TEXAS A&M AGRILIFE

SCS-2020-12

2020 Texas Grain Sorghum Performance Variety Trials

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The Texas A&M University Systems

2020 TEXAS GRAIN SORGHUM PERFORMANCE VARIETY TRIALS

By

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TABLE OF CONTENTS

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Ronnie Schnell, Katrina Horn, Ethan Biar, and W. L. Rooney

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 2020 test sites are shown in Figure 1. A total of 302 entries were evaluated across 12 locations representing 46 unique hybrids from 8 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: http://varietytesting.tamu.edu/grainsorghum/.

Suggestions for Selecting Hybrids and Varieties

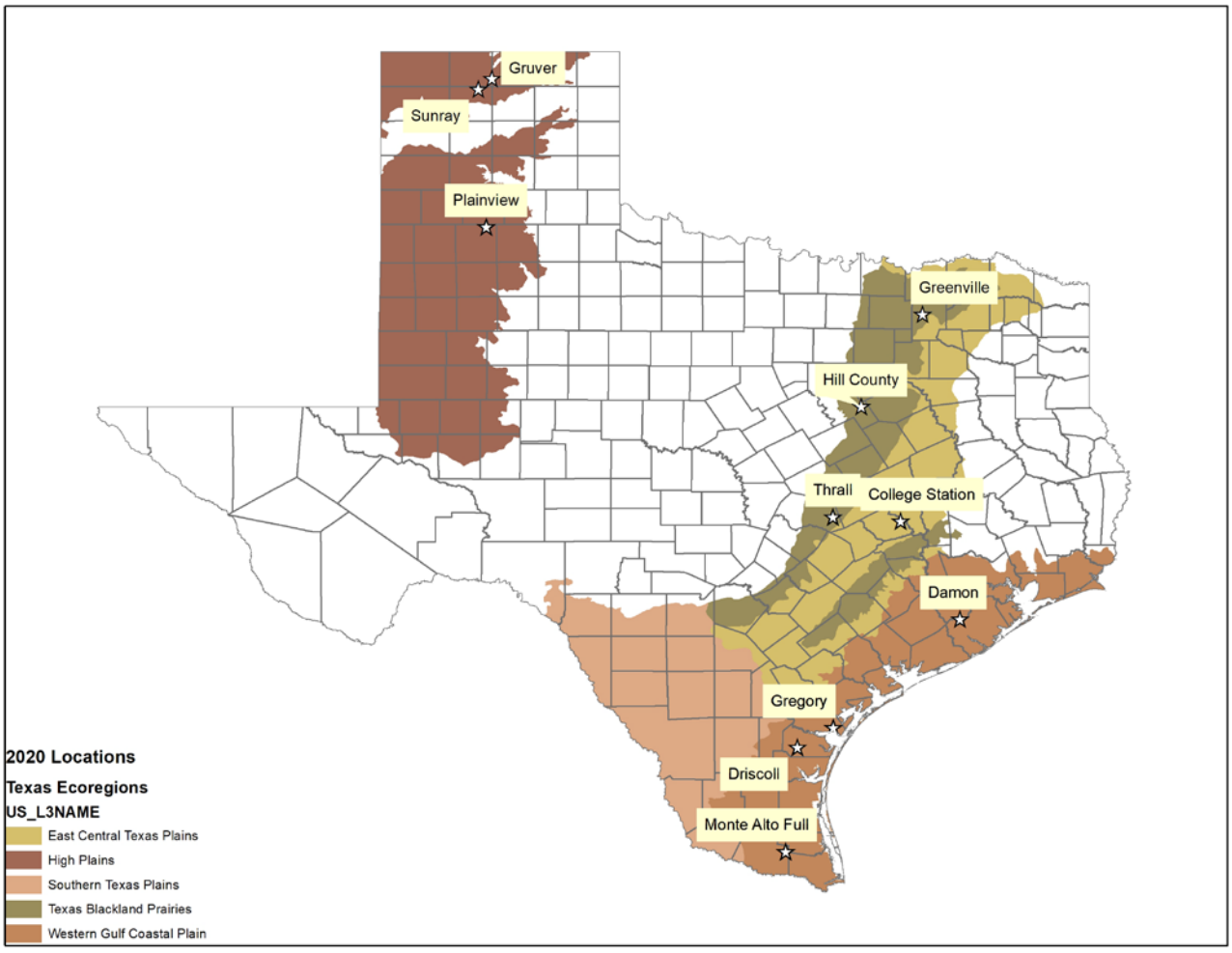
Variety or hybrid selection is often the first decision a grower must make each crop year. The goal is to identify hybrids with superior performance (top yielding) for your environment. Many environments exist in Texas with significant variation within regions and across years, mostly due to variation 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 (https://sorghumgrowers.com/). 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. 2020 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 2020 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:

Days to 50% Flowering: 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.

Plant Height: the average height in inches from ground to tip of the panicle.

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

Grain Moisture: the average moisture at harvest as a percent (%).

Test Weight: 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.

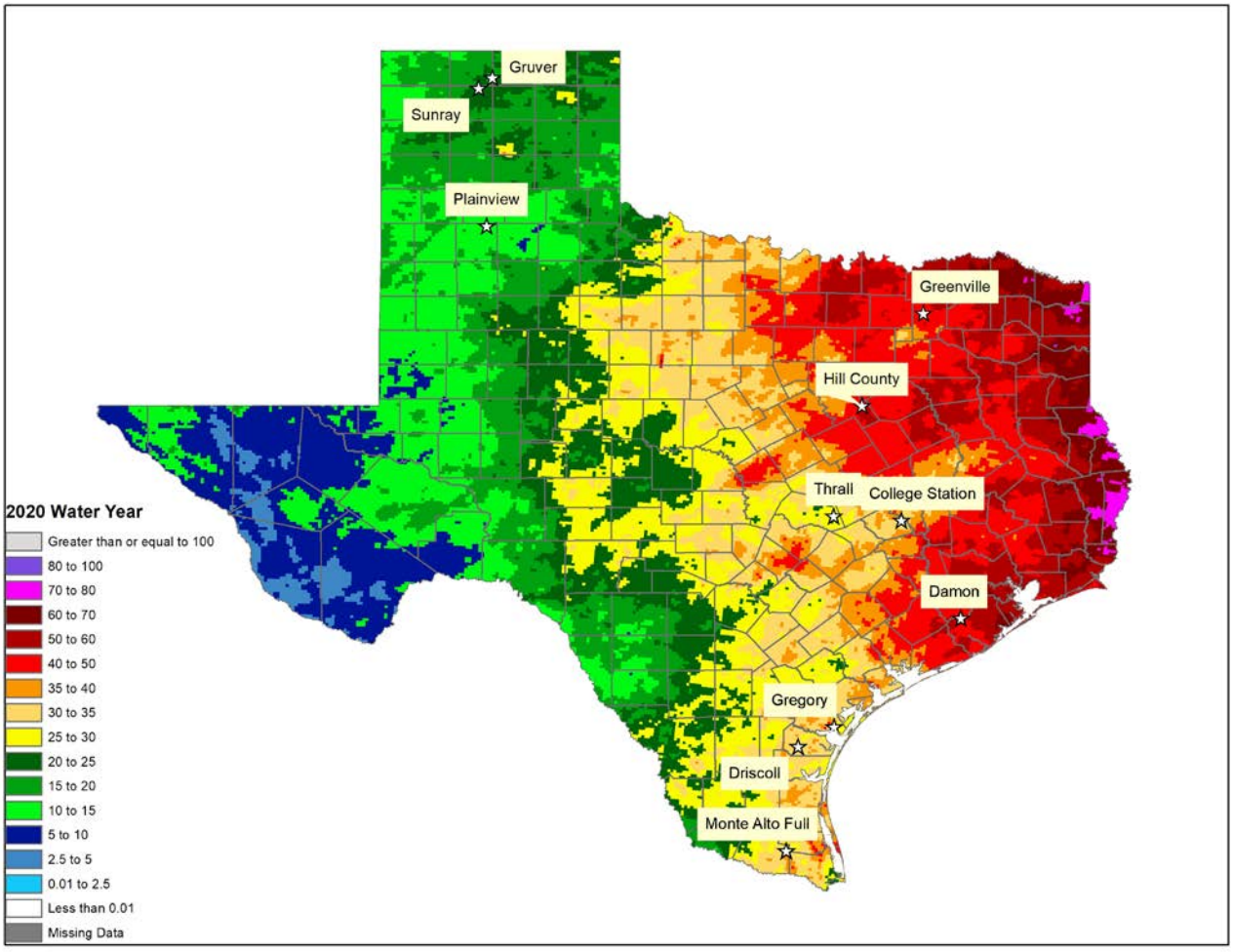
Yield: Standardized to 14% moisture: expressed in pounds per acre (lb/acre) and calculated using [((100 – moisture (%) /86) * yield (lb/acre)].

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. 2020 Precipitation (October 1, 2019 –September 30, 2020) precipitation in inches



2020 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Advanta Seeds	Alta Seeds	ADV G2275	Bronze	Purple	Medium
Bayer	DEKALB	DKS 46-60	Bronze	Purple	Medium
Bayer	DEKALB	DKS 54-07	Red	Purple	Medium-Late
Bayer	DEKALB	DKS 45-60	Bronze	Purple	Medium
Bayer	DEKALB	DKS 44-07	Red	Purple	Medium
Bayer	DEKALB	DKS 36-07	Bronze	Purple	Medium-Early
Corteva	Pioneer	83P27	Red	Purple	Medium-Early
Corteva	Pioneer	82P83	Red	Purple	Late
Corteva	Pioneer	83G19			Medium-Late
Corteva	Pioneer	83P11	Red	Red	Medium
Gayland Ward Seed	Gayland Ward	19017	Bronze	Purple	Medium
Gayland Ward Seed	Gayland Ward	19016	Bronze	Purple	Medium
Gayland Ward Seed	Gayland Ward	18057	Bronze	Purple	Medium-Early
Gayland Ward Seed	Gayland Ward	18036	Red	Tan	Medium-Early
Golden Acres	Golden Acres	4880R	Red	Purple	Medium-Late
Golden Acres	Golden Acres	3020B	Bronze	Purple	Medium
Golden Acres	Golden Acres	3180B	Bronze	Purple	Medium
Nutrien Ag	Dyna-Gro	M71GR91	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

