SCS-2017-21

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

2017

2017 Grain Sorghum Performance Trials in Texas

Department of Soil and Crop Sciences

Ronnie Schnell - *Assistant Professor & Extension Specialist*
Katrina Horn - *Crop Testing Coordinator*
Dennis Pietsch - *Research Associate*
Seth Hirst - *Research Assistant*
Allen Hall - *Research Assistant*
W. L. Rooney - *Professor, Plant Breeding and Genetics*

The Texas A&M University Systems

2017 GRAIN SORGHUM PERFORMANCE TESTS IN TEXAS

by

Ronnie Schnell, Katrina Horn, Dennis Pietsch, Seth Hirst, Allen Hall, and W. L. Rooney

SCS-2017-21

Respectively, Assistant Professor & Extension Specialist; Crop Testing Coordinator; Research Associate; Agricultural Research Assistant; Agricultural Research Assistant; Professor, Plant Breeding and Genetics, Department of Soil and Crop Sciences, Texas A&M AgriLife Research, The Texas A&M University System, College Station, Texas.

TABLE OF CONTENTS

2017 GRAIN SORGHUM PERFORMANCE TRIALS IN TEXAS

Ronnie Schnell, Katrina Horn, Dennis Pietsch, Seth Hirst, Allen Hall, 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 2017 test sites are shown in Figure 1. A total of 336 entries were evaluated across 11 locations representing 66 unique hybrids from 11 commercial seed companies. Commercial seed companies enter hybrids into each trial location at their own discretion.

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

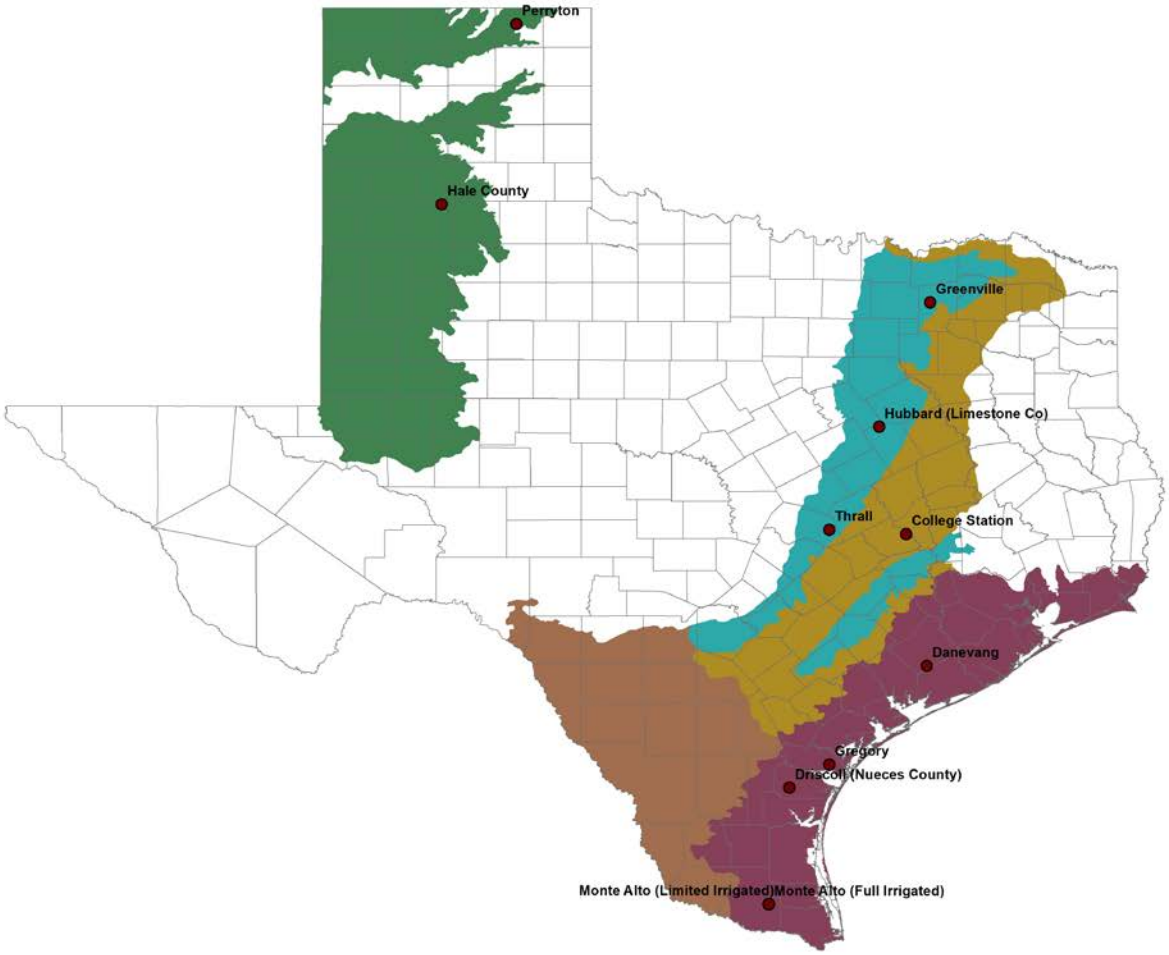
Following yield performance, other characteristics may be useful for selecting the best hybrid. Maturity or days to flowering may be important for selecting hybrids that are appropriate for your growing season/conditions. Typically mid- and full-season hybrids will respond favorably to additional moisture 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 (www.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. 2017 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). Seeds for each hybrid are packaged to obtain a final plant population appropriate for each production region and cropping system. Plots are generally 2 rows wide with row spacing ranging from 30 to 40 inches depending on location. Seeds are packaged to deliver 30 feet of planted row per plot. Seed is planted using a belt cone planter with John Deere MaxEmerge XP planter units at all sites. Following emergence, two feet of row are trimmed on each side resulting in 26 ft plots and 4 ft alleys at most sites. 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. All 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 2017 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), and 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 have reached mid-bloom.

