TEXAS A&M AGRILIFE

SCS-2022-10

2022 Texas Grain Sorghum Performance Variety Trials

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The Texas A&M University Systems

2022 TEXAS GRAIN SORGHUM PERFORMANCE VARIETY TRIALS

By

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2022 TEXAS GRAIN SORGHUM PERFORMANCE VARIETY TRIALS

Ronnie Schnell, Katrina Horn, Giordano Fontana, 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, five 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 2022 test sites are shown in Figure 1. A total of 238 entries were evaluated across 11 locations representing 30 unique hybrids from 6 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

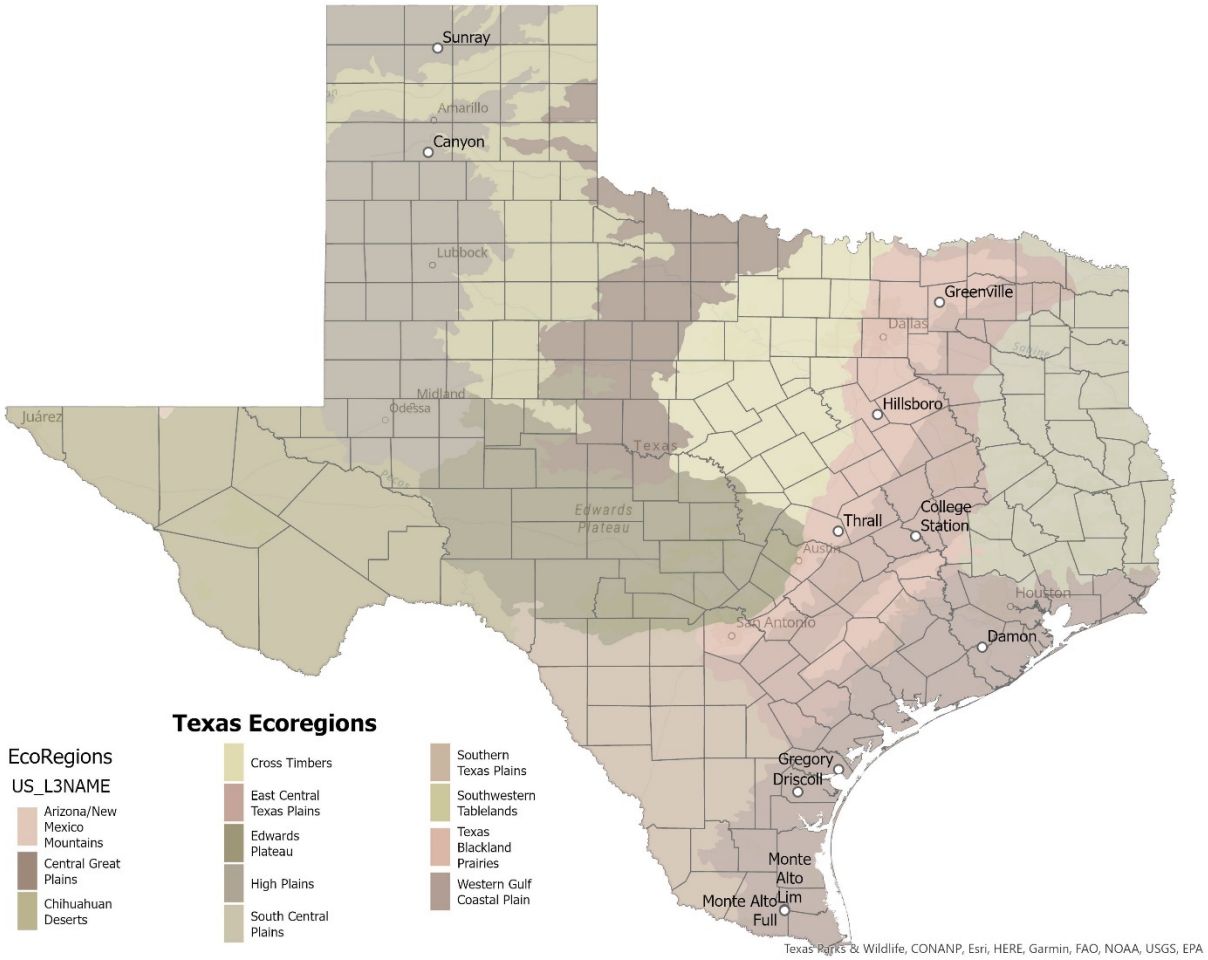
Variety or hybrid selection is often the first decision a grower must make each crop year. The goal is to identify hybrids with superior performance (top yielding) for your environment. Many environments exist in Texas with significant variation within regions and across years, mostly due to variation 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. 2022 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 2021 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.

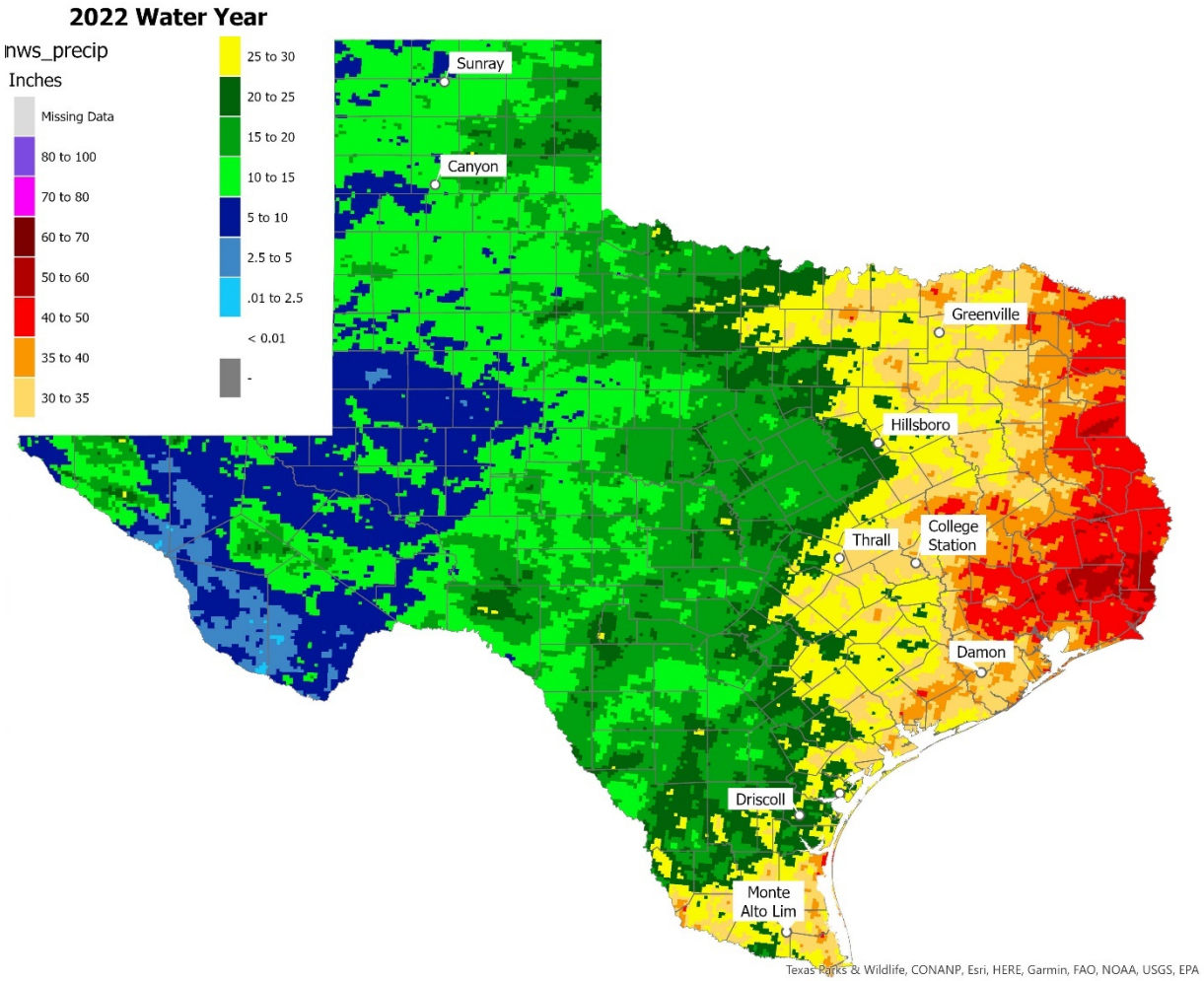
Yield: Standardized to 14% moisture: expressed in pounds per acre (lb/acre) and calculated using [((100 – moisture (%) /86) * yield (lb/acre)].