2020 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Nutrien Ag	Dyna-Gro	M69GR88	Red	Purple	Medium
Nutrien Ag	Dyna-Gro	GX19981	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M72GB71	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M62GB77	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	GX17912	Cream	Purple	Early
Nutrien Ag	Dyna-Gro	M59GB94	Bronze	Purple	Early
S&W Seed Company	Sorghum Partners	SWGS2002	Red	Purple	Early
S&W Seed Company	Sorghum Partners	SP7715	Bronze	Purple	Medium-Late
S&W Seed Company	Sorghum Partners	SP68M57	Bronze	Purple	Medium
S&W Seed Company	Sorghum Partners	SWGS2003	Bronze	Purple	Medium-Early
S&W Seed Company	Sorghum Partners	SP33S40	White	Tan	Medium-Early
S&W Seed Company	Sorghum Partners	SWGS5011	Bronze	Purple	Medium-Late
S&W Seed Company	Sorghum Partners	SP25C10	Bronze	Purple	Early
S&W Seed Company	Sorghum Partners	SP31A15	Bronze	Purple	Medium-Early
S&W Seed Company	Sorghum Partners	SP43M80	Bronze	Purple	Medium-Early
S&W Seed Company	Sorghum Partners	SP74M21	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	ATx399xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	White	Tan	Medium-Late
Wilbur-Ellis Company	Integra	G3665	Bronze	Purple	Medium
Wilbur-Ellis Company	Integra	G3620	Bronze	Purple	Medium-Early
Wilbur-Ellis Company	Integra	G3711	Red	Red	Late

2020 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Wilbur-Ellis Company	Integra	G3630	Red	Red	Medium-Early
Wilbur-Ellis Company	Integra	G3590	Bronze	Purple	Early

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 8600 Freeport Pkwy, Suite 220 Irving, TX 75063	979-332-5138	zach.eder@advantaseeds.com
Bayer	DEKALB	Ronald Navarrete 800 N. Lindbergh Blvd St. Louis, MO 63167	979-422-1643	ronald.navarrete-ganchozo@bayer.com
Corteva	Pioneer	Amber Buzzard 5777 McCoy Road Victoria, TX 77905	361-484-2679	amber.buzzard@pioneer.com
Corteva	Pioneer	Slade Price	361-815-8570	slade.price@pioneer.com
Gayland Ward Seed	Gayland Ward	Carson Ward 4395 Hwy 60 Hereford, TX 79045	806-258-7394	carson@gaylandwardseed.com
Golden Acres	Golden Acres	Chris Sheppard 1122 E 169th Street Westfield, IN 46074	254-313-8720	chris.sheppard@lgseeds.com
Nutrien Ag	Dyna-Gro	Cord Willms 1024 Willms Road Columbus, TX 78934	361-960-4399	james.willms@nutrien.com
S&W Seed Company	Sorghum Partners	Scott Staggenborg 2101 Ken Pratt Blvd, Suite 201 Longmont, CO 80501	702-647-8180	scottstaggenborg@swseedco.com
Wilbur-Ellis Company	Integra	David Ferrell 1111 N. IH 35, Suite 206 Round Rock, TX 78664	512-258-1834	dferrell@wilburellis.com

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Monte Alto Full
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M71GR91	68	54	8	0	16.3	61.0	6,970
DEKALB	DKS 54-07	68	57	6	0	16.2	60.8	6,843
DEKALB	DKS 44-07	66	50	8	0	15.9	61.0	6,793
Dyna-Gro	M72GB71	68	53	9	0	15.8	60.6	6,754
DEKALB	DKS 46-60	66	53	11	0	15.9	60.1	6,550
Pioneer	83G19	66	51	9	0	16.4	58.9	6,381
DEKALB	DKS 45-60	65	53	11	0	15.7	60.8	6,249
Texas A&M AgriLife Research	ATx378xRTx430	65	56	12	0	15.2	57.5	6,075
Dyna-Gro	M69GB38	66	55	10	0	16.0	59.5	6,043
Dyna-Gro	M69GR88	65	45	10	0	15.4	58.3	6,042
Dyna-Gro	M60GB31	66	46	9	0	15.7	59.3	6,008
Gayland Ward	18036	66	56	12	0	16.6	59.8	6,004
DEKALB	DKS 36-07	64	50	12	0	15.2	58.7	5,964
Gayland Ward	18057	65	51	12	0	16.2	57.4	5,539
Dyna-Gro	M62GB77	64	51	11	0	15.5	59.6	5,386
Gayland Ward	19016	70	54	7	0	15.4	58.1	5,373
Alta Seeds	ADV G2275	69	47	9	0	17.4	58.9	5,328
Texas A&M AgriLife Research	ATx399xRTx430	64	50	11	0	14.7	55.9	5,291
Dyna-Gro	M74GB17	69	53	5	0	16.4	57.6	5,178
Gayland Ward	19017	69	56	9	0	15.9	56.6	4,094
Texas A&M AgriLife Research	ATx631xRTx436	71	53	5	0	16.7	56.6	3,017

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

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Monte Alto Full
2020 Grain Sorghum
Performance Trial

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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		66	52	9	0.0	15.9	58.9	5,804
C.V. %		1.7	6.8	14.6		2.2	1.2	9.1
P>f (hybrid)		0.000	0.000	0.000		0.000	0.000	0.000
L.S.D.		1.6	5.0	1.9		0.5	1.0	744.8

Agronomic information

Plant Date	2/24/2020
Harvest Date	6/23/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	80,000
Precipitation (in)	7.41
Irrigation (in)	

Herbicide

1.66 pt/ac Dual + 1.5 lb/ac Atrazine at planting

Soil Type	Clay loam
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

*Test was pre-watered in early February
*Irrigated 4/14/20

Cooperator: Texas AgriScience

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	157
P2O5 (lb/ac)	56
K2O (lb/ac)	0
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)		pH	
P (ppm)*		Conductivity (umho/cm)	
K (ppm)*		Ca (ppm)*	
S (ppm)*		Mg (ppm)*	
		Na (ppm)*	

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

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Monte Alto Limited
2020 Grain Sorghum
Performance Trial

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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 44-07	66	39	1	0	14.9	60.1	4,127
Integra	G3665	66	40	2	0	13.8	57.3	4,016
DEKALB	DKS 45-60	65	42	2	0	14.6	61.1	4,006
Golden Acres	3020B	66	39	1	0	14.4	58.9	3,761
DEKALB	DKS 46-60	67	40	2	0	14.8	59.2	3,726
Integra	G3711	68	41	1	0	14.8	60.7	3,623
Golden Acres	4880R	68	40	1	0	14.8	60.4	3,614
DEKALB	DKS 54-07	67	40	1	0	14.8	59.5	3,610
Dyna-Gro	M69GB38	66	42	3	0	14.7	59.4	3,535
Dyna-Gro	M72GB71	68	41	1	0	14.8	60.0	3,453
Pioneer	83G19	65	41	2	0	14.7	57.6	3,432
Dyna-Gro	M71GR91	69	41	1	0	15.3	59.6	3,428
Gayland Ward	18036	67	48	3	0	15.1	58.5	3,365
Integra	G3630	65	41	1	0	13.9	54.4	3,316
Dyna-Gro	M69GR88	66	39	2	0	14.3	54.8	3,283
Alta Seeds	ADV G2275	68	37	2	0	16.0	58.1	3,179
Dyna-Gro	M62GB77	64	41	3	0	14.5	59.3	3,118
Dyna-Gro	M60GB31	66	40	2	0	14.2	56.8	3,095
DEKALB	DKS 36-07	64	40	3	0	13.6	55.1	2,962
Integra	G3620	64	42	3	0	14.0	57.9	2,898
Gayland Ward	18057	64	42	3	0	14.8	54.4	2,867

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

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Monte Alto Limited
2020 Grain Sorghum
Performance Trial

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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	64	44	2	0	13.6	52.5	2,725
Dyna-Gro	M74GB17	69	39	1	0	14.8	57.3	2,661
Gayland Ward	19016	69	44	2	0	13.9	55.9	2,635
Texas A&M AgriLife Research	ATx399xRTx430	64	38	2	0	12.9	52.0	2,612
Gayland Ward	19017	69	43	2	0	14.9	54.4	1,893
Texas A&M AgriLife Research	ATx631xRTx436	68	44	1	0	14.4	57.2	1,887

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

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Monte Alto Limited
2020 Grain Sorghum
Performance Trial

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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		66	41	2	0.0	14.5	57.5	3,216
C.V. %		1.6	3.8	26.9		2.6	1.7	13.9
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.4	2.2			0.5	1.4	627.7

Agronomic information

Plant Date	2/24/2020
Harvest Date	6/24/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	55,000
Precipitation (in)	7.41
Irrigation (in)	

Herbicide

1.66 pt/ac Dual + 1.5 lb/ac Atrazine at planting

Soil Type	Clay loam
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

*Test was pre-watered in early February

Cooperator: Texas AgriScience

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	97
P2O5 (lb/ac)	56
K2O (lb/ac)	0
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)		pH	
P (ppm)*		Conductivity (umho/cm)	
K (ppm)*		Ca (ppm)*	
S (ppm)*		Mg (ppm)*	
		Na (ppm)*	

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

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Driscoll
2020 Grain Sorghum
Performance Trial

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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 44-07	72	34	3	0	13.5	59.0	4,716
Dyna-Gro	M62GB77	72	36	4	0	14.2	59.3	4,590
Dyna-Gro	M72GB71	73	38	3	0	13.2	58.5	4,583
Pioneer	82P83	73	39	6	0	14.1	57.7	4,521
Golden Acres	3020B	73	36	3	0	14.0	58.7	4,507
DEKALB	DKS 36-07	71	36	5	0	13.6	58.7	4,458
Pioneer	83G19	72	39	4	0	13.4	56.5	4,406
Integra	G3665	72	37	4	0	13.8	55.7	4,390
DEKALB	DKS 46-60	73	36	5	0	14.2	58.7	4,386
Integra	G3620	72	36	4	0	13.7	58.4	4,309
Golden Acres	3180B	72	36	5	0	13.5	57.4	4,298
DEKALB	DKS 45-60	72	36	4	0	14.6	59.6	4,215
Dyna-Gro	M60GB31	72	35	3	0	12.6	56.5	4,215
Pioneer	83P11	72	38	4	0	14.2	59.1	4,211
Integra	G3630	71	33	4	0	13.1	57.8	4,210
Integra	G3711	73	40	3	0	14.4	57.6	4,137
Gayland Ward	18057	71	39	6	0	13.8	57.3	4,093
Dyna-Gro	M71GR91	73	38	2	0	14.5	57.3	4,082
Texas A&M AgriLife Research	ATx378xRTx430	72	38	6	0	13.4	56.0	4,002
DEKALB	DKS 54-07	74	41	4	0	14.7	57.6	3,933
Pioneer	83P27	72	39	5	0	14.7	57.8	3,891

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

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Driscoll
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Gayland Ward	19016	73	39	6	0	14.4	55.3	3,884
Dyna-Gro	M69GR88	72	35	4	0	13.6	56.8	3,833
Alta Seeds	ADV G2275	73	34	3	0	14.5	58.0	3,801
Dyna-Gro	M69GB38	72	36	5	0	13.5	57.0	3,608
Dyna-Gro	GX19981	72	42	6	0	14.3	56.2	3,553
Dyna-Gro	M74GB17	74	37	4	0	13.7	55.6	3,377
Texas A&M AgriLife Research	ATx399xRTx430	72	35	6	0	12.3	54.5	3,348
Gayland Ward	19017	72	40	5	0	12.3	53.9	2,638
Texas A&M AgriLife Research	ATx631xRTx436	73	42	6	0	13.6	54.2	2,250

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

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Driscoll
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	72	37	4	0.0	13.8	57.2	4,015
	C.V. %	0.9	7.5	45.2		6.6	3.3	9.6
	P>f (hybrid)	0.000	0.000			0.009	0.000	0.000
	L.S.D.	0.9	3.9			1.3	2.7	544.6

Agronomic information

Plant Date	2/25/2020
Harvest Date	7/8/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	11.75
Irrigation (in)	

Herbicide

Applied 1 qt/ac Atrex Dec 2019. 10 oz/ac Outlook 2/13/20. Dual & atrazine applied 3/17/20.

