

SORGHUM FOR SILAGE

Statewide Yield Summary: Sorghum Silage Performance, Georgia, 2020

Company or Brand Name	Hybrid or Variety Name	Tifton		Athens		Statewide	
		2020	2-Yr Avg	2020	2-Yr Avg	2020	2-Yr Avg
----- dry tons/acre -----							
Dyna-Gro	TopTon	2.91	4.00	6.17	.	4.87	.
Dyna-Gro	Super Sile 30	3.39	4.03	5.62	.	4.67	.
Sorghum Partners	SP3904 BD	2.76	3.84	5.91	5.33	4.61	4.58
Desert Sun	DSM 448-980	3.30	.	5.47	.	4.58	.
Dyna-Gro	Super Sile 20	2.83	3.88	5.58	5.42	4.43	4.65
Sorghum Partners	SS405	2.73	.	5.52	.	4.37	.
Sorghum Partners	NK300	3.69	4.19	4.65	4.28	4.32	4.24
Alta Seeds	ADV F8322	3.15	4.15	4.86	5.24	4.14	4.69
MOJO SEED	OPAL	2.88	4.22	4.77	4.72	4.05	4.47
Alta Seeds	ADV F7232	2.78	3.47	4.59	4.59	3.84	4.03
Dyna-Gro	F74FS72 BMR	2.31	3.36	4.58	.	3.62	.
Dyna-Gro	F74FS23 BMR	2.84	.	4.03	.	3.56	.
Coffey Forage Seeds	MaxiGain	1.59	.	4.69	.	3.38	.
Dyna-Gro	F75FS13	1.94	3.07	4.12	.	3.21	.
Coffey Forage Seeds	Endurance	2.67	.	3.11	.	2.85	.
Average		2.78	3.82	4.91	4.93	4.03	4.44
LSD at 10% Level		0.76	0.62	0.82	0.46	0.65	0.41
Model R-squared		0.62	0.49	0.76	0.44	0.68	0.51

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Tifton, Georgia: Sorghum Silage Performance, 2020, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvested Yield			Growth Stage	Plant Height in	Lodging %
		Dry ----- tons/acre	Green ¹ ----- %	Moisture			
Sorghum Partners	NK300	3.69	10.5	81	vegetative	66	0
Dyna-Gro	Super Sile 30	3.39	9.7	81	boot	77	0
Desert Sun	DSM 448-980	3.30	9.4	77	vegetative	53	0
Alta Seeds	ADV F8322	3.15	9.0	80	vegetative	65	0
Dyna-Gro	TopTon	2.91	8.3	80	vegetative	73	3
MOJO SEED	OPAL	2.88	8.2	81	flower	70	0
Dyna-Gro	F74FS23 BMR	2.84	8.1	83	boot	77	3
Dyna-Gro	Super Sile 20	2.83	8.1	81	boot	82	2
Alta Seeds	ADV F7232	2.78	7.9	80	vegetative	47	0
Sorghum Partners	SP3904 BD	2.76	7.9	81	vegetative	49	0
Sorghum Partners	SS405	2.73	7.8	80	boot	94	15
Coffey Forage Seeds	Endurance	2.67	7.6	79	soft dough	80	0
Dyna-Gro	F74FS72 BMR	2.31	6.6	84	vegetative	51	0
Dyna-Gro	F75FS13	1.94	5.5	82	soft dough	83	73
Coffey Forage Seeds	MaxiGain	1.59	4.5	82	vegetative	52	0
Average		2.78	8.0	81	-	68	6
LSD at 10% Level		0.76	2.2	1	-	11	-
Model R-squared		0.62	0.62	0.95	-	0.83	0.98

1. Green yields are standardized to 65% moisture.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 5, 2020.

Harvested: July 24, 2020.

Seeding Rate: 80,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 40 lb N, 40 lb P₂O₅, and 90 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Peanuts.

Management: Conventional tillage. Atrazine and Dual Magnum used for weed control.