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. 2022 Precipitation (October 1, 2021 –September 30, 2022) precipitation in inches



2022 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Advanta Seeds	Alta Seeds	ADVG 2165			N/A
Advanta Seeds	Alta Seeds	ADVG 2168IG			N/A
Bayer	DEKALB	DKS 50-07	Red	Purple	Medium-Late
Bayer	DEKALB	DKS 54-07	Red	Purple	Medium-Late
Bayer	DEKALB	DKS 36-07	Bronze	Purple	Medium-Early
Bayer	DEKALB	DKS 44-07	Red	Purple	Medium
Bayer	DEKALB	DKS 45-60	Bronze	Purple	Medium
Bayer	DEKALB	DKS 40-76	Bronze	Purple	Medium-Early
Clemson University	Clemson	CU19S427	Red	Purple	Medium-Late
Clemson University	Clemson	CU16S159	Red	Purple	Medium
Golden Acres	Golden Acres	4880R	Red	Purple	Medium-Late
Golden Acres	Golden Acres	3180B	Bronze	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M60GB31	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	GX22932	Red		Medium-Late
Nutrien Ag	Dyna-Gro	M57GC29	Cream		Early
Nutrien Ag	Dyna-Gro	M54GR24	Red		Early
Nutrien Ag	Dyna-Gro	M63GB78	Bronze	Purple	Medium-Early
Nutrien Ag	Dyna-Gro	M71GR91	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	GX22934	Bronze		Medium-Late
Nutrien Ag	Dyna-Gro	M59GB94	Bronze	Purple	Early
Nutrien Ag	Dyna-Gro	M72GB71	Red	Purple	Medium-Late
Nutrien Ag	Dyna-Gro	M67GB87	Bronze	Purple	Medium

2022 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Nutrien Ag	Dyna-Gro	GX21965	Bronze	Purple	Medium-Late
Scott Seed Company	Scott Seed	S75N495	Red	Purple	Medium-Early
Scott Seed Company	Scott Seed	S78A30	Red	Purple	Medium-Early
Scott Seed Company	Scott Seed	S75A60	Red	Purple	Medium
Scott Seed Company	Scott Seed	S75N75	Red	Purple	Medium-Early
Wilbur-Ellis Company	Integra	G3665	Bronze	Purple	Medium
Wilbur-Ellis Company	Integra	G3620	Bronze	Purple	Medium-Early
Wilbur-Ellis Company	Integra	G3711	Red	Purple	Late

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

Grain Sorghum

Company Contacts

Company	Brand	Contact Information	Phone	Email
Advanta Seeds	Alta Seeds	Zach Eder 8600 Freeport Pkwy, Suite 220 Irving, TX 75063	979-332-5138	zach.eder@advantaseeds.com
Bayer	DEKALB	Scott Stanislav 800 N. Lindbergh St. Louis, MO 63141	573-253-4962	scott.stanislav@bayer.com
Clemson University	Clemson	Rick Boyles 2200 Pocket Rd Florence, SC 29506	843-519-0488	rboyles@clemson.edu
Golden Acres	Golden Acres	Chris Sheppard 1122 E. 169th St 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
Nutrien Ag	Dyna-Gro	Joseph Legako PO Box 1050 Ralls, TX 79357	806-253-2584	joseph.legako@nutrien.com
Scott Seed Company	Scott Seed	Chuck Cielencki Box 1732 Hereford, TX 79045	806-683-1868	chuck@scottseed.net
Wilbur-Ellis Company	Integra	David Ferrell 1111 IH-35 North, Suite 206 Round Rock, TX 78664	662-671-9004	dferrell@wilburellis.com

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Monte Alto Full
2022 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)
Integra	G3711	71	57	3	0	15.3	61.1	8,230
Dyna-Gro	GX22934	70	55	2	0	15.9	59.6	8,105
Integra	G3665	69	55	5	0	14.9	57.6	8,093
DEKALB	DKS 54-07	73	57	3	0	15.9	61.7	8,045
Dyna-Gro	GX21965	71	54	2	0	15.2	62.2	7,958
Golden Acres	3180B	68	54	4	0	14.3	57.1	7,910
DEKALB	DKS 44-07	69	53	4	0	15.0	60.4	7,900
DEKALB	DKS 50-07	71	56	4	0	15.4	61.6	7,826
Dyna-Gro	M72GB71	70	55	5	0	15.3	59.7	7,785
Dyna-Gro	GX22932	70	59	4	0	15.5	60.2	7,781
Dyna-Gro	M67GB87	69	58	6	0	14.6	58.8	7,764
Golden Acres	4880R	73	56	3	0	15.6	61.8	7,669
Dyna-Gro	M71GR91	72	56	3	0	15.6	62.0	7,221
DEKALB	DKS 40-76	68	53	9	0	15.1	59.3	7,169
Alta Seeds	ADVG 2165	72	52	2	0	15.7	61.2	7,102
Dyna-Gro	M63GB78	67	52	8	0	15.1	60.2	6,674
Dyna-Gro	M60GB31	69	50	5	0	15.3	61.1	6,673
Alta Seeds	ADVG 2168IG	69	47	3	0	14.9	60.6	6,287
DEKALB	DKS 36-07	66	52	11	0	14.7	60.8	5,783
Dyna-Gro	M59GB94	64	54	11	0	14.9	59.2	5,097

