

#### **2019 Texas Grain Sorghum Performance Variety Trials**



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#### 2019 TEXAS GRAIN SORGHUM PERFORMANCE VARIETY TRIALS

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#### Introduction

Texas A&M AgriLife Research conducts the grain sorghum performance tests each year to provide growers in Texas with accurate and unbiased information on hybrid performance at locations across the state. Selection of superior hybrids that are well adapted for a given region is essential for maximizing yield and profit.

This year, six irrigated and six non-irrigated test sites were planted in the major production regions of Texas. Major grain sorghum production regions include the Western Gulf Coastal Plain, Southern Texas Plains, East Central Texas Plains, Texas Blackland Prairies and High Plains. Approximate locations of the 2019 test sites are shown in Figure 1. A total of 458 entries were evaluated across 12 locations representing 54 unique hybrids from 11 commercial seed companies. Commercial seed companies enter hybrids into each trial location at their own discretion.

Performance trials are conducted by personnel from the Crop Testing Program, Texas A&M AgriLife Research, and financed by fees collected from participating commercial seed companies. Test sites are on privately owned farms or at Texas A&M University AgriLife Research Centers. All entries are randomized and replicated four times at each location. All test sites are managed according to practices common to each production region. Field maps and planting plans can be found at the link below shortly after planting. Following harvest, results are statistically analyzed and made available at: <a href="http://varietytesting.tamu.edu/grainsorghum/">http://varietytesting.tamu.edu/grainsorghum/</a>.

#### **Suggestions for Selecting Hybrids and Varieties**

Variety or hybrid selection is often the first decision a grower must make each crop year. The goal is to identify hybrids with superior performance (top yielding) for your environment. Many environments exist in Texas with significant variation within regions and across years, mostly due to variation in weather. Documented, consistent yield performance within a region is essential for selecting hybrids that will perform well on your farming operation. This means that evaluation of hybrids over multiple locations and years (when possible) is the best way to predict future performance. Exercise caution when using single location data to compare hybrid performance.

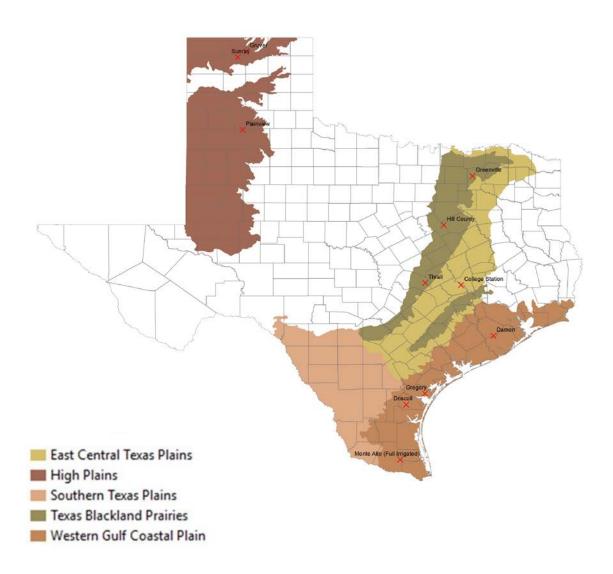
Following yield performance, other characteristics may be useful for selecting the best hybrid. Maturity or days to flowering may be important for selecting hybrids that are appropriate for your growing season/conditions. Typically mid- and full-season hybrids will respond favorably to additional moisture while early or short season hybrids are designed for dryland production with lower moisture requirements. Selecting the wrong maturity hybrid can result in poor yields in dry

environments or the inability of a hybrid to produce higher yields if the moisture profile is favorable.

As water becomes more limited, drought tolerance becomes a critical component for production. Most sorghum hybrids possess good levels of pre-flowering drought tolerance, but there is a wide variation for post-flowering drought tolerance, and in most years post flowering drought is more common in Texas. Therefore, producers should ask seed companies for the relative level of post-flowering drought tolerance (or staygreen) their hybrids possess. Producers should realize that plant height and grain yield are correlated and while there are exceptions, taller hybrids generally have higher yield potential. Likewise taller hybrids require greater management, but if they possess good post-flowering drought tolerance (or staygreen) they should have good standability.

Finally, variation for grain quality exists in grain sorghum and there are several hybrids that are now used in food grain markets. A list of these hybrids is provided by the National Grain Sorghum Producers (<a href="https://sorghumgrowers.com/">https://sorghumgrowers.com/</a>). These hybrids have white or cream-colored grain and straw colored glumes with tan plant color. While these hybrids are not suitable in all regions, in certain environments these hybrids yield comparably to traditional hybrids and may provide additional marketing opportunities.

Figure 1. 2019 Grain Sorghum Performance Trials: Locations and Production Regions



#### **Field-Plot Techniques**

Performance trials are conducted at each location using a randomized complete block design with four replications of each entry (hybrid). Plots are generally 2 rows wide with row spacing ranging from 30 to 40 inches depending on location. Population is determined based on the appropriate seeding rate for each production region and cropping system. Seeds are packaged to deliver 30 feet of planted row per plot. Seed is planted using a SRES Advanced research air planter with Monosem units at all sites. Following emergence, alleys are trimmed if necessary for a final plot length of 30 feet with a 4 foot alley. Alleys are maintained free of weeds throughout the growing season through mechanical or chemical control measures.

Cultural and agronomic practices adapted for each region are used as determined by the cooperator. Field data such as plant height, head exertion, and days to 50% flower are recorded at the appropriate times. Additional agronomic information is provided when available. Locations are harvested with a John Deere 3300 plot combine equipped with the HarvestMaster Grain Gauge that measures plot weight, test weight, and grain moisture. Field and harvest notes are compiled for each location and results analyzed.

#### **Data Analysis and Reporting**

Data from each location is analyzed statistically using SAS. Mean values for yield and additional agronomic data are presented in tables for each location. Mean values are derived from the average of all replications for each entry in each trial. Least Significant Difference (LSD) is a statistical test used that determines the minimum difference between two entries required to be considered having different levels of performance. Differences between entries (yield, plant height, etc.) less than the LSD value represents variation measurements due to factors other than hybrid performance, such as variation in soil type, soil moisture, fertility, insect or disease pressure, planting or harvesting procedures. Although numeric differences in yield or other measurements may exist, if two entries are within the LSD value, they should be considered to have equal performance. The Coefficient of Variation (CV) is used to determine the amount of variability in the data set relative to the mean and can be used to determine if the results are reliable. Generally, CV's greater than 20% indicate that the data is unreliable and is not reported. However, each data set is evaluated individually to determine if results will be reported.

In the 2019 Grain Sorghum Characteristics table, you will find agronomic data submitted by each company for their entries. Agronomic information provided by the companies about their hybrids is found in the list below and include items such as cob color, grain color and genetic traits. Agronomic data measured and collected by the Crop Testing program is described in the section below.

#### Agronomic Data as designated by each company:

Grain Color: Y = Yellow, W = White, Cm = Cream, R = Red, Bz = Bronze

Plant Color: T = Tan, R = Red, P = Purple.

Maturity Class: Early (E), medium-early (ME), medium (M), medium-late (ML), late (L).

#### **Measured Agronomic Data:**

<u>Days to 50% Flowering:</u> the average number of days from planting to the date when 50 percent of the plants within the plot are in some stage of flowering.

<u>Plant Height:</u> the average height in inches from ground to tip of the panicle.

<u>Head Exertion:</u> the average length in inches from the flag leaf to the base of the panicle.

<u>Grain Moisture:</u> the average moisture at harvest as a percent (%).

<u>Test Weight:</u> a measure of bulk grain density and is determined by the seed weight per unit of volume. This is measured at harvest and expressed as pounds per bushel.

