



2025 Texas A&M AgriLife Bushland Forage Sorghum Silage Trial

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The 2025 Texas A&M AgriLife Research Forage Sorghum Silage Trials evaluated 60 sorghum hybrids—46 forage sorghums, and 14 sorghum sudangrasses— submitted by seed companies on a entry fee basis. Two grain sorghum (DKS 36-07 and Pioneer 84G62) and three corn hybrid (P1366Q, P1548, and DKC 70-64) checks were included in the trial grown under center pivot irrigation at the Texas A&M AgriLife Research Farm at Bushland, Texas. The corn checks (n=3) provide a direct comparison between the forage production potential of corn and sorghum in the same production environment. The trial was irrigated at approximately 50% of the corn evapotranspiration requirement, and the production season featured moderate temperatures and steady rainfall from June to mid-August (Figure 1). Limited late-season water caused stress and increased lodging in later-maturing hybrids; sorghum ergot affected hybrids blooming after August 15 or with late tillers. Supra Ag HS1026 was the highest-yielding hybrid at 11.8 tons dry matter (DM)/acre (Table 2).

Agronomic Information

Previous Crop: Sorghum

Planting Date: June 12, 2025 at 80,000 seeds/acre forage sorghum and 32,000 seeds/acre corn

Fertilizer: April 15, 2025 Pre-plant strip-till applied at 150 lbs. N/ac and 50 lbs P₂O₅

Soil Residual Nutrients: The average pre-plant residual soil nitrate-N was 178 lbs. N/ac from 0-36 inches across all reps. Additional N fertilizer was added to ensure the highest yielding hybrids were not N limited.

Cultivation: April 15, 2025 sweep plow tillage.

Herbicides: April 10, 2025 Pre-plant Roundup 48 oz/ac plus 2,4D LV6 16 oz/ac

May 1, 2025 Pre-plant - Warrant 48 oz, Callisto 6 oz, 2,4D 8 oz, Roundup 32 oz, NIS 1% V/V May 31, 2025 Pre-plant - Roundup 48 oz/ac plus Sharpen 2 plus adjuvants AMS 2.5 lbs, MSO 1% V/V, Capsule 1% V/V

June 30, 2025 Postemergent - Atrazine 1 qt/ac plus Warrant 48 oz/ac plus Quinstar 10 oz/ac

July 11, 2025 Postemergent - Huskie 19 oz/ac plus 12.5 lbs AMS.

Insecticides: Aug. 15, 2025 - Sivanto 14 oz/ac chemigated after sorghum aphids identified.

Irrigation: 7.43 inches Jun 1 – Sept 15.

Rainfall: 8.9 inches Jun 1 -Oct 15.

Hybrids were grouped by marketed maturity for harvest at the soft dough stage, with each hybrid replicated three times. Uniform sub-samples from each plot were collected to assess dry matter and nutritive value. Forage was dried at 221°F (105°C) to determine moisture, and yields were adjusted to 65% moisture and dry matter. A 600-gram sample was

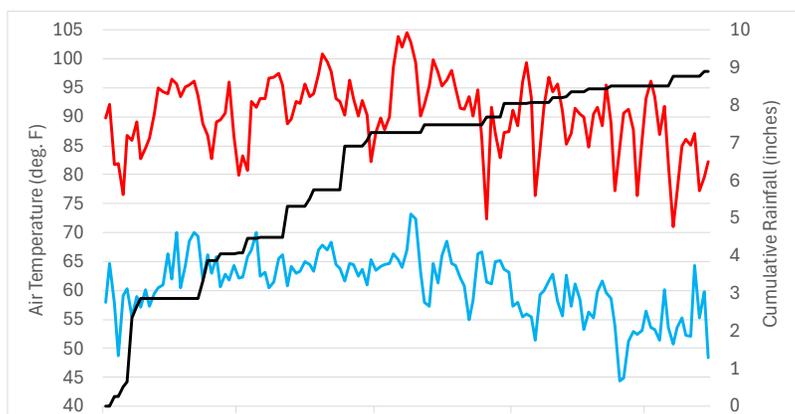


Figure 1. Daily maximum and minimum temperatures with cumulative rainfall from planting to harvest.

analyzed via NIR at Cumberland Valley Analytical Services, with forage constituents reported on a dry matter basis (Table 3).

Hybrid maturity is crucial when choosing hybrids, as marketed maturity classes may vary by environment. Producers should confirm hybrid maturity for their specific conditions. Maturity and development depend on day length, abiotic (moisture, heat) stress, and biotic (insect, disease) stress. "Days to half-bloom" (HB) marks when 50% of plants are blooming across the plot, and flowering is halfway down the head on a single plant. Longer-maturing hybrids generally yield more forage but require more water and nutrients because of the longer growing period, and nutritional quality can decline due to increased stress. Data from the 2025 Texas A&M AgriLife Forage Sorghum trial shows late maturing hybrids require about 30 more days to reach HB compared to early types (Table 1).

