<b>13761</b>	<b>22994</b>	.
Moss	Mega Green	<b>7981</b>	<b>12548</b>	<b>20528</b>	.
Alta Seeds	AS6401	<b>8722</b>	11744	<b>20467</b>	<b>18768</b>
Gayland Ward	Super Sugar(DM)	<b>8195</b>	<b>12202</b>	<b>20397</b>	<b>17634</b>
Alta Seeds	AS6402	<b>8179</b>	<b>11956</b>	<b>20134</b>	<b>16446</b>
Southern States	SS 220 (SG X S)	<b>9167</b>	10915	<b>20082</b>	.
Sorghum Partners	Sordan Headless	<b>8113</b>	<b>11852</b>	<b>19965</b>	<b>17642</b>
Gayland Ward	Nutra-King BMR	<b>9022</b>	10721	<b>19743</b>	<b>17717</b>
Sorghum Partners	SP4555	<b>8884</b>	10736	<b>19620</b>	.
Sorghum Partners	CHR12FS0012	<b>8610</b>	10651	19261	.
Sorghum Partners	Hikane II	<b>8163</b>	10541	18704	.
Alta Seeds	AS9302	<b>7528</b>	10597	18125	<b>16141</b>
Gayland Ward	Sweet Six BMR Dry Stalk	<b>7464</b>	10087	17551	<b>17841</b>
Mehrrin Ag	SOUTHERN SWEET	6801	10682	17484	.
Southern States	SS 1652 SS (SG X S)	<b>7662</b>	9594	17255	.
Alta Seeds	AS9301	7254	9626	16880	.
Sorghum Partners	SP4105	6864	9806	16670	.
Sorghum Partners	SP6205	7320	9232	16552	.
Mehrrin Ag	SOUTHERN HONEY	<b>8616</b>	7805	16420	.
Gayland Ward	Super Sugar	6202	9881	16082	<b>16490</b>
Desert Sun	DSM 33-948	6398	9225	15623	.
Moss	4Ever Green	6171	8761	14932	.
Gayland Ward	Sweet Forever BMR	6160	8597	14756	<b>13373</b>
Southern States	SS 130 (S)	<b>8443</b>	5026	13469	.
Desert Sun	BIG KAHUNA	4798	6556	11354	.
Average		7678	10124	17802 <sup>1</sup>	16895
LSD at 10% Level		1814	1910	3396	N.S. <sup>2</sup>
Std. Err. of Entry Mean		765	805	1432	963
<b><u>Pearl Millet</u></b>					
Sorghum Partners	Millex 32	<b>8842</b>	<b>10203</b>	<b>19045</b>	.
Advanta	Wonderleaf	<b>9042</b>	<b>9450</b>	<b>18492</b>	.
UGA	Tifleaf 3	8302	8934	17236	<b>16846</b>
SS	SS 635 DF	8282	7490	15772	<b>16160</b>
Sorghum Partners	MILLEX BMR	6986	6498	13484	.
SS	SS 1562M BMR	7325	5585	12910	13016
Athens	HPM 1	6526	5494	12020	12929
Average		7901	7665	15566 <sup>3</sup>	14738
LSD at 10% Level		651	1110	1466	1168
Std. Err. of Entry Mean		266	452	598	476

**Tifton, Georgia:  
Evaluation of Summer Annual Forage, 2016  
and Two-Year Average Yields, 2015-2016  
(Continued)**

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1. CV = 13.9% and df for EMS = 48.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. CV = 7.7% and df for EMS = 18.

**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.

Seeding Rate: Sorghum x Sudangrass: 150,000 seed/acre in 30" rows.  
Millet: 500,000 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<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre.

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

Previous Crop: Summer Annuals.

Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control on sorghum x sudangrass only; Telone II used for nematode control.