Soil Type	Clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

Cooperator: McNair Farms

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	98
P2O5 (lb/ac)	0
K2O (lb/ac)	0
S (lb/ac)	6
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	47	pH	7.8
P (ppm)*	25	Conductivity (umho/cm)	290
K (ppm)*	356	Ca (ppm)*	7,171
S (ppm)*	9	Mg (ppm)*	281
		Na (ppm)*	58

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

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2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430		46,391	81	0.01	0.0	0.09		
Texas A&M AgriLife Research	ATx399xRTx430	35,937	47,916	60	0.40	0.0	0.07		
Texas A&M AgriLife Research	ATx631xRTx436	9,148	20,038	15	1.23	0.0	0.11		
Pioneer	82P83	44,431	49,223	74	0.12	0.0	0.09		
Pioneer	83G19	43,342	45,302	72	0.06	0.0	0.10		
Pioneer	83P11	51,401	53,143	86	0.05	0.0	0.08		
Pioneer	83P27	49,223	49,223	82	0.02	0.0	0.08		
Integra	G3620		51,619	87	0.01	0.0	0.08		
Integra	G3630	42,689	46,827	71	0.12	0.0	0.09		
Integra	G3665		48,569	89	0.00	0.0	0.09		
Integra	G3711	32,017	44,213	53	0.45	0.0	0.09		
Golden Acres	3020B	38,768	46,609	65	0.22	0.0	0.10		
Golden Acres	3180B		51,401	86	0.05	0.0	0.08		
Gayland Ward	18057		43,996	76	0.01	0.0	0.09		
Gayland Ward	19016		34,630	58	0.06	0.0	0.11		
Gayland Ward	19017	26,354	32,234	44	0.24	0.0	0.08		
Dyna-Gro	GX19981	34,195	50,094	57	0.49	0.0	0.07		
Dyna-Gro	M60GB31	42,907	46,174	72	0.11	0.0	0.09		
Dyna-Gro	M62GB77		46,609	83	0.01	0.0	0.10		
Dyna-Gro	M69GB38	37,897	42,035	63	0.11	0.0	0.09		
Dyna-Gro	M69GR88		43,560	73	0.06	0.0	0.09		
Dyna-Gro	M71GR91	40,946	45,302	68	0.13	0.0	0.09		

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Driscoll
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Dyna-Gro	M72GB71	43,560	43,996	73	0.04	0.0	0.11		
Dyna-Gro	M74GB17	37,026	42,907	62	0.16	0.0	0.08		
DEKALB	DKS 36-07		44,431	76	0.05	0.0	0.10		
DEKALB	DKS 44-07		46,609	79	0.07	0.0	0.10		
DEKALB	DKS 45-60		46,827	88	0.00	0.0	0.09		
DEKALB	DKS 46-60	47,263	48,569	79	0.07	0.0	0.09		
DEKALB	DKS 54-07	37,897	46,391	63	0.29	0.0	0.08		
Alta Seeds	ADV G2275	41,818	43,996	70	0.06	0.0	0.09		

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Driscoll
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		42,093	44,961	70	0.16	0.0	0.09		

Agronomic information

Plant Date	2/25/2020
Harvest Date	7/8/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	11.75
Irrigation (in)	

Herbicide

Applied 1 qt/ac Atrex Dec 2019. 10 oz/ac Outlook 2/13/20. Dual & atrazine applied 3/17/20.

Soil Type	Clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: McNair Farms

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	98
P2O5 (lb/ac)	0
K2O (lb/ac)	0
S (lb/ac)	6
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	47	pH	7.8
P (ppm)*	25	Conductivity (umho/cm)	290
K (ppm)*	356	Ca (ppm)*	7,171
S (ppm)*	9	Mg (ppm)*	281
		Na (ppm)*	58

Grain Sorghum
Driscoll
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Wilbur-Ellis Company	Integra	G3665	5,701	
Golden Acres	Golden Acres	3020B	5,657	5,936
Bayer	DEKALB	DKS 46-60	5,649	
Corteva	Pioneer	83P27	5,608	6,229
Bayer	DEKALB	DKS 54-07	5,365	
Gayland Ward Seed	Gayland Ward	19016	5,309	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,235	5,536
Nutrien Ag	Dyna-Gro	M60GB31	5,218	5,615
Nutrien Ag	Dyna-Gro	M62GB77	5,175	
Advanta Seeds	Alta Seeds	ADV G2275	5,159	5,675
Wilbur-Ellis Company	Integra	G3630	5,156	5,601
Nutrien Ag	Dyna-Gro	M69GR88	5,148	
Nutrien Ag	Dyna-Gro	M71GR91	5,134	
Nutrien Ag	Dyna-Gro	M69GB38	5,111	5,879
Gayland Ward Seed	Gayland Ward	18057	4,954	
Nutrien Ag	Dyna-Gro	GX19981	4,909	
Nutrien Ag	Dyna-Gro	M74GB17	4,488	5,249
Gayland Ward Seed	Gayland Ward	19017	4,367	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	4,061	

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.

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Gregory
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M71GR91	N/A	45	4	0	15.3	59.0	6,609
DEKALB	DKS 44-07	N/A	43	4	0	15.4	58.4	6,465
DEKALB	DKS 54-07	N/A	45	4	0	15.4	58.4	6,178
Pioneer	82P83	N/A	44	4	0	15.0	57.5	6,174
Pioneer	83P11	N/A	44	5	0	15.2	57.5	6,146
Pioneer	83P27	N/A	47	5	0	15.1	58.0	6,138
Dyna-Gro	M72GB71	N/A	46	3	0	15.6	57.9	6,079
Dyna-Gro	GX19981	N/A	41	2	0	15.7	58.3	6,065
DEKALB	DKS 46-60	N/A	46	7	0	15.4	59.2	5,946
Integra	G3665	N/A	44	6	0	14.1	55.6	5,865
Integra	G3711	N/A	44	4	0	15.6	58.6	5,798
DEKALB	DKS 36-07	N/A	44	8	0	14.9	57.6	5,764
Dyna-Gro	M60GB31	N/A	42	4	0	15.0	58.6	5,754
Pioneer	83G19	N/A	46	5	0	15.0	57.7	5,704
DEKALB	DKS 45-60	N/A	48	7	0	15.6	58.9	5,584
Dyna-Gro	M62GB77	N/A	45	6	0	15.3	58.7	5,555
Alta Seeds	ADV G2275	N/A	43	5	0	15.1	57.4	5,367
Texas A&M AgriLife Research	ATx378xRTx430	N/A	49	7	0	14.2	55.1	5,152
Integra	G3630	N/A	43	4	0	14.4	56.5	5,151
Dyna-Gro	M69GR88	N/A	43	5	0	15.2	57.0	4,832
Dyna-Gro	M74GB17	N/A	44	3	0	14.7	56.5	4,750

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

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Gayland Ward	18057	N/A	45	7	0	15.0	56.5	4,712
Texas A&M AgriLife Research	ATx399xRTx430	N/A	43	7	0	14.4	55.8	4,544
Integra	G3620	N/A	45	9	0	15.1	57.6	4,410
Dyna-Gro	M69GB38	N/A	44	6	0	14.6	54.3	3,407
Texas A&M AgriLife Research	ATx631xRTx436	N/A	49	7	0	14.2	55.0	3,197

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

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean		45	5	0.0	15.0	57.4	5,436
	C.V. %		3.8	24.5		0.0	1.4	10.8
	P>f (hybrid)		0.000			0.000	0.000	0.000
	L.S.D.		2.4			0.6	1.2	867.1

Agronomic information

Plant Date	3/2/2020
Harvest Date	7/9/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.18
Irrigation (in)	

Herbicide

13 oz/ac Outlook before planting

Soil Type	Clay
Tillage	Chisel 14" deep + 3 field cultivations in fall and spring
Previous Crop	Cotton

Trial Notes

*Applied 1 oz/ac Transform for aphids

Cooperator: Joel Hoskinson

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	20
K2O (lb/ac)	0
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	36	pH	7.9
P (ppm)*	15	Conductivity (umho/cm)	307
K (ppm)*	331	Ca (ppm)*	11,133
S (ppm)*	11	Mg (ppm)*	461
		Na (ppm)*	210