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.

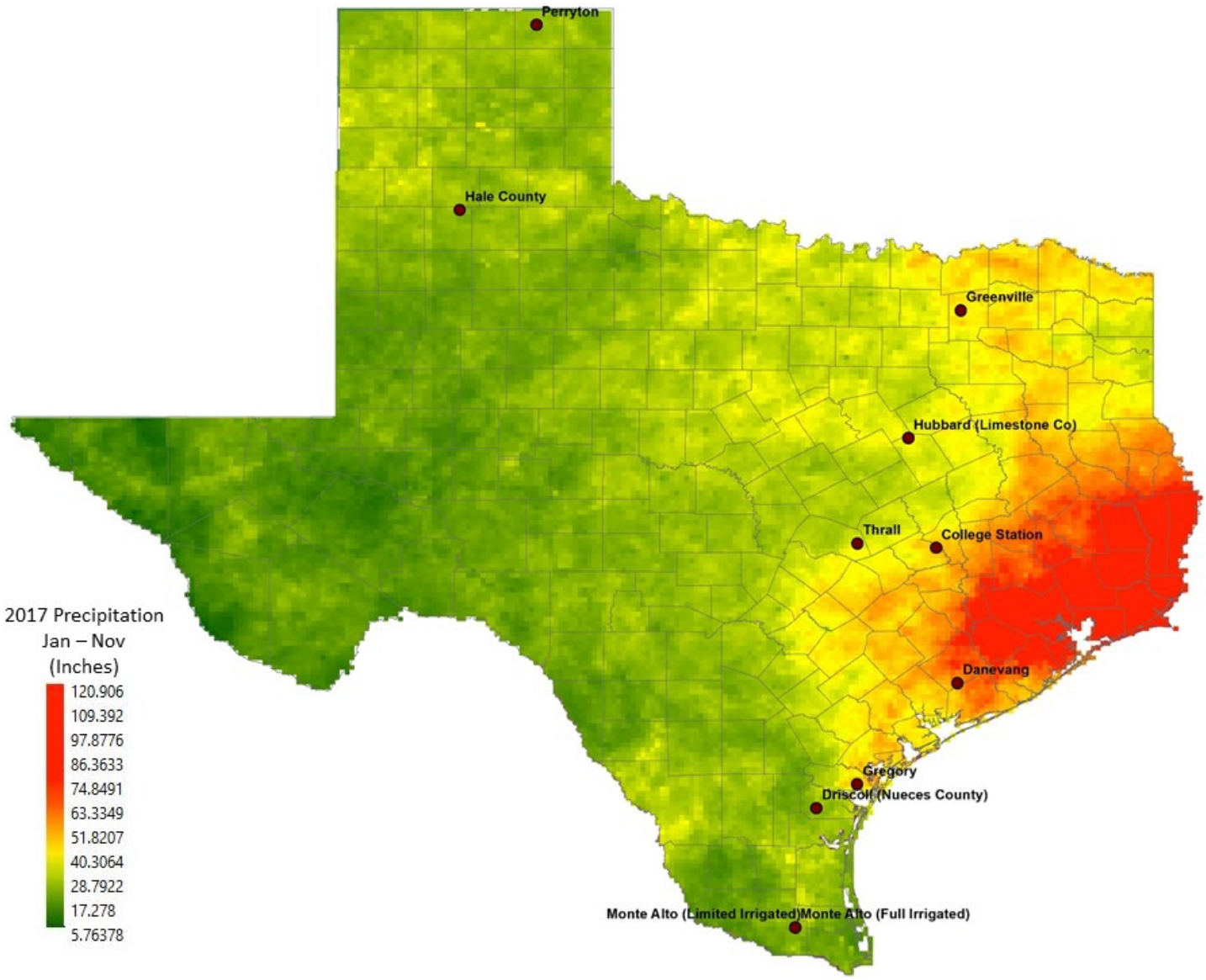
Yield : Standardized to 14% moisture: expressed in pounds per acre (lb/acre) and calculated using [((100 – moisture (%) /86) * yield (lb/acre)].

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 based on the two year average.