Growing degree day (GDD) accumulation can often be a concern for late planted sorghum or sorghum grown in northern production environments. Cumulative GDDs are a function of planting date and daily (maximum and minimum) temperatures. Calculated GDDs were determined using a 50 °F base (Vanderlip and Reeves, 1972) and an upper limit of 100 °F as recommended by Gerik et al. (2003). Roozeboom and Prasad (2019) reported the range of cumulative GDDs required for typical grain sorghum hybrids at Manhattan, Kansas to reach physiological maturity were 2588-3038 using these upper and lower limits: however, there is negligible research reporting the GDD requirement for forage sorghum hybrid development. If harvested to optimize forage nutritive value of any forage type (cured hay or silage), forage sorghum grain should not reach physiological maturity (i.e. black layer). The calculated GDDs for each maturity class evaluated in the 2025 Texas A&M AgriLife Forage Sorghum Silage Trial indicates there is not a risk of insufficient GDD accumulation for early to late maturing hybrids planted in June and harvested at soft dough for silage (Table 1).

Table 1. The average days to specific physiological stages, accumulated growing degree days (GDDs) from planting, and yield and nutritive values on a DM basis for suggested maturity classes based on days to half-bloom (HB) for sorghum hybrids evaluated in the 2025 trial. GDD values are based on deg F temperatures. SD = Soft dough, PS = Photoperiod Sensitive

Maturity Class	Days to HB Range	Avg. Days to HB	GDDs to Avg. HB	Days to SD or Harvest	GDDs to Harvest	% CP	% NDF	NDFD30/%NDF	% uNDF240	% ADF	% Lignin	% NFC	% Starch	% WSC	Yield (tons/ac)
Early	<70	63	1576	92	2245	9.9	43.0	52.5	15.4	27.6	3.7	40.4	25.8	7.8	6.0
Med-Early	70-79	73	1776	99	2345	9.3	48.6	49.9	15.5	30.8	4.6	35.5	19.0	9.7	7.1
Medium	80-85	82	2032	107	2556	8.6	48.3	56.5	17.1	30.5	4.1	36.1	14.7	12.8	8.1
Med-Late	86-90	87	2130	112	2649	8.0	50.8	54.0	14.3	33.0	4.6	34.8	15.0	10.4	9.1
Late	91-100	89	2175	119	2774	7.7	51.6	50.0	14.5	33.8	5.3	35.8	15.4	11.6	9.3
PS	>100	.	.	119	2774	7.0	59.5	56.1	18.2	38.4	5.2	26.8	6.4	12.6	9.0

Sorghum Ergot

In 2025, ergot infection from the fungus *Claviceps africana*, varied across the Bushland Sorghum Silage trial. Symptoms included honeydew exuding from infected panicles and white fungal growth called sphacelia (Figure 2). Early to medium maturing hybrids (half bloom 63-82 days) showed no signs of ergot infection. Later maturing hybrids were more susceptible, especially those with half-bloom dates from late August to mid-September (Figure 3). Cooler temperatures in mid-August (low temp 57F Aug. 12th) combined with heavy dew, and light rain likely decreased pollination in hybrids flowering at the time, and increased incidences of ergot in sorghum. Ergot attacks the nonfertilized ovaries and airborne secondary conidia spread the ergot from plant to plant and field to field. A plant that has been pollinated is resistant or immune to infection. Fungicides are effective at controlling ergot but must be applied before infection has occurred. While prophylactic treatments can mitigate infestation, they are often not cost-effective for commercial production. We are not aware of any current or past documented cases of

toxicity in the U.S. caused by the ergot fungus that infects sorghum. This includes grain and forages such as silage and hay (Brent Bean, Sorghum Checkoff Director of Agronomy, 2025). However, the true impact of the fungal disease and its potential for alkaloid production in infected fields is still being investigated to determine the effects on beef and dairy cattle.



Figure 2. Infected sorghum spikelet showing sphaecelia growth (white structure inside glumes) and honeydew exudate which contains conidia (tan to brown liquid emanating from sphaecelia).