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

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Gregory
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	40,729	45,738	68	0.23	0.0	0.11		
Texas A&M AgriLife Research	ATx399xRTx430	39,204	40,946	65	0.37	0.0	0.11		
Texas A&M AgriLife Research	ATx631xRTx436	10,454	21,127	17	1.31	0.0	0.16		
Pioneer	82P83		51,619	88	0.00	0.0	0.12		
Pioneer	83G19	41,818	48,569	70	0.21	0.0	0.12		
Pioneer	83P11		50,094	84	0.05	0.0	0.12		
Pioneer	83P27	49,005	54,232	82	0.11	0.0	0.11		
Integra	G3620	34,412	48,352	57	0.61	0.0	0.09		
Integra	G3630	28,314	37,679	47	0.37	0.0	0.15		
Integra	G3665	43,124	52,925	72	0.35	0.0	0.11		
Integra	G3711	33,323	45,956	56	0.45	0.0	0.13		
Gayland Ward	18057	42,689	48,352	71	0.24	0.0	0.10		
Dyna-Gro	GX19981	47,480	49,658	79	0.09	0.0	0.12		
Dyna-Gro	M60GB31	45,302	47,916	76	0.10	0.0	0.12		
Dyna-Gro	M62GB77	46,609	48,787	78	0.08	0.0	0.11		
Dyna-Gro	M69GB38	33,977	43,996	57	0.34	0.0	0.08		
Dyna-Gro	M69GR88	39,857	45,302	66	0.18	0.0	0.11		
Dyna-Gro	M71GR91	38,768	42,035	65	0.10	0.0	0.14		
Dyna-Gro	M72GB71	41,382	46,391	69	0.12	0.0	0.13		
Dyna-Gro	M74GB17	30,710	37,026	51	0.30	0.0	0.12		
DEKALB	DKS 36-07	42,689	45,302	71	0.12	0.0	0.13		
DEKALB	DKS 44-07	44,213	54,886	74	0.29	0.0	0.12		

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
DEKALB	DKS 45-60		49,441	86	0.01	0.0	0.11		
DEKALB	DKS 46-60		51,401	90	0.01	0.0	0.12		
DEKALB	DKS 54-07	37,462	49,005	62	0.33	0.0	0.13		
Alta Seeds	ADV G2275	42,253	42,471	70	0.03	0.0	0.13		

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		40,851	46,123	68	0.25	0.0	0.12		

Agronomic information

Plant Date	3/2/2020
Harvest Date	7/9/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.18
Irrigation (in)	

Herbicide

13 oz/ac Outlook before planting

Soil Type	Clay
Tillage	Chisel 14" deep + 3 field cultivations in fall and spring
Previous Crop	Cotton

Trial Notes

*Applied 1 oz/ac Transform for aphids

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Joel Hoskinson

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	20
K2O (lb/ac)	0
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	36	pH	7.9
P (ppm)*	15	Conductivity (umho/cm)	307
K (ppm)*	331	Ca (ppm)*	11,133
S (ppm)*	11	Mg (ppm)*	461
		Na (ppm)*	210

Grain Sorghum
Gregory
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Nutrien Ag	Dyna-Gro	M71GR91	6,304	
Bayer	DEKALB	DKS 54-07	6,231	
Corteva	Pioneer	83P27	6,130	5,534
Bayer	DEKALB	DKS 46-60	5,981	
Nutrien Ag	Dyna-Gro	GX19981	5,977	
Wilbur-Ellis Company	Integra	G3665	5,942	
Nutrien Ag	Dyna-Gro	M60GB31	5,776	5,002
Nutrien Ag	Dyna-Gro	M62GB77	5,480	
Advanta Seeds	Alta Seeds	ADV G2275	5,468	4,822
Wilbur-Ellis Company	Integra	G3630	5,436	4,732
Nutrien Ag	Dyna-Gro	M69GR88	5,270	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,182	3,566
Nutrien Ag	Dyna-Gro	M74GB17	4,949	4,076
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	4,530	
Nutrien Ag	Dyna-Gro	M69GB38	4,045	3,710

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.

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Damon
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 44-07	66	57	6	0	15.1	59.7	8,443
Dyna-Gro	M71GR91	68	62	6	0	15.0	59.9	8,291
Pioneer	83G19	64	62	7	0	14.2	58.1	8,022
DEKALB	DKS 54-07	69	63	8	0	14.4	60.2	7,926
Pioneer	82P83	68	61	6	0	13.5	57.7	7,808
Dyna-Gro	GX19981	68	56	4	0	14.6	60.1	7,537
DEKALB	DKS 46-60	67	61	7	0	14.7	59.5	7,520
Golden Acres	4880R	69	62	5	0	14.8	60.6	7,518
Pioneer	83P27	63	61	8	0	14.3	57.7	7,480
DEKALB	DKS 45-60	66	61	8	0	14.3	59.8	7,456
Pioneer	83P11	65	61	7	0	14.4	57.7	7,321
Dyna-Gro	M72GB71	69	61	7	0	14.2	59.6	7,237
Texas A&M AgriLife Research	ATx378xRTx430	64	63	8	0	13.1	56.2	7,010
Dyna-Gro	M69GB38	68	63	10	0	14.2	57.2	6,623
Texas A&M AgriLife Research	ATx399xRTx430	63	56	7	0	13.8	54.8	6,328
Golden Acres	3020B	67	58	5	0	14.1	57.7	6,319
Alta Seeds	ADV G2275	66	58	5	0	14.7	58.5	6,192
DEKALB	DKS 36-07	64	57	7	0	15.2	57.3	5,983
Dyna-Gro	M74GB17	70	56	4	0	14.5	57.9	5,925
Dyna-Gro	M60GB31	65	53	5	0	13.9	56.6	5,774
Dyna-Gro	M69GR88	66	56	7	0	13.9	56.4	5,683

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Damon
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M62GB77	66	57	8	0	14.9	58.7	5,104
Texas A&M AgriLife Research	ATx631xRTx436	71	63	7	0	14.7	56.3	4,519

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Damon
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	67	59	7	0.0	14.4	58.2	6,870
	C.V. %	1.3	4.2	20.7		6.6	1.6	5.1
	P>f (hybrid)	0.000	0.000			0.362	0.000	0.000
	L.S.D.	1.2	3.5				1.3	493.8

Agronomic information

Plant Date	3/13/2020
Harvest Date	7/14/2020
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	25.79
Irrigation (in)	
Herbicide	
Soil Type	Clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

Cooperator: Mikel Brothers

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	15	pH	5.5
P (ppm)*	69	Conductivity (umho/cm)	229
K (ppm)*	217	Ca (ppm)*	3,958
S (ppm)*	11	Mg (ppm)*	980
		Na (ppm)*	32

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

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Damon
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	43,288	53,252	67	0.24	0.0	0.13		
Texas A&M AgriLife Research	ATx399xRTx430	37,571	52,599	58	0.43	0.0	0.12		
Texas A&M AgriLife Research	ATx631xRTx436	12,578	33,977	19	1.73	0.0	0.14		
Pioneer	82P83	44,105	50,312	68	0.19	0.0	0.16		
Pioneer	83G19	43,778	51,945	67	0.19	0.0	0.15		
Pioneer	83P11	47,208	55,212	73	0.17	0.0	0.13		
Pioneer	83P27	43,614	57,173	67	0.33	0.0	0.13		
Golden Acres	3020B	45,411	51,129	70	0.15	0.0	0.12		
Golden Acres	4880R	40,184	50,639	62	0.29	0.0	0.15		
Dyna-Gro	GX19981	42,471	55,212	65	0.32	0.0	0.14		
Dyna-Gro	M60GB31	40,838	45,901	63	0.13	0.0	0.13		
Dyna-Gro	M62GB77	40,838	43,614	63	0.10	0.0	0.12		
Dyna-Gro	M69GB38	34,794	49,985	54	0.44	0.0	0.13		
Dyna-Gro	M69GR88	46,228	53,089	71	0.16	0.0	0.11		
Dyna-Gro	M71GR91	45,901	51,129	71	0.12	0.0	0.16		
Dyna-Gro	M72GB71	41,164	53,252	63	0.31	0.0	0.14		
Dyna-Gro	M74GB17	34,630	46,228	53	0.33	0.0	0.13		
DEKALB	DKS 36-07	43,124	52,272	66	0.27	0.0	0.12		
DEKALB	DKS 44-07	46,065	59,459	71	0.29	0.0	0.14		
DEKALB	DKS 45-60	46,555	52,925	72	0.14	0.0	0.14		
DEKALB	DKS 46-60	49,005	51,945	75	0.07	0.0	0.15		
DEKALB	DKS 54-07	38,551	53,906	59	0.42	0.0	0.15		

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Soil & Crop Sciences

Damon
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Alta Seeds	ADV G2275	42,308	48,678	65	0.16	0.0	0.13		

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Soil & Crop Sciences

Damon
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		41,313	51,036	64	0.30	0.0	0.14		

Agronomic information

Plant Date	3/13/2020
Harvest Date	7/14/2020
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	25.79
Irrigation (in)	
Herbicide	
Soil Type	Clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Mikel Brothers

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	15	pH	5.5
P (ppm)*	69	Conductivity (umho/cm)	229
K (ppm)*	217	Ca (ppm)*	3,958
S (ppm)*	11	Mg (ppm)*	980
		Na (ppm)*	32

Grain Sorghum
Damon
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 54-07	7,573	
Nutrien Ag	Dyna-Gro	M71GR91	7,567	
Bayer	DEKALB	DKS 46-60	7,212	
Golden Acres	Golden Acres	4880R	6,892	
Nutrien Ag	Dyna-Gro	M69GB38	6,649	7,039
Nutrien Ag	Dyna-Gro	GX19981	6,630	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,511	6,628
Golden Acres	Golden Acres	3020B	6,282	6,489
Nutrien Ag	Dyna-Gro	M69GR88	5,854	
Nutrien Ag	Dyna-Gro	M74GB17	5,635	5,802
Advanta Seeds	Alta Seeds	ADV G2275	5,618	5,865
Nutrien Ag	Dyna-Gro	M60GB31	5,573	5,737
Nutrien Ag	Dyna-Gro	M62GB77	5,336	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	5,199	

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.