*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
2022 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	54	5	0.0	15.2	60.3	7,354
	C.V. %	1.1	3.5	34.7		2.5	2.4	10.2
	P>f (hybrid)	0.000	0.000			0.000	0.000	0.000
	L.S.D.	1.1	2.7			0.5	2.1	561.0

Agronomic information

Plant Date	3/1/2022
Harvest Date	6/27/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	80,000
Precipitation (in)	9.2
Irrigation (in)	

Herbicide

Pre-emerge: 2 oz/ac Sharpen + 14 oz/ac Outlook
4/6/22: 2 qt/ac Warrant + 1 qt/ac Atrazine

Soil Type	Hidalgo sandy clay loam
Tillage	Conventional, beds
Previous Crop	Soybean

Trial Notes

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

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

Fertilizer Applied

N (lb/ac)	122
P2O5 (lb/ac)	56
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	15	pH	7.8
P (ppm)*	34	Conductivity (umho/cm)	213
K (ppm)*	381	Ca (ppm)*	2,681
S (ppm)*	34	Mg (ppm)*	382
		Na (ppm)*	139

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

Grain Sorghum
Monte Alto Full
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Wilbur-Ellis Company	Integra	G3665	7,398	
Bayer	DEKALB	DKS 54-07	7,335	7,171
Nutrien Ag	Dyna-Gro	GX21965	7,283	
Bayer	DEKALB	DKS 50-07	7,095	
Nutrien Ag	Dyna-Gro	M67GB87	6,988	
Bayer	DEKALB	DKS 44-07	6,945	6,894
Nutrien Ag	Dyna-Gro	M72GB71	6,847	6,816
Wilbur-Ellis Company	Integra	G3711	6,729	
Nutrien Ag	Dyna-Gro	M71GR91	6,560	6,697
Bayer	DEKALB	DKS 40-76	6,553	
Nutrien Ag	Dyna-Gro	M63GB78	6,201	
Bayer	DEKALB	DKS 36-07	5,642	5,749

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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Monte Alto Lim
2022 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	76	54	7	0	14.6	61.8	6,777
Dyna-Gro	M71GR91	78	56	2	0	14.7	61.9	6,506
Dyna-Gro	GX22934	79	52	2	0	14.4	62.2	6,251
DEKALB	DKS 54-07	80	54	3	0	14.5	60.8	6,249
DEKALB	DKS 50-07	77	56	5	0	14.5	62.1	6,208
Scott Seed	S75N495	80	57	2	0	14.6	62.0	6,129
Dyna-Gro	M72GB71	77	51	3	0	14.5	59.2	6,079
Integra	G3665	75	52	8	0	14.0	58.2	6,013
Scott Seed	S75A60	81	54	1	0	15.0	62.7	5,901
Integra	G3711	79	57	5	0	14.9	63.0	5,791
Scott Seed	S78A30	80	51	1	0	14.7	62.6	5,702
Dyna-Gro	GX21965	78	49	2	0	14.1	60.9	5,662
Dyna-Gro	GX22932	77	51	3	0	14.6	61.6	5,632
Dyna-Gro	M63GB78	75	50	6	0	14.2	59.7	5,463
DEKALB	DKS 36-07	73	48	8	0	14.5	61.9	5,310
Dyna-Gro	M67GB87	77	48	4	0	13.8	58.9	5,292
Dyna-Gro	M60GB31	76	49	4	0	14.2	59.4	5,003
Scott Seed	S75N75	75	56	8	0	14.1	58.6	4,976
DEKALB	DKS 40-76	76	45	5	0	14.4	59.3	4,926
Dyna-Gro	M59GB94	72	49	10	0	14.1	58.9	4,407

*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 Lim
2022 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		77	52	4	0.0	14.4	60.8	5,714
C.V. %		1.1	7.3	38.6		2.2	3.0	8.6
P>f (hybrid)		0.000	0.000			0.000	0.001	0.000
L.S.D.		1.2	5.5			0.5	2.6	711.5

Agronomic information

Plant Date	2/23/2022
Harvest Date	6/25/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	55,000
Precipitation (in)	9.2
Irrigation (in)	

Herbicide

Pre-emerge: 2 oz/ac Sharpen + 14 oz/ac Outlook

Soil Type	Hidalgo sandy clay loam
Tillage	Conventional, beds
Previous Crop	Cotton

Trial Notes

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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ronnie.schnell@ag.tamu.edu / katrina.horn@ag.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)	87
P2O5 (lb/ac)	56
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	25	pH	8.0
P (ppm)*	40	Conductivity (umho/cm)	256
K (ppm)*	526	Ca (ppm)*	5,202
S (ppm)*	37	Mg (ppm)*	367
		Na (ppm)*	108

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

Grain Sorghum
Monte Alto Limited
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 44-07	6,428	5,661
Nutrien Ag	Dyna-Gro	M71GR91	6,353	5,378
Bayer	DEKALB	DKS 54-07	6,298	5,402
Bayer	DEKALB	DKS 50-07	6,271	
Wilbur-Ellis Company	Integra	G3711	5,929	5,161
Wilbur-Ellis Company	Integra	G3665	5,904	5,274
Nutrien Ag	Dyna-Gro	M72GB71	5,663	4,926
Nutrien Ag	Dyna-Gro	GX21965	5,536	
Nutrien Ag	Dyna-Gro	M67GB87	5,428	
Bayer	DEKALB	DKS 36-07	5,256	4,491
Nutrien Ag	Dyna-Gro	M63GB78	4,989	
Bayer	DEKALB	DKS 40-76	4,896	

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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Driscoll
2022 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	GX21965	74	45	3	0	13.9	62.0	4,675
Dyna-Gro	GX22932	74	50	4	0	14.2	60.9	4,300
DEKALB	DKS 44-07	74	45	3	0	13.7	62.2	4,298
Dyna-Gro	M60GB31	74	43	4	0	14.9	61.8	4,281
DEKALB	DKS 54-07	76	47	2	0	14.4	61.8	4,254
DEKALB	DKS 45-60	74	47	7	0	14.1	62.7	4,237
Dyna-Gro	GX22934	75	46	2	0	14.4	62.5	4,216
Dyna-Gro	M71GR91	75	49	3	0	14.0	62.3	4,192
DEKALB	DKS 50-07	75	48	5	0	15.1	61.8	4,007
Integra	G3711	75	46	3	0	13.9	62.2	3,951
Integra	G3665	74	44	4	0	13.4	59.7	3,849
Dyna-Gro	M72GB71	74	46	2	0	14.6	60.9	3,710
Alta Seeds	ADVG 2165	75	46	2	0	13.8	60.5	3,521
Dyna-Gro	M67GB87	74	45	3	0	13.4	59.9	3,516
Dyna-Gro	M63GB78	74	45	5	0	13.4	60.6	3,238
DEKALB	DKS 40-76	74	44	5	0	13.5	61.2	3,138
DEKALB	DKS 36-07	74	44	5	0	13.7	61.4	3,041
Alta Seeds	ADVG 2168IG	74	40	4	0	14.5	60.2	3,011
Dyna-Gro	M59GB94	74	46	6	0	13.4	60.7	2,653