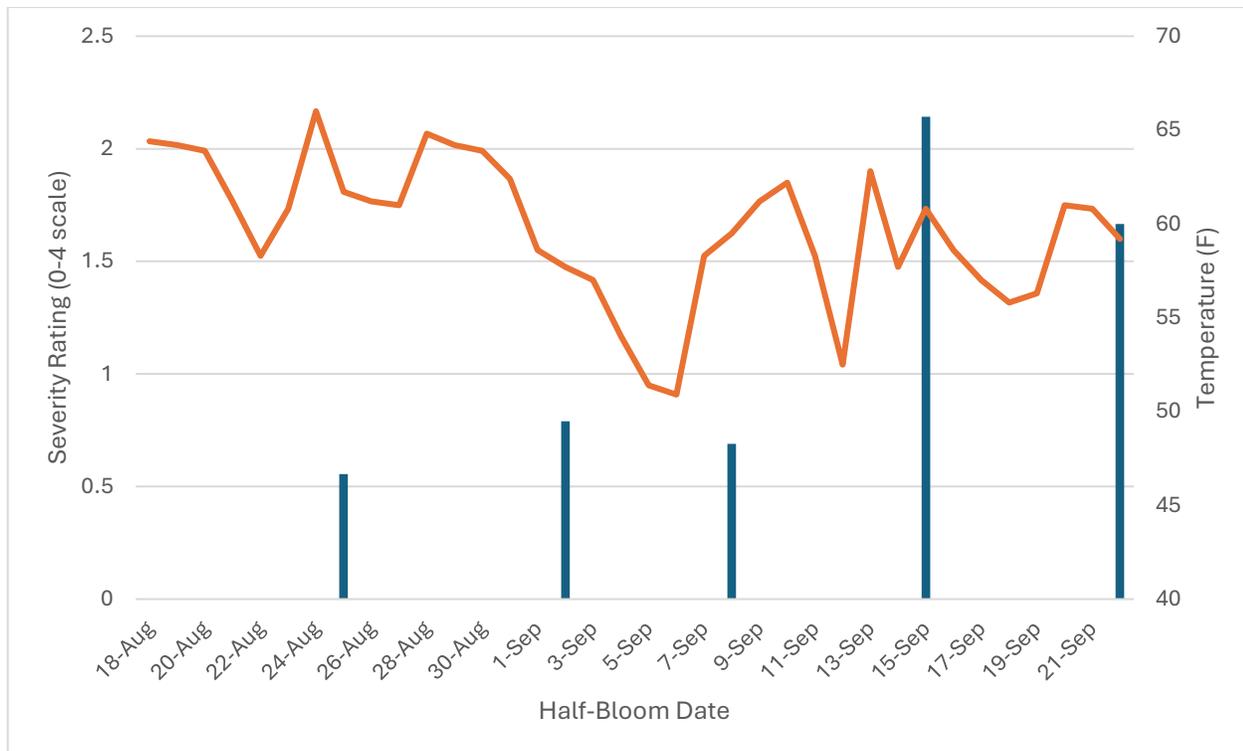


Figure 3. Ergot severity by half-bloom date with daily low temperature. Average ergot severity ratings (0-4) scale, 0 = no infection, 1 = 1-25% of plants infected, 2 = 25-49% of plants infected, 3 = 50-74% of plants infected, 4 = ≥75% of plants infected by half bloom date showing daily low temperatures at the 2025 Bushland Sorghum Forage trial.

Forage Nutritive Analyses Defined:

CP: Crude Protein.

ADF: Acid Detergent Fiber; a fraction of the cell wall includes cellulose and lignin.

NFC: Non-fibrous carbohydrates.

NDF: Neutral Detergent Fiber; cell wall fraction of the forage includes cellulose, hemicellulose and lignin.

NDFD30: NDF digestibility; estimated fiber digestibility after 30 hours of in-vitro rumen fermentation.

uNDF240: Undigested neutral detergent fiber (uNDF). NDF, commonly referred to as “cell wall,” is comprised of cellulose, hemicellulose, and lignin. The number “240” refers to the amount of NDF remaining undigested after 10 days (240 hours) in the rumen (Canale, 2017). uNDF240 improves the prediction of dry matter intake (DMI) and milk production (Grant et. al 2018).

Lignin: A structural material for cell walls and thus important for plant standability. Lignin is almost completely indigestible.

Starch: A carbohydrate primarily located in the grain. Starch availability is a function of harvest timing and berry processing.

WSC: A measurement of simple sugars (glucose, fructose, and sucrose) and fructans. WSCs accumulate in the stalk until anthesis. After anthesis, they remobilize to the grain. WSCs are important for fermentation as they are used during the development of lactic acid.

TDN: % Total Digestible Nutrients representing digestible protein, digestible crude fiber, digestible nitrogen free extract, and digestible fat.

Tons TDN produced per acre: Represents the energy production under the evaluated management and environmental conditions. Calculated as % TDN x forage yield (tons/acre; DM basis) = tons of TDN produced per acre.

Grain yields for requested hybrids (Table 4) were collected following forage harvest and once grain reached physiological maturity. Grain yield data is annually submitted to the USDA-Farm Service Agency (FSA) to update the table of forage sorghum hybrids eligible for loan deficiency payments. Grain production can contribute significantly to forage yield and nutritional profiles, but the desired grain quantity varies depending on end-user-goals. Harvest Index, pound of grain per pound total biomass (forage + grain), provides an indication of the grain fraction of the total biomass yield. Statistical analyses were completed for sorghum hybrids using JMP 19. Least significant differences for multiple comparisons were determined using Students t-test post hoc test. Effects and comparisons were determined significant at the 0.05 probability level.

The data and discussion focus on reported averages for forage, grain, and sorghum-sudangrass hybrids tested in the 2025 trial as fresh forage managed for silage. Choosing a hybrid solely based on its marketed forage type is not advised, since these categories suggest potential quality and nutritional value. Actual measurements can differ among hybrids labeled with the same forage type, and across production environments, so there is often overlap between types. The evaluated parameters offer a broad comparison of forage nutritional value within the specific production environment to meet the different needs of livestock.

The authors are appreciative of student employees and technicians who provided valuable labor maintaining plots (Kylie Deaton, Callie Compton, Jennifer Taylor, Madison Genz, and Zach Hilliard).

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Table 2. 2025 Texas A&M AgriLife Bushland Forage Sorghum trial mean yields sorted by maximum yielding hybrid. Yields highlighted in yellow are not significantly different. FS = Forage Sorghum, SS = Sorghum Sudan, GS = Grain Sorghum, PS = Photoperiod Sensitive, BMR = Brown Midrib, SCA = Sorghum Aphid, HB = Half-Bloom, FB = Full Bloom, V = Vegetative, M = Milk, SD= Soft Dough, M-SD = Milk to Soft Dough, LSD = Late Soft Dough, HD = Hard Dough, DM = Dry Matter