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

Quality Factors of Sorghum Hybrids for Silage Tifton, Georgia, 2020

Company or Brand Name	Hybrid Name	Dry	UW Milk 2013 Model Calculated Values						Quality Components					
		Yield	Milk production	TDN	NE _L	NE _G	NE _M	ADF	aND	aNDFom	Ligni	NDFD3	NDFD24	
		tons/ac	lb/ton	lb/acre	% DM	----- Mcal/cwt -----		----- % DM -----		----- % NDFom -----				
Desert Sun	DSM 448-980	3.30	3,062	10,105	63.3	65.9	37.1	63.5	31.7	56.1	54.5	2.4	62.0	75.5
Coffey	Endurance	2.67	2,529	6,751	56.5	57.9	28.8	54.4	32.7	58.6	57.4	2.7	59.6	70.5
Sorghum	NK300	3.69	1,659	6,122	43.7	45.6	10.2	34.4	41.2	69.6	66.4	4.0	51.1	65.7
Alta Seeds	ADV F8322	3.15	1,798	5,662	45.2	48.0	12.5	37.0	38.3	66.4	62.4	3.6	49.7	65.1
Alta Seeds	ADV F7232	2.78	1,966	5,466	49.9	49.3	19.6	44.4	37.3	63.0	59.9	2.5	59.1	69.4
Sorghum	SP3904 BD	2.76	1,971	5,439	50.4	49.1	20.2	45.1	36.4	63.2	60.5	2.1	60.8	70.2
Dyna-Gro	Super Sile 20	2.83	1,847	5,226	45.7	48.7	12.8	37.2	39.7	67.2	64.0	3.9	50.0	64.1
Sorghum	SS405	2.73	1,887	5,150	47.1	48.9	14.8	39.3	40.1	66.8	62.9	3.9	52.8	66.6
Dyna-Gro	Super Sile 30	3.39	1,490	5,050	41.1	43.3	5.7	29.8	43.1	71.8	68.4	4.7	49.3	65.1
Dyna-Gro	TopTon	2.91	1,706	4,965	44.6	46.4	11.6	35.9	39.5	65.6	60.8	3.4	51.0	65.6
MOJO SEED	OPAL	2.88	1,605	4,623	42.8	45.0	9.1	33.3	41.9	69.2	64.7	4.6	49.7	64.5
Dyna-Gro	F74FS23 BMR	2.84	1,502	4,265	45.3	41.7	12.9	37.3	38.1	67.0	62.2	1.7	61.9	70.3
Dyna-Gro	F74FS72 BMR	2.31	1,816	4,195	48.7	46.7	18.0	42.8	37.5	63.3	58.6	1.9	61.0	70.7
Dyna-Gro	F75FS13	1.94	1,550	3,007	43.0	43.7	9.5	33.8	40.5	68.8	63.8	3.8	52.4	66.3
Coffey	MaxiGain	1.59	1,864	2,964	49.1	47.5	18.8	43.6	39.3	62.8	57.1	2.5	60.3	71.2
Average		2.78	1,883	5,266	47.7	48.5	16.1	40.8	38.5	65.3	61.6	3.2	55.4	68.1
LSD at 10% Level		0.76	440	1,441	5.3	6.7	7.5	8.0	2.1	3.3	2.7	0.5	2.4	2.4
Model R-squared		0.62	0.91	0.85	0.88	0.84	0.88	0.88	0.93	0.91	0.92	0.96	0.97	0.92

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Sample analysis conducted by Dairyland Laboratories, Arcadia, WI.