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

College Station
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Integra	G3711	78	56	5	0	14.7	60.7	8,364
Dyna-Gro	M71GR91	78	56	5	0	14.6	60.0	8,204
Golden Acres	4880R	78	55	6	0	14.7	60.4	8,054
DEKALB	DKS 46-60	77	52	8	0	14.6	58.6	7,458
DEKALB	DKS 44-07	75	48	5	0	14.4	59.2	7,096
DEKALB	DKS 54-07	79	53	6	0	14.9	59.4	7,077
Alta Seeds	ADV G2275	75	49	8	0	15.1	58.8	6,895
Texas A&M AgriLife Research	ATx378xRTx430	73	54	7	0	14.0	57.3	6,770
Golden Acres	3020B	74	48	6	0	14.1	58.5	6,768
Integra	G3665	75	47	6	0	13.9	57.2	6,687
Dyna-Gro	M72GB71	77	55	7	0	14.4	59.4	6,397
Dyna-Gro	M60GB31	74	44	5	0	14.5	60.4	6,389
DEKALB	DKS 45-60	75	50	9	0	14.4	58.3	6,150
Pioneer	83G19	76	48	4	0	14.1	57.6	6,147
Dyna-Gro	M74GB17	80	49	4	0	15.2	58.5	6,047
Dyna-Gro	GX19981	80	47	3	0	14.4	59.3	5,964
Dyna-Gro	M69GR88	78	47	6	0	14.2	57.6	5,947
DEKALB	DKS 36-07	73	46	5	0	14.5	58.8	5,707
Texas A&M AgriLife Research	ATx399xRTx430	73	47	7	0	14.1	57.9	5,614
Dyna-Gro	M69GB38	77	51	8	0	14.4	56.8	5,606
Integra	G3630	73	44	4	0	14.3	57.7	5,412

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

TEXAS A&M UNIVERSITY
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College Station
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Gayland Ward	18057	76	48	8	0	14.8	58.1	5,214
Dyna-Gro	M62GB77	74	48	7	0	14.2	57.5	5,015
Texas A&M AgriLife Research	ATx631xRTx436	83	47	1	0	14.7	51.6	2,490

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

College Station
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		76	49	6	0.0	14.5	58.3	6,311
C.V. %		1.9	3.7	21.4		2.5	3.4	14.2
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		2.1	2.6			0.5	2.8	1,272.4

Agronomic information

Plant Date	3/17/2020
Harvest Date	7/21/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	80,000
Precipitation (in)	0
Irrigation (in)	

Herbicide

1 pt/ac Dual + 3 pt/ac Atrazine applied pre-emerge. 3 pt/ac Prowl H2O applied layby after side dress

Soil Type	Clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

*Field was shredded and disked, then bedded and rod weeded before planting.
*Test irrigated once post flowering

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Texas A&M AgriLife

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	165
P2O5 (lb/ac)	56
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	4

Soil Analysis Report**

NO3-N (ppm)		pH	
P (ppm)*		Conductivity (umho/cm)	
K (ppm)*		Ca (ppm)*	
S (ppm)*		Mg (ppm)*	
		Na (ppm)*	

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

Grain Sorghum
College Station
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Golden Acres	Golden Acres	4880R	7,656	
Nutrien Ag	Dyna-Gro	M71GR91	7,643	
Bayer	DEKALB	DKS 54-07	7,468	
Bayer	DEKALB	DKS 46-60	7,418	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	7,151	6,878
Wilbur-Ellis Company	Integra	G3665	6,822	
Nutrien Ag	Dyna-Gro	M60GB31	6,734	6,575
Nutrien Ag	Dyna-Gro	M69GR88	6,623	
Nutrien Ag	Dyna-Gro	GX19981	6,595	
Advanta Seeds	Alta Seeds	ADV G2275	6,374	
Nutrien Ag	Dyna-Gro	M69GB38	6,232	6,279
Gayland Ward Seed	Gayland Ward	18057	6,131	
Wilbur-Ellis Company	Integra	G3630	6,114	6,118
Nutrien Ag	Dyna-Gro	M74GB17	5,941	5,967
Nutrien Ag	Dyna-Gro	M62GB77	5,916	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	3,990	

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.

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	3180B	81	56	4	0	14.1	58.8	6,436
DEKALB	DKS 45-60	82	59	9	0	14.5	61.1	6,383
Dyna-Gro	M71GR91	86	61	2	0	15.5	61.7	6,340
Golden Acres	3020B	82	55	5	0	13.7	60.3	6,321
DEKALB	DKS 46-60	84	58	6	0	14.6	60.9	6,321
Integra	G3665	82	55	5	0	13.9	58.9	5,803
Dyna-Gro	M69GR88	84	55	4	0	14.2	58.9	5,786
DEKALB	DKS 44-07	84	54	3	0	14.4	61.2	5,625
DEKALB	DKS 36-07	81	55	6	0	14.2	60.5	5,605
Alta Seeds	ADV G2275	83	55	6	0	17.2	59.8	5,514
Dyna-Gro	GX19981	86	55	2	0	15.0	61.4	5,421
Dyna-Gro	M72GB71	85	61	4	0	14.5	61.2	5,401
Integra	G3630	82	51	4	0	14.7	59.7	5,291
DEKALB	DKS 54-07	88	57	2	0	15.2	60.6	5,052
Gayland Ward	18057	83	55	7	0	15.5	58.7	4,979
Dyna-Gro	M62GB77	81	56	7	6	14.3	61.5	4,921
Integra	G3711	87	56	2	0	14.7	60.8	4,919
Integra	G3620	81	56	7	6	14.4	60.3	4,811
Pioneer	83G19	83	58	2	3	14.5	59.4	4,743
Dyna-Gro	M69GB38	84	59	7	6	14.4	59.5	4,517
Dyna-Gro	M60GB31	83	51	4	0	13.8	59.1	4,456

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M74GB17	86	54	1	15	14.9	58.2	4,062
Texas A&M AgriLife Research	ATx399xRTx430	82	52	4	21	13.9	56.9	3,263
Texas A&M AgriLife Research	ATx631xRTx436	91	53	0	0	15.5	57.9	2,389
Texas A&M AgriLife Research	ATx378xRTx430	82	60	5	80	7.2	28.6	1,759

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		84	56	4	5.5	14.3	58.6	5,045
C.V. %		1.1	2.9	22.6	143.0	11.8	11.2	13.9
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.3	2.3			2.4	9.3	990.1

Agronomic information

Plant Date	3/12/2020
Harvest Date	7/22/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	16.7
Irrigation (in)	

Herbicide

1 qt/ac atrazine, 1.33 pt/ac Dual + 1 qt/ac Roundup at planting. 14 oz/ac Outlook + 1 qt /ac Roundup applied post with hoods.

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Stiles Farm Foundation

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	150
P2O5 (lb/ac)	35
K2O (lb/ac)	60
S (lb/ac)	20
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	2	pH	5.4
P (ppm)*	25	Conductivity (umho/cm)	74
K (ppm)*	73	Ca (ppm)*	3,825
S (ppm)*	6	Mg (ppm)*	474
		Na (ppm)*	38

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430		6,970	73	0.00	80.0	0.31		
Texas A&M AgriLife Research	ATx399xRTx430	42,689	44,649	66	0.07	21.3	0.07		
Texas A&M AgriLife Research	ATx631xRTx436	11,108	21,562	17	1.11	0.0	0.11		
Pioneer	83G19	47,480	52,054	73	0.10	2.5	0.09		
Integra	G3620		50,312	82	0.02	6.3	0.10		
Integra	G3630	45,520	50,965	70	0.12	0.0	0.10		
Integra	G3665	51,183	62,726	79	0.23	0.0	0.09		
Integra	G3711	39,857	47,916	61	0.21	0.0	0.10		
Golden Acres	3020B	47,263	50,965	73	0.15	0.0	0.13		
Golden Acres	3180B	50,965	65,558	78	0.29	0.0	0.10		
Gayland Ward	18057	47,916	59,895	74	0.27	0.0	0.08		
Dyna-Gro	GX19981	43,124	54,014	66	0.26	0.0	0.10		
Dyna-Gro	M60GB31	43,124	51,401	66	0.19	0.0	0.09		
Dyna-Gro	M62GB77	46,391	50,312	71	0.13	6.3	0.10		
Dyna-Gro	M69GB38	32,888	47,698	51	0.47	6.3	0.10		
Dyna-Gro	M69GR88	49,658	52,925	76	0.09	0.0	0.11		
Dyna-Gro	M71GR91	47,916	58,153	74	0.21	0.0	0.11		
Dyna-Gro	M72GB71	47,916	52,925	74	0.11	0.0	0.10		
Dyna-Gro	M74GB17	35,501	41,164	55	0.17	15.0	0.10		
DEKALB	DKS 36-07	46,827	53,579	72	0.15	0.0	0.10		
DEKALB	DKS 44-07	45,738	58,588	70	0.28	0.0	0.10		
DEKALB	DKS 45-60	48,569	54,014	75	0.11	0.0	0.12		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
DEKALB	DKS 46-60	54,014	59,895	83	0.11	0.0	0.11		
DEKALB	DKS 54-07	39,204	50,965	60	0.32	0.0	0.10		
Alta Seeds	ADV G2275	45,085	53,797	69	0.20	0.0	0.10		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		44,440	50,120	68	0.21	5.5	0.11		

Agronomic information

Plant Date	3/12/2020
Harvest Date	7/22/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	16.7
Irrigation (in)	

Herbicide

1 qt/ac atrazine, 1.33 pt/ac Dual + 1 qt/ac Roundup at planting. 14 oz/ac Outlook + 1 qt /ac Roundup applied post with hoods.

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Stiles Farm Foundation

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	150
P2O5 (lb/ac)	35
K2O (lb/ac)	60
S (lb/ac)	20
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	2	pH	5.4
P (ppm)*	25	Conductivity (umho/cm)	74
K (ppm)*	73	Ca (ppm)*	3,825
S (ppm)*	6	Mg (ppm)*	474
		Na (ppm)*	38

Grain Sorghum
Thrall
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Wilbur-Ellis Company	Integra	G3665	6,686	
Nutrien Ag	Dyna-Gro	M69GR88	6,355	
Bayer	DEKALB	DKS 46-60	6,047	
Bayer	DEKALB	DKS 54-07	5,988	
Gayland Ward Seed	Gayland Ward	18057	5,844	
Nutrien Ag	Dyna-Gro	M71GR91	5,697	
Nutrien Ag	Dyna-Gro	GX19981	5,648	
Nutrien Ag	Dyna-Gro	M62GB77	5,580	
Golden Acres	Golden Acres	3020B	5,372	4,630
Nutrien Ag	Dyna-Gro	M60GB31	5,302	4,818
Advanta Seeds	Alta Seeds	ADV G2275	5,291	4,644
Wilbur-Ellis Company	Integra	G3630	5,285	4,658
Nutrien Ag	Dyna-Gro	M69GB38	4,779	4,264
Nutrien Ag	Dyna-Gro	M74GB17	4,055	3,596
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	3,865	3,228
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	3,259	

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.