Harvest Date	Entry	Company	Hybrid	Type	Marketed Maturity	Traits	Days to HB†	% Lodging	Stage at Harvest	Height at Harvest (in)	% Moist. at Harvest	DM Tons/ac	Yield (tons/ac) 65% moist.
10/9/25	50	Supra Ag	HS1026	FS	Full (Late)	Male Sterile	95	0	SD	123	0.68	11.8	33.7
10/2/25	3	Advanta Seeds	ADV F8322	FS	Medium	SCA	91	0	SD	76	0.66	11.7	33.5
10/2/25	53	Warner Seeds	P4204	FS	Med-Late	SCA	93	0	SD	98	0.67	11.1	31.6
10/9/25	4	Advanta Seeds	ADV F8484IG	FS	Med-Late	Brachytic	85	0	SD	74	0.64	10.9	31.0
10/9/25	56	Warner Seeds	P4420	FS	Late	SCA	89	0	M-SD	126	0.68	10.5	30.0
10/9/25	39	Richardson Seeds	S470	SS	PS	SCA	.	0	B	120	0.72	10.2	29.3
10/2/25	60	Wilbur-Ellis	38F80	FS	Med-Late	SCA	91	0	M-SD	94	0.68	10.2	29.2
10/2/25	35	Richardson Seeds	F27	FS	Med-Late	Brachytic	85	0	SD	87	0.65	10.2	29.2
10/9/25	57	Warner Seeds	P8607	SS	PS	SCA	.	0	V	125	0.72	10.2	29.0
10/2/25	44	Scott Seed	X52242	FS	Med-Late	SCA	91	0	SD	93	0.68	10.1	29.0
10/9/25	51	Supra Ag	SSG0819	SS	Full (Late)		83	0	SD	115	0.66	10.0	28.5
10/2/25	2	Advanta Seeds	ADV F7424	FS	Med-Late	BMR, Brachytic	92	0	SD	78	0.66	9.5	27.0
10/2/25	41	Warner Seeds	SS405	FS	Med-Late		91	0	SD	117	0.67	9.3	26.4
10/2/25	55	Warner Seeds	P4008	FS	Med-Late	SCA	93	0	M-SD	81	0.67	9.3	26.4
10/9/25	45	Scott Seed	X54243	SS	Late	SCA	100	0	M-SD	130	0.64	9.2	26.4
10/2/25	46	Scott Seed	X50665	FS	Med-Late	BMR, Brachytic	81	0	SD	69	0.63	9.2	26.2
10/9/25	38	Richardson Seeds	S473	SS	PS	SCA, BMR	116	0	FB	114	0.74	9.1	26.1
10/2/25	25	MOJO Seed	X25010	FS	Med-Late	Brachytic	81	0	SD	73	0.62	9.0	25.7
9/19/25	29	Pioneer	859	FS	Med-Early		71	20	SD	104	0.68	8.9	25.4
9/25/25	40	Warner Seeds	NK300	FS	Med-Early		82	0	SD	73	0.67	8.7	24.9
10/9/25	36	Richardson Seeds	F260	FS	Late	SCA, Brachytic	97	0	SD	76	0.68	8.6	24.5
10/2/25	14	Dyna-Gro	Fullgraze II	SS	Med-Late		99	0	M-SD	133	0.66	8.3	23.6
10/2/25	59	Wilbur-Ellis	33F70	FS	Med-Late	BMR, Brachytic	83	0	SD	67	0.65	7.9	22.7
10/9/25	52	Supra Ag	26297A3	SS	Full (Late)		77	0	SD	124	0.59	7.9	22.7
10/2/25	15	Dyna-Gro	FX25001	SS	Med-Late		.	0	V	117	0.72	7.9	22.6
10/2/25	1	Advanta Seeds	ADV F7232	FS	Medium	BMR, Brachytic	88	0	SD	67	0.66	7.8	22.3
9/18/25	9	Dyna-Gro	Super Site 30	FS	Med-Early		89	10	M	98	0.71	7.8	22.3
10/9/25	12	Dyna-Gro	Danny Boy II BMR	SS	PS	BMR	112	0	FB	117	0.73	7.8	22.2
9/18/25	43	Warner Seeds	SP2707 DT	FS	Med-Early	Brachytic	81	0	M-SD	57	0.69	7.7	22.1
10/9/25	58	Warner Seeds	P8031	SS	PS	BMR	.	0	V	108	0.72	7.7	22.1
9/25/25	32	Richardson Seeds	F787X	FS	Medium	SCA, Brachytic	93	0	M-SD	58	0.71	7.7	21.9
9/18/25	7	Dyna-Gro	F72FS05	FS	Med-Early	SCA	88	0	M	82	0.71	7.6	21.9
9/18/25	21	MOJO Seed	OPAL+DT	FS	Med-Early	SCA	66	0	LSD	78	0.61	7.5	21.5

Table 2. Cont.