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

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2022 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	74	46	4	0.0	14.0	61.3	3,794
	C.V. %	0.9	4.9	25.7		5.1	2.1	8.6
	P>f (hybrid)	0.002	0.000	0.000		0.106	0.084	0.000
	L.S.D.	1.0	3.2	1.3				542.1

Agronomic information

Plant Date	3/4/2022
Harvest Date	7/13/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	4.7
Irrigation (in)	
Herbicide	
Soil Type	Victoria 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:

Dr. Ronnie Schnell / Katrina Horn
ronnie.schnell@ag.tamu.edu / katrina.horn@ag.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)	37	pH	7.8
P (ppm)*	15	Conductivity (umho/cm)	231
K (ppm)*	411	Ca (ppm)*	5,749
S (ppm)*	12	Mg (ppm)*	281
		Na (ppm)*	44

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

Grain Sorghum
Driscoll
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Nutrien Ag	Dyna-Gro	M71GR91	4,720	4,507
Bayer	DEKALB	DKS 44-07	4,567	4,617
Wilbur-Ellis Company	Integra	G3711	4,491	4,373
Wilbur-Ellis Company	Integra	G3665	4,443	4,425
Bayer	DEKALB	DKS 54-07	4,302	4,179
Bayer	DEKALB	DKS 50-07	4,260	
Bayer	DEKALB	DKS 45-60	4,184	4,194
Bayer	DEKALB	DKS 40-76	3,883	
Nutrien Ag	Dyna-Gro	M67GB87	3,871	
Bayer	DEKALB	DKS 36-07	3,843	4,048
Nutrien Ag	Dyna-Gro	GX21965	3,633	
Nutrien Ag	Dyna-Gro	M63GB78	3,602	
Nutrien Ag	Dyna-Gro	M72GB71	3,600	3,927

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Gregory
2022 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	G3665	66	47	4	0	14.5	59.4	4,736
Dyna-Gro	GX21965	70	48	3	0	15.4	60.7	4,683
DEKALB	DKS 44-07	68	45	3	0	14.9	61.1	4,672
Dyna-Gro	M67GB87	68	50	4	0	14.4	59.7	4,344
DEKALB	DKS 50-07	69	50	4	0	15.4	61.7	4,253
Golden Acres	3180B	67	45	4	0	14.5	59.6	4,198
DEKALB	DKS 36-07	63	49	6	0	14.9	60.9	4,171
Dyna-Gro	GX22934	68	50	3	0	15.3	60.8	4,076
Dyna-Gro	M60GB31	68	45	4	0	15.1	61.2	4,067
Dyna-Gro	GX22932	67	52	4	0	15.5	61.4	4,032
DEKALB	DKS 54-07	70	52	3	0	15.0	60.9	4,009
DEKALB	DKS 40-76	63	47	6	0	15.1	60.4	4,001
DEKALB	DKS 45-60	67	48	6	0	15.5	61.9	3,969
Scott Seed	S75N495	N/A	53	4	0	14.9	60.1	3,810
Alta Seeds	ADVG 2165	70	47	2	0	15.4	61.0	3,778
Integra	G3711	70	51	3	0	15.2	61.3	3,737
Scott Seed	S75N75	67	55	5	0	15.0	61.5	3,703
Dyna-Gro	M71GR91	70	49	3	0	14.9	60.3	3,635
Scott Seed	S78A30	68	46	2	0	15.4	60.5	3,579
Dyna-Gro	M63GB78	64	45	4	0	14.8	59.5	3,496
Golden Acres	4880R	70	50	4	0	14.9	60.7	3,491

*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

Gregory
2022 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	70	49	2	0	15.1	61.7	3,450
Alta Seeds	ADVG 2168IG	66	41	4	0	14.9	60.4	3,392
Dyna-Gro	M59GB94	62	48	7	0	14.7	60.3	3,080
Scott Seed	S75A60	70	51	2	0	15.0	61.7	2,794

*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

Gregory
2022 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		68	48	4	0.0	15.0	60.7	3,886
C.V. %		1.9	3.7	27.6		3.2	1.7	9.8
P>f (hybrid)		0.000	0.000			0.037	0.011	0.000
L.S.D.		1.8	2.5			0.7	1.4	539.1

Agronomic information

Plant Date	3/7/2022
Harvest Date	7/14/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	4.3
Irrigation (in)	

Herbicide

12.8 oz/ac Outlook + 1 lb/ac Atrazine

Soil Type	Victoria clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

* Test plot was sprayed for aphids with Transform

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:

Dr. Ronnie Schnell / Katrina Horn
ronnie.schnell@ag.tamu.edu / katrina.horn@ag.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)	92
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	13
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	39	pH	7.8
P (ppm)*	13	Conductivity (umho/cm)	166
K (ppm)*	389	Ca (ppm)*	7,050
S (ppm)*	15	Mg (ppm)*	383
		Na (ppm)*	169

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

Grain Sorghum
Gregory
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 44-07	5,375	5,738
Bayer	DEKALB	DKS 54-07	5,075	5,443
Wilbur-Ellis Company	Integra	G3665	5,043	5,317
Bayer	DEKALB	DKS 50-07	4,993	
Nutrien Ag	Dyna-Gro	GX21965	4,966	
Bayer	DEKALB	DKS 45-60	4,883	5,116
Wilbur-Ellis Company	Integra	G3711	4,845	5,163
Bayer	DEKALB	DKS 36-07	4,830	5,141
Golden Acres	Golden Acres	3180B	4,762	
Bayer	DEKALB	DKS 40-76	4,753	
Nutrien Ag	Dyna-Gro	M67GB87	4,622	
Nutrien Ag	Dyna-Gro	M71GR91	4,592	5,264
Nutrien Ag	Dyna-Gro	M63GB78	4,517	
Nutrien Ag	Dyna-Gro	M72GB71	4,464	5,003

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

Damon
2022 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	59	51	4	0	13.3	59.4	6,572
DEKALB	DKS 50-07	60	50	3	0	13.6	60.7	6,397
Dyna-Gro	M67GB87	60	54	3	0	11.6	56.3	6,349
DEKALB	DKS 45-60	59	50	6	0	13.7	60.5	6,180
Dyna-Gro	GX22934	60	53	3	0	13.8	60.4	6,163
Dyna-Gro	M71GR91	61	55	4	0	13.7	59.8	6,154
DEKALB	DKS 40-76	60	52	4	0	13.4	59.6	5,895
Dyna-Gro	M63GB78	58	50	3	0	13.5	58.9	5,879
Dyna-Gro	GX22932	59	55	5	0	13.7	59.9	5,828
DEKALB	DKS 54-07	62	54	4	0	13.6	59.2	5,686
Dyna-Gro	GX21965	60	52	3	0	13.0	58.2	5,390
Alta Seeds	ADVG 2165	59	50	3	0	13.5	59.0	4,876
Dyna-Gro	M72GB71	61	52	2	0	13.3	59.3	4,734
Dyna-Gro	M60GB31	59	49	4	0	13.0	58.7	4,617
Alta Seeds	ADVG 2168IG	59	48	3	0	12.9	59.2	4,569
DEKALB	DKS 36-07	57	52	4	0	13.6	59.0	4,367
Dyna-Gro	M59GB94	56	52	5	0	13.9	58.9	3,987