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M72GB71	N/A	56	4	0	13.1	59.5	6,060
DEKALB	DKS 45-60	N/A	52	6	0	13.7	61.1	5,643
DEKALB	DKS 44-07	N/A	52	5	0	13.5	60.7	5,639
Integra	G3665	N/A	52	5	0	11.3	56.5	5,449
Dyna-Gro	M71GR91	N/A	58	5	0	13.6	61.2	5,349
Dyna-Gro	GX19981	N/A	53	2	0	12.2	59.8	5,311
Golden Acres	3020B	N/A	49	5	0	13.2	60.3	5,187
Alta Seeds	ADV G2275	N/A	56	5	0	13.7	59.4	5,097
Pioneer	83G19	N/A	52	2	0	12.6	58.2	4,968
Sorghum Partners	SP74M21	N/A	52	5	0	12.9	60.3	4,952
Texas A&M AgriLife Research	ATx378xRTx430	N/A	56	4	0	12.7	57.5	4,905
DEKALB	DKS 54-07	N/A	55	4	0	12.7	59.9	4,748
Dyna-Gro	M69GB38	N/A	53	4	0	13.6	59.7	4,741
DEKALB	DKS 46-60	N/A	52	6	0	13.5	59.9	4,663
Integra	G3711	N/A	57	5	0	13.4	61.1	4,539
Dyna-Gro	M60GB31	N/A	54	5	0	13.2	59.6	4,500
Texas A&M AgriLife Research	ATx399xRTx430	N/A	48	3	0	13.3	58.1	4,495
Gayland Ward	18057	N/A	52	6	0	12.4	58.3	4,416
Dyna-Gro	M69GR88	N/A	46	3	0	14.3	59.9	4,415
DEKALB	DKS 36-07	N/A	53	6	0	13.1	58.2	4,331
Integra	G3630	N/A	54	4	0	13.5	59.9	4,255

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

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	4880R	N/A	56	5	0	13.3	60.5	4,126
Dyna-Gro	M62GB77	N/A	53	6	0	12.0	58.6	4,124
Dyna-Gro	M74GB17	N/A	52	4	0	14.1	58.5	3,820
Texas A&M AgriLife Research	ATx631xRTx436	N/A	53	4	0	12.9	55.6	1,663

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

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean			53	4	0.0	13.1	59.3	4,696
C.V. %			3.1	18.0		6.5	2.0	17.0
P>f (hybrid)			0.000	0.000		0.002	0.000	0.000
L.S.D.			2.3	1.1		1.2	1.8	1,141.9

Agronomic information

Plant Date	4/28/2020
Harvest Date	8/26/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	30.9
Irrigation (in)	

Herbicide

16 oz/ac Outlook + 1 qt/ac Atrazine + 1 oz/ac Sharpen

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

*Sprayed 5 oz/ac Sivanto for aphids
*Sprayed 8 oz/ac Besiege for headworms

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Josh Birdwell

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	124
P2O5 (lb/ac)	29
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	19	pH	8.0
P (ppm)*	22	Conductivity (umho/cm)	322
K (ppm)*	506	Ca (ppm)*	19,980
S (ppm)*	11	Mg (ppm)*	146
		Na (ppm)*	14

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

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430		45,302	78	0.00	0.0	0.11	0.0	
Texas A&M AgriLife Research	ATx399xRTx430	40,075	41,382	62	0.05	0.0	0.11	0.0	
Texas A&M AgriLife Research	ATx631xRTx436	3,920	13,939	6	2.26	0.0	0.12	0.0	
Sorghum Partners	SP74M21	54,014	54,014	83	0.01	0.0	0.09	2.5	
Pioneer	83G19	49,876	50,312	77	0.03	0.0	0.10	0.0	
Integra	G3630		42,253	70	0.00	0.0	0.10	0.0	
Integra	G3665	57,064	57,717	88	0.05	0.0	0.09	1.3	
Integra	G3711	44,649	49,223	69	0.11	0.0	0.09	0.0	
Golden Acres	3020B	51,619	54,886	79	0.06	0.0	0.10	0.0	
Golden Acres	4880R	47,480	47,916	73	0.02	0.0	0.09	1.3	
Gayland Ward	18057		55,539	92	0.02	0.0	0.08	2.5	
Dyna-Gro	GX19981		53,361	83	0.02	0.0	0.10	2.5	
Dyna-Gro	M60GB31		52,925	83	0.04	0.0	0.09	0.0	
Dyna-Gro	M62GB77	50,965	51,836	78	0.02	0.0	0.08	18.8	
Dyna-Gro	M69GB38		41,818	67	0.02	0.0	0.11	0.0	
Dyna-Gro	M69GR88	53,143	53,361	82	0.04	0.0	0.08	0.0	
Dyna-Gro	M71GR91		52,272	83	0.04	0.0	0.10	2.5	
Dyna-Gro	M72GB71	53,797	54,014	83	0.02	0.0	0.11	0.0	
Dyna-Gro	M74GB17		44,867	77	0.00	0.0	0.09	2.5	
DEKALB	DKS 36-07		52,054	86	0.00	0.0	0.08	16.3	
DEKALB	DKS 44-07	54,232	55,321	83	0.03	0.0	0.10	0.0	
DEKALB	DKS 45-60	51,401	54,450	79	0.06	0.0	0.10	1.3	

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
DEKALB	DKS 46-60		57,064	88	0.01	0.0	0.08	5.0	
DEKALB	DKS 54-07		52,272	84	0.01	0.0	0.09	0.0	
Alta Seeds	ADV G2275		49,876	80	0.00	0.0	0.10	0.0	

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Hill County
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		49,772	49,519	77	0.12	0.0	0.10	2.3	

Agronomic information

Plant Date	4/28/2020
Harvest Date	8/26/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	30.9
Irrigation (in)	

Herbicide

16 oz/ac Outlook + 1 qt/ac Atrazine + 1 oz/ac Sharpen

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

*Sprayed 5 oz/ac Sivanto for aphids
*Sprayed 8 oz/ac Besiege for headworms

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Josh Birdwell

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	124
P2O5 (lb/ac)	29
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	19	pH	8.0
P (ppm)*	22	Conductivity (umho/cm)	322
K (ppm)*	506	Ca (ppm)*	19,980
S (ppm)*	11	Mg (ppm)*	146
		Na (ppm)*	14

Grain Sorghum
Hill County
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Wilbur-Ellis Company	Integra	G3665	5,509	
Bayer	DEKALB	DKS 54-07	5,476	
Nutrien Ag	Dyna-Gro	M71GR91	5,377	
Golden Acres	Golden Acres	3020B	5,317	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,285	
Nutrien Ag	Dyna-Gro	M69GR88	5,102	
Nutrien Ag	Dyna-Gro	M69GB38	5,081	
Nutrien Ag	Dyna-Gro	M60GB31	5,063	
Nutrien Ag	Dyna-Gro	GX19981	4,886	
Advanta Seeds	Alta Seeds	ADV G2275	4,885	
S&W Seed Company	Sorghum Partners	SP74M21	4,865	
Bayer	DEKALB	DKS 46-60	4,861	
Golden Acres	Golden Acres	4880R	4,740	
Gayland Ward Seed	Gayland Ward	18057	4,538	
Nutrien Ag	Dyna-Gro	M62GB77	4,536	
Wilbur-Ellis Company	Integra	G3630	4,519	
Nutrien Ag	Dyna-Gro	M74GB17	4,226	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	3,193	

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.

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Greenville
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	4880R	73	51	4	0	14.8	60.1	7,063
Dyna-Gro	M72GB71	75	50	6	0	14.7	59.6	6,808
Dyna-Gro	M71GR91	74	51	5	0	14.8	60.7	6,728
Pioneer	83G19	72	48	4	0	13.3	58.8	6,561
Dyna-Gro	GX19981	75	48	4	0	15.5	60.1	6,477
DEKALB	DKS 44-07	71	49	4	0	14.5	60.8	6,459
DEKALB	DKS 46-60	74	49	9	0	13.9	59.9	6,365
Dyna-Gro	M60GB31	73	46	5	0	14.7	59.4	6,344
DEKALB	DKS 36-07	67	48	7	0	14.7	59.4	6,311
Dyna-Gro	M74GB17	75	49	5	0	14.6	58.0	6,275
Dyna-Gro	M69GR88	75	46	5	0	14.2	57.6	6,212
Dyna-Gro	M62GB77	69	49	7	0	13.9	59.9	6,203
Golden Acres	3020B	72	46	5	0	14.1	58.0	6,106
DEKALB	DKS 54-07	76	51	5	0	14.6	60.0	6,096
Dyna-Gro	M69GB38	75	49	6	0	14.6	59.5	5,972
DEKALB	DKS 45-60	74	49	8	0	14.9	60.3	5,889
Alta Seeds	ADV G2275	73	47	7	0	16.6	59.2	5,873
Texas A&M AgriLife Research	ATx378xRTx430	74	51	6	0	14.3	56.5	5,834
Texas A&M AgriLife Research	ATx399xRTx430	73	42	5	0	13.4	57.0	5,466
Texas A&M AgriLife Research	ATx631xRTx436	77	50	3	0			

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

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Greenville
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		73	48	5	0.0	14.5	59.2	6,265
C.V. %		2.5	3.2	22.9		5.8	1.6	13.9
P>f (hybrid)		0.000	0.000			0.001	0.000	0.734
L.S.D.		2.7	2.2			1.2	1.4	

Agronomic information

Plant Date	4/15/2020
Harvest Date	8/25/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	31.3
Irrigation (in)	

Herbicide

4/17/20: 1 qt/ac Roundup + 1 qt/ac Atrazine + 1.5 pt/ac Dual II Magnum

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Texas A&M AgriLife

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	150
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	26	pH	6.5
P (ppm)*	22	Conductivity (umho/cm)	251
K (ppm)*	522	Ca (ppm)*	8,027
S (ppm)*	9	Mg (ppm)*	375
		Na (ppm)*	72

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

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Greenville
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	45,956	55,539	71	0.23	0.0	0.11		
Texas A&M AgriLife Research	ATx399xRTx430	52,925	53,797	81	0.05	0.0	0.10		
Texas A&M AgriLife Research	ATx631xRTx436	11,108	17,424	17	0.64	0.0			
Pioneer	83G19	49,658	51,836	76	0.08	0.0	0.13		
Golden Acres	3020B	49,223	55,975	76	0.16	0.0	0.11		
Golden Acres	4880R	47,045	54,450	72	0.16	0.0	0.13		
Dyna-Gro	GX19981	48,787	54,668	75	0.15	0.0	0.12		
Dyna-Gro	M60GB31	48,569	50,094	75	0.03	0.0	0.13		
Dyna-Gro	M62GB77	44,431	55,539	68	0.26	0.0	0.11		
Dyna-Gro	M69GB38	37,026	43,996	57	0.22	0.0	0.14		
Dyna-Gro	M69GR88	49,005	55,757	75	0.14	0.0	0.11		
Dyna-Gro	M71GR91	49,658	52,054	76	0.10	0.0	0.13		
Dyna-Gro	M72GB71	51,619	54,886	79	0.09	0.0	0.12		
Dyna-Gro	M74GB17	42,035	46,174	65	0.10	0.0	0.14		
DEKALB	DKS 36-07	50,747	56,846	78	0.13	0.0	0.11		
DEKALB	DKS 44-07	49,876	54,232	77	0.09	0.0	0.12		
DEKALB	DKS 45-60	49,223	52,925	76	0.08	0.0	0.11		
DEKALB	DKS 46-60	50,747	58,153	78	0.16	0.0	0.11		
DEKALB	DKS 54-07	46,609	53,579	72	0.15	0.0	0.11		
Alta Seeds	ADV G2275	45,085	53,579	69	0.20	0.0	0.11		