Harvest Date	Entry	Company	Hybrid	Type	Marketed Maturity	Traits	Days to HB†	% Lodging	Stage at Harvest	Height at Harvest (in)	% Moist. at Harvest	DM Tons/ac	Yield (tons/ac) 65% moist.
9/18/25	22	MOJO Seed	X23016+	FS	Med-Early	SCA, Brachytic	69	0	SD	81	0.65	7.5	21.3
9/18/25	26	MOJO Seed	X25021	FS	Med-Early		70	10	SD	71	0.64	7.4	21.3
9/18/25	28	MOJO Seed	X25023	FS	Med-Early	SCA, Brachytic	73	0	M-SD	81	0.70	7.4	21.2
9/25/25	8	Dyna-Gro	F74FS72 BMR	FS	Medium	BMR, Brachytic	89	0	SD	62	0.70	7.4	21.1
10/2/25	13	Dyna-Gro	Fullgraze II BMR	SS	Med-Late	BMR	98	0	M-SD	117	0.69	7.4	21.1
9/18/25	27	MOJO Seed	X25022	FS	Med-Early	SCA, Brachytic	76	0	SD	86	0.69	7.3	20.8
9/18/25	42	Warner Seeds	SP2606 BMR	FS	Med-Early	BMR	81	0	M-SD	83	0.73	7.3	20.7
9/18/25	23	MOJO Seed	X24124+	FS	Med-Early	SCA	72	0	SD	86	0.69	7.3	20.7
9/18/25	24	MOJO Seed	X253501+	FS	Med-Early	SCA, Brachytic	77	0	M	88	0.73	7.2	20.7
9/25/25	11	Dyna-Gro	Sweet Ton MS	FS	Medium	Male Sterile	64	0	SD	93	0.64	7.2	20.6
9/18/25	20	MOJO Seed	PEARL	FS	Med-Early	SCA, Brachytic	70	0	SD	78	0.66	7.1	20.2
10/9/25	30	Richardson Seeds	F2960X	FS	Late	SCA, BMR, Brachytic	68	75	HD	78	0.60	6.9	19.7
10/2/25	10	Dyna-Gro	Super Site 20	FS	Med-Late		94	0	SD	100	0.68	6.7	19.0
9/12/25	62	TAMU Check	DK36-07	GS	Early	SCA	60	0	SD	50	0.63	6.6	19.0
9/18/25	54	Warner Seeds	P4039	FS	Med-Early	BMR	73	0	M-SD	73	0.72	6.6	19.0
9/25/25	6	Advanta Seeds	ADV F7301	FS	Medium	BMR, Male Sterile	69	10	SD	90	0.67	6.6	18.8
9/18/25	5	Advanta Seeds	ADV F8330	FS	Med-Early	Male Sterile	63	0	SD	99	0.66	6.3	18.1
9/18/25	31	Richardson Seeds	F823X	FS	Med-Early	SCA, BMR, Brachytic	66	0	M-SD	69	0.67	6.2	17.6
9/12/25	33	Richardson Seeds	F382	FS	Early	SCA, BMR	64	10	SD	85	0.69	6.1	17.4
9/25/25	63	TAMU Check	DKC70-64	Corn	Med-Early		.	0	R6	85	0.63	6.0	17.3
9/12/25	37	Richardson Seeds	F24	FS	Early	SCA, Brachytic	62	0	SD	69	0.64	6.0	17.3
9/25/25	64	TAMU Check	P1548	Corn	Med-Early		.	0	R6	86	0.59	6.0	17.2
9/12/25	48	Scott Seed	X560891	FS	Early	BMR	62	10	SD	75	0.63	5.9	16.9
9/12/25	61	TAMU Check	84G62	GS	Early		63	0	SD	52	0.67	5.9	16.9
9/12/25	34	Richardson Seeds	F431	FS	Early	SCA, BMR, Brachytic	65	0	SD	58	0.66	5.9	16.9
9/12/25	47	Scott Seed	X5061109	FS	Early	SCA, BMR	65	20	SD	72	0.69	5.8	16.5
9/12/25	19	Dyna-Gro	F71FS72 BMR	FS	Early	BMR	63	0	SD	74	0.68	5.7	16.4
9/12/25	49	Scott Seed	X560885	FS	Early	BMR	63	20	SD	95	0.66	5.7	16.4
9/18/25	18	Dyna-Gro	Dynagraz II	SS	Med-Early		60	0	LSD	96	0.64	5.7	16.2
9/25/25	65	TAMU Check	P1366Q	Corn	Med-Early		.	0	R6	81	0.60	5.6	16.1
9/18/25	17	Dyna-Gro	FX25003	SS	Med-Early		63	10	SD	110	0.67	5.6	15.9
9/18/25	16	Dyna-Gro	FX25002	SS	Med-Early		61	10	LSD	100	0.63	5.2	14.9

† Days to HB represent the number of days from planting to HB. If HB is not reported, the respective hybrid did not reach HB prior to harvest date.

Traits and advertised maturity are provided by developer/company at the time of entry.

*Mean and statistical evaluations do not include corn hybrids.

Mean	22.6
CV%	12.7
p-val	<0.0001
LSD	4.6

Table 3. 2025 Texas A&M AgriLife Bushland Forage Sorghum trial forage nutritive values by maximum tons/ac DM basis. FS = Forage Sorghum, SS = Sorghum Sudan, GS = Grain Sorghum, PS = Photoperiod Sensitive, BMR = Brown Midrib, SCA = Sorghum Aphid, HB = Half-Bloom, DM = Dry Matter