*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
2022 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		59	52	3	0.0	13.3	59.2	5,508
C.V. %		1.7	4.7	35.5		6.3	1.5	9.3
P>f (hybrid)		0.000	0.002			0.079	0.000	0.000
L.S.D.		1.4	3.5				1.3	739.5

Agronomic information

Plant Date	4/1/2022
Harvest Date	7/19/2022
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	12.4
Irrigation (in)	
Herbicide	
Soil Type	Lake Charles clay
Tillage	Conventional beds
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:

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

Soil Analysis Report**

NO3-N (ppm)	27	pH	5.1
P (ppm)*	74	Conductivity (umho/cm)	203
K (ppm)*	267	Ca (ppm)*	2,137
S (ppm)*	12	Mg (ppm)*	750
		Na (ppm)*	21

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

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Damon
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Dyna-Gro	GX21965	36,100	38,551	56	0.07	0.0	0.14		
Dyna-Gro	GX22932	34,794	46,718	54	0.36	0.0	0.13		
Dyna-Gro	GX22934	40,021	48,025	62	0.21	0.0	0.13		
Dyna-Gro	M59GB94	29,730	36,590	46	0.24	0.0	0.11		
Dyna-Gro	M60GB31	35,774	42,471	55	0.19	0.0	0.11		
Dyna-Gro	M63GB78	34,304	47,535	53	0.40	0.0	0.12		
Dyna-Gro	M67GB87	35,774	55,539	55	0.58	0.0	0.11		
Dyna-Gro	M71GR91	44,105	48,678	68	0.15	0.0	0.13		
Dyna-Gro	M72GB71	33,813	40,347	52	0.21	0.0	0.12		
DEKALB	DKS 36-07	30,220	36,264	46	0.20	0.0	0.12		
DEKALB	DKS 40-76	38,224	45,411	59	0.19	0.0	0.13		
DEKALB	DKS 44-07	37,244	49,005	57	0.31	0.0	0.15		
DEKALB	DKS 45-60	37,080	46,718	57	0.41	0.0	0.13		
DEKALB	DKS 50-07	34,794	47,208	54	0.41	0.0	0.14		
DEKALB	DKS 54-07	34,304	44,431	53	0.32	0.0	0.13		
Alta Seeds	ADVG 2165	33,813	37,571	52	0.12	0.0	0.14		
Alta Seeds	ADVG 2168IG	34,304	36,754	53	0.18	0.0	0.13		

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Soil & Crop Sciences

Damon
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Mean		35,553	43,989	55	0.27	0.0	0.13		

Agronomic information

Plant Date	4/1/2022
Harvest Date	7/19/2022
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	12.4
Irrigation (in)	
Herbicide	
Soil Type	Lake Charles clay
Tillage	Conventional beds
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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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)	27	pH	5.1
P (ppm)*	74	Conductivity (umho/cm)	203
K (ppm)*	267	Ca (ppm)*	2,137
S (ppm)*	12	Mg (ppm)*	750
		Na (ppm)*	21

Grain Sorghum
Damon
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 45-60	6,148	6,584
Bayer	DEKALB	DKS 44-07	6,126	6,899
Bayer	DEKALB	DKS 54-07	5,929	6,594
Nutrien Ag	Dyna-Gro	M71GR91	5,748	6,596
Bayer	DEKALB	DKS 50-07	5,629	
Bayer	DEKALB	DKS 40-76	5,607	
Nutrien Ag	Dyna-Gro	M67GB87	5,575	
Nutrien Ag	Dyna-Gro	M63GB78	5,443	
Nutrien Ag	Dyna-Gro	M72GB71	5,135	5,836
Nutrien Ag	Dyna-Gro	GX21965	5,027	
Bayer	DEKALB	DKS 36-07	4,783	5,183

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
2022 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	46	3	0	12.8	57.3	5,051
Golden Acres	3180B	68	48	3	0	11.0	53.7	4,541
Integra	G3665	67	46	2	0	10.8	54.5	4,495
Dyna-Gro	M67GB87	68	50	3	0	11.6	53.6	4,357
DEKALB	DKS 50-07	69	51	4	0	13.1	57.5	4,236
Dyna-Gro	GX22934	68	49	3	0	12.3	57.1	4,160
Dyna-Gro	GX22932	69	53	4	0	11.7	55.9	4,024
Alta Seeds	ADVG 2168IG	66	41	2	0	10.4	54.0	4,005
Dyna-Gro	M71GR91	70	52	3	0	12.9	56.6	3,953
Golden Acres	4880R	71	53	2	0	13.1	57.7	3,811
DEKALB	DKS 40-76	68	48	4	0	11.7	56.1	3,786
Integra	G3711	71	51	2	0	12.5	57.2	3,661
DEKALB	DKS 54-07	70	50	2	0	11.4	55.5	3,600
DEKALB	DKS 45-60	68	47	5	0	12.3	57.9	3,594
Dyna-Gro	M63GB78	66	49	4	0	12.0	54.9	3,561
Dyna-Gro	M72GB71	72	52	3	0	12.2	56.6	3,526
Dyna-Gro	M59GB94	61	46	4	0	11.9	56.2	3,346
Dyna-Gro	GX21965	71	47	2	0	11.1	53.8	2,732
Scott Seed	S75A60	73	54	2	0	12.3	56.7	2,584
Dyna-Gro	M60GB31	69	48	3	0	12.0	55.3	2,502
Clemson	CU19S427	75	50	2	0	13.0	55.1	1,923

*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
2022 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)
Scott Seed	S78A30	70	49	2	0	12.2	55.7	1,914
Alta Seeds	ADVG 2165	72	45	1	0	9.9	51.7	1,732
Clemson	CU16S159	71	59	4	0	13.1	56.0	1,549
Scott Seed	S75N75	68	58	5	0	12.0		1,122
Scott Seed	S75N495	76	52	2	0	14.3	55.9	1,117

*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
2022 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		69	50	3	0.0	12.1	55.7	3,265
C.V. %		1.7	4.7	36.8		7.3	2.1	17.8
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.7	3.3			1.2	1.8	820.8

Agronomic information

Plant Date	4/6/2022
Harvest Date	8/26/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	80,000
Precipitation (in)	15.1
Irrigation (in)	

Herbicide

1.5 pt/ac Dual + 3 pt/ac Atrazine post plant

Soil Type	Weswood silty clay loam
Tillage	Chiseled, disked, bedded
Previous Crop	Corn