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. 2017 Precipitation (January 1, 2017 –November 30, 2017)



2017 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Advanta Seeds	Alta Seeds	AG3101	Red	Purple	Medium-Late
Advanta Seeds	Alta Seeds	AG3201	Bronze	Purple	Medium-Late
Advanta Seeds	Alta Seeds	AG1203	Bronze	Red	Medium-Early
AgriComm Seeds	AgriComm Seeds	AGRI-G1			N/A
Anzu Genetica Seed	Anzu Genetica	AG 4223	Red		Early
Anzu Genetica Seed	Anzu Genetica	AG 4664			N/A
Anzu Genetica Seed	Anzu Genetica	AG 4344			N/A
B-H Genetics	B-H Genetics	4100	Bronze		Medium
Chromatin Inc.	Chromatin	CHR2042	Bronze	Purple	Medium-Late
Chromatin Inc.	Chromatin	CHR0L0029	Red	Purple	Medium-Late
Chromatin Inc.	Chromatin	CHR0072	Bronze	Purple	Medium
Chromatin Inc.	Sorghum Partners	SP73B12	Bronze	Purple	Medium-Late
Chromatin Inc.	Sorghum Partners	SP68M57	Bronze	Purple	Medium
Chromatin Inc.	Sorghum Partners	SP7715	Bronze	Purple	Medium-Late
Crop Production Services	Dyna-Gro	M75GR47	Red	Tan	Medium
Crop Production Services	Dyna-Gro	GX16535	Bronze	Purple	Medium-Early
Crop Production Services	Dyna-Gro	M60GB88	Bronze	Purple	Medium-Early
Crop Production Services	Dyna-Gro	M60GB31	Bronze	Purple	Medium-Early
Crop Production Services	Dyna-Gro	M74GB17	Bronze	Purple	Medium-Late
Crop Production Services	Dyna-Gro	M73GR55	Red	Purple	Medium-Late
Crop Production Services	Dyna-Gro	GX17818	Red	Tan	Medium-Late
Crop Production Services	Dyna-Gro	GX16833	Red	Tan	Medium

2017 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Crop Production Services	Dyna-Gro	GX16855	Red	Tan	Medium
Dupont	Pioneer	84P80	Red		Medium-Late
Gayland Ward Seed	Gayland Ward	9139	Bronze	Purple	Medium
Gayland Ward Seed	Gayland Ward	9134	Bronze	Purple	Medium-Late
Gayland Ward Seed	Gayland Ward	9138	Bronze	Purple	Medium-Early
Gayland Ward Seed	Gayland Ward	1160	Red	Purple	Medium-Early
Gayland Ward Seed	Gayland Ward	9135	Bronze	Purple	Medium-Early
Golden Acres Genetics	Golden Acres	X2610	Bronze	Purple	Medium-Late
Golden Acres Genetics	Golden Acres	3545	Bronze	Purple	Medium
Golden Acres Genetics	Golden Acres	X2703	Bronze	Purple	Medium-Early
Golden Acres Genetics	Golden Acres	5613	Bronze	Purple	Medium
Golden Acres Genetics	Golden Acres	5515	Bronze	Purple	Medium
Golden Acres Genetics	Golden Acres	3960B	Bronze	Purple	Medium
Monsanto	DEKALB	DKS 45-23	Bronze	Purple	Medium
Monsanto	DEKALB	DKS 38-16	Bronze	Purple	Medium-Early
Monsanto	DEKALB	DKS 37-07	Bronze	Purple	Medium-Early
Monsanto	DEKALB	DKS 53-53	Bronze	Purple	Medium-Late
Monsanto	DEKALB	DKS 51-01	Bronze	Purple	Medium-Late
NuTech Seed, LLC	NuTech	GS725	Red	Purple	Medium-Late
NuTech Seed, LLC	NuTech	GS663	Red	Purple	Medium
NuTech Seed, LLC	NuTech	GS636	Bronze	Purple	Medium
NuTech Seed, LLC	NuTech	GS693	Red	Purple	Medium-Late

2017 Grain Sorghum
Hybrid Characteristics

Company	Brand	Hybrid	Grain Color	Plant Color	Maturity
Terral Seed, Inc.	REV	9562	Red	Purple	Medium-Early
Terral Seed, Inc.	REV	9782	Red	Purple	Medium-Late
Terral Seed, Inc.	REV	9924	Red	Purple	Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx645/R08304	Bronze	Purple	
Texas A&M AgriLife	Texas A&M AgriLife Research	A_150/EON361	Red	Purple	
Texas A&M AgriLife	Texas A&M AgriLife Research	A05071/RTx436	White	Purple	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	A07124/RTx437	Red	Purple	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	Bronze	Purple	Medium-Late
Texas A&M AgriLife	Texas A&M AgriLife Research	A_18/R07178	Red	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx642/R06321	Yellow	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx645xRTx2916	Red	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2923xRTx2913	Red	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2924xRTx2916	Red	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2924xRTx2783	Red	Purple	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	A08158/RTx436	Red	Purple	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx3408xRTx2916	Red	Tan	N/A
Texas A&M AgriLife	Texas A&M AgriLife Research	A05071/R07178	Red	Purple	N/A
Wilbur-Ellis Company	Integra	G3630	Red	Red	Medium
Wilbur-Ellis Company	Integra	G3701	Red	Red	Medium-Late
Wilbur-Ellis Company	Integra	G3670	Bronze	Purple	Medium-Late