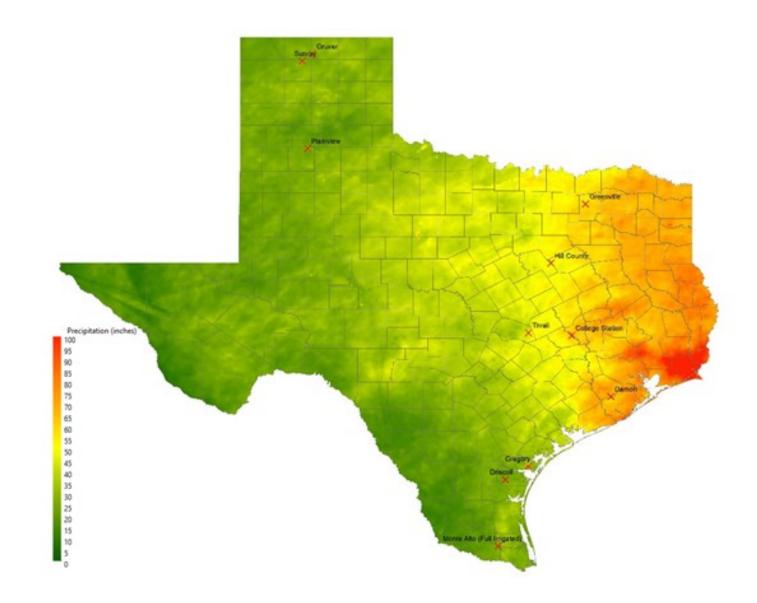
<u>Yield:</u> Standardized to 14% moisture: expressed in pounds per acre (lb/acre) and calculated using [((100 – moisture (%) /86) \* yield (lb/acre)].

In addition to individual site performance, information on multi-year performance for each site is provided. Multi-year tables are presented as 2 and 3-year summaries of yield performance data. The entries are ranked according to hybrid performance in the current year.

#### Rainfall

Available soil moisture during the growing season is often a limiting factor for sorghum production in Texas. Available moisture will influence decisions on hybrid selection related to maturity and for selection of appropriate seeding rates. Variation in rainfall patterns can be substantial within a production region and from year to year. A significant gradient in annual rainfall exists in Texas moving east to west.

Figure 2. 2019 Precipitation (October 1, 2018 –September 30, 2019)



#### 2019 Grain SorghumHybrid Characteristics



Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Advanta Seeds	Alta Seeds	ADV G3247	Bronze	Purple	Medium-Late
Advanta Seeds	Alta Seeds	ADV G2275	Bronze	Purple	Medium
Advanta Seeds	Alta Seeds	ADV G2106	Red	Purple	Medium-Early
Bayer	DEKALB	DKS 51-01	Bronze	Purple	Medium-Late
Bayer	DEKALB	DKS 53-53	Bronze	Purple	Medium-Late
Bayer	DEKALB	DKS 37-07	Bronze	Purple	Medium-Early
Bayer	DEKALB	DKS 38-16	Bronze	Purple	Medium-Early
Bayer	DEKALB	DKS 46-60	Bronze	Purple	Medium
Bayer	DEKALB	DKS 54-07	Red	Purple	Medium-Late
B-H Genetics	B-H Genetics	4100	Bronze		Medium
Corteva	Pioneer	83P73	Bronze	Purple	Late
Corteva	Pioneer	84P80	Red		Medium-Late
Corteva	Pioneer	83P27	Red	Purple	Medium-Late
Gayland Ward Seed	Gayland Ward	18092	Red	Purple	Medium
Gayland Ward Seed	Gayland Ward	19152	Red	Purple	Medium
Gayland Ward Seed	Gayland Ward	19016	Bronze	Purple	Medium
Gayland Ward Seed	Gayland Ward	19017	Bronze	Purple	Medium
Gayland Ward Seed	Gayland Ward	18057	Bronze	Purple	Medium-Early
Gayland Ward Seed	Gayland Ward	19024	Red	Purple	Medium
Gayland Ward Seed	Gayland Ward	18084	Red	Purple	Medium
Gayland Ward Seed	Gayland Ward	18083	Red	Purple	Medium
Golden Acres	Golden Acres	3960B	Bronze	Purple	Medium

#### 2019 Grain SorghumHybrid Characteristics



Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Golden Acres	Golden Acres	3020B	Bronze	Purple	Medium
Golden Acres	Golden Acres	4880R	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M60GB31	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	M60GB88	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	M74GB17	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M69GB38	Bronze	Purple	Medium
Nutrien Ag	Dyna-Gro	M71GR04	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M62GB77	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	GX19981	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M68GB18	Bronze	Purple	Medium
Nutrien Ag	Dyna-Gro	M69GR88	Red	Purple	Medium
Nutrien Ag	Dyna-Gro	GX17457	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	GX17973	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M73GR55	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	GX18395	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M71GR91	Bronze	Purple	Medium-Late
S&W Seed Company	Sorghum Partners	SP73B12	Bronze	Purple	Medium-Late
S&W Seed Company	Sorghum Partners	SP74M21	Bronze	Purple	Medium-Late
S&W Seed Company	Sorghum Partners	SP68M57	Bronze	Purple	Medium
S&W Seed Company	Sorghum Partners	SP43M80	Bronze	Purple	Medium-Early
S&W Seed Company	Sorghum Partners	SP7715	Bronze	Purple	Medium-Late
Terral Seed, Inc.	REV	9620	Red		Medium-Late

#### **2019 Grain Sorghum Hybrid Characteristics**



Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Terral Seed, Inc.	REV	9562	Red	Purple	Medium
Terral Seed, Inc.	REV	9782	Bronze	Purple	Medium-Late
Terral Seed, Inc.	REV	9924	Bronze	Purple	Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	White	Tan	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx2783			N/A
Wilbur-Ellis Company	Integra	G3670	Bronze	Purple	Medium-Late
Wilbur-Ellis Company	Integra	G3630	Bronze	Red	Medium-Early
Wilbur-Ellis Company	Integra	G3665	Bronze	Red	Medium

Hybrid characteristics are provided by representatives of each company. For additional information contact your local seed dealer or:
Katrina Horn
khorn@tamu.edu
979-845-8505

#### **Grain Sorghum Company Contacts**



Company	Brand	Contact Information	Phone	Email
Advanta Seeds	Alta Seeds	Zachary Eder	979-332-5138	zach.eder@advantaseeds.com
		8600 Freeport Pkwy, Suite 220		
		Irving, TX 75063		
Bayer	DEKALB	Ronald Navarrete	314-694-0431	ronald.navarrete-ganchozo@bayer.co
		800 N. Lindbergh Blvd		
		St. Louis, MO 63167		
Corteva	Pioneer	Slade Price	361-815-8570	slade.price@pioneer.com
		4312 Bratton Road		
		Corpus Christi, TX 78413		
Gayland Ward Seed	Gayland Ward	Carson Ward	806-258-7394	carson@gaylandwardseed.com
		4395 Hwy 60		
		Hereford, TX 79045		
LG Seeds	Golden Acres	Chris Sheppard	254-313-8720	chris.sheppard@lgseeds.com
		205 Old Hewitt Rd		
		Waco, TX 76712		
Nutrien Ag	Dyna-Gro	Cord Willms	361-960-4399	james.willms@nutrien.com
		303 Arguello		
		College Station, TX 77840		
S&W Seed Company	Sorghum Partners	Scott Staggenborg	785-313-3115	scottstaggenborg@swseedco.com
		1309 East 50th Street		
		Lubbock, TX 79404		
Terral Seed, Inc.	REV	Marty Hale	318-231-8800	mhale@terralseed.com
		117 Ellington Dr		
		Rayville, LA 71269		
Wilbur-Ellis Company	Integra	David Ferrell	662-671-9004	dferrell@wilburellis.com
		1111 N. IH 35, Suite 206		
		Round Rock, TX 78664		
Wilbur-Ellis Company	Integra	Bracken Finney	512-517-5456	rfinney@wilburellis.com
		2305 Winthrop Hill Rd		
		Argyle, TX 76226		



### Monte Alto (Full) 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic info	ormation 2/27/2019	Mean C.V. % P>f (hybrid)	1.5	54 3.6 0.000	6 23.4	59.4 33.1	14.5 6.2 0.001	55.3 4.0 0.350	2,157 46.2	
Harvest Date Irrigated	7/11/2019 Yes	L.S.D.		2.8			1.5			
Row Spacing (in) Number of Rows Seeds per Acre N (lb/ac)	Number of Rows  2 Seeds per Acre  80,000  A single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 inph winds and 101 in a single weather event with 601 in a single weather event with						Four replications of each hybrid are planted in a randomized block design. Model: yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter			
P2O5 (lb/ac) K2O (lb/ac) Precipitation (in) Irrigation (in)	55 0 18.18					with Monoso 3300 plot co GrainGage S January 1 th For addition	em units. Plots mbine fitted w	were harvested with a Harvest Masation data was rest date.	vith a JD ster	
Herbicide  1.6 pt/ac Dual & 1.5 lb/ac Atrazine applied pre-emerge		''	Clay loam Conventional; cultivated 4/20			ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505				
		Previous Crop <b>C</b>	Corn							