Hybrid and Characteristics							Nutrient Composition (DM Basis)												Yield (tons/ac) DM Basis
Entry	Company	Hybrid	Type	Marketed Maturity	Traits	Days to HB	% CP	% NDF	NDFD30/ %NDF	% uNDF240	% ADF	% Lignin	% NFC	% Starch	% WSC	% TDN	Tons TDN/ac		
50	Supra Ag	HS1026	FS	Full (Late)	Male Sterile	95	6.7	49.9	52.7	23.0	32.6	5.4	38.5	12.7	15.6	62.7	6.8	11.8	
3	Advanta Seeds	ADV F8322	FS	Medium	SCA	91	8.0	50.1	53.3	12.7	32.8	4.6	35.3	15.0	10.8	62.4	7.3	11.7	
53	Warner Seeds	P4204	FS	Med-Late	SCA	93	8.0	48.5	53.3	14.3	31.8	4.6	37.2	16.7	9.9	63.5	7.0	11.1	
4	Advanta Seeds	ADV F8484IG	FS	Med-Late	Brachytic	85	8.2	47.5	46.2	13.9	31.7	5.4	39.4	21.9	9.2	63.7	6.9	10.9	
56	Warner Seeds	P4420	FS	Late	SCA	89	7.3	50.4	51.2	15.6	33.1	5.6	37.8	14.5	13.5	63.0	6.6	10.5	
39	Richardson Seeds	S470	SS	PS	SCA	.	6.8	60.0	51.0	19.1	39.2	5.7	26.8	6.6	11.8	57.9	5.9	10.2	
60	Wilbur-Ellis	38F80	FS	Med-Late	SCA	91	7.8	50.4	52.3	12.8	32.7	4.7	34.8	15.3	10.6	62.3	6.4	10.2	
35	Richardson Seeds	F27	FS	Med-Late	Brachytic	85	8.2	46.6	54.2	15.0	30.3	4.2	38.9	18.8	10.5	65.1	6.7	10.2	
44	Scott Seed	X52242	FS	Med-Late	SCA	91	9.0	50.5	52.5	13.0	32.1	4.5	34.0	14.5	11.2	63.0	6.4	10.1	
51	Supra Ag	SSG0819	FS	Full (Late)		83	6.9	53.3	50.3	19.5	35.2	5.5	34.2	11.5	13.9	60.5	6.0	10.0	
2	Advanta Seeds	ADV F7424	FS	Med-Late	BMR, Brachytic	92	8.3	47.0	59.2	10.8	29.9	3.6	38.5	19.7	11.3	66.4	6.3	9.5	
41	Warner Seeds	SS405	FS	Med-Late		58	7.5	54.4	50.7	13.9	34.9	5.5	32.8	11.0	12.2	61.0	5.6	9.3	
55	Warner Seeds	P4008	FS	Med-Late	SCA	93	8.0	51.9	53.6	16.9	33.6	4.5	33.6	15.2	9.8	62.8	5.8	9.3	
45	Scott Seed	X54243	SS	Late	SCA	100	6.1	61.8	46.2	13.4	40.9	6.1	27.7	7.1	11.1	59.1	5.5	9.2	
46	Scott Seed	X50665	FS	Med-Late	BMR, Brachytic	81	8.5	45.4	55.2	12.2	29.7	4.1	38.7	22.0	8.7	65.0	6.0	9.2	
38	Richardson Seeds	S473	SS	PS	SCA, BMR	116	6.9	61.8	57.6	18.3	38.8	5.0	25.2	5.6	12.2	59.1	5.4	9.1	
25	MOJO Seed	X25010	FS	Med-Late	Brachytic	81	9.5	50.7	50.8	15.5	33.3	4.4	32.5	17.9	6.2	63.0	5.7	9.0	
29	Pioneer	859	FS	Med-Early		71	8.5	45.9	49.4	16.6	30.7	4.9	40.5	22.3	7.8	66.3	5.9	8.9	
40	Warner Seeds	NK300	FS	Med-Early		51	9.7	46.9	48.4	17.3	29.1	4.5	37.0	19.5	9.8	65.2	5.7	8.7	
36	Richardson Seeds	F260	FS	Late	SCA, Brachytic	97	8.5	54.6	50.7	16.2	34.9	5.1	30.9	10.8	12.5	60.7	5.2	8.6	
14	Dyna-Gro	Fullgraze II	SS	Med-Late		99	6.5	59.8	50.8	11.6	39.1	5.9	29.3	6.4	11.5	60.5	5.0	8.3	
59	Wilbur-Ellis	33F70	FS	Med-Late	BMR, Brachytic	83	8.2	49.2	58.3	19.3	31.9	3.7	35.5	19.1	7.6	64.6	5.1	7.9	
52	Supra Ag	26297A3	SS	Full (Late)		77	5.8	63.9	45.1	19.3	42.2	6.5	26.3	8.8	10.7	57.7	4.6	7.9	
15	Dyna-Gro	FX25001	SS	Med-Late		.	7.9	59.0	55.4	15.5	38.7	5.5	25.7	4.4	10.5	58.0	4.6	7.9	
1	Advanta Seeds	ADV F7232	FS	Medium	BMR, Brachytic	88	8.6	48.0	60.7	17.1	30.4	3.8	36.0	15.7	12.5	64.2	5.0	7.8	
9	Dyna-Gro	Super Sile 30	FS	Med-Early		89	9.1	55.7	53.0	19.2	34.7	4.9	28.0	7.3	13.5	60.5	4.7	7.8	
12	Dyna-Gro	Danny Boy II BMR	SS	PS	BMR	112	7.3	56.7	60.1	17.1	37.1	4.8	28.4	7.0	13.7	59.3	4.6	7.8	
43	Warner Seeds	SP2707 DT	FS	Med-Early	Brachytic	81	9.4	55.9	51.7	18.6	34.8	5.0	27.8	10.5	11.8	60.8	4.7	7.7	
32	Richardson Seeds	F787X	FS	Medium	SCA, Brachytic	93	8.9	52.7	55.9	13.4	32.4	4.2	30.8	10.1	12.8	62.3	4.8	7.7	
7	Dyna-Gro	F72FS05	FS	Med-Early	SCA	88	9.7	56.0	51.6	13.3	34.9	4.8	26.9	6.6	13.7	60.4	4.6	7.6	

Table 3. Cont.