Trial Notes

*6/20/22 sprayed with 1.3 oz/ac Tombstone + 4 oz/ac Sivanto Prime

Cooperator: Texas A&M AgriLife Research

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

Soil Analysis Report**

NO3-N (ppm)	7	pH	7.9
P (ppm)*	28	Conductivity (umho/cm)	129
K (ppm)*	139	Ca (ppm)*	3,707
S (ppm)*	8	Mg (ppm)*	151
		Na (ppm)*	10

*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
Bayer	DEKALB	DKS 44-07	5,631	6,119
Golden Acres	Golden Acres	3180B	5,450	
Wilbur-Ellis Company	Integra	G3665	5,377	5,814
Bayer	DEKALB	DKS 50-07	5,359	
Nutrien Ag	Dyna-Gro	M67GB87	5,268	
Nutrien Ag	Dyna-Gro	M71GR91	5,054	6,104
Golden Acres	Golden Acres	4880R	5,038	6,043
Nutrien Ag	Dyna-Gro	GX21965	4,515	
Nutrien Ag	Dyna-Gro	M72GB71	4,465	5,109
Wilbur-Ellis Company	Integra	G3711	4,417	5,733
Bayer	DEKALB	DKS 54-07	4,279	5,212
Nutrien Ag	Dyna-Gro	M63GB78	4,202	

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
2022 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	77	39	0	0.0	11.3	51.0	969
	C.V. %	6.1	8.2	386.4		6.3		33.0
	P>f (hybrid)	0.009	0.013			0.462		
	L.S.D.	6.7	4.5					

Agronomic information

Plant Date	4/5/2022
Harvest Date	9/7/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	20.7
Irrigation (in)	

Herbicide

1 qt/ac Roundup pre, 1 qt/ac Dual + 2 lbs/ac Atrazine

Soil Type	Burleson clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

*Results not published due to high CV.

* 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
ronnie.schnell@ag.tamu.edu / katrina.horn@ag.tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

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

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.

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Hillsboro
2022 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	3	24.7	8.4	56.7	2,835
C.V. %		1.5	3.3	37.0	53.8	11.6	2.7	29.6
P>f (hybrid)		0.000	0.000	0.000		0.086	0.001	
L.S.D.		1.5	2.4	1.5			2.3	

Agronomic information

Plant Date	3/25/2022
Harvest Date	8/4/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	13.5
Irrigation (in)	

Herbicide

1 qt/ac Roundup Powermax + 14 oz/ac Outlook + 24 oz/ac Callisto Extra at planting

Soil Type	Tinn clay
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

*Insecticide: 4 oz/ac lambda cy + 8 oz/ac dimethoate
*7 lb/ac magnesium applied

*Results not published due to high CV.

* 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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979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	140
P2O5 (lb/ac)	49
K2O (lb/ac)	15
S (lb/ac)	16
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	54	pH	7.6
P (ppm)*	32	Conductivity (umho/cm)	367
K (ppm)*	394	Ca (ppm)*	9,484
S (ppm)*	16	Mg (ppm)*	270
		Na (ppm)*	31

*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

Greenville
2022 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	GX22934	67	50	0	0	9.6	58.2	4,691
DEKALB	DKS 54-07	68	51	1	0	10.1	57.7	4,664
DEKALB	DKS 40-76	65	47	4	0	9.3	58.2	4,469
Dyna-Gro	GX21965	67	48	2	0	8.8	56.7	4,414
DEKALB	DKS 45-60	65	47	2	0	9.4	57.9	4,360
DEKALB	DKS 36-07	63	47	2	0	8.4	57.2	4,336
DEKALB	DKS 50-07	66	49	2	0	9.6	58.6	4,304
DEKALB	DKS 44-07	67	45	0	0	8.6	57.8	4,276
Dyna-Gro	M71GR91	68	48	0	0	9.2	58.0	4,220
Dyna-Gro	M63GB78	64	47	2	0	8.1	56.7	3,912
Dyna-Gro	M67GB87	66	48	1	0	8.3	55.9	3,895
Dyna-Gro	GX22932	67	49	2	0	9.7	57.2	3,699
Dyna-Gro	M60GB31	66	45	1	0	9.1	58.2	3,691
Dyna-Gro	M72GB71	69	47	1	0	9.2	58.2	3,615
Dyna-Gro	M59GB94	62	52	5	0	7.8	56.5	3,389
Scott Seed	S75A60	69	47	1	0	9.6	57.7	3,164
Alta Seeds	ADVG 2168IG	63	44	3	0	7.6	53.8	2,922
Alta Seeds	ADVG 2165	66	46	2	0	8.0	55.6	2,919
Scott Seed	S75N495	70	48	1	0	9.7	56.3	2,727
Scott Seed	S78A30	67	44	0	0	9.2	56.7	2,674
Scott Seed	S75N75	66	52	2	0	9.5	57.1	2,446

*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

Greenville
2022 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		66	48	1	0.0	9.0	57.1	3,752
C.V. %		1.3	3.8	64.3		9.0	1.4	10.2
P>f (hybrid)		0.000	0.000			0.001	0.000	0.000
L.S.D.		1.2	2.6			1.2	1.2	545.4

Agronomic information

Plant Date	4/15/2022
Harvest Date	9/13/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	22.7
Irrigation (in)	

Herbicide

1 qt/ac Atrazine pre-plant
1 qt/ac Atrazine post

Soil Type	Houston Black clay
Tillage	Conventional
Previous Crop	Wheat

Trial Notes

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

Cooperator: Texas A&M AgriLife Research

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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ronnie.schnell@ag.tamu.edu / katrina.horn@ag.tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	127
P2O5 (lb/ac)	69
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	33	pH	5.8
P (ppm)*	37	Conductivity (umho/cm)	205
K (ppm)*	280	Ca (ppm)*	5,159
S (ppm)*	9	Mg (ppm)*	335
		Na (ppm)*	61

*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

Greenville
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Scott Seed	S75A60	35,501	45,738	55	0.46	0.0	0.08		
Scott Seed	S75N495	35,284	35,719	54	0.18	0.0	0.08		
Scott Seed	S75N75	24,394	27,443	38	0.31	0.0	0.10		
Scott Seed	S78A30	39,640	42,471	61	0.33	0.0	0.07		
Dyna-Gro	GX21965	49,441	55,975	76	0.22	0.0	0.08		
Dyna-Gro	GX22932	37,679	44,213	58	0.28	0.0	0.09		
Dyna-Gro	GX22934	45,956	47,916	71	0.12	0.0	0.10		
Dyna-Gro	M59GB94	44,213	46,391	68	0.32	0.0	0.08		
Dyna-Gro	M60GB31		34,412	62	1.12	0.0	0.11		
Dyna-Gro	M63GB78	38,551	46,827	59	0.24	0.0	0.08		
Dyna-Gro	M67GB87	32,888	46,391	51	0.74	0.0	0.10		
Dyna-Gro	M71GR91	32,670	38,333	50	0.45	0.0	0.11		
Dyna-Gro	M72GB71	21,127	36,808	33	1.14	0.0	0.10		
DEKALB	DKS 36-07	34,267	45,012	53	0.51	0.0	0.10		
DEKALB	DKS 40-76	40,075	51,401	62	0.32	0.0	0.09		
DEKALB	DKS 44-07	32,670	37,462	50	0.26	0.0	0.12		
DEKALB	DKS 45-60	41,382	43,560	64	0.39	0.0	0.11		
DEKALB	DKS 50-07		44,213	72	0.29	0.0	0.10		
DEKALB	DKS 54-07	37,897	47,698	58	0.45	0.0	0.10		
Alta Seeds	ADVG 2165	29,185	39,204	45	0.69	0.0	0.07		
Alta Seeds	ADVG 2168IG		30,056	57	0.13	0.0	0.10		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Greenville
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Mean		36,967	42,250	57	0.43	0.0	0.09		