Grain Sorghum

Company Contacts

Company	Brand	Contact Information	Phone	Email
Advanta Seeds	Advanta Research	Rusty Bevel 201 E. John Carpenter Fwy #660 Irving, TX 75053	806-654-4500	rusty.bevel@advantaseeds.com
Advanta Seeds	Alta Seeds	Rusty Bevel 201 E. John Carpenter Fwy #660 Irving, TX 75053	806-654-4500	rusty.bevel@advantaseeds.com
AgriComm Seeds	AgriComm Seeds	Jean Carlo Landivar Av. Alemana C Bolivia, 0	591-341-4474	jclandivar@agricomseeds.net
Anzu Genetica Seed	Anzu Genetica	Jose Anzaldua 9404 Oak Hill Dr Waco, TX 76712	254-548-7447	betoanzaldua@anzugenetica.com
Chromatin Inc.	Sorghum Partners	Alfredo Pineda 1301 E. 50th Street Lubbock, TX 79404	806-790-6542	apineda@chromatininc.com
Chromatin Inc.	Chromatin	Alfredo Pineda 1301 E. 50th Street Lubbock, TX 79404	806-790-6542	apineda@chromatininc.com
Crop Production Services	Dyna-Gro	Dave Welch P.O. Box 1050 Ralls, TX 79357	806-253-2584	dave.welch@cpsagu.com
Gayland Ward Seed	Gayland Ward	Robbie Benton 4395 Hwy 60 Hereford, TX 79045	806-683-0220	robbie@gaylandwardseed.com
Golden Acres Genetics	Golden Acres	James Allison P.O. Box 579 Buchanan Dam, TX 78609	512-793-5205	aggie.allison@gmail.com
Monsanto	DEKALB	Jeff Herrmann 800 N. Lindbergh Blvd St. Louis, MO 63167	314-694-2723	jeffrey.e.herrmann@monsanto.com
NuTech Seed, LLC	NuTech	Steve Sick 2321 N. Loop Dr, Suite 120 Ames, IA 50010	402-661-4700	steve.sick@nutechseed.com

Grain Sorghum

Company Contacts

Company	Brand	Contact Information	Phone	Email
Terral Seed, Inc.	REV	Marty Hale 117 Ellington Dr Rayville, LA 71269	318-341-8814	mhale@terralseed.com
Wilbur-Ellis Company	Integra	Ramon Medrano 2305 Winthrop Hill Rd Argyle, TX 76226	214-608-5305	rmedrano@wilburellis.com
Wilbur-Ellis Company	Integra	Bracken Finney 2305 Winthrop Hill Rd Argyle, TX 76226	512-517-5456	rfinney@wilburellis.com

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Full Irrigated)
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	66	54	9	N/A	12.1	59.7	7,352
Pioneer	84P80	63	52	5	N/A	12.2	60.1	7,273
DEKALB	DKS 53-53	66	50	7	N/A	12.4	60.0	7,172
DEKALB	DKS 38-16	65	53	7	N/A	12.1	60.7	6,998
Dyna-Gro	GX17818	69	50	7	N/A	12.8	57.8	6,936
REV	9562	63	51	7	N/A	11.8	59.4	6,750
Dyna-Gro	M74GB17	67	55	8	N/A	12.5	59.5	6,690
Texas A&M AgriLife Research	ATx2924xRTx2783	69	58	6	N/A	12.1	58.8	6,599
Gayland Ward	9135	66	52	7	N/A	12.1	58.5	6,563
DEKALB	DKS 45-23	66	50	6	N/A	12.7	60.8	6,519
REV	9924	65	52	6	N/A	12.6	58.9	6,467
REV	9782	64	49	5	N/A	12.3	59.8	6,432
Texas A&M AgriLife Research	ATx378xRTx430	62	55	7	N/A	11.9	58.6	6,307
B-H Genetics	4100	64	47	7	N/A	12.3	57.1	6,220
Gayland Ward	9134	68	59	7	N/A	12.6	58.8	6,220
Texas A&M AgriLife Research	ATx2752xRTx430	61	51	7	N/A	12.3	58.7	6,120
Dyna-Gro	GX16833	64	53	7	N/A	12.0	61.0	6,078
Dyna-Gro	GX16855	65	56	7	N/A	12.4	59.8	6,048
Sorghum Partners	SP73B12	64	49	8	N/A	12.8	59.4	5,991
Anzu Genetica	AG 4344	63	46	7	N/A	12.1	58.2	5,825
DEKALB	DKS 37-07	64	47	7	N/A	12.2	59.8	5,687

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Full Irrigated)
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Alta Seeds	AG1203	62	45	6	N/A	12.0	58.0	5,656
Dyna-Gro	M60GB31	63	45	4	N/A	12.0	58.3	5,628
Texas A&M AgriLife Research	ATx3408xRTx2916	69	60	4	N/A	12.0	57.6	5,608
Dyna-Gro	M73GR55	66	52	7	N/A	12.6	59.0	5,560
Gayland Ward	9138	68	56	13	N/A	12.2	59.5	5,469
Texas A&M AgriLife Research	ATx399xRTx430	60	49	8	N/A	12.5	58.6	5,366
Anzu Genetica	AG 4664	68	46	7	N/A	12.8	56.9	5,306
Gayland Ward	9139	66	47	10	N/A	12.4	58.4	5,262
Gayland Ward	1160	69	34	5	N/A	12.4	55.9	3,826

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Full Irrigated)
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		65	51	7		12.3	58.9	6,131
C.V. %		2.3	2.6	16.3		6.3	1.8	9.4
P>f (hybrid)		0.000	0.000	0.000		0.974	0.000	0.000
L.S.D.		2.1	1.9	1.6			1.5	808.6

Agronomic information

Plant Date	2/14/2017
Harvest Date	6/22/2017
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	80,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	9.54
Irrigation (in)	

Herbicide

Trial Notes

*Special thanks to Dr. Greta Schuster and Danielle Sekula for their assistance in taking flowering notes.