Hybrid and Characteristics							Nutrient Composition (DM Basis)												Yield
Entry	Company	Hybrid	Type	Marketed Maturity	Traits	Days to HB	% CP	% NDF	NDFD30/ %NDF	% uNDF240	% ADF	% Lignin	% NFC	% Starch	% WSC	% TDN	Tons TDN/ac	(tons/ac) DM Basis	
21	MOJO Seed	OPAL+DT	FS	Med-Early	SCA	66	9.3	47.1	46.6	16.0	31.5	4.6	35.1	22.8	6.8	63.8	4.8	7.5	
22	MOJO Seed	X23016+	FS	Med-Early	SCA, Brachytic	69	8.7	46.4	48.8	17.5	30.5	4.4	37.5	24.4	6.3	65.7	4.9	7.5	
26	MOJO Seed	X25021	FS	Med-Early		70	9.8	43.7	47.6	13.8	28.2	4.4	39.6	25.3	7.0	67.2	5.0	7.4	
28	MOJO Seed	X25023+	FS	Med-Early	SCA, Brachytic	73	9.9	47.2	51.0	15.6	29.9	4.1	35.0	20.2	8.4	65.2	4.8	7.4	
8	Dyna-Gro	F74FS72 BMR	FS	Medium	BMR, Brachytic	89	10.0	49.8	59.9	18.9	30.7	3.8	32.2	12.6	13.0	63.9	4.7	7.4	
13	Dyna-Gro	Fullgraze II BMR	SS	Med-Late	BMR	98	7.7	52.8	63.6	12.4	33.6	4.4	33.0	7.3	14.7	62.4	4.6	7.4	
27	MOJO Seed	X25022+	FS	Med-Early	SCA, Brachytic	76	9.8	48.1	52.7	14.3	29.9	3.9	34.9	17.8	10.0	65.9	4.8	7.3	
42	Warner Seeds	SP2606 BMR	FS	Med-Early	BMR	81	9.5	48.6	56.2	15.8	30.8	4.0	33.8	18.5	9.9	63.9	4.6	7.3	
23	MOJO Seed	X24124+	FS	Med-Early	SCA	72	9.2	48.4	51.4	13.8	30.7	4.2	34.8	19.8	8.6	65.1	4.7	7.3	
24	MOJO Seed	X253501+	FS	Med-Early	SCA, Brachytic	77	10.0	51.0	52.8	14.6	31.8	4.6	32.2	12.3	12.3	63.0	4.6	7.2	
11	Dyna-Gro	Sweet Ton MS	FS	Medium	Male Sterile	64	7.0	42.2	50.1	20.0	27.2	4.4	45.2	19.1	14.3	67.6	4.9	7.2	
20	MOJO Seed	PEARL	FS	Med-Early	SCA, Brachytic	70	9.0	49.2	48.0	13.5	32.4	4.6	33.3	21.0	7.8	63.1	4.5	7.1	
30	Richardson Seeds	F2960X	FS	Late	SCA, BMR, Brachytic	68	8.7	39.6	54.0	13.0	26.5	4.5	46.7	29.2	9.4	68.3	4.7	6.9	
10	Dyna-Gro	Super Sile 20	FS	Med-Late		94	7.6	48.1	55.1	18.0	31.4	4.4	38.3	14.6	12.0	64.6	4.3	6.7	
62	TAMU Check	DK36-07	GS	Early	SCA	60	10.0	38.1	47.0	16.3	25.2	4.0	45.9	33.0	4.4	70.0	4.6	6.6	
54	Warner Seeds	P4039	FS	Med-Early	BMR	73	9.5	51.1	57.7	15.1	31.8	3.8	31.2	15.5	10.2	63.3	4.2	6.6	
6	Advanta Seeds	ADV F7301	FS	Medium	BMR, Male Sterile	69	9.2	47.1	58.3	20.3	29.5	3.8	37.2	15.9	13.3	66.3	4.4	6.6	
5	Advanta Seeds	ADV F8330	FS	Med-Early	Male Sterile	63	8.8	47.7	49.0	14.2	30.5	5.1	37.8	17.1	12.0	64.6	4.1	6.3	
31	Richardson Seeds	F823X	FS	Med-Early	SCA, BMR, Brachytic	66	9.5	47.1	53.8	12.5	28.9	3.7	36.0	22.0	9.0	66.1	4.4	6.2	
33	Richardson Seeds	F382	FS	Early	SCA, BMR	64	9.3	43.9	54.8	13.1	27.3	4.0	41.4	22.8	11.4	67.8	4.1	6.1	
63	TAMU Check	DKC70-64	Corn	Med-Early		.	9.5	47.9	46.0	17.5	29.7	5.0	39.6	21.9	9.4	67.0	4.1	6.0	
37	Richardson Seeds	F24	FS	Early	SCA, Brachytic	62	10.1	43.1	49.4	15.6	28.4	3.9	40.0	27.2	6.0	67.9	4.1	6.0	
64	TAMU Check	P1548	Corn	Med-Early		.	9.3	42.0	48.7	13.9	26.0	4.0	46.1	30.4	7.8	72.0	4.3	6.0	
48	Scott Seed	X560891	FS	Early	BMR	62	9.9	44.3	53.7	15.3	29.1	3.7	38.6	26.1	7.1	67.3	4.0	5.9	
61	TAMU Check	84G62	GS	Early		63	10.2	41.3	48.4	15.0	26.9	3.8	41.9	29.6	5.2	68.4	4.1	5.9	
34	Richardson Seeds	F431	FS	Early	SCA, BMR, Brachytic	65	10.4	44.5	55.2	13.4	27.7	3.0	38.4	24.6	6.3	69.3	4.1	5.9	
47	Scott Seed	X5061109	FS	Early	SCA, BMR	65	10.7	42.5	57.6	13.1	26.2	3.2	40.2	22.0	11.7	68.7	4.0	5.8	
19	Dyna-Gro	F71FS72 BMR	FS	Early	BMR	63	9.6	42.7	55.0	13.8	27.3	3.7	41.6	25.0	9.4	68.4	3.9	5.7	
49	Scott Seed	X560885	FS	Early	BMR	63	9.4	46.8	51.0	23.2	30.3	4.2	36.2	22.1	9.0	65.1	3.7	5.7	
18	Dyna-Gro	Dynagrazee II	SS	Med-Early		60	9.3	49.3	46.3	15.5	31.7	5.5	35.1	16.0	11.6	62.9	3.6	5.7	
65	TAMU Check	P1366Q	Corn	Med-Early		.	10.1	38.9	48.8	14.7	23.2	3.6	48.6	32.2	7.9	73.9	4.2	5.6	
17	Dyna-Gro	FX25003	SS	Med-Early		63	9.0	50.7	44.8	16.9	33.1	5.7	33.6	16.2	10.7	62.2	3.5	5.6	
16	Dyna-Gro	FX25002	SS	Med-Early		61	8.4	52.1	43.6	15.6	34.6	5.4	32.6	17.2	10.0	61.8	3.2	5.2	