Agronomic information

Plant Date	4/15/2022
Harvest Date	9/13/2022
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	22.7
Irrigation (in)	

Herbicide

1 qt/ac Atrazine pre-plant
1 qt/ac Atrazine post

Soil Type	Houston Black clay
Tillage	Conventional
Previous Crop	Wheat

Trial Notes

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

Cooperator: Texas A&M AgriLife Research

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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ronnie.schnell@agnet/tamu.edu / katrina.horn@agnet.tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	127
P2O5 (lb/ac)	69
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	33	pH	5.8
P (ppm)*	37	Conductivity (umho/cm)	205
K (ppm)*	280	Ca (ppm)*	5,159
S (ppm)*	9	Mg (ppm)*	335
		Na (ppm)*	61

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Canyon
2022 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	N/A	49	4	0	14.7	56.5	5,985
Golden Acres	3180B	N/A	53	5	0	14.7	52.9	5,173
Dyna-Gro	GX22932	N/A	58	5	0	15.7	54.8	5,070
Integra	G3665	N/A	57	6	3	13.6	54.8	5,059
Dyna-Gro	GX22934	N/A	57	6	0	15.7	56.9	5,046
Dyna-Gro	M54GR24	N/A	48	7	25	14.2	56.5	4,845
Alta Seeds	ADVG 2165	N/A	53	5	7	15.1	54.9	4,777
Integra	G3711	N/A	54	4	0	14.7	56.4	4,776
Alta Seeds	ADVG 2168IG	N/A	51	6	0	15.1	53.7	4,768
DEKALB	DKS 40-76	N/A	55	7	0	15.3	54.8	4,717
Dyna-Gro	M71GR91	N/A	57	6	8	14.1	55.6	4,566
Dyna-Gro	M67GB87	N/A	56	3	0	14.3	55.3	4,453
Golden Acres	4880R	N/A	53	3	0	15.4	55.4	4,317
Dyna-Gro	M60GB31	N/A	53	7	10	14.6	55.5	4,311
Dyna-Gro	GX21965	N/A	54	5	18	14.1	55.3	4,226
Integra	G3620	N/A	50	7	0	13.6	56.0	4,171
DEKALB	DKS 45-60	N/A	57	6	0	15.7	56.1	4,127
DEKALB	DKS 36-07	N/A	52	4	0	13.9	55.8	4,111
DEKALB	DKS 50-07	N/A	53	5	0	13.8	56.2	3,987
Dyna-Gro	M57GC29	N/A	40	4	0	13.5	55.9	3,898
Dyna-Gro	M72GB71	N/A	56	6	0	13.7	53.8	3,779

*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

Canyon
2022 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	M63GB78	N/A	53	6	8	14.6	56.2	3,489
Dyna-Gro	M59GB94	N/A	52	4	0	13.6	55.3	3,136

*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

Canyon
2022 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	5	3.4	14.5	55.4	4,469
C.V. %			5.2	39.8	83.1	6.1	2.7	16.0
P>f (hybrid)			0.000			0.012	0.092	0.034
L.S.D.			4.4			1.4		1268.3

Agronomic information

Plant Date	6/15/2022
Harvest Date	11/16/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	19
Irrigation (in)	10
Herbicide	
Soil Type	Pullman clay loam
Tillage	
Previous Crop	

Trial Notes

*Sprayed for aphids once

Cooperator: Chandler Adam

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)	10	pH	7.2
P (ppm)*	27	Conductivity (umho/cm)	148
K (ppm)*	474	Ca (ppm)*	2,187
S (ppm)*	9	Mg (ppm)*	440
		Na (ppm)*	83

*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

Canyon
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Integra	G3620	45,520	58,588	76	0.34	0.0	0.07		
Integra	G3665	44,431	61,420	74	0.41	3.3	0.07		
Integra	G3711	38,115	50,530	64	0.47	0.0	0.10		
Golden Acres	3180B	40,366	58,370	67	0.48	0.0	0.09		
Golden Acres	4880R	42,907	56,192	72	0.33	0.0	0.07		
Dyna-Gro	GX21965	40,075	46,174	67	0.28	17.5	0.09		
Dyna-Gro	GX22932	33,977	52,853	57	0.60	0.0	0.09		
Dyna-Gro	GX22934	41,237	53,724	69	0.31	0.0	0.09		
Dyna-Gro	M54GR24	37,026	58,370	62	0.84	25.0	0.08		
Dyna-Gro	M57GC29	27,298	49,658	45	0.97	0.0	0.08		
Dyna-Gro	M59GB94	35,138	51,401	59	0.76	0.0	0.06		
Dyna-Gro	M60GB31	40,366	54,305	67	0.39	10.0	0.08		
Dyna-Gro	M63GB78	31,799	49,005	53	0.67	7.5	0.07		
Dyna-Gro	M67GB87	25,555	49,078	43	0.97	0.0	0.09		
Dyna-Gro	M71GR91	39,640	54,886	66	0.38	7.5	0.08		
Dyna-Gro	M72GB71	35,719	47,335	60	0.34	0.0	0.08		
DEKALB	DKS 36-07	28,314	54,232	47	0.98	0.0	0.08		
DEKALB	DKS 40-76	38,333	59,242	64	0.59	0.0	0.08		
DEKALB	DKS 44-07	45,593	55,176	76	0.22	0.0	0.11		
DEKALB	DKS 45-60	37,462	52,054	62	0.40	0.0	0.08		
DEKALB	DKS 50-07	32,234	46,174	54	0.48	0.0	0.08		
Alta Seeds	ADVG 2165	39,494	52,272	66	0.33	6.7	0.09		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Canyon
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Alta Seeds	ADVG 2168IG	40,946	49,658	68	0.21	0.0	0.10		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Canyon
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Mean		37,458	53,074	62	0.51	3.4	0.08		

Agronomic information

Plant Date	6/15/2022
Harvest Date	11/16/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	19
Irrigation (in)	10
Herbicide	
Soil Type	Pullman clay loam
Tillage	
Previous Crop	

Trial Notes

*Sprayed for aphids once

Cooperator: Chandler Adam

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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ronnie.schnell@agnet/tamu.edu / katrina.horn@agnet.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)	10	pH	7.2
P (ppm)*	27	Conductivity (umho/cm)	148
K (ppm)*	474	Ca (ppm)*	2,187
S (ppm)*	9	Mg (ppm)*	440
		Na (ppm)*	83