#### Monte Alto (Limited) 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)			
Agronomic info	3/3/2019 7/10/2019	Mean C.V. % P>f (hybrid) L.S.D.	1.0 0.000	55 2.7 0.000 2.1	26.7	45.6 46.4	14.3 15.6 0.775	55.6 3.7 0.008 3.6	2,620 35.1			
Irrigated Row Spacing (in)	Yes		Trial No			Cooperator: Texas AgriScience						
Number of Rows	2	*A single weathe rain on June 23 c variability within	ontributed to	severe lodging	and high	Four replications of each hybrid are planted in a randomized block design. Model: yield = hybrid blk.						
Seeds per Acre N (lb/ac)	55,000 130	published.	· · ·					SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked				
P2O5 (lb/ac)	55					hybrid. Plots with Monos	were planted em units. Plots	using a SRES Adva were harvested v ith a Harvest Mas	anced planter vith a JD			
K2O (lb/ac) Precipitation (in)	18.18					GrainGage S January 1 th		ation data was re est date.				
Irrigation (in) Herbicide	6	Soil Type C	Clay loam			Dr. Ronnie S ronschnell@	chnell / Katrina tamu.edu / kho	Horn orn@tamu.edu				
1.6 pt/ac Dual & 1.5 lb/ac Atrazine applied pre-emerge		''	Conventional; o	cultivated on 4	/20	9/9-845-293	35 / 979-845-85	U5				
		Previous Crop (	Corn									



### Gregory 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	75	56	7	0	19.1	60.2	6,593
Pioneer	83P73	75	53	4	0	19.1	59.5	6,399
Golden Acres	4880R	74	54	5	0	18.6	61.1	6,334
DEKALB	DKS 54-07	75	56	6	0	18.5	61.1	6,283
DEKALB	DKS 38-16	73	55	5	0	18.2	60.9	6,180
Pioneer	83P27	72	53	5	0	18.0	60.2	6,123
Dyna-Gro	M71GR04	76	50	3	0	17.8	61.3	6,061
Integra	G3665	73	51	6	0	16.8	59.3	6,019
REV	9562	74	49	5	0	17.3	60.3	6,018
DEKALB	DKS 46-60	73	53	8	0	17.6	60.3	6,016
Dyna-Gro	M71GR91	74	54	4	0	17.7	61.3	5,999
Dyna-Gro	GX17457	72	49	4	0	17.5	60.9	5,940
Golden Acres	3020B	74	49	6	0	18.4	59.5	5,935
Dyna-Gro	GX19981	74	50	3	0	19.4	60.5	5,889
Dyna-Gro	GX17973	74	53	6	0	18.5	59.6	5,866
Texas A&M AgriLife Research	ATx631xRTx436	76	54	4	0	20.0	59.2	5,862
Dyna-Gro	M60GB31	74	46	5	0	17.8	61.3	5,798
DEKALB	DKS 53-53	76	52	7	0	18.9	60.7	5,783
Dyna-Gro	M68GB18	76	55	4	0	18.9	59.8	5,770
Dyna-Gro	M73GR55	80	52	3	0	18.9	59.9	5,732
Integra	G3630	73	46	4	0	17.1	60.8	5,721



### Gregory 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M69GR88	74	49	6	0	20.0	59.0	5,709
B-H Genetics	4100	73	46	5	0	18.1	61.1	5,708
Pioneer	84P80	74	49	4	0	19.0	59.6	5,646
REV	9782	72	49	5	0	19.2	59.7	5,618
Integra	G3670	72	49	4	0	19.4	58.7	5,588
Alta Seeds	ADV G2275	75	51	8	0	20.6	59.6	5,569
Texas A&M AgriLife Research	ATx2752xRTx2783	77	49	3	0	18.5	60.2	5,568
REV	9620	72	57	8	0	18.3	59.6	5,440
Texas A&M AgriLife Research	ATx2752xRTx430	73	51	4	0	19.2	59.5	5,426
Dyna-Gro	M62GB77	72	52	7	0	16.6	61.0	5,406
Texas A&M AgriLife Research	ATx378xRTx430	72	57	6	0	16.6	59.0	5,212
DEKALB	DKS 37-07	71	50	5	0	17.1	60.5	5,163
Dyna-Gro	M74GB17	77	50	6	0	19.9	58.8	5,148
Dyna-Gro	M69GB38	75	52	7	0	19.0	59.9	4,684
Sorghum Partners	SP74M21	77	49	8	0	21.7	57.5	4,467
Dyna-Gro	GX18395	75	50	7	0	20.6	58.6	4,372
Alta Seeds	ADV G2106	72	45	7	0	17.1	58.3	3,584

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



### Gregory 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	formation	Mean	74	51	5	0.0	18.5	59.9	5,648
Plant Date	3/13/2019	C.V. %	1.0	2.5	22.8		5.2	1.0	8.4
Plant Date	3/13/2019	P>f (hybrid)	0.000	0.000			0.000	0.000	0.000
Harvest Date	7/9/2019	L.S.D.	1.1	1.8			1.4	0.9	668.3
Irrigated	No		Trial No	otes					
Row Spacing (in)	30	*Applied bifentur	re for headwo	rms and stinkb	ougs at	Cooperato	r: Joel Hoskir	ison	
Number of Rows	2	5 oz/ac *Applied Roundu				Four replications of each hybrid are planted in a			
Seeds per Acre	60,000	*Iron chlorosis w	as observed in		and ratings	randomized block design. Model: yield = hybrid bl SAS 9.4 was used for statistical analysis. LSD provide when hybrid significant at p < 0.05. Yields highlighte			provided
N (lb/ac)	100	taken at flowerin	g			yellow are no	ot statistically c	lifferent from the	e top ranked
P2O5 (lb/ac)	20					with Monose	em units. Plots	using a SRES Adva were harvested v	with a JD
K2O (lb/ac)	0							th a Harvest Mas ation data was re	
Precipitation (in)	11.17	ll .					ough the harve		
Irrigation (in)						Dr. Ronnie So	chnell / Katrina	Horn	
Herbicide		Soil Type C	Clay Ioam				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05	
		Tillage	Chiseled 14" de	eep, field cultiv	ated twice				
		Previous Crop C	Cotton						

# Grain Sorghum Gregory Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield Ib/Acre
Corteva	Pioneer	83P27	5,233	
B-H Genetics	B-H Genetics	4100	4,817	4,726
Bayer	DEKALB	DKS 51-01	4,783	4,920
Nutrien Ag	Dyna-Gro	M60GB31	4,626	4,625
Corteva	Pioneer	83P73	4,597	
Advanta Seeds	Alta Seeds	ADV G2275	4,549	
Bayer	DEKALB	DKS 53-53	4,549	4,752
Wilbur-Ellis Company	Integra	G3630	4,522	4,670
Bayer	DEKALB	DKS 37-07	4,083	4,189
Nutrien Ag	Dyna-Gro	M73GR55	3,895	4,095
Nutrien Ag	Dyna-Gro	M69GB38	3,861	
Nutrien Ag	Dyna-Gro	M74GB17	3,740	3,837
Bayer	DEKALB	DKS 38-16	3,690	4,020
Wilbur-Ellis Company	Integra	G3670	3,409	3,788
Terral Seed, Inc.	REV	9562	3,348	3,767
Terral Seed, Inc.	REV	9782	3,154	3,504
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	2,772	3,234

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.





Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Pioneer	83P27	73	54	3	0	16.8	60.0	7,326
Pioneer	83P73	76	55	3	0	17.1	58.9	7,252
DEKALB	DKS 51-01	74	56	6	0	17.3	59.3	7,136
Integra	G3665	72	54	4	0	15.9	58.0	7,012
Texas A&M AgriLife Research	ATx2752xRTx2783	76	49	1	0	15.7	60.7	6,995
DEKALB	DKS 46-60	74	53	6	0	16.2	60.5	6,913
Integra	G3670	73	49	1	0	15.8	58.6	6,868
Dyna-Gro	GX17973	74	57	5	0	16.6	58.6	6,838
Golden Acres	3020B	74	51	4	0	16.5	59.3	6,807
DEKALB	DKS 54-07	75	54	4	0	17.4	60.0	6,797
Dyna-Gro	M71GR04	75	54	1	0	16.7	60.3	6,768
Gayland Ward	19016	73	53	6	0	16.4	58.1	6,735
Dyna-Gro	M73GR55	78	51	2	0	17.4	59.6	6,703
Dyna-Gro	GX17457	73	52	3	0	16.0	60.3	6,693
REV	9562	73	50	3	0	15.2	59.5	6,670
Dyna-Gro	M69GB38	75	55	8	0	16.1	59.6	6,613
Pioneer	84P80	73	51	2	0	16.7	59.7	6,579
DEKALB	DKS 38-16	71	54	3	0	17.2	59.9	6,576
REV	9620	74	57	6	0	16.7	59.7	6,569
Alta Seeds	ADV G2275	74	51	5	0	20.1	59.2	6,517
Texas A&M AgriLife Research	ATx2752xRTx430	74	52	2	0	16.5	59.0	6,489





Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Texas A&M AgriLife Research	ATx378xRTx430	73	60	3	0	16.0	57.8	6,469
Dyna-Gro	M69GR88	74	50	3	0	17.2	58.6	6,462
REV	9782	72	50	4	0	16.4	59.2	6,449
Dyna-Gro	M68GB18	77	55	3	0	17.0	60.4	6,404
Golden Acres	3960B	72	46	3	0	16.0	57.7	6,385
B-H Genetics	4100	73	46	3	0	16.7	60.2	6,310
Gayland Ward	18083	75	58	6	0	16.7	59.8	6,273
Dyna-Gro	GX19981	75	51	2	0	17.1	60.4	6,266
DEKALB	DKS 53-53	76	52	5	0	16.9	59.9	6,238
Dyna-Gro	M60GB31	73	46	4	0	16.2	60.3	6,222
Dyna-Gro	M71GR91	75	55	2	0	17.0	60.8	6,187
Integra	G3630	73	46	2	0	16.5	59.4	6,102
Gayland Ward	19017	75	54	4	0	16.8	58.4	6,096
Texas A&M AgriLife Research	ATx631xRTx436	77	55	3	0	17.2	59.3	5,873
Gayland Ward	18057	72	49	7	0	18.1	57.2	5,814
Dyna-Gro	M62GB77	71	51	7	0	15.8	60.2	5,760
DEKALB	DKS 37-07	71	50	3	0	15.6	59.9	5,720
Dyna-Gro	M74GB17	76	52	4	0	17.5	59.6	5,599
Gayland Ward	18092	75	47	3	0	17.1	57.8	5,558
Alta Seeds	ADV G2106	72	46	7	0	15.7	59.3	5,552
Gayland Ward	18084	74	57	11	0	17.0	59.9	5,529





Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Sorghum Partners	SP74M21	77	50	6	0	19.1	57.7	5,432
Gayland Ward	19024	75	46	7	0	17.9	58.8	5,082
Gayland Ward	19152	79	48	1	0	16.2	59.6	4,939
Dyna-Gro	GX18395	75	49	4	0	17.9	58.8	4,867





Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	formation	Mean	74	52	4	0.0	16.8	59.3	6,314
Plant Date	3/13/2019	C.V. %	1.1	2.6	25.5		4.7	1.0	6.0
		P>f (hybrid)	0.000	0.000			0.001	0.000	0.000
Harvest Date	7/10/2019	L.S.D.	1.6	2.7			1.6	1.2	759.4
Irrigated	No		Trial No	otes					
Row Spacing (in)	30					Cooperato	or: McNair Fa	rms	
Number of Rows	2	II						brid are planted	
Seeds per Acre	60,000					SAS 9.4 was	used for statist	/lodel : yield = hy ical analysis. LSD	provided
N (lb/ac)		<u> </u>						o < 0.05. Yields hig different from the	
P2O5 (lb/ac)						1		using a SRES Adva were harvested v	· ·
K2O (lb/ac)		II						ith a Harvest Mas ation data was re	
Precipitation (in)	10.58	II				January 1 th	rough the harv	est date.	corded from
Irrigation (in)						Dr. Ronnie S	al information chnell / Katrina	Horn	
Herbicide		Soil Type C	lay				tamu.edu / kh 35 / 979-845-85		
		Tillage					,		
		Previous Crop							
		I Tevious crop				1			

# Grain Sorghum Driscoll Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Corteva	Pioneer	83P27	7,398	
Bayer	DEKALB	DKS 51-01	7,378	6,851
Corteva	Pioneer	83P73	7,293	
Bayer	DEKALB	DKS 53-53	7,239	6,800
Bayer	DEKALB	DKS 38-16	7,090	6,808
Nutrien Ag	Dyna-Gro	M69GB38	7,015	
Nutrien Ag	Dyna-Gro	M73GR55	6,736	6,441
Wilbur-Ellis Company	Integra	G3670	6,708	
Terral Seed, Inc.	REV	9782	6,660	6,279
Golden Acres	Golden Acres	3020B	6,651	
Advanta Seeds	Alta Seeds	ADV G2275	6,613	
Terral Seed, Inc.	REV	9562	6,567	6,628
B-H Genetics	B-H Genetics	4100	6,375	6,401
Golden Acres	Golden Acres	3960B	6,327	6,616
Nutrien Ag	Dyna-Gro	M60GB31	6,315	6,220
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,304	6,052
Wilbur-Ellis Company	Integra	G3630	6,296	
Nutrien Ag	Dyna-Gro	M74GB17	6,185	5,849
Bayer	DEKALB	DKS 37-07	6,101	5,547

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.



#### Damon 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 54-07	76	60	5	0	15.3	58.9	7,220
REV	9562	74	53	4	0	13.7	57.7	7,006
DEKALB	DKS 51-01	75	57	5	0	15.6	59.0	6,997
DEKALB	DKS 46-60	75	57	7	0	14.5	59.5	6,904
Pioneer	84P80	75	52	3	0	14.4	57.4	6,860
Dyna-Gro	M71GR91	77	59	4	0	15.4	59.9	6,844
Dyna-Gro	GX17457	74	54	4	0	14.8	58.6	6,829
DEKALB	DKS 53-53	76	55	5	0	14.4	56.5	6,756
DEKALB	DKS 38-16	74	58	6	0	14.5	59.5	6,752
Dyna-Gro	M69GB38	74	56	7	0	14.7	58.0	6,676
Dyna-Gro	GX17973	74	60	6	0	14.9	58.4	6,587
Dyna-Gro	M71GR04	76	56	3	0	15.6	59.3	6,469
Texas A&M AgriLife Research	ATx2752xRTx2783	76	56	3	0	14.8	60.5	6,383
Golden Acres	4880R	76	57	5	0	16.2	58.6	6,267
Golden Acres	3020B	74	51	4	0	13.0	53.9	6,244
Integra	G3670	73	54	5	0	14.7	56.4	6,231
Integra	G3665	73	54	4	0	14.6	56.9	6,164
Dyna-Gro	M69GR88	73	51	5	0	15.2	58.1	6,024
Dyna-Gro	GX18395	71	51	4	0	15.3	58.1	6,013
Texas A&M AgriLife Research	ATx378xRTx430	73	62	6	0	15.5	56.2	6,013
Texas A&M AgriLife Research	ATx2752xRTx430	74	53	3	0	15.1	55.8	5,996



#### Damon 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9782	74	53	4	0	15.0	58.8	5,995
Dyna-Gro	M68GB18	81	60	4	0	15.7	59.2	5,914
REV	9620	73	57	7	0	14.1	58.0	5,904
Texas A&M AgriLife Research	ATx631xRTx436	77	64	6	0	15.1	56.4	5,878
Dyna-Gro	GX19981	77	55	4	0	16.3	60.0	5,724
Integra	G3630	73	49	3	0	14.2	57.1	5,719
Alta Seeds	ADV G2106	70	48	5	0	14.0	56.4	5,655
Dyna-Gro	M73GR55	81	60	4	0	14.9	58.7	5,625
Dyna-Gro	M62GB77	73	54	6	0	13.2	56.1	5,569
DEKALB	DKS 37-07	71	51	5	0	12.7	53.0	5,439
B-H Genetics	4100	73	50	4	0	14.0	56.4	5,425
Dyna-Gro	M60GB31	74	51	5	0	14.6	56.8	5,373
Dyna-Gro	M74GB17	75	55	4	0	15.6	57.8	5,345
Alta Seeds	ADV G3247	74	55	5	0	15.2	57.8	5,190
Alta Seeds	ADV G2275	76	54	5	0	15.1	57.4	5,044
Sorghum Partners	SP74M21	76	56	6	0	16.5	57.3	4,993