Nutrient and Elemental Analysis of Corn Hybrids for Silage Tifton, Georgia, 2020

Company or Brand Name	Hybrid Name	Calc. Milk	Crude Protein	Starch	Sugar (WSC)	Fat (EE)	Fat (TFA)	Ash	P	K	Ca	Mg	S
		lbs/ac	% DM										
Desert Sun	DSM 448-980	10,105	8.7	0.1	15.3	3.0	0.8	7.0	0.20	1.98	0.26	0.26	0.10
Coffey Forage	Endurance	6,751	10.1	4.8	8.9	2.9	0.9	11.6	0.25	2.07	0.24	0.23	0.12
Sorghum	NK300	6,122	9.1	0.1	9.5	2.7	0.5	15.3	0.19	1.97	0.27	0.26	0.10
Alta Seeds	ADV F8322	5,662	9.5	0.1	11.4	2.5	0.5	15.0	0.20	2.34	0.29	0.27	0.10
Alta Seeds	ADV F7232	5,466	10.1	0.1	10.4	3.3	0.6	16.8	0.23	2.27	0.38	0.24	0.12
Sorghum	SP3904 BD	5,439	9.9	0.1	10.7	3.2	0.6	17.0	0.27	2.84	0.33	0.23	0.14
Dyna-Gro	Super Sile 20	5,226	8.3	0.1	11.7	3.1	0.6	13.8	0.19	1.75	0.26	0.22	0.10
Sorghum	SS405	5,150	8.2	0.1	12.1	2.8	0.5	14.7	0.21	2.08	0.24	0.22	0.10
Dyna-Gro	Super Sile 30	5,050	8.3	0.1	10.3	2.4	0.4	15.8	0.16	1.93	0.24	0.20	0.10
Dyna-Gro	TopTon	4,965	9.2	0.1	12.7	2.8	0.5	17.1	0.19	2.19	0.25	0.24	0.10
MOJO SEED	OPAL	4,623	9.7	0.1	9.3	2.5	0.5	16.2	0.21	1.92	0.26	0.23	0.10
Dyna-Gro	F74FS23 BMR	4,265	9.7	0.1	11.5	3.1	0.5	22.1	0.24	2.89	0.27	0.21	0.10
Dyna-Gro	F74FS72 BMR	4,195	10.4	0.1	10.8	3.1	0.5	19.6	0.28	2.84	0.32	0.23	0.13
Dyna-Gro	F75FS13	3,007	9.8	0.1	11.3	2.4	0.4	18.0	0.16	1.69	0.27	0.25	0.10
Coffey Forage	MaxiGain	2,964	10.8	0.1	10.5	2.3	0.4	19.5	0.26	2.95	0.39	0.29	0.12
Average		5,266	9.4	0.4	11.1	2.8	0.5	16.0	0.21	2.24	0.28	0.24	0.11
LSD at 10% Level		1,441	1.0	1.3	1.5	NS	0.1	4.6	0.04	0.33	0.07	NS	0.02
Model R-squared		0.85	0.80	0.85	0.88	0.61	0.85	0.79	0.84	0.92	0.77	0.67	0.75

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Silage analysis conducted by Dairyland Laboratories, Arcadia, WI.

"Calculated Milk" reprinted from Quality Factors table, based on UW Milk 2013 model.

Athens, Georgia: Sorghum Silage Performance, 2020, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvested Yield (09-01)			Soft Dough Stage			
		Dry ----- tons/acre -----	Green ¹ -----	Moisture ² %	Date	Moisture ³ %	Height in	Lodging %
Dyna-Gro	TopTon	6.17	17.6	77	08-26	75	104	5
Sorghum Partners	SP3904 BD	5.91	16.9	72	08-26	71	67	0
Dyna-Gro	Super Sile 30	5.62	16.0	68	08-20	69	102	22
Dyna-Gro	Super Sile 20	5.58	15.9	72	08-18	70	110	12
Sorghum Partners	SS405	5.52	15.8	77	08-26	71	118	0
Desert Sun	DSM 448-980	5.47	15.6	76	08-30	74	60	0
Alta Seeds	ADV F8322	4.86	13.9	73	08-26	71	72	0
MOJO SEED	OPAL	4.77	13.7	70	08-18	72	79	0
Coffey Forage Seeds	MaxiGain	4.69	13.4	83	PPS ⁴	.	102	0
Sorghum Partners	NK300	4.65	13.3	59	08-11	75	78	8
Alta Seeds	ADV F7232	4.59	13.1	75	08-26	71	65	0
Dyna-Gro	F74FS72 BMR	4.58	13.1	72	08-26	74	65	0
Dyna-Gro	F75FS13	4.12	11.8	68	08-11	68	108	92
Dyna-Gro	F74FS23 BMR	4.03	11.5	74	08-18	73	90	98
Coffey Forage Seeds	Endurance	3.11	8.9	68	08-18	64	77	0
Average		4.91	14.0	72	08-21	71	86	16
LSD at 10% Level		0.82	2.3	3	-	3	6	-
Model R-squared		0.76	0.76	0.91	-	0.82	0.97	0.95