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Greenville
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		45,967	51,575	71	0.16	0.0	0.12		

Agronomic information

Plant Date	4/15/2020
Harvest Date	8/25/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	31.3
Irrigation (in)	

Herbicide

4/17/20: 1 qt/ac Roundup + 1 qt/ac Atrazine + 1.5 pt/ac Dual II Magnum

Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Texas A&M AgriLife

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	150
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	26	pH	6.5
P (ppm)*	22	Conductivity (umho/cm)	251
K (ppm)*	522	Ca (ppm)*	8,027
S (ppm)*	9	Mg (ppm)*	375
		Na (ppm)*	72

Grain Sorghum
Greenville
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Golden Acres	Golden Acres	4880R	6,125	
Bayer	DEKALB	DKS 46-60	5,819	
Nutrien Ag	Dyna-Gro	M71GR91	5,545	
Bayer	DEKALB	DKS 54-07	5,507	
Nutrien Ag	Dyna-Gro	M74GB17	5,478	5,717
Nutrien Ag	Dyna-Gro	M69GR88	5,385	
Nutrien Ag	Dyna-Gro	M62GB77	5,364	
Nutrien Ag	Dyna-Gro	GX19981	5,363	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,292	5,341
Nutrien Ag	Dyna-Gro	M60GB31	5,173	5,469
Golden Acres	Golden Acres	3020B	5,128	5,616
Advanta Seeds	Alta Seeds	ADV G2275	5,068	5,326
Nutrien Ag	Dyna-Gro	M69GB38	5,026	5,537
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	4,139	

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.

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Plainview
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

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	67	49	2	0	15.1	59.7	6,971
Dyna-Gro	M72GB71	61	49	3	0	13.7	59.0	6,756
DEKALB	DKS 45-60	56	45	5	0	14.3	60.0	6,314
DEKALB	DKS 44-07	57	45	4	0	13.7	58.5	6,311
Golden Acres	3180B	56	44	2	0	13.2	56.9	6,169
Texas A&M AgriLife Research	ATx399xRTx430	60	43	3	0	13.5	56.8	6,083
DEKALB	DKS 36-07	54	44	4	0	14.6	58.5	5,937
Golden Acres	3020B	55	46	4	0	13.9	57.7	5,910
DEKALB	DKS 46-60	57	47	6	0	14.5	57.9	5,813
Dyna-Gro	M69GR88	67	44	2	0	15.7	58.8	5,764
Golden Acres	4880R	67	49	2	0	15.4	59.1	5,690
Dyna-Gro	M60GB31	54	46	3	0	15.6	57.9	5,518
Dyna-Gro	GX19981	60	43	1	0	15.6	59.9	5,508
Sorghum Partners	SP7715	69	52	5	0	16.9	59.1	5,458
Dyna-Gro	M71GR91	66	50	1	0	15.0	60.5	5,419
Alta Seeds	ADV G2275	64	45	4	0	17.5	57.9	5,333
Texas A&M AgriLife Research	ATx378xRTx430	56	48	3	0	14.0	57.6	5,237
Sorghum Partners	SWGS5011	69	52	3	0	15.8	56.5	5,204
Pioneer	83G19	69	49	3	0	15.4	56.7	4,964
Sorghum Partners	SP68M57	54	41	4	0	15.1	58.5	4,887
Dyna-Gro	M62GB77	56	45	4	0	13.3	59.5	4,619

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

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Plainview
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M74GB17	67	46	1	0	17.0	57.1	4,351
Dyna-Gro	M60GB88	54	42	4	0	14.0	58.1	4,323
Texas A&M AgriLife Research	ATx631xRTx436	68	50	1	0	16.6	57.0	1,640

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Plainview
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	61	46	3	0.0	15.0	58.3	5,424
	C.V. %	3.6	4.1	33.3		7.0	2.3	13.5
	P>f (hybrid)	0.000	0.000			0.000	0.000	0.000
	L.S.D.	3.6	2.7			1.5	1.9	1,046.0

Agronomic information

Plant Date	5/29/2020
Harvest Date	10/13/2020
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	55,000
Precipitation (in)	8.54
Irrigation (in)	

Herbicide

Sprayed twice:
1.25 lb/ac Atrazine + 6 oz/ac Engenia.

0.66 pt/ac Starane.

Soil Type	Clay loam
Tillage	Conventional
Previous Crop	Grain sorghum

Trial Notes

*Test irrigated 3 times

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Don Macha

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	30
K2O (lb/ac)	0
S (lb/ac)	15
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	71	pH	7.0
P (ppm)*	84	Conductivity (umho/cm)	448
K (ppm)*	814	Ca (ppm)*	1,989
S (ppm)*	23	Mg (ppm)*	715
		Na (ppm)*	24

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

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Plainview
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	33,487	37,080	61	0.11	0.0	0.14		
Texas A&M AgriLife Research	ATx399xRTx430	30,873	50,475	56	0.66	0.0	0.12		
Texas A&M AgriLife Research	ATx631xRTx436	4,138	5,445	8	0.38	0.0	0.37		
Sorghum Partners	SP68M57	31,363	33,487	57	0.10	0.0	0.15		
Sorghum Partners	SP7715	31,853	41,001	58	0.30	0.0	0.13		
Sorghum Partners	SWGS5011	31,200	41,001	57	0.33	0.0	0.13		
Pioneer	83G19	34,304	41,001	62	0.20	0.0	0.12		
Golden Acres	3020B	32,180	38,061	59	0.20	0.0	0.16		
Golden Acres	3180B	33,323	44,758	61	0.34	0.0	0.14		
Golden Acres	4880R	29,076	39,857	53	0.37	0.0	0.14		
Dyna-Gro	GX19981	33,977	36,264	62	0.12	0.0	0.15		
Dyna-Gro	M60GB31	31,363	38,224	57	0.23	0.0	0.14		
Dyna-Gro	M60GB88	31,527	37,897	57	0.21	0.0	0.11		
Dyna-Gro	M62GB77	32,017	37,407	58	0.18	0.0	0.12		
Dyna-Gro	M69GR88	34,467	41,654	63	0.24	0.0	0.14		
Dyna-Gro	M71GR91	30,056	38,877	55	0.31	0.0	0.14		
Dyna-Gro	M72GB71	31,037	43,451	56	0.40	0.0	0.16		
Dyna-Gro	M74GB17		25,156	50	0.09	0.0	0.17		
DEKALB	DKS 36-07	34,467	45,411	63	0.32	0.0	0.13		
DEKALB	DKS 44-07	35,447	40,674	64	0.19	0.0	0.16		
DEKALB	DKS 45-60	35,120	49,332	64	0.41	0.0	0.13		
DEKALB	DKS 46-60	35,774	45,738	65	0.29	0.0	0.13		

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Plainview
2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
DEKALB	DKS 54-07	30,873	44,268	56	0.46	0.0	0.16		
Alta Seeds	ADV G2275	34,304	38,224	62	0.11	0.0	0.14		

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Plainview
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		31,243	38,948	57	0.27	0.0	0.15		

Agronomic information

Plant Date	5/29/2020
Harvest Date	10/13/2020
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	55,000
Precipitation (in)	8.54
Irrigation (in)	

Herbicide

Sprayed twice:
1.25 lb/ac Atrazine + 6 oz/ac Engenia.

0.66 pt/ac Starane.

Soil Type	Clay loam
Tillage	Conventional
Previous Crop	Grain sorghum

Trial Notes

*Test irrigated 3 times

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Don Macha

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	30
K2O (lb/ac)	0
S (lb/ac)	15
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	71	pH	7.0
P (ppm)*	84	Conductivity (umho/cm)	448
K (ppm)*	814	Ca (ppm)*	1,989
S (ppm)*	23	Mg (ppm)*	715
		Na (ppm)*	24

Grain Sorghum
Plainview
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 54-07	7,376	
Golden Acres	Golden Acres	3020B	6,861	6,646
Nutrien Ag	Dyna-Gro	M69GR88	6,824	
Golden Acres	Golden Acres	4880R	6,787	
Bayer	DEKALB	DKS 46-60	6,695	
Nutrien Ag	Dyna-Gro	M71GR91	6,693	
Nutrien Ag	Dyna-Gro	GX19981	6,335	
Advanta Seeds	Alta Seeds	ADV G2275	6,146	5,892
Nutrien Ag	Dyna-Gro	M60GB31	5,865	6,189
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	5,793	5,904
Nutrien Ag	Dyna-Gro	M62GB77	5,445	
Nutrien Ag	Dyna-Gro	M74GB17	5,300	5,709
Nutrien Ag	Dyna-Gro	M60GB88	5,009	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx631xRTx436	3,982	

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.