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



#### Damon 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	ormation	Mean	74	55	5	0.0	14.8	57.7	6,109
Plant Date	3/19/2019	C.V. %	2.1	3.8	21.7		7.7	4.1	11.7
		P>f (hybrid) L.S.D.	0.000 2.6	0.000			0.039 2.0	0.218	0.004 1,240.9
Harvest Date	7/22/2019	L.S.D.	2.0	2.9			2.0		1,240.9
Irrigated	No		Trial No	otes					
Row Spacing (in)	40					Cooperato	or: Mikel Brot	hers	
Number of Rows	2	II					,	brid are planted	
Seeds per Acre	65,000					SAS 9.4 was	used for statist	/lodel : yield = hy ical analysis. LSD	provided
N (lb/ac)								0 < 0.05. Yields high different from the	
P2O5 (lb/ac)								using a SRES Adva were harvested v	· ·
K2O (lb/ac)		II						ith a Harvest Mas ation data was re	
Precipitation (in)	33.26	II				January 1 th	rough the harv	est date.	
Irrigation (in)						Dr. Ronnie S	al information o chnell / Katrina	Horn	
Herbicide		Soil Type C	lay				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05	
		Tillage							
		Previous Crop C	otton						

#### Grain Sorghum Damon





Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 51-01	7,280	
Nutrien Ag	Dyna-Gro	M69GB38	7,247	
Bayer	DEKALB	DKS 53-53	7,184	
Terral Seed, Inc.	REV	9562	7,163	
Bayer	DEKALB	DKS 38-16	6,995	
Terral Seed, Inc.	REV	9782	6,827	
Golden Acres	Golden Acres	3020B	6,574	
Wilbur-Ellis Company	Integra	G3670	6,546	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,436	
Nutrien Ag	Dyna-Gro	M73GR55	6,169	
Advanta Seeds	Alta Seeds	ADV G3247	6,095	
Nutrien Ag	Dyna-Gro	M74GB17	5,740	
Wilbur-Ellis Company	Integra	G3630	5,739	
Nutrien Ag	Dyna-Gro	M60GB31	5,719	
Advanta Seeds	Alta Seeds	ADV G2275	5,701	
B-H Genetics	B-H Genetics	4100	5,700	
Bayer	DEKALB	DKS 37-07	5,328	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.



# College Station 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Texas A&M AgriLife Research	ATx2752xRTx2783	83	52	2	0	13.2	62.4	7,928
DEKALB	DKS 54-07	82	55	3	0	13.2	62.3	7,860
Pioneer	84P80	77	52	3	0	13.3	61.9	7,762
Dyna-Gro	M68GB18	83	55	3	0	13.3	61.1	7,755
DEKALB	DKS 53-53	81	52	3	0	13.3	61.9	7,697
B-H Genetics	4100	79	49	5	0	13.3	61.9	7,612
DEKALB	DKS 38-16	77	54	5	0	13.2	62.4	7,537
Texas A&M AgriLife Research	ATx378xRTx430	79	57	4	0	13.1	60.5	7,531
Dyna-Gro	GX17457	79	49	2	0	13.3	61.9	7,388
DEKALB	DKS 46-60	81	51	6	0	13.0	62.0	7,378
Dyna-Gro	M69GR88	80	46	4	0	13.3	60.4	7,299
DEKALB	DKS 51-01	83	52	4	0	12.8	62.0	7,270
Golden Acres	4880R	80	52	4	0	13.3	62.5	7,257
Dyna-Gro	GX19981	81	49	1	0	13.3	62.6	7,226
Dyna-Gro	M71GR91	82	51	2	0	13.1	62.6	7,081
Dyna-Gro	M60GB31	81	47	3	0	13.5	61.3	7,079
Dyna-Gro	GX17973	81	53	5	0	13.0	60.9	7,063
Dyna-Gro	GX18395	79	50	3	0	13.3	61.4	7,060
Gayland Ward	18057	79	49	6	0	13.4	60.3	7,047
Integra	G3665	81	48	2	0	12.6	60.8	6,957
REV	9782	80	50	3	0	13.0	62.2	6,879



### College Station 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M69GB38	81	52	5	0	13.1	62.0	6,857
Dyna-Gro	M62GB77	79	50	7	0	13.3	61.9	6,817
Integra	G3630	80	50	3	0	13.5	60.9	6,815
REV	9620	80	56	6	0	13.1	61.8	6,815
Dyna-Gro	M71GR04	83	53	2	0	13.4	62.6	6,782
Integra	G3670	79	54	4	0	13.3	60.6	6,705
Texas A&M AgriLife Research	ATx2752xRTx430	81	53	3	0	13.3	60.2	6,675
DEKALB	DKS 37-07	76	53	5	0	13.7	61.7	6,630
REV	9562	81	50	4	0	13.0	61.7	6,613
Dyna-Gro	M73GR55	89	53	2	0	13.2	60.2	6,431
Sorghum Partners	SP74M21	83	52	4	0	14.0	59.7	6,066
Alta Seeds	ADV G2275	81	50	5	0	14.0	60.7	5,852
Dyna-Gro	M74GB17	86	52	3	0	13.4	61.0	5,836
Alta Seeds	ADV G2106	77	49	6	0	13.1	62.0	5,672
Texas A&M AgriLife Research	ATx631xRTx436	88	54	5	0	13.3	60.9	5,489

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



# College Station 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	formation	Mean	81	51	4	0.0	13.3	61.5	6,965
Plant Date	3/26/2019	C.V. %	2.5	5.0	46.0		2.2	1.0	9.7
Fiant Date	3/20/2019	P>f (hybrid)	0.000	0.000			0.000	0.000	0.000
Harvest Date	8/8/2019	L.S.D.	2.8	3.6			0.4	0.9	943.4
Irrigated	Yes		Trial No	otes					
Row Spacing (in)	30	*4lb/ac Zn applie	d at planting			Cooperato	r: Texas A&N	1 AgriLife Resea	irch
Number of Rows	2	*4lb/ac Zn applied at planting *No irrigation was applied as rainfall was sufficient				Four replications of each hybrid are planted in a			
Seeds per Acre	80,000					SAS 9.4 was	used for statist	/lodel : yield = hy ical analysis. LSD	provided
N (lb/ac)	150					yellow are no	ot statistically o	0 < 0.05. Yields high different from the	e top ranked
P2O5 (lb/ac)	56					with Monose	em units. Plots	using a SRES Adva were harvested v	vith a JD
K2O (lb/ac)	0							ith a Harvest Mas ation data was re	
Precipitation (in)	30.1	ll .					rough the harve		
Irrigation (in)	0					Dr. Ronnie So	chnell / Katrina	Horn	
Herbicide		Soil Type C	lay				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05	
1.66 pt/ac Dual + 3 pt/ac pre-emerge	Atrazine applied	Tillage S	hred and diske	ed		373 013 233	3,3,3 6.3 63		
		Previous Crop C	otton						

# Grain Sorghum College Station Multi-Year Summary



Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
REV	9562	6,937	7,037
Texas A&M AgriLife Research	ATx378xRTx430	6,932	7,218
DEKALB	DKS 51-01	6,786	7,243
DEKALB	DKS 38-16	6,732	7,154
DEKALB	DKS 53-53	6,720	6,734
Dyna-Gro	M60GB31	6,668	7,032
Dyna-Gro	M69GB38	6,615	
B-H Genetics	4100	6,582	6,905
Integra	G3630	6,471	
Dyna-Gro	M73GR55	6,354	6,581
Integra	G3670	6,149	
REV	9782	6,042	6,369
Dyna-Gro	M74GB17	5,927	6,461
DEKALB	DKS 37-07	5,869	6,121
	REV Texas A&M AgriLife Research DEKALB DEKALB DEKALB Dyna-Gro Dyna-Gro B-H Genetics Integra Dyna-Gro Integra REV Dyna-Gro	REV       9562         Texas A&M AgriLife Research       ATx378xRTx430         DEKALB       DKS 51-01         DEKALB       DKS 38-16         DEKALB       DKS 53-53         Dyna-Gro       M60GB31         Dyna-Gro       M69GB38         B-H Genetics       4100         Integra       G3630         Dyna-Gro       M73GR55         Integra       G3670         REV       9782         Dyna-Gro       M74GB17	AVG Yield Ib/Acre           REV         9562         6,937           Texas A&M AgriLife Research         ATx378xRTx430         6,932           DEKALB         DKS 51-01         6,786           DEKALB         DKS 38-16         6,732           DEKALB         DKS 53-53         6,720           Dyna-Gro         M60GB31         6,668           Dyna-Gro         M69GB38         6,615           B-H Genetics         4100         6,582           Integra         G3630         6,471           Dyna-Gro         M73GR55         6,354           Integra         G3670         6,149           REV         9782         6,042           Dyna-Gro         M74GB17         5,927

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.





Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX17457	81	54	2	0	13.3	60.6	8,147
Integra	G3665	80	54	4	0	13.5	58.2	7,569
DEKALB	DKS 38-16	81	55	5	0	13.3	61.3	7,456
Pioneer	84P80	82	53	2	0	13.3	60.6	7,174
DEKALB	DKS 54-07	84	56	3	0	13.3	61.4	6,924
Dyna-Gro	M69GR88	85	51	4	0	13.6	59.3	6,923
Gayland Ward	18057	83	52	8	0	14.2	59.2	6,709
Dyna-Gro	GX17973	85	59	6	0	13.1	59.7	6,674
B-H Genetics	4100	85	52	3	0	13.0	61.0	6,662
REV	9620	83	60	6	0	13.6	60.2	6,429
Dyna-Gro	M62GB77	83	53	5	0	13.1	61.4	6,239
REV	9562	86	52	3	0	14.2	60.4	6,154
Dyna-Gro	M60GB31	86	51	4	0	14.1	60.3	6,148
REV	9782	84	53	5	0	13.8	60.6	6,063
DEKALB	DKS 53-53	84	55	3	0	14.2	60.2	6,021
Texas A&M AgriLife Research	ATx378xRTx430	83	62	6	0	13.8	58.5	5,970
Sorghum Partners	SP68M57	81	50	3	0	14.0	60.3	5,965
Dyna-Gro	M68GB18	89	60	3	0	13.4	58.9	5,940
Texas A&M AgriLife Research	ATx2752xRTx2783	86	53	2	0	13.6	60.4	5,916
Dyna-Gro	GX19981	86	50	2	0	13.4	61.1	5,874
DEKALB	DKS 51-01	85	56	5	0	13.8	60.0	5,813





Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 46-60	86	52	5	0	13.2	59.6	5,774
Dyna-Gro	M60GB88	79	50	5	0	13.9	59.4	5,698
DEKALB	DKS 37-07	79	52	4	0	13.9	60.9	5,636
Dyna-Gro	GX18395	82	53	5	0	13.4	60.5	5,623
Dyna-Gro	M71GR04	89	55	2	0	13.6	60.6	5,395
Golden Acres	3960B	82	51	3	0	13.7	60.0	5,343
Texas A&M AgriLife Research	ATx2752xRTx430	85	55	2	0	13.4	59.9	5,311
Integra	G3670	84	54	2	0	13.9	59.1	5,285
Integra	G3630	82	51	3	0	13.5	59.9	5,279
Alta Seeds	ADV G2275	84	51	4	0	15.3	59.2	5,068
Dyna-Gro	M71GR91	88	55	3	0	13.6	60.6	5,055
Sorghum Partners	SP73B12	85	52	5	0	14.3	59.6	5,052
Dyna-Gro	M69GB38	87	57	7	0	14.0	59.4	5,041
Alta Seeds	ADV G2106	77	48	5	0	13.6	59.5	4,682
Golden Acres	3020B	84	49	3	0	14.6	59.3	4,422
Texas A&M AgriLife Research	ATx631xRTx436	90	60	5	0	15.4	58.9	4,129
Dyna-Gro	M74GB17	88	55	3	0	13.4	59.1	4,049
Sorghum Partners	SP7715	89	55	5	0	16.6	58.6	3,644
Dyna-Gro	M73GR55	91	60	4	0	13.1	57.7	3,577
Sorghum Partners	SP74M21	87	55	7	0	15.3	54.4	3,129

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.





Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	ormation	Mean	84	54	4	0.0	13.8	59.7	5,706
Plant Date	3/26/2019	C.V. %	2.8	5.0	37.2		5.9	2.1	15.0
Plant Date	3/20/2019	P>f (hybrid)	0.000	0.000			0.001	0.000	0.000
Harvest Date	8/19/2019	L.S.D.	3.3	3.8			1.3	2.0	1,354.0
Irrigated	No		Trial No	otes					
Row Spacing (in)	30	15 lb/ac Sulfur ap	plied at planti	ing		Cooperato	r: Stiles Farm	Foundation	
Number of Rows	2							brid are planted	
Seeds per Acre	65,000					SAS 9.4 was	used for statist	1odel : yield = hy ical analysis. LSD	provided
N (lb/ac)	150					yellow are no	ot statistically o	< 0.05. Yields hig lifferent from the	e top ranked
P2O5 (lb/ac)	30							using a SRES Adva were harvested v	· ·
K2O (lb/ac)	40							th a Harvest Mas ation data was re	
Precipitation (in)	25.88					1	ough the harve		
Irrigation (in)						Dr. Ronnie So	chnell / Katrina	Horn	
Herbicide		Soil Type C	lay				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05	
1 qt/ac Atrazine + 1.33 pt Roundup + 2 oz/ac Sharpe emerge. 14 oz/ac Outlook	en applied pre-	Tillage					,		
		Previous Crop So	esame						

# Grain Sorghum Thrall Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 38-16	5,336	5,085
Nutrien Ag	Dyna-Gro	M60GB31	5,000	4,795
Terral Seed, Inc.	REV	9782	4,979	4,368
B-H Genetics	B-H Genetics	4100	4,939	4,811
Bayer	DEKALB	DKS 37-07	4,731	4,322
Terral Seed, Inc.	REV	9562	4,517	4,224
Bayer	DEKALB	DKS 53-53	4,417	4,582
Golden Acres	Golden Acres	3960B	4,411	4,443
Wilbur-Ellis Company	Integra	G3630	4,341	4,463
Bayer	DEKALB	DKS 51-01	4,250	4,569
Advanta Seeds	Alta Seeds	ADV G2275	4,208	
Wilbur-Ellis Company	Integra	G3670	4,149	4,395
Nutrien Ag	Dyna-Gro	M69GB38	4,137	
S&W Seed Company	Sorghum Partners	SP73B12	3,975	4,178
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	3,962	3,715
Golden Acres	Golden Acres	3020B	3,784	
Nutrien Ag	Dyna-Gro	M74GB17	3,364	3,443
Nutrien Ag	Dyna-Gro	M73GR55	2,714	3,167

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.



# Hill County 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 54-07	73	60	7	0	16.1	59.8	6,203
Pioneer	84P80	71	55	6	0	14.7	59.4	6,053
Dyna-Gro	GX17973	72	60	8	0	12.6	56.0	6,032
Dyna-Gro	GX17457	70	54	4	0	14.3	60.3	5,862
Dyna-Gro	M71GR04	76	53	4	0	14.7	59.4	5,824
Dyna-Gro	M69GR88	74	51	6	0	15.3	58.6	5,789
Texas A&M AgriLife Research	ATx378xRTx430	72	64	8	0	15.1	58.5	5,665
Dyna-Gro	M60GB31	72	54	5	0	14.4	59.7	5,626
Integra	G3665	72	55	5	0	13.8	56.5	5,569
Golden Acres	3020B	73	52	6	0	14.2	58.9	5,447
Dyna-Gro	M68GB18	73	56	5	0	15.1	59.7	5,431
Dyna-Gro	M69GB38	74	57	6	0	16.1	58.2	5,422
Dyna-Gro	M71GR91	74	56	4	0	15.1	60.4	5,406
Golden Acres	4880R	74	59	5	0	15.3	60.5	5,354
Integra	G3670	71	52	4	0	15.2	57.6	5,320
DEKALB	DKS 51-01	75	56	7	0	14.1	57.9	5,254
REV	9562	72	52	7	0	14.2	58.9	5,200
REV	9782	72	49	5	0	14.2	58.6	5,129
REV	9620	74	57	7	0	14.7	59.1	5,103
DEKALB	DKS 46-60	73	53	9	0	15.4	59.5	5,059
DEKALB	DKS 53-53	74	57	5	0	16.7	59.1	5,015



## Hill County 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 38-16	70	56	8	0	15.5	59.8	4,962
Dyna-Gro	M62GB77	70	56	10	0	14.6	59.4	4,949
Dyna-Gro	M73GR55	79	54	2	0	15.8	58.7	4,919
Texas A&M AgriLife Research	ATx2752xRTx2783	76	50	3	0	14.8	59.3	4,805
Integra	G3630	71	53	6	0	14.8	58.8	4,783
Sorghum Partners	SP74M21	77	50	6	0	17.9	57.0	4,778
Texas A&M AgriLife Research	ATx2752xRTx430	74	53	5	0	14.8	58.3	4,748
Dyna-Gro	M60GB88	70	50	5	0	14.8	59.0	4,747
Texas A&M AgriLife Research	ATx631xRTx436	77	58	6	0	15.4	59.3	4,723
Dyna-Gro	GX18395	73	54	7	0	15.8	57.9	4,714
B-H Genetics	4100	73	54	6	0	14.5	58.4	4,697
Alta Seeds	ADV G2275	73	55	8	0	17.3	57.4	4,673
Gayland Ward	18057	70	54	10	0	15.1	57.7	4,659
Dyna-Gro	M74GB17	75	54	4	0	15.6	57.9	4,632
DEKALB	DKS 37-07	71	53	8	0	14.2	59.1	4,543
Alta Seeds	ADV G2106	71	49	7	0	15.2	57.6	4,540
Dyna-Gro	GX19981	74	52	4	0	15.2	58.2	4,462