1. Green yields are standardized to 65% moisture.

2. Moisture on single yield harvest date. Can be regarded as an indication of relative maturity.

3. Moisture on the date variety reached soft dough stage. 65-70% is considered optimum for ensiling.

4. Photoperiod sensitive (PPS) variety. Longer nights required for flowering, keeps growth vegetative in summer.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 15, 2020.

Harvested: September 1, 2020.

Seeding Rate: 80,000 seeds per acre in 30-inch rows.

Soil Type: Wickham sandy loam.

Soil Test: P = Low, K = Low, and pH = 6.2.

Fertilization: Preplant: 60 lb N, 312 lb P₂O₅, and 360 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Soybeans.

Management: Conventional tillage. Atrazine and Dual Magnum used for weed control.

Test conducted by G. Ware, B. Weldy, C. Fox, J. Griffin, and K. Roach.

Quality Factors of Sorghum Hybrids for Silage Athens, Georgia, 2020

Company or Brand Name	Hybrid Name	Dry Yield	UW Milk 2013 Model Calculated Values						Quality Components					
			Milk production	TDN	NE _L	NE _G	NE _M	ADF	aND	aNDFom	Ligni	NDFD3	NDFD24	
		tons/ac	lb/ton	lb/acre	% DM	Mcal/cwt		% DM		% NDFom				
Dyna-Gro	TopTon	6.17	2,503	15,441	52.9	59.4	22.8	47.9	40.5	60.1	57.6	4.5	46.4	63.4
Dyna-Gro	Super Sile 20	5.58	2,725	15,203	55.3	63.2	26.4	51.8	37.0	57.0	55.3	5.1	44.5	62.8
Desert Sun	DSM 448-980	5.47	2,735	14,961	58.2	61.5	31.0	56.8	38.2	60.1	57.9	4.1	56.8	70.8
MOJO SEED	OPAL	4.77	2,864	13,662	58.3	64.5	31.1	56.9	34.8	54.3	52.0	4.0	49.8	64.0
Dyna-Gro	Super Sile 30	5.62	2,339	13,143	50.3	57.3	19.4	44.2	39.8	61.6	58.9	5.1	44.1	61.3
Sorghum	SS405	5.52	2,380	13,135	50.0	58.1	19.0	43.8	43.9	65.2	63.4	6.0	43.2	61.5
Dyna-Gro	F75FS13	4.12	2,891	11,909	58.0	65.4	30.0	55.7	33.4	53.5	51.3	4.2	46.5	62.8
Sorghum	NK300	4.65	2,472	11,495	53.4	58.6	24.2	49.4	37.9	58.4	56.0	4.4	49.1	65.0
Dyna-Gro	F74FS23 BMR	4.03	2,714	10,935	57.1	61.8	28.9	54.6	35.6	54.1	51.3	3.5	52.1	64.8
Alta Seeds	ADV F8322	4.86	2,143	10,413	48.1	54.2	16.6	41.3	39.1	62.0	58.3	4.9	44.2	60.4
Coffey	Endurance	3.11	2,733	8,500	58.0	61.7	30.6	56.4	34.8	54.6	52.8	3.0	55.2	68.4
Alta Seeds	ADV F7232	4.59	.	.	.	.	.	.	.	.	.	.	.	.
Coffey	MaxiGain	4.69	.	.	.	.	.	.	.	.	.	.	.	.
Dyna-Gro	F74FS72 BMR	4.58	.	.	.	.	.	.	.	.	.	.	.	.
Sorghum	SP3904 BD	5.91	.	.	.	.	.	.	.	.	.	.	.	.
Average		4.90	2,591	12,618	54.5	60.5	25.5	50.8	37.7	58.3	55.9	4.4	48.3	64.1
LSD at 10% Level		0.82	337	2,112	4.3	5.3	6.2	6.7	NS	NS	5.7	0.9	4.3	3.1
Model R-squared		0.76	0.77	0.93	0.83	0.73	0.83	0.83	0.68	0.68	0.76	0.84	0.89	0.88

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Samples for quality analysis collected when hybrid reaches soft dough stage.