Soil Type	
Tillage	
Previous Crop	

Cooperator: Rio 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 Almaco meter units on a JD Max-Emerge II 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

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

Monte Alto (Full Irrigated)
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 51-01	6,126	5,959
Advanta Seeds	Alta Seeds	AG1203	5,832	4,782
Monsanto	DEKALB	DKS 45-23	5,732	
Monsanto	DEKALB	DKS 53-53	5,692	5,556
Terral Seed, Inc.	REV	9924	5,625	5,246
Terral Seed, Inc.	REV	9562	5,126	4,858
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	5,078	4,856
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	4,788	4,494
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	4,787	4,527
Terral Seed, Inc.	REV	9782	4,740	4,328

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Limited Irrigated)
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9924	65	51	5	N/A	13.8		7,561
DEKALB	DKS 38-16	66	52	8	N/A	14.2		7,439
DEKALB	DKS 51-01	66	51	7	N/A	14.1		7,067
Gayland Ward	9135	66	49	7	N/A	13.5		6,906
Dyna-Gro	GX17818	69	48	5	N/A	13.8		6,892
Alta Seeds	AG1203	61	42	5	N/A	13.4		6,839
Integra	G3630	63	43	5	N/A	13.2		6,820
Pioneer	84P80	65	49	5	N/A	13.7		6,801
DEKALB	DKS 53-53	66	48	6	N/A	13.7		6,741
Dyna-Gro	GX16833	64	51	6	N/A	13.7		6,638
Gayland Ward	9134	69	53	7	N/A	14.0		6,499
DEKALB	DKS 45-23	66	49	5	N/A	13.9		6,460
Texas A&M AgriLife Research	ATx2752xRTx430	61	49	8	N/A	14.0		6,371
Integra	G3670	61	43	7	N/A	13.8		6,296
REV	9782	64	47	5	N/A	13.7		6,273
Dyna-Gro	M60GB31	63	42	4	N/A	13.3		6,117
Dyna-Gro	M74GB17	67	51	7	N/A	13.9		6,098
B-H Genetics	4100	64	43	6	N/A	13.4		6,052
Sorghum Partners	SP73B12	66	49	6	N/A	14.9		6,040
Integra	G3701	65	50	6	N/A	14.1		6,021
Dyna-Gro	M73GR55	66	52	5	N/A	13.8		6,002

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Limited Irrigated)
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	X2610	61	51	9	N/A	14.2		5,967
Golden Acres	3960B	61	42	4	N/A	13.5		5,855
Dyna-Gro	GX16855	66	53	7	N/A	14.1		5,798
Texas A&M AgriLife Research	ATx378xRTx430	61	51	6	N/A	13.5		5,769
Texas A&M AgriLife Research	ATx2924xRTx2916	69	55	7	N/A	13.8		5,730
Gayland Ward	9139	66	43	10	N/A	13.5		5,722
Texas A&M AgriLife Research	ATx2923xRTx2913	68	51	7	N/A	14.0		5,648
REV	9562	63	47	6	N/A	13.2		5,631
Texas A&M AgriLife Research	ATx399xRTx430	61	47	8	N/A	13.6		5,613
Gayland Ward	9138	68	52	11	N/A	13.3		5,594
Texas A&M AgriLife Research	ATx645xRTx2916	66	52	7	N/A	14.0		5,485
Golden Acres	3545	65	46	6	N/A	13.9		5,443
DEKALB	DKS 37-07	64	46	7	N/A	14.3		4,626
Anzu Genetica	AG 4223	58	38	6	N/A	13.3		3,936
Gayland Ward	1160	68	34	4	N/A	12.4		2,983

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Monte Alto (Limited Irrigated)
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		65	48	6		13.7		6,048
C.V. %		1.8	4.3	20.2		3.7		10.8
P>f (hybrid)		0.000	0.000			0.001		0.000
L.S.D.		1.7	2.9			0.7		957.1

Agronomic information

Plant Date	2/14/2017
Harvest Date	6/29/2017
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	55,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	10.25
Irrigation (in)	

Herbicide

Trial Notes

*Due to a malfunctioning test weight chamber, test weight readings were inaccurate and not reported.
*Special thanks to Dr. Greta Schuster and Danielle Sekula for their assistance in taking flowering notes.

Soil Type	
Tillage	
Previous Crop	

Cooperator: Rio 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 Almaco meter units on a JD Max-Emerge II 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

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

Monte Alto (Limited Irrigated)
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Wilbur-Ellis Company	Integra	G3630	6,256	
Advanta Seeds	Alta Seeds	AG1203	6,200	5,293
Monsanto	DEKALB	DKS 38-16	5,677	
Monsanto	DEKALB	DKS 51-01	5,621	5,961
Terral Seed, Inc.	REV	9924	5,572	5,220
Wilbur-Ellis Company	Integra	G3670	4,952	4,908
Wilbur-Ellis Company	Integra	G3701	4,892	
Monsanto	DEKALB	DKS 53-53	4,879	5,144
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	4,387	4,177
Terral Seed, Inc.	REV	9562	4,256	4,468
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	4,065	4,558
Terral Seed, Inc.	REV	9782	3,944	4,188
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	3,718	4,150