Table 4. 2025 Texas A&M AgriLife Bushland Forage Sorghum grain yields by maximum yield (lbs/ac) reported at 13% grain moisture. Yields for all hybrids evaluated as a percentage of the trial's long-term grain sorghum check Pioneer 84G62 (highlighted in yellow). 2025 84G62 yield: 7,655 lbs/ac; 16 year average 8,312 lbs/ac.

GM = Grain Moisture, FS = Forage Sorghum, SS = Sorghum Sudan, GS = Grain Sorghum, PS = Photoperiod Sensitive, BMR = Brown Midrib, SCA = Sorghum Aphid, HB = Half-Bloom, DM = Dry Matter

Entry	Company	Hybrid	Type	Marketed Maturity	Traits	Days to HB†	Yield lb/ac 13%GM	Yield as a % 84G62	DM Yield (tons/ac)	Harvest Index
27	MOJO Seed	X25022+	FS	Med-Early	SCA, Brachytic	76	10501	137	7.3	0.63
26	MOJO Seed	X25021	FS	Med-Early		70	10227	134	7.4	0.60
28	MOJO Seed	X25023+	FS	Med-Early	SCA, Brachytic	73	9366	122	7.4	0.55
23	MOJO Seed	X24124+	FS	Med-Early	SCA	72	8993	117	7.3	0.54
22	MOJO Seed	X23016+	FS	Med-Early	SCA, Brachytic	69	8658	113	7.5	0.50
46	Scott Seed	X50665	FS	Med-Late	BMR, Brachytic	81	8285	108	9.2	0.39
42	Warner Seeds	SP2606 BMR	FS	Med-Early	BMR	81	8095	106	7.3	0.49
48	Scott Seed	X560891	FS	Early	BMR	62	7934	104	5.9	0.58
21	MOJO Seed	OPAL+DT	FS	Med-Early	SCA	66	7791	102	7.5	0.45
61	TAMU Check	84G62	GS	Early		63	7655	100	5.9	0.56
32	Richardson Seeds	F787X	FS	Medium	SCA, Brachytic	93	7545	99	7.7	0.43
31	Richardson Seeds	F823X	FS	Med-Early	SCA, BMR, Brachytic	66	7521	98	6.2	0.53
62	TAMU Check	DK36-07	GS	Early	SCA	60	7315	96	6.6	0.48
49	Scott Seed	X560885	FS	Early	BMR	63	7011	92	5.7	0.53
29	Pioneer	859	FS	Med-Early		71	6616	86	8.9	0.32
30	Richardson Seeds	F2960X	FS	Late	SCA, BMR, Brachytic	68	6197	81	6.9	0.39
44	Scott Seed	X52242	FS	Med-Late	SCA	91	5424	71	10.1	0.23
25	MOJO Seed	X25010	FS	Med-Late	Brachytic	81	5208	68	9.0	0.25
10	Dyna-Gro	Super Sile 20	FS	Med-Late		94	5077	66	6.7	0.33
43	Warner Seeds	SP2707 DT	FS	Med-Early	Brachytic	81	4974	65	7.7	0.28
47	Scott Seed	X5061109	FS	Early	SCA, BMR	65	4672	61	5.8	0.35
24	MOJO Seed	X253501+	FS	Med-Early	SCA, Brachytic	77	4588	60	7.2	0.28
7	Dyna-Gro	F72FS05	FS	Med-Early	SCA	88	3933	51	7.6	0.22
9	Dyna-Gro	Super Sile 30	FS	Med-Early		89	3419	45	7.8	0.19
† Days to HB represent the number of days from planting to HB.						Mean	6951			
Traits and advertised maturity are provided by developer/company at the time of entry.						CV%	26.18			
Harvest Index = Grain/Total Biomass (on a DM Basis)						p-val	<0.0001			
						LSD	2340			