Sample analysis conducted by Dairyland Laboratories, Arcadia, WI.

Dry Yields collected when all non-PPS hybrids reached soft dough or later.

Note: Results are omitted for 4 varieties due to inconsistent data. This omission does not reflect poor performance on the part of those varieties.

Nutrient and Elemental Analysis of Corn Hybrids for Silage Tifton, Georgia, 2020

Company or Brand Name	Hybrid Name	Calc. Milk	Crude Protein	Starch	Sugar (WSC)	Fat (EE)	Fat (TFA)	Ash	P	K	Ca	Mg	S
		lbs/ac	----- % DM -----										
Dyna-Gro	TopTon	15,441	7.7	3.1	6.4	2.2	0.7	8.2	0.18	1.59	0.26	0.25	0.11
Dyna-Gro	Super Sile 20	15,203	8.4	13.3	3.0	1.9	1.0	6.2	0.16	1.14	0.31	0.31	0.10
Desert Sun	DSM 448-980	14,961	10.2	1.3	5.9	2.4	0.7	8.3	0.21	2.06	0.37	0.32	0.13
MOJO SEED	OPAL	13,662	9.7	12.3	2.1	2.5	1.1	7.7	0.22	1.56	0.24	0.25	0.14
Dyna-Gro	Super Sile 30	13,143	8.1	11.6	2.2	1.5	0.8	9.0	0.19	1.72	0.24	0.25	0.10
Sorghum	SS405	13,135	8.1	1.9	4.9	1.6	0.6	5.9	0.14	1.20	0.34	0.31	0.11
Dyna-Gro	F75FS13	11,909	8.2	15.9	3.7	2.0	1.1	6.8	0.16	1.38	0.29	0.29	0.10
Sorghum	NK300	11,495	9.5	10.8	2.5	1.6	0.8	10.2	0.22	2.10	0.26	0.31	0.11
Dyna-Gro	F74FS23 BMR	10,935	8.6	10.3	4.8	2.3	0.9	10.2	0.22	1.68	0.26	0.23	0.11
Alta Seeds	ADV F8322	10,413	9.0	10.8	4.3	1.9	0.8	11.4	0.21	1.62	0.27	0.27	0.10
Coffey Forage	Endurance	8,500	9.8	12.1	3.0	2.3	1.0	10.2	0.25	2.04	0.26	0.24	0.14
Alta Seeds	ADV F7232	.	.	.	.	.	.	.	.	.	.	.	.
Coffey Forage	MaxiGain	.	.	.	.	.	.	.	.	.	.	.	.
Dyna-Gro	F74FS72 BMR	.	.	.	.	.	.	.	.	.	.	.	.
Sorghum	SP3904 BD	.	.	.	.	.	.	.	.	.	.	.	.
Average		12,618	8.8	9.4	3.9	2.0	0.9	8.5	0.19	1.64	0.28	0.27	0.11
LSD at 10% Level		2,112	0.7	8.0	1.6	0.3	0.3	2.1	0.03	0.71	0.05	0.03	0.01
Model R-squared		0.93	0.90	0.72	0.85	0.88	0.65	0.83	0.87	0.58	0.84	0.90	0.87

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Silage analysis conducted by Dairyland Laboratories, Arcadia, WI.

"Calculated Milk" reprinted from Quality Factors table, based on UW Milk 2013 model.

Note: Results are omitted for 4 varieties due to inconsistent data. This omission does not reflect poor performance on the part of those varieties.