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Sunray
2022 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	N/A	56	5	0	18.8	59.3	7,785
Dyna-Gro	GX22934	N/A	56	5	0	18.3	59.3	7,752
DEKALB	DKS 40-76	N/A	52	5	0	19.0	55.8	7,258
DEKALB	DKS 45-60	N/A	54	7	0	18.7	58.3	7,143
Dyna-Gro	GX22932	64	57	6	0	18.8	59.0	7,004
Dyna-Gro	GX21965	64	52	3	0	18.1	58.9	6,925
Dyna-Gro	M71GR91	64	53	4	0	18.5	59.1	6,843
DEKALB	DKS 50-07	64	50	4	0	17.6	59.3	6,730
Alta Seeds	ADVG 2165	N/A	54	5	0	20.0	57.8	6,576
Dyna-Gro	M63GB78	N/A	52	3	0	18.4	56.3	6,570
DEKALB	DKS 44-07	63	48	4	0	17.9	60.1	6,543
Dyna-Gro	M60GB31	62	51	6	0	18.8	58.1	6,423
Dyna-Gro	M72GB71	64	53	5	0	18.1	58.6	6,365
Golden Acres	4880R	N/A	53	6	0	19.0	59.0	6,336
Dyna-Gro	M67GB87	63	48	5	0	15.9	56.6	6,312
Integra	G3665	63	54	6	0	16.6	57.0	6,285
Golden Acres	3180B	62	48	3	0	15.6	56.9	6,166
Alta Seeds	ADVG 2168IG	65	46	5	0	18.2	57.3	6,149
DEKALB	DKS 36-07	62	49	6	0	16.8	57.6	5,997
Dyna-Gro	M59GB94	62	51	5	0	17.7	57.0	5,992
Clemson	CU16S159	N/A	65	3	0	19.8	57.6	5,858

*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)
Clemson	CU19S427	63	57	4	0	19.0	56.9	5,780
Dyna-Gro	M54GR24	61	44	5	0	17.1	58.5	5,566
Integra	G3620	63	50	5	0	17.2	58.2	5,406
Dyna-Gro	M57GC29	59	40	5	0	16.5	58.3	4,307

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

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2022 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		63	52	5	0.0	18.0	58.0	6,403
C.V. %		1.0	7.6	35.6		6.3	1.7	13.5
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.2	5.5			1.6	1.4	1,236.9

Agronomic information

Plant Date	6/16/2022
Harvest Date	11/2/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	40,000
Precipitation (in)	14.5
Irrigation (in)	
Herbicide	
Soil Type	Sherm silty clay loam
Tillage	
Previous Crop	

Trial Notes

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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** 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)	44	pH	7.3
P (ppm)*	76	Conductivity (umho/cm)	307
K (ppm)*	781	Ca (ppm)*	2,196
S (ppm)*	18	Mg (ppm)*	790
		Na (ppm)*	46

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

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Sunray
2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Integra	G3620	33,323	52,490	83	0.58	0.0	0.10		
Integra	G3665	40,075	59,895	100	0.50	0.0	0.11		
Integra	G3711	32,888	54,014	82	0.76	0.0	0.14		
Golden Acres	3180B	35,501	56,410	89	0.60	0.0	0.11		
Golden Acres	4880R	35,066	53,361	88	0.53	0.0	0.12		
Dyna-Gro	GX21965	35,501	44,649	89	0.27	0.0	0.16		
Dyna-Gro	GX22932	30,928	57,064	77	0.91	0.0	0.12		
Dyna-Gro	GX22934	32,017	55,975	80	0.75	0.0	0.14		
Dyna-Gro	M54GR24	32,888	60,548	82	0.84	0.0	0.09		
Dyna-Gro	M57GC29	35,284	59,024	88	0.68	0.0	0.07		
Dyna-Gro	M59GB94	35,284	69,043	88	0.96	0.0	0.09		
Dyna-Gro	M60GB31	31,581	53,361	79	0.70	0.0	0.12		
Dyna-Gro	M63GB78	31,145	54,232	78	0.73	0.0	0.12		
Dyna-Gro	M67GB87	30,274	65,558	76	1.18	0.0	0.10		
Dyna-Gro	M71GR91	30,492	52,708	76	0.74	0.0	0.12		
Dyna-Gro	M72GB71	29,403	45,520	74	0.59	0.0	0.14		
DEKALB	DKS 36-07	37,026	64,469	93	0.74	0.0	0.09		
DEKALB	DKS 40-76	34,630	62,291	87	0.84	0.0	0.12		
DEKALB	DKS 44-07	34,195	55,321	85	0.63	0.0	0.12		
DEKALB	DKS 45-60	30,492	55,539	76	0.87	0.0	0.13		
DEKALB	DKS 50-07	38,115	55,103	95	0.45	0.0	0.12		
Clemson	CU16S159	29,839	40,729	75	0.43	0.0	0.15		

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2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Clemson	CU19S427	29,621	43,778	74	0.50	0.0	0.13		
Alta Seeds	ADVG 2165	33,323	49,876	83	0.51	0.0	0.13		
Alta Seeds	ADVG 2168IG	29,839	54,014	75	0.83	0.0	0.11		

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2022 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	Weathering Rating (0-9)	Iron Chlorosis Rating
Mean		33,149	54,999	83	0.68	0.0	0.12		

Agronomic information

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

Soil Analysis Report**

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		Na (ppm)*	46

Grain Sorghum
Sunray
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Wilbur-Ellis Company	Integra	G3711	7,820	
Bayer	DEKALB	DKS 40-76	7,753	
Bayer	DEKALB	DKS 45-60	7,677	6,467
Bayer	DEKALB	DKS 50-07	7,639	
Wilbur-Ellis Company	Integra	G3665	7,564	
Golden Acres	Golden Acres	3180B	7,390	6,979
Bayer	DEKALB	DKS 44-07	7,309	7,181
Bayer	DEKALB	DKS 36-07	7,223	5,827
Golden Acres	Golden Acres	4880R	7,202	6,959
Nutrien Ag	Dyna-Gro	M67GB87	7,175	
Nutrien Ag	Dyna-Gro	M59GB94	6,902	5,035
Nutrien Ag	Dyna-Gro	M63GB78	6,895	
Wilbur-Ellis Company	Integra	G3620	6,605	5,613
Nutrien Ag	Dyna-Gro	M60GB31	6,294	4,848

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
Chandler Adam	Canyon	Randall	High Plains
Lone Star Family Farms	Sunray	Moore	High Plains

Texas A&M AgriLife Personnel:
Allison Baca
JR Cantu
Ryan Collett
Dennis Coker
Marcel Fischbacher
Jake Hanes
Stephen Labar
Bob McCool
Dennis Pietsch
J.D. Ragland

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Others: Brent Bean, United Sorghum Checkoff

Produced by the Department of Soil and Crop Sciences
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