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Gruver
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 44-07	67	53	3	0	13.5	61.4	9,325
Golden Acres	3180B	63	52	4	0	10.7	57.9	8,781
DEKALB	DKS 36-07	63	50	3	0	13.8	60.5	8,100
Alta Seeds	ADV G2275	69	53	3	0	15.8	61.1	7,900
Golden Acres	3020B	65	50	3	0	13.5	60.2	7,860
Texas A&M AgriLife Research	ATx378xRTx430	N/A	61	1	0	13.1	59.2	7,846
Dyna-Gro	GX19981	68	50	0	0	14.1	62.3	7,724
Dyna-Gro	M62GB77	63	54	5	0	13.4	61.7	7,700
Integra	G3620	63	51	4	0	14.3	61.2	7,472
Sorghum Partners	SWGS5011	63	52	1	0	13.5	58.6	7,466
Sorghum Partners	SP68M57	64	47	5	0	14.6	60.8	7,465
DEKALB	DKS 46-60	66	53	5	0	13.4	61.2	7,462
Dyna-Gro	M72GB71	66	51	2	0	13.6	60.4	7,446
Dyna-Gro	GX17912	63	53	7	0	12.5	58.4	7,427
Dyna-Gro	M59GB94	62	54	5	0	13.8	61.1	7,423
Integra	G3590	64	54	5	0	12.5	58.9	7,373
Pioneer	83G19	66	51	1	0	13.9	59.9	7,363
Dyna-Gro	M60GB88	63	48	4	0	13.5	59.6	7,224
Dyna-Gro	M71GR91	69	53	1	0	13.4	61.5	7,193
DEKALB	DKS 54-07	69	53	1	0	14.1	60.9	7,160
DEKALB	DKS 45-60	68	48	1	0	14.8	61.2	7,108

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

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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	4880R	68	51	1	0	13.2	60.1	6,801
Dyna-Gro	M60GB31	65	50	3	0	13.9	60.2	6,678
Sorghum Partners	SP43M80	63	48	4	0	13.2	59.6	6,665
Sorghum Partners	SP31A15	60	44	4	0	10.8	56.4	6,610
Dyna-Gro	M69GR88	64	47	0	0	14.5	59.6	6,396
Texas A&M AgriLife Research	ATx399xRTx430	63	45	2	0	13.2	59.5	6,076
Texas A&M AgriLife Research	ATx631xRTx436	72	49	2	0	16.9	58.8	4,709

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TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	65	51	3	0.0	13.6	60.1	7,313
	C.V. %	1.9	4.2	44.5		8.5	1.5	12.0
	P>f (hybrid)	0.000	0.000			0.001	0.000	0.025
	L.S.D.	3.1	3.9			2.1	1.7	1,620.9

Agronomic information

Plant Date	6/9/2020
Harvest Date	10/14/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.89
Irrigation (in)	16

Herbicide

Pre-emerge: Atrazine + Dual + Roundup.
Post-emerge: Husky + Atrazine

Soil Type	Clay loam
Tillage	Conventional, planted on beds
Previous Crop	Wheat

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Dustin Borden

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	120
P2O5 (lb/ac)	0
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	55	pH	7.0
P (ppm)*	102	Conductivity (umho/cm)	439
K (ppm)*	1,013	Ca (ppm)*	2,696
S (ppm)*	21	Mg (ppm)*	714
		Na (ppm)*	24

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

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	33,977	60,113	57	0.38	0.0	0.13		
Texas A&M AgriLife Research	ATx399xRTx430	46,174	51,401	77	0.08	0.0	0.12		
Texas A&M AgriLife Research	ATx631xRTx436	10,019	28,750	17	1.99	0.0	0.16		
Sorghum Partners	SP31A15	53,361	62,073	89	0.17	0.0	0.11		
Sorghum Partners	SP43M80	49,949	59,532	83	0.19	0.0	0.11		
Sorghum Partners	SP68M57	46,754	69,115	78	0.50	0.0	0.11		
Sorghum Partners	SWGS5011	54,450	60,984	91	0.12	0.0	0.12		
Pioneer	83G19	50,239	54,014	84	0.07	0.0	0.14		
Integra	G3590	54,014	68,244	90	0.26	0.0	0.11		
Integra	G3620	50,530	57,935	84	0.15	0.0	0.13		
Golden Acres	3020B	56,628	61,855	94	0.09	0.0	0.13		
Golden Acres	3180B	50,530	66,647	84	0.33	0.0	0.13		
Golden Acres	4880R	46,754	61,274	78	0.35	0.0	0.11		
Dyna-Gro	GX17912	53,143	65,776	89	0.23	0.0	0.11		
Dyna-Gro	GX19981	51,401	59,895	86	0.19	0.0	0.13		
Dyna-Gro	M59GB94	51,401	62,436	86	0.22	0.0	0.12		
Dyna-Gro	M60GB31		55,757	94	0.00	0.0	0.12		
Dyna-Gro	M60GB88	45,738	56,628	76	0.25	0.0	0.13		
Dyna-Gro	M62GB77	52,562	63,888	88	0.22	0.0	0.12		
Dyna-Gro	M69GR88	52,562	56,047	88	0.09	0.0	0.11		
Dyna-Gro	M71GR91	50,530	55,757	84	0.10	0.0	0.13		
Dyna-Gro	M72GB71	54,886	61,274	91	0.12	0.0	0.12		

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2020 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
DEKALB	DKS 36-07	45,302	68,389	76	0.52	0.0	0.12		
DEKALB	DKS 44-07	53,579	62,726	89	0.17	0.0	0.15		
DEKALB	DKS 45-60	56,918	58,661	95	0.05	0.0	0.12		
DEKALB	DKS 46-60	49,949	63,307	83	0.27	0.0	0.12		
DEKALB	DKS 54-07	46,754	58,661	78	0.27	0.0	0.12		
Alta Seeds	ADV G2275	46,609	59,822	78	0.18	0.0	0.13		

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Mean		48,976	59,677	82	0.27	0.0	0.12		

Agronomic information

Plant Date	6/9/2020
Harvest Date	10/14/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.89
Irrigation (in)	16

Herbicide

Pre-emerge: Atrazine + Dual + Roundup.
Post-emerge: Husky + Atrazine

Soil Type	Clay loam
Tillage	Conventional, planted on beds
Previous Crop	Wheat

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Dustin Borden

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

Dr. Ronnie Schnell / Katrina Horn
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	120
P2O5 (lb/ac)	0
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	55	pH	7.0
P (ppm)*	102	Conductivity (umho/cm)	439
K (ppm)*	1,013	Ca (ppm)*	2,696
S (ppm)*	21	Mg (ppm)*	714
		Na (ppm)*	24

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Soil & Crop Sciences

Sunray
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M71GR91	74	57	3	3	16.5	60.0	7,636
Dyna-Gro	M69GR88	74	50	4	3	16.7	56.3	7,343
DEKALB	DKS 44-07	73	51	4	11	17.2	60.9	6,924
Texas A&M AgriLife Research	ATx399xRTx430	70	50	5	10	15.5	55.0	6,746
Dyna-Gro	GX19981	72	48	4	13	18.5	60.2	6,545
Golden Acres	4880R	73	57	2	3	20.0	59.6	6,473
Dyna-Gro	M72GB71	72	56	4	20	17.6	60.2	6,398
Golden Acres	3180B	71	51	4	5	17.0	56.8	6,156
DEKALB	DKS 54-07	72	61	4	20	17.9	59.8	5,881
Dyna-Gro	GX17912	69	52	6	5	16.8	57.5	5,329
Golden Acres	3020B	71	50	3	3	17.5	59.0	5,007
DEKALB	DKS 46-60	71	52	8	28	18.6	59.6	4,959
Sorghum Partners	SP68M57	69	51	7	24	19.5	59.0	4,518
Sorghum Partners	SP31A15	68	47	6	18	16.0	55.9	4,437
Sorghum Partners	SWGS2003	66	44	7	21	17.1	58.5	4,274
Sorghum Partners	SP33S40	70	52	5	9	20.5	57.4	4,218
Dyna-Gro	M62GB77	72	57	8	28	17.5	59.1	4,215
DEKALB	DKS 45-60	71	57	5	40	17.3	58.6	4,046
Dyna-Gro	M60GB88	70	49	6	28	16.5	58.8	4,009
Pioneer	83G19	73	56	3	38	18.4	56.4	3,720
Integra	G3620	71	54	8	44	18.2	59.1	3,627

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

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TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 36-07	71	49	2	34	16.6	57.9	3,036
Alta Seeds	ADV G2275	72	53	5	44	18.5	58.3	2,874
Integra	G3590	69	56	6	50	18.5	57.3	2,519
Sorghum Partners	SP25C10	65	42	9	24	17.1	56.1	2,259
Dyna-Gro	M60GB31	71	46	4	64	16.3	59.8	1,957
Sorghum Partners	SWGS2002	65	41	4	31	17.2	57.5	1,944
Sorghum Partners	SP43M80	67	49	3	66	18.1	58.0	1,832
Dyna-Gro	M59GB94	70	56	7	86	17.9	56.6	1,301

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

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2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		70	51	5	26.5	17.6	58.2	4,489
C.V. %		1.8	2.3	20.6	58.8	11.0	2.3	21.4
P>f (hybrid)		0.000	0.000	0.000		0.106	0.000	0.000
L.S.D.		2.6	1.7	1.4			2.0	1,348.7

Agronomic information

Plant Date	6/10/2020
Harvest Date	11/11/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	40,000
Precipitation (in)	17.2
Irrigation (in)	
Herbicide	
Soil Type	Silty clay loam
Tillage	No-till
Previous Crop	Corn

Trial Notes

*Six inches of snow followed by rain in late October delayed harvest and contributed to lodging, resulting in a high CV.

Cooperator: Lone Star Family Farms

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 with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.For additional information contact:

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* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied

N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	32	pH	7.5
P (ppm)*	111	Conductivity (umho/cm)	314
K (ppm)*	886	Ca (ppm)*	2,781
S (ppm)*	19	Mg (ppm)*	839
		Na (ppm)*	46

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

Grain Sorghum
Sunray
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Nutrien Ag	Dyna-Gro	M71GR91	7,369	
Nutrien Ag	Dyna-Gro	M69GR88	7,168	
Bayer	DEKALB	DKS 54-07	6,862	
Golden Acres	Golden Acres	4880R	6,765	
Nutrien Ag	Dyna-Gro	GX19981	6,649	
Bayer	DEKALB	DKS 46-60	5,992	
Golden Acres	Golden Acres	3020B	5,823	
Nutrien Ag	Dyna-Gro	M62GB77	5,612	
Nutrien Ag	Dyna-Gro	M60GB88	5,371	
Advanta Seeds	Alta Seeds	ADV G2275	4,768	
Nutrien Ag	Dyna-Gro	M60GB31	4,697	

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.

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Cooperator	Trial Location	County	Region
Texas AgriScience	Monte Alto	Hidalgo	Rio Grande Valley
McNair Farms	Driscoll	Nueces	Coastal Bend
Joel Hoskinson	Gregory	San Patricio	Coastal Bend
Mikel Brothers	Damon	Brazoria	Upper Gulf Coast
Texas A&M AgriLife Research	College Station	Burleson	Brazos Valley
Stiles Farm Foundation	Thrall	Williamson	Blacklands
Josh Birdwell	Hill County	Hill	Blacklands
Texas A&M AgriLife Research	Greenville	Hunt	Blacklands
Don Macha	Plainview	Hale	High Plains
Dustin Borden	Gruver	Hansford	High Plains
Lone Star Family Farms	Sunray	Moore	High Plains

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Marcel Fischbacher
Stephen Labar
Tanner Lund
Bob McCool
Alfred Nelson
Jason Ott
Mark Stelter
Russell Sutton

Industry: Bayer for providing Roundup used to maintain alleys at test sites
Corteva for providing border seed used in test sites

Others: Brent Bean, United Sorghum Checkoff

LITERATURE CITED

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

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Texas A&M AgriLife Research and AgriLife Extension Service

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