SUMMER ANNUAL FORAGES

Statewide Yield Summary: Summer Annual Forages, Georgia, 2020

Company or Brand Name	Hybrid or Variety Name	Tifton		Athens		Statewide		
		2020	2-Yr Avg	2020	2-Yr Avg	2020	2-Yr Avg	3-Yr Avg
----- dry pounds/acre -----								
Sorghum, Sudangrass and Hybrids								
Dyna-Gro	F72FS05	15,009	.	12,919	.	13,964	.	.
Desert Sun	Latte	13,680	13,792	13,216	12,017	13,448	12,836	13,570
Southern Harvest	Southern Star	13,981	.	12,865	.	13,423	.	.
Coffey Forage	Defiance	13,786	.	12,997	.	13,391	.	.
Dyna-Gro	Fullgraze II	14,561	15,784	12,031	.	13,296	.	.
Sorghum Partners	Sordan 79	13,286	14,117	12,796	12,621	13,041	13,369	.
Dyna-Gro	Danny Boy II BMR	13,965	14,786	11,875	.	12,920	.	.
Alta Seeds	ADV XS471	14,503	.	11,048	.	12,775	.	.
Alta Seeds	AS6401	14,085	14,294	10,702	10,274	12,394	12,129	.
Dyna-Gro	F75FS13	12,838	12,979	11,436	.	12,137	.	.
Dyna-Gro	Super Sweet 10	13,464	13,318	10,598	.	12,031	.	.
Alta Seeds	ADV S6504	12,850	.	10,612	.	11,731	.	.
Dyna-Gro	Fullgraze II BMR	13,234	12,823	10,197	.	11,716	.	.
Alta Seeds	AS6402	13,234	13,293	9,489	9,287	11,361	11,290	.
Desert Sun	Latte BMR	12,546	14,149	10,098	11,360	11,322	12,754	.
Coffey Forage	Xtragraze BMR	12,645	13,402	9,810	10,535	11,228	11,969	11,824
Sorghum Partners	SP4555	12,683	13,037	8,313	9,112	10,498	10,924	.
Coffey Forage	Surpass BMR	10,454	11,600	9,562	9,505	10,008	10,552	10,589
Southern Harvest	Southern Sweet	10,297	.	9,670	.	9,983	.	.
Desert Sun	DSM 51-750	11,100	.	8,668	.	9,884	.	.
Desert Sun	Elite BMR	10,980	12,877	8,458	6,511	9,719	9,694	.
Alta Seeds	ADV XS007	10,932	12,218	7,547	8,163	9,239	10,191	.
Coffey Forage	Endurance	11,413	.	6,371	.	8,892	.	.
Sorghum Partners	SP4105	8,548	9,545	7,703	7,638	8,126	8,592	.
Coffey Forage	MaxiGain	8,868	.	7,314	.	8,091	.	.
Sorghum Partners	SP7106 BMR	8,430	10,462	6,561	7,514	7,496	8,874	.
Average		12,367	13,152	10,109	9,630	11,238	11,185	11,970
LSD at 10% Level		2,242	1,473	2,090	1,778	1,666	1,192	931
Model R-squared		0.67	0.55	0.75	0.49	0.64	0.62	0.62
Pearl Millet								
		<u>Tifton</u>		<u>Griffin</u>				
Coffey Forage Seeds	Tifleaf 3	15,463	14,293	3,643	5965	9,553	10,202	.
Coffey Forage Seeds	Leafy TR-7	15,282	14,752	3,540	5803	9,411	10,311	.
Dyna-Gro	PearlMil	15,090	14,380	3,497	5395	9,294	9,932	11,071
Coffey Forage Seeds	Leafy 22	15,087	.	2,491	.	8,789	.	.
Coffey Forage Seeds	Epic BMR	14,387	13,727	2,507	5436	8,447	9,623	10,578
Coffey Forage Seeds	ExCeed II BMR	13,465	12,223	2,815	5044	8,140	8,711	9,547
Sorghum Partners	Millex 32	13,143	13,659	3,235	5425	8,189	9,509	10,931
Desert Sun	Navajo BMR	12,642	12,437	2,986	5342	7,814	8,903	.
Average		14,320	13,639	3,089	5,487	8,705	9,599	10,532
LSD at 10% Level		1,459	999	NS	457	722	521	488
Model R-squared		0.68	0.51	0.47	0.95	0.98	0.97	0.97