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



# Hill County 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic inf	ormation	Mean	73	54	6	0.0	15.1	58.7	5,160	
Plant Date	4/23/2019	C.V. %	1.9	5.7	28.3		7.2	2.2	14.2	
Flair Date	4/23/2019	P>f (hybrid)	0.000	0.000			0.000	0.000	0.016	
Harvest Date	8/23/2019	L.S.D.	2.0	4.3			1.5	1.8	1,025.6	
Irrigated	No		Trial Notes							
Row Spacing (in)	30	*8 oz/ac Besiege	*8 oz/ac Besiege applied aerially on 7/8.			Cooperato	r: Josh Birdw	ell		
Number of Rows	2		oz/ac besiege applied aerially on 7/6.				Four replications of each hybrid are planted in a			
Seeds per Acre	65,000					randomized block design. Model: yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in			provided	
N (lb/ac)	90					yellow are no	ot statistically o	lifferent from the	e top ranked	
P2O5 (lb/ac)	27							using a SRES Adva were harvested v	· ·	
K2O (lb/ac)	0							ith a Harvest Mas ation data was re		
Precipitation (in)	25.99						ough the harve			
Irrigation (in)						Dr. Ronnie So	chnell / Katrina	Horn		
Herbicide		Soil Type C	lay				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05		
20 oz/ac Medal + 1 qt/ac planting. 12.8 oz/ac Husk 5/28		Tillage	onventional				-, 3.3 3.3 30			
		Previous Crop C	orn							



# Greenville 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Pioneer	84P80	87	46	4	0	12.8	61.0	5,751
Texas A&M AgriLife Research	ATx2752xRTx2783	92	50	5	0	12.7	61.0	5,610
B-H Genetics	4100	89	46	7	0	12.7	60.0	5,432
Dyna-Gro	M71GR04	91	51	5	0	13.2	59.3	5,400
Dyna-Gro	GX17457	89	46	4	0	11.5	58.7	5,320
DEKALB	DKS 46-60	87	50	8	0	12.7	60.4	5,273
REV	9620	88	53	9	0	12.7	60.0	5,224
Golden Acres	4880R	88	54	6	0	12.8	61.5	5,187
Dyna-Gro	M60GB88	83	45	5	0	12.2	59.8	5,101
DEKALB	DKS 51-01	88	54	7	0	12.6	60.1	5,094
REV	9562	87	46	6	0	12.5	59.5	5,030
DEKALB	DKS 54-07	89	53	7	0	12.4	60.3	4,919
DEKALB	DKS 37-07	84	47	7	0	12.8	61.1	4,913
REV	9782	86	45	5	0	12.9	60.0	4,889
Dyna-Gro	GX17973	88	51	6	0	12.3	60.0	4,850
Texas A&M AgriLife Research	ATx378xRTx430	90	55	6	0	12.2	59.1	4,750
Texas A&M AgriLife Research	ATx2752xRTx430	91	49	6	0	12.7	59.8	4,730
Dyna-Gro	M74GB17	90	51	7	0	12.5	59.8	4,682
DEKALB	DKS 38-16	84	50	7	0	12.5	59.2	4,571
Dyna-Gro	M69GR88	94	46	6	0	12.9	58.8	4,559
Sorghum Partners	SP74M21	88	48	7	0	13.0	58.3	4,540



## Greenville 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M62GB77	87	51	8	0	12.8	61.2	4,526
Dyna-Gro	M71GR91	89	52	6	0	12.3	60.8	4,362
Dyna-Gro	GX18395	85	49	6	0	12.7	60.5	4,287
Alta Seeds	ADV G2275	86	48	8	0	12.7	60.1	4,263
Dyna-Gro	GX19981	87	48	4	0	12.2	59.8	4,250
Gayland Ward	18057	89	47	7	0	11.8	57.6	4,248
Golden Acres	3020B	85	46	5	0	12.0	59.0	4,150
Dyna-Gro	M68GB18	93	53	5	0	12.4	59.6	4,150
Texas A&M AgriLife Research	ATx631xRTx436	92	55	6	0	12.7	60.5	4,139
Dyna-Gro	M69GB38	89	53	9	0	12.6	60.0	4,079
Dyna-Gro	M60GB31	90	46	6	0	12.4	59.2	4,003
DEKALB	DKS 53-53	90	51	7	0	12.2	58.5	3,948
Dyna-Gro	M73GR55	96	55	4	0	11.8	58.9	3,357
Alta Seeds	ADV G2106	86	42	5	0	12.1	59.4	3,264

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



# Greenville 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Agronomic inf	ormation	Mean	88	49	6	0.0	12.5	59.8	4,653
Plant Date	3/28/2019	C.V. %		3.8	25.5		5.1	2.1	15.5
		P>f (hybrid)		0.000			0.322	0.023	0.000
Harvest Date	8/21/2019	L.S.D.	4.1	2.7				1.9	1,086.8
Irrigated	No		Trial No	otes					
Row Spacing (in)	30		That Notes			Cooperato	r: Texas A&N	/I Commerce	
Number of Rows	2	ll .						brid are planted	
Seeds per Acre	65,000					SAS 9.4 was	used for statist	/lodel : yield = hy ical analysis. LSD	provided
N (lb/ac)	150					yellow are no	ot statistically o	0 < 0.05. Yields high different from the	top ranked
P2O5 (lb/ac)	10							using a SRES Adva were harvested v	· ·
K2O (Ib/ac)	2							ith a Harvest Mas ation data was re	
Precipitation (in)	32.88	ll .				January 1 thi	rough the harve al information (	est date.	
Irrigation (in)						Dr. Ronnie S	chnell / Katrina	Horn	
Herbicide		Soil Type	Clay				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05	
Roundup & Atrazine at pla when plants 10".	anting. Atrazine	Tillage	Disked & field o	cultivated			,		
		Previous Crop (	Corn						

# Grain Sorghum Greenville Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 51-01	5,964	6,700
Terral Seed, Inc.	REV	9782	5,813	6,218
Terral Seed, Inc.	REV	9562	5,676	6,200
B-H Genetics	B-H Genetics	4100	5,642	6,438
Bayer	DEKALB	DKS 38-16	5,532	6,355
Nutrien Ag	Dyna-Gro	M74GB17	5,439	6,271
Bayer	DEKALB	DKS 37-07	5,377	6,058
Golden Acres	Golden Acres	3020B	5,372	
Nutrien Ag	Dyna-Gro	M69GB38	5,319	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,095	5,922
Advanta Seeds	Alta Seeds	ADV G2275	5,053	
Nutrien Ag	Dyna-Gro	M60GB31	5,032	5,868
Bayer	DEKALB	DKS 53-53	5,007	5,644
Nutrien Ag	Dyna-Gro	M73GR55	4,662	5,282

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.