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

**Griffin, Georgia:  
Evaluation of Summer Annual Forage, 2016  
and Two-Year Average Yields, 2015-2016**

Company or Brand Name	Hybrid Name or Number	Clipping Dates			Season Total	2-Year Average
		7-14-16	8-23-16	10-13-16		
----- dry matter yield - pounds per acre -----						
<u>Sorghum x Sudangrass</u>						
Moss	Mega Green	<b>2513</b>	<b>2736</b>	<b>1427</b>	<b>6677</b>	.
Sorghum Partners	SP4555	<b>2643</b>	<b>2376</b>	<b>1375</b>	<b>6395</b>	.
Sorghum Partners	Sordan Headless	<b>2390</b>	<b>2611</b>	1093	<b>6095</b>	.
Alta Seeds	AS9302	2093	<b>2236</b>	<b>1662</b>	<b>5991</b>	<b>9324</b>
Alta Seeds	AS9301	1818	<b>2360</b>	<b>1791</b>	<b>5969</b>	.
Gayland Ward	Nutra-King BMR	1977	1931	<b>1674</b>	<b>5582</b>	<b>9046</b>
Moss	4Ever Green	1985	<b>2682</b>	909	<b>5576</b>	.
Gayland Ward	Sweet Six BMR Dry Stalk	1810	2119	<b>1290</b>	5219	<b>9443</b>
Sorghum Partners	Hikane II	<b>2240</b>	1977	995	5211	.
Sorghum Partners	CHR12FS0012	<b>2442</b>	2015	647	5103	.
Mehrrin Ag	SH90044	1789	2165	973	4926	.
Alta Seeds	AS6402	1958	1889	1063	4910	<b>7385</b>
Alta Seeds	AS6401	2013	1995	749	4758	<b>7999</b>
Sorghum Partners	SP4105	1538	1933	998	4470	.
Gayland Ward	Super Sugar(DM)	1655	1835	910	4399	<b>8561</b>
Desert Sun	DSM 33-948	2096	1845	406	4348	.
Mehrrin Ag	SOUTHERN HONEY	1972	1407	583	3962	.
Desert Sun	BIG KAHUNA	1741	1718	339	3798	.
Sorghum Partners	SP6205	1493	1312	976	3781	.
Mehrrin Ag	SOUTHERN SWEET	1624	1465	332	3420	.
Gayland Ward	Super Sugar	1125	1095	1122	3341	<b>8286</b>
Gayland Ward	Sweet Forever BMR	1083	1025	299	2406	<b>8399</b>
Average		1909	1942	982	4834 <sup>1</sup>	8555
LSD at 10% Level		534	570	511	1108	N.S. <sup>2</sup>
Std. Err. of Entry Mean		226	241	216	469	374
<u>Pearl Millet</u>						
Sorghum Partners	Millex 32	<b>2181</b>	<b>2233</b>	367	<b>4781</b>	.
SS	SS 635 DF	1399	<b>2281</b>	<b>677</b>	<b>4358</b>	<b>7801</b>
UGA	Tifleaf 3	1628	<b>2179</b>	463	<b>4270</b>	<b>8154</b>
Sorghum Partners	MILLEX BMR	1723	<b>2197</b>	255	<b>4176</b>	.
SS	SS 1562M BMR	1716	<b>2024</b>	241	<b>3982</b>	<b>7433</b>
Advanta	Wonderleaf	1026	<b>2286</b>	466	<b>3778</b>	.
Average		1612	2200	412	4224 <sup>3</sup>	7796
LSD at 10% Level		411	N.S.	127	N.S.	N.S.
Std. Err. of Entry Mean		166	158	51	281	348

**Griffin, Georgia:  
Evaluation of Summer Annual Forage, 2016  
and Two-Year Average Yields, 2015-2016  
(Continued)**

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1. CV = 19.4% and df for EMS = 63.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. CV = 13.3% and df for EMS = 15.

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

Planted: May 15, 2016.

Seeding Rate: Sorghum x Sudangrass: 125,000 seed/acre in 30" rows.

Millet: 500,000 seed/acre in 30" rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.8.

Fertilization: Preplant: 50 lb N, 100 lb P<sub>2</sub>O<sub>5</sub>, and 150 lb K<sub>2</sub>O/acre.

Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st and 2nd harvests.

Previous Crop: Fallow.

Management: Sorghum x Sudan: Chisel plowed, disked, and rototilled; Dual Magnum and one cultivation used for weed control; Gramoxone between harvests for weed control; Prevathon and Lorsban used for insect control.

Millet: Chisel plowed, disked, and rototilled; one cultivation and Atrazine after first harvest used for weed control; Lorsban and Prevathon used for insect control.

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