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Gregory
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	72	46	5	40	13.0	56.8	5,192
DEKALB	DKS 53-53	73	45	3	9	13.4	57.3	5,158
Dyna-Gro	GX16833	71	48	3	18	13.7	58.8	5,061
Integra	G3630	68	40	4	3	13.3	58.0	4,964
Pioneer	84P80	70	43	2	16	13.4	56.4	4,795
REV	9924	69	46	3	14	13.4	55.4	4,748
DEKALB	DKS 45-23	70	45	2	25	13.8	56.5	4,736
DEKALB	DKS 38-16	68	47	5	46	13.7	56.6	4,680
Dyna-Gro	M60GB31	68	43	4	5	13.9	57.8	4,622
REV	9562	69	43	4	8	13.4	56.6	4,603
Integra	G3670	67	45	5	11	13.3	55.0	4,547
B-H Genetics	4100	69	45	5	1	13.4	57.5	4,545
Dyna-Gro	GX16855	73	48	2	21	13.7	57.3	4,537
Dyna-Gro	GX17818	77	41	4	0	13.3	57.9	4,535
Dyna-Gro	M73GR55	76	44	2	4	13.4	57.2	4,495
DEKALB	DKS 37-07	65	46	5	10	13.5	57.0	4,403
Integra	G3701	72	45	3	48	13.5	57.3	4,402
Alta Seeds	AG1203	69	41	3	1	13.5	56.6	4,347
Texas A&M AgriLife Research	ATx2752xRTx430	68	44	3	55	13.5	54.5	4,206
REV	9782	69	43	2	16	13.4	57.6	4,203
Texas A&M AgriLife Research	ATx378xRTx430	68	47	4	31	13.1	53.4	4,157

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Gregory
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M74GB17	76	44	5	9	14.0	56.8	4,030
Sorghum Partners	SP73B12	75	41	3	0	14.0	57.3	3,761
Texas A&M AgriLife Research	ATx399xRTx430	65	46	6	8	12.8	52.4	3,382

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Gregory
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		70	44	4	16.6	13.5	56.6	4,505
C.V. %		1.8	4.3	29.9	79.7	3.3	1.6	9.3
P>f (hybrid)		0.000	0.000			0.045	0.000	0.000
L.S.D.		1.8	2.7			0.6	1.2	591.9

Agronomic information

Plant Date	3/1/2017
Harvest Date	7/20/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	15.17
Irrigation (in)	

Herbicide

Trial Notes

*Special thanks to Bob McCool, San Patrico CEA, for assisting with planting, note taking, and monitoring test block.

Soil Type	
Tillage	
Previous Crop	

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 Almaco meter units on a JD Max-Emerge II 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

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

Gregory
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 51-01	4,778	
Terral Seed, Inc.	REV	9924	4,388	3,559
Monsanto	DEKALB	DKS 38-16	4,227	
Wilbur-Ellis Company	Integra	G3670	4,159	
Wilbur-Ellis Company	Integra	G3630	4,096	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	4,072	3,301
Monsanto	DEKALB	DKS 45-23	4,070	
Terral Seed, Inc.	REV	9562	4,054	3,211
Wilbur-Ellis Company	Integra	G3701	3,958	
Terral Seed, Inc.	REV	9782	3,945	3,140
Advanta Seeds	Alta Seeds	AG1203	3,690	2,899
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	3,671	3,045
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	3,375	2,760

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Nueces County
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	3960B	74	48	4	N/A	14.9	58.3	7,193
REV	9924	75	53	2	N/A	15.2	55.5	7,150
REV	9562	75	51	4	N/A	15.9	56.6	6,752
Alta Seeds	AG1203	73	46	4	N/A	15.0	57.9	6,699
DEKALB	DKS 45-23	75	51	3	N/A	15.0	58.0	6,606
Dyna-Gro	GX16855	77	55	3	N/A	16.2	55.3	6,605
Dyna-Gro	GX16833	75	52	3	N/A	15.4	57.8	6,529
B-H Genetics	4100	72	48	4	N/A	15.2	56.8	6,454
DEKALB	DKS 38-16	72	51	4	N/A	16.2	58.3	6,244
Dyna-Gro	M60GB31	74	46	4	N/A	15.8	55.1	6,031
DEKALB	DKS 53-53	78	50	3	N/A	15.6	56.1	5,921
Dyna-Gro	M73GR55	81	52	2	N/A	16.5	54.3	5,853
DEKALB	DKS 51-01	75	51	5	N/A	15.5	57.1	5,799
Sorghum Partners	SP73B12	78	47	2	N/A	16.1	56.8	5,692
Pioneer	84P80	76	50	4	N/A	15.7	56.0	5,627
Texas A&M AgriLife Research	ATx378xRTx430	73	54	3	N/A	15.4	53.2	5,547
REV	9782	73	48	4	N/A	15.2	57.1	5,517
Golden Acres	X2610	79	50	5	N/A	16.1	57.6	5,321
Dyna-Gro	M74GB17	80	49	4	N/A	15.7	57.0	5,178
Dyna-Gro	GX17818	79	48	3	N/A	16.2	54.9	5,165
Texas A&M AgriLife Research	ATx2752xRTx430	75	51	3	N/A	16.2	53.3	4,766