# Plainview 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Pioneer	84P80	67	46	2	0	13.5	59.4	8,148
Dyna-Gro	M71GR91	68	54	2	0	13.6	60.5	7,967
Dyna-Gro	M69GR88	69	50	5	0	13.0	57.4	7,884
Golden Acres	4880R	69	53	2	0	13.3	60.6	7,883
Golden Acres	3020B	67	47	3	0	12.8	58.6	7,811
DEKALB	DKS 54-07	71	51	3	0	13.1	59.6	7,781
DEKALB	DKS 46-60	67	49	5	0	13.8	60.2	7,577
DEKALB	DKS 51-01	69	52	4	0	13.2	58.5	7,556
Dyna-Gro	GX17973	69	50	3	0	13.2	57.6	7,514
Alta Seeds	ADV G3247	69	51	3	0	12.6	58.9	7,439
DEKALB	DKS 53-53	69	48	2	0	13.0	58.4	7,351
REV	9620	69	54	3	0	13.1	58.4	7,165
Dyna-Gro	GX19981	68	47	2	0	13.8	59.8	7,162
Dyna-Gro	GX17457	67	49	1	0	12.3	58.8	7,160
Dyna-Gro	M68GB18	68	57	2	0	14.0	59.4	7,085
DEKALB	DKS 38-16	65	46	2	0	13.3	59.6	7,079
Alta Seeds	ADV G2275	66	47	5	0	15.5	59.0	6,959
B-H Genetics	4100	67	46	4	0	13.5	58.7	6,885
Dyna-Gro	M69GB38	67	48	6	0	13.4	58.4	6,872
Alta Seeds	ADV G2106	59	42	3	0	13.1	57.0	6,679
DEKALB	DKS 37-07	61	45	2	0	13.4	58.1	6,606



# Plainview 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9924	69	52	0	0	12.6	57.9	6,571
Dyna-Gro	GX18395	65	46	3	0	14.2	58.8	6,553
Texas A&M AgriLife Research	ATx378xRTx430	68	56	3	0	12.7	56.2	6,349
Texas A&M AgriLife Research	ATx631xRTx436	71	53	2	0	13.7	57.7	6,325
Dyna-Gro	M71GR04	69	56	2	0	13.8	59.9	6,282
Dyna-Gro	M62GB77	63	46	3	0	13.5	58.8	6,272
Dyna-Gro	M74GB17	67	49	2	0	14.3	58.7	6,249
Dyna-Gro	M60GB31	64	46	2	0	13.2	58.9	6,212
Texas A&M AgriLife Research	ATx2752xRTx2783	70	52	2	0	13.4	59.3	6,038
Texas A&M AgriLife Research	ATx2752xRTx430	70	47	1	0	13.5	56.7	6,013
Sorghum Partners	SP74M21	69	51	5	0	14.6	58.2	5,985
Dyna-Gro	M60GB88	61	45	3	0	13.5	56.2	5,696

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



# Plainview 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic inf	formation	Mean C.V. %	67 3.1	49 5.2	3 52.0	0.0	13.4 5.3	58.6 1.5	6,943 9,2	
Plant Date	5/16/2019	P>f (hybrid)	0.000	0.000	32.0		0.000	0.000	0.000	
Harvest Date	9/26/2019	L.S.D.	2.9	3.6			1.0	1.3	903.7	
Irrigated	Yes		Trial Notes							
Row Spacing (in)	40	*4" rain preplant	rain preplant. Field irrigated twice during growing				or: Don Mach	a		
Number of Rows	2	season.					Four replications of each hybrid are planted in a			
Seeds per Acre	55,000						randomized block design. Model : yield = hybrid blk.  SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in			
N (lb/ac)	60					yellow are no	ot statistically o	different from the	e top ranked	
P2O5 (lb/ac)	0							using a SRES Adva were harvested v	· ·	
K2O (lb/ac)	0							ith a Harvest Mas ation data was re		
Precipitation (in)	18.61	ll .				January 1 thi	rough the harve al information o	est date.		
Irrigation (in)	8					Dr. Ronnie So	chnell / Katrina	Horn		
Herbicide		Soil Type C	lay loam				tamu.edu / kho 5 / 979-845-85	orn@tamu.edu 05		
1.25 lb/ac Atraine after p Prowl at lay by.	lanting. 1.5 pt/ac	Tillage	onventional							
		Previous Crop F	allow							

# Grain Sorghum Plainview Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Advanta Seeds	Alta Seeds	ADV G3247	7,094	
Golden Acres	Golden Acres	3020B	7,014	
Nutrien Ag	Dyna-Gro	M69GB38	6,993	
Bayer	DEKALB	DKS 51-01	6,946	6,468
Bayer	DEKALB	DKS 53-53	6,941	5,677
Bayer	DEKALB	DKS 38-16	6,894	6,368
B-H Genetics	B-H Genetics	4100	6,699	6,458
Bayer	DEKALB	DKS 37-07	6,647	6,345
Nutrien Ag	Dyna-Gro	M60GB31	6,524	6,268
Nutrien Ag	Dyna-Gro	M74GB17	6,389	5,774
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,238	5,725
Advanta Seeds	Alta Seeds	ADV G2275	6,171	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.



# Sunray 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 54-07	71	56	6	0	12.4	56.2	7,844
Dyna-Gro	M60GB31	67	49	5	0	12.6	54.9	7,437
B-H Genetics	4100	67	51	5	0	11.6	54.4	7,303
Alta Seeds	ADV G3247	71	53	6	0	11.6	54.6	7,130
Dyna-Gro	M71GR91	70	55	5	0	13.4	57.5	7,101
Golden Acres	4880R	69	56	6	0	13.4	57.4	7,058
DEKALB	DKS 46-60	67	50	8	0	12.0	55.2	7,024
Dyna-Gro	M62GB77	65	48	7	0	11.4	54.8	7,009
Dyna-Gro	M69GR88	72	50	4	0	13.8	53.3	6,993
Dyna-Gro	GX17457	70	51	2	0	11.1	54.3	6,986
Dyna-Gro	M68GB18	72	56	4	0	13.1	54.8	6,913
Dyna-Gro	GX17973	70	56	5	0	10.1	51.2	6,876
DEKALB	DKS 53-53	71	50	6	0	12.5	54.8	6,775
Pioneer	84P80	71	51	2	0	11.7	55.1	6,773
Dyna-Gro	GX19981	70	49	4	0	13.2	57.3	6,753
Dyna-Gro	M60GB88	66	48	5	0	11.4	54.1	6,733
Dyna-Gro	GX18395	67	51	5	0	12.9	55.1	6,698
Alta Seeds	ADV G2275	70	53	6	0	14.5	56.3	6,663
Golden Acres	3020B	67	50	6	0	12.3	54.1	6,638
Dyna-Gro	M71GR04	71	56	1	0	11.1	53.4	6,579
DEKALB	DKS 37-07	66	47	4	0	11.2	54.0	6,541



# Sunray 2019 Grain Sorghum Performance Trial



Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Sorghum Partners	SP74M21	72	50	6	0	11.6	53.9	6,522
Alta Seeds	ADV G2106	67	48	5	0	11.6	54.8	6,496
Dyna-Gro	M69GB38	70	54	7	0	11.8	53.9	6,440
Texas A&M AgriLife Research	ATx2752xRTx2783	72	55	2	0	12.1	54.3	6,335
REV	9620	72	55	5	0	12.5	52.6	6,296
DEKALB	DKS 38-16	66	50	6	0	11.3	54.9	6,143
Dyna-Gro	M74GB17	70	53	4	0	11.8	53.7	6,067
DEKALB	DKS 51-01	68	52	6	0	10.2	54.4	5,759
REV	9924	73	56	3	0	10.4	51.9	5,652
Texas A&M AgriLife Research	ATx2752xRTx430	71	49	3	0	11.8	53.4	5,648
Texas A&M AgriLife Research	ATx378xRTx430	69	58	4	0	11.3	52.7	5,583
Texas A&M AgriLife Research	ATx631xRTx436	72	56	5	0	13.3	53.1	4,870

<sup>\*</sup>Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



# Sunray 2019 Grain Sorghum Performance Trial



Brand	Hybrid		Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic information		Mean	69	52	5	0.0	12.0	54.4	6,595	
Plant Date	6/25/2019	C.V. %	1.2	4.0	27.7		10.1	2.3	7.9	
Harvest Date	10/23/2019	P>f (hybrid) L.S.D.	0.000	0.000 3.0	0.000		0.000	0.000	0.000 732.3	
Irrigated	No		Trial No	otes						
Row Spacing (in)	30	11141110123			Cooperator: Lone Star Family Farms					
Number of Rows	2	ll .						brid are planted		
Seeds per Acre	40,000					SAS 9.4 was	used for statist	odel : yield =  hyاical analysis.  LSD	provided	
N (lb/ac)								0 < 0.05. Yields high different from the		
P2O5 (lb/ac)						hybrid. Plots	were planted i	using a SRES Adva were harvested v	anced planter	
K2O (lb/ac)						3300 plot co	mbine fitted w	ith a Harvest Mas ation data was re	ster	
Precipitation (in)	26.38	ll .				January 1 th	ough the harve	est date.	corded from	
Irrigation (in)							al information o chnell / Katrina			
Herbicide	Herbicide		Soil Type Silty clay loam				ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505			
		Tillage				373 313 233	3, 3, 3 6 13 63			
		ll l								
		Previous Crop								

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#### LITERATURE CITED

1. National Weather Service, Advanced Hydrological Prediction Service http://water.weather.gov/precip/index.php

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