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.
 "NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Tifton, Georgia: Summer Annual Forage Performance, 2020, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvest Date		Season Total
		7/2/2020	8/24/2020	
----- dry pounds/acre -----				
<u>Sorghum and Sorghum x Sudangrass Hybrids</u>				
Dyna-Gro	F72FS05	5,784	9,224	15,009
Dyna-Gro	Fullgraze II	6,940	7,620	14,561
Alta Seeds	ADV XS471	6,405	8,098	14,503
Alta Seeds	AS6401	6,670	7,415	14,085
Southern Harvest	Southern Star	6,773	7,208	13,981
Dyna-Gro	Danny Boy II BMR	6,827	7,138	13,965
Coffey Forage	Defiance	5,252	8,534	13,786
Desert Sun	Latte	6,214	7,466	13,680
Dyna-Gro	Super Sweet 10	6,546	6,918	13,464
Sorghum Partners	Sordan 79	7,044	6,243	13,286
Dyna-Gro	Fullgraze II BMR	6,553	6,681	13,234
Alta Seeds	AS6402	5,629	7,604	13,234
Alta Seeds	ADV S6504	6,918	5,932	12,850
Dyna-Gro	F75FS13	6,798	6,040	12,838
Sorghum Partners	SP4555	6,620	6,064	12,683
Coffey Forage	Xtragraze BMR	5,873	6,771	12,645
Desert Sun	Latte BMR	6,176	6,369	12,546
Coffey Forage	Endurance	4,384	7,029	11,413
Desert Sun	DSM 51-750	5,710	5,390	11,100
Desert Sun	Elite BMR	5,387	5,593	10,980
Alta Seeds	ADV XS007	6,230	4,702	10,932
Coffey Forage	Surpass BMR	5,107	5,346	10,454
Southern Harvest	Southern Sweet	5,501	4,796	10,297
Coffey Forage	MaxiGain	5,054	3,814	8,868
Sorghum Partners	SP4105	4,767	3,782	8,548
Sorghum Partners	SP7106 BMR	4,453	3,976	8,430
Average		5,992	6,375	12,367
LSD at 10% Level		1,384	1,182	2,242
Model R-squared		0.49	0.81	0.67
<u>Pearl Millet</u>				
Coffey Forage	Tifleaf 3	8,903	6,560	15,463
Coffey Forage	Leafy TR-7	8,095	7,188	15,282
Dyna-Gro	PearlMil	9,963	5,128	15,090
Coffey Forage	Leafy 22	9,446	5,641	15,087
Coffey Forage	Epic BMR	9,078	5,309	14,387
Coffey Forage	ExCeed II BMR	8,057	5,408	13,465
Sorghum Partners	Millex 32	6,909	6,234	13,143
Desert Sun	Navajo BMR	8,561	4,081	12,642
Average		8,626	5,694	14,320
LSD at 10% Level		958	1,295	1,459
Model R-squared		0.77	0.64	0.68

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 5, 2020.

Seeding Rate: Sorghum x Sudangrass: 100,000 seed/acre in 36-inch rows.
Millet: 500,000 seed/acre in 36" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 40 lb N, 40 lb P₂O₅, and 90 lb K₂O/acre.

Sidedress: 100 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Peanuts.

Management: Conventional tillage. Atrazine and Dual Magnum used for weed control (except on pearl millet). Telone II used for nematode control.