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Nueces County
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 37-07	71	46	5	N/A	15.4	56.8	4,440
Texas A&M AgriLife Research	ATx399xRTx430	73	47	3	N/A	14.9	52.6	3,914

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Nueces County
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	75	50	3		15.6	56.2	5,870
	C.V. %	2.8	4.1	24.4		3.9	2.3	17.9
	P>f (hybrid)	0.001	0.000	0.000		0.005	0.000	0.002
	L.S.D.	3.0	2.9	1.2		0.9	1.8	1,518.3

Agronomic information

Plant Date	2/28/2017
Harvest Date	7/12/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
N (lb/ac)	75
P2O5 (lb/ac)	15
K2O (lb/ac)	0
Precipitation (in)	14.02
Irrigation (in)	

Herbicide

1.25 qt/A Atrazine applied 1/5/17.
10 oz/A Outlook applied 2/24/17.

Trial Notes

*300 lbs 25-5-0-2 + 0.8 gal/A Hydro-Hume applied 1/5/17
*1 oz/A Transform applied 5/15/17
*Special thanks to Jason Ott, Nueces Co. CEA, for assisting with planting, note taking, and monitoring test block

Soil Type	
Tillage	
Previous Crop	

Cooperator: McNair Farm

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 Almaco meter units on a JD Max-Emerge II 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

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Danevang
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9924	N/A	55	4	N/A	14.8	59.3	8,290
Dyna-Gro	GX16855	N/A	57	4	N/A	15.8	60.0	8,250
Integra	G3701	N/A	55	4	N/A	15.4	61.9	8,205
DEKALB	DKS 51-01	N/A	57	6	N/A	15.6	60.5	8,204
NuTech	GS693	N/A	53	5	N/A	15.6	59.5	8,161
Texas A&M AgriLife Research	ATx378xRTx430	N/A	56	4	N/A	14.7	58.4	7,932
Alta Seeds	AG1203	N/A	48	5	N/A	14.6	59.7	7,911
REV	9562	N/A	53	5	N/A	14.8	59.7	7,849
NuTech	GS663	N/A	50	4	N/A	15.0	58.4	7,823
Integra	G3670	N/A	52	4	N/A	15.4	57.9	7,649
Pioneer	84P80	N/A	52	2	N/A	15.4	60.1	7,637
NuTech	GS725	N/A	57	6	N/A	15.6	62.2	7,623
Golden Acres	3960B	N/A	48	5	N/A	15.4	59.5	7,603
Dyna-Gro	M60GB31	N/A	48	5	N/A	14.8	60.0	7,571
REV	9782	N/A	49	4	N/A	14.6	60.7	7,559
DEKALB	DKS 45-23	N/A	52	4	N/A	15.1	60.4	7,376
Dyna-Gro	GX16833	N/A	54	5	N/A	15.8	61.1	7,365
NuTech	GS636	N/A	48	5	N/A	15.2	58.6	7,324
Dyna-Gro	M74GB17	N/A	54	4	N/A	15.5	60.4	7,292
DEKALB	DKS 38-16	N/A	56	5	N/A	15.2	60.4	7,182
DEKALB	DKS 53-53	N/A	52	4	N/A	15.4	60.1	7,137

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Danevang
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

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	ATx2752xRTx430	N/A	53	4	N/A	14.9	58.8	6,992
Dyna-Gro	GX17818	N/A	50	5	N/A	15.4	60.0	6,929
B-H Genetics	4100	N/A	47	5	N/A	14.2	59.6	6,921
DEKALB	DKS 37-07	N/A	50	5	N/A	15.3	61.5	6,861
Sorghum Partners	SP73B12	N/A	45	4	N/A	16.1	59.8	6,732
Golden Acres	3545	N/A	50	5	N/A	14.6	58.6	6,703
Integra	G3630	N/A	48	6	N/A	14.7	59.3	6,640
Texas A&M AgriLife Research	ATx399xRTx430	N/A	50	4	N/A	14.6	57.3	6,405
Dyna-Gro	M73GR55	N/A	54	4	N/A	15.8	59.6	5,795

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Danevang
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean			52	4		15.2	59.8	7,397
C.V. %			3.3	20.4		5.6	1.6	8.8
P>f (hybrid)			0.000			0.378	0.000	0.000
L.S.D.			2.4				1.4	975.2

Agronomic information

Plant Date	3/20/2017
Harvest Date	7/20/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	80,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	24.2
Irrigation (in)	

Herbicide

Trial Notes

Soil Type	
Tillage	
Previous Crop	

Cooperator: Dean Hansen

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 Almaco meter units on a JD Max-Emerge II 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

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

Danevang
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 51-01	7,432	
Wilbur-Ellis Company	Integra	G3701	7,309	
Terral Seed, Inc.	REV	9924	7,304	6,663
Terral Seed, Inc.	REV	9562	7,042	6,480
Advanta Seeds	Alta Seeds	AG1203	6,960	6,075
Monsanto	DEKALB	DKS 45-23	6,795	
Monsanto	DEKALB	DKS 53-53	6,721	6,265
Golden Acres Genetics	Golden Acres	3960B	6,664	
Wilbur-Ellis Company	Integra	G3670	6,581	6,250
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,490	5,943
Wilbur-Ellis Company	Integra	G3630	6,350	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	6,345	5,986
Terral Seed, Inc.	REV	9782	5,952	5,670
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	5,371	5,132