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

Athens, Georgia: Summer Annual Forage Performance, 2020, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvest Date			Season Total
		7-14-20	9-03-20	10-22-20	
----- dry pounds/acre -----					
Sorghum and Sorghum x Sudangrass Hybrids					
Desert Sun	Latte	7,637	5,069	510	13,216
Coffey Forage	Defiance	6,223	5,293	1,480	12,997
Dyna-Gro	F72FS05	7,129	5,086	703	12,919
Southern Harvest	Southern Star	7,780	4,591	495	12,865
Sorghum Partners	Sordan 79	8,062	4,334	400	12,796
Dyna-Gro	Fullgraze II	7,846	3,679	506	12,031
Dyna-Gro	Danny Boy II BMR	8,223	3,313	339	11,875
Dyna-Gro	F75FS13	7,040	3,949	446	11,436
Alta Seeds	ADV XS471	6,789	3,615	644	11,048
Alta Seeds	AS6401	7,283	2,981	439	10,702
Alta Seeds	ADV S6504	6,930	3,418	265	10,612
Dyna-Gro	Super Sweet 10	6,350	3,628	620	10,598
Dyna-Gro	Fullgraze II BMR	7,892	1,969	335	10,197
Desert Sun	Latte BMR	6,593	3,133	373	10,098
Coffey Forage	Xtragraze BMR	6,489	3,058	263	9,810
Southern Harvest	Southern Sweet	6,135	3,052	482	9,670
Coffey Forage	Surpass BMR	6,217	3,148	197	9,562
Alta Seeds	AS6402	5,387	3,470	632	9,489
Desert Sun	DSM 51-750	6,810	1,618	240	8,668
Desert Sun	Elite BMR	7,049	1,259	151	8,458
Sorghum Partners	SP4555	6,009	1,752	552	8,313
Sorghum Partners	SP4105	5,607	1,794	301	7,703
Alta Seeds	ADV XS007	6,072	978	497	7,547
Coffey Forage	MaxiGain	5,479	1,351	483	7,314
Sorghum Partners	SP7106 BMR	4,900	1,454	208	6,561
Coffey Forage	Endurance	3,998	1,937	437	6,371
Average		6,612	3,039	458	10,109
LSD at 10% Level		1,282	1,321	157	2,090
Model R-squared		0.64	0.75	0.87	0.75

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 15, 2020.

Seeding Rate: 100,000 seeds per acre in 30-inch rows.

Soil Type: Wickham sandy loam.

Soil Test: P = Low, K = Low, and pH = 6.2.

Fertilization: Preplant: 60 lb N, 312 lb P₂O₅, and 360 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Soybeans.

Management: Conventional tillage. Atrazine and Dual Magnum used for weed control.

Test conducted by G. Ware, B. Weldy, C. Fox, J. Griffin, and K. Roach.

Griffin, Georgia:
Summer Annual Forage Performance, 2020, Dryland

Company or Brand Name	Hybrid or Variety Name	Harvest Date			Season
		8-10	9-03	10-16	Total
----- dry pounds/acre -----					
Pearl Millet					
Coffey Forage	Tifleaf 3	502	1,787	1,355	3,643
Coffey Forage	Leafy TR-7	618	1,674	1,247	3,540
Dyna-Gro	PearlMil	608	1,633	1,255	3,497
Sorghum Partners	Millex 32	508	1,236	1,493	3,235
Desert Sun	Navajo BMR	488	1,461	1,038	2,986
Coffey Forage	ExCeed II BMR	611	1,399	805	2,815
Coffey Forage	Epic BMR	324	1,308	875	2,507
Coffey Forage	Leafy 22	483	1,536	471	2,491
Average		518	1,504	1,067	3,089
LSD at 10% Level		155	NS	463	NS
Model R-squared		0.56	0.25	0.64	0.47

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.
 "NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Planted: July 13, 2020.
 Seeding Rate: 500,000 seeds per acre in 7-inch rows.
 Soil Type: Cecil sandy loam.
 Soil Test: P = High, K = High, and pH = 6.1.
 Fertilization: Preplant: 40 lb N, 40 lb P₂O₅, and 40 lb K₂O/acre.
 Topdress: 50 lb N/acre after each harvest.
 Previous Crop: Fallow.
 Management: Conventional tillage.

Test conducted by G. Ware, B. Weldy, H. Jackson and S. Brannon.