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

College Station
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	72	59	8	N/A	13.4	58.6	8,157
Dyna-Gro	GX16855	72	62	6	N/A	13.9	56.5	8,126
DEKALB	DKS 38-16	69	58	8	N/A	13.0	59.8	7,999
NuTech	GS725	69	60	9	N/A	13.2	59.6	7,828
Texas A&M AgriLife Research	ATx378xRTx430	69	61	8	N/A	13.5	55.6	7,791
NuTech	GS693	70	53	8	N/A	12.9	58.5	7,774
Dyna-Gro	M60GB31	69	48	6	N/A	13.2	58.6	7,761
NuTech	GS636	70	50	6	N/A	12.2	58.8	7,696
DEKALB	DKS 45-23	71	56	7	N/A	13.1	58.9	7,637
Dyna-Gro	GX16833	73	57	5	N/A	13.6	58.5	7,561
B-H Genetics	4100	70	50	6	N/A	12.6	58.8	7,550
Dyna-Gro	M74GB17	71	58	8	N/A	13.0	58.4	7,527
Pioneer	84P80	70	54	6	N/A	13.1	58.4	7,449
Texas A&M AgriLife Research	ATx2752xRTx430	70	59	7	N/A	12.5	56.7	7,353
Alta Seeds	AG1203	69	47	6	N/A	12.8	59.0	7,342
REV	9562	70	54	8	N/A	12.6	58.9	7,236
REV	9924	74	57	7	N/A	12.4	56.8	7,148
NuTech	GS663	68	49	6	N/A	12.6	57.8	7,036
Dyna-Gro	M73GR55	74	57	5	N/A	18.7	53.5	7,036
REV	9782	70	50	7	N/A	13.1	58.6	7,022
Golden Acres	X2610	73	56	10	N/A	13.4	58.2	6,858

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

College Station
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 53-53	74	54	6	N/A	13.3	57.5	6,764
Sorghum Partners	SP73B12	70	53	8	N/A	13.3	58.2	6,736
Texas A&M AgriLife Research	ATx399xRTx430	69	51	9	N/A	12.4	55.6	6,720
DEKALB	DKS 37-07	69	50	8	N/A	13.2	59.1	6,624
Dyna-Gro	GX17818	75	53	8	N/A	13.4	57.2	6,540
Golden Acres	3545	71	53	9	N/A	13.1	57.5	6,518
Texas A&M AgriLife Research	ATx642/R06321	72	58	8	N/A	14.0	56.2	5,892

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

College Station
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	71	54	7		13.3	57.8	7,274
	C.V. %	1.5	4.1	21.0		7.4	1.3	8.5
	P>f (hybrid)	0.000	0.000			0.008	0.000	0.000
	L.S.D.	1.6	3.1			1.5	1.2	918.3

Agronomic information

Plant Date	3/23/2017
Harvest Date	8/4/2017
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	80,000
N (lb/ac)	136
P2O5 (lb/ac)	56
K2O (lb/ac)	0
Precipitation (in)	25.66
Irrigation (in)	0

Herbicide

3 pt Atrazine + 1.66 pt Brawl + 20 oz Outlook + 2 pt Roundup applied after planting but before crop emergence. 3 pt Prowl H2O applied at layby

Trial Notes

**Sprayed once for midge with 1 oz Baythroid XL at peak midge threshold

Soil Type	
Tillage	Shredded, disked, bedded before planting. Cultivated twice during growing season.
Previous Crop	Cotton

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 Almaco meter units on a JD Max-Emerge II 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

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

College Station
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 51-01	7,472	7,446
Monsanto	DEKALB	DKS 38-16	6,944	
NuTech Seed, LLC	NuTech	GS693	6,916	6,850
NuTech Seed, LLC	NuTech	GS725	6,888	7,130
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	6,709	6,381
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,576	6,598
Terral Seed, Inc.	REV	9924	6,549	6,546
Terral Seed, Inc.	REV	9782	6,544	6,296
Terral Seed, Inc.	REV	9562	6,491	6,256
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	6,481	6,046
Advanta Seeds	Alta Seeds	AG1203	6,355	5,817
NuTech Seed, LLC	NuTech	GS663	6,046	
Golden Acres Genetics	Golden Acres	3545	6,005	6,137

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Thrall
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9924	77	52	1	N/A	13.3	56.5	5,285
Pioneer	84P80	74	51	3	N/A	13.5	57.3	5,247
DEKALB	DKS 51-01	74	54	5	N/A	13.0	57.5	5,208
NuTech	GS663	69	50	5	N/A	12.7	56.2	5,145
DEKALB	DKS 45-23	73	51	5	N/A	13.1	58.5	5,037
DEKALB	DKS 53-53	75	53	3	N/A	12.9	58.0	4,913
Integra	G3670	73	51	4	N/A	12.6	55.9	4,888
Golden Acres	5613	70	52	5	N/A	12.5	55.6	4,735
Integra	G3630	70	49	6	N/A	12.1	57.2	4,708
NuTech	GS693	72	51	4	N/A	12.8	56.6	4,603
Sorghum Partners	SP73B12	75	51	4	N/A	13.4	57.6	4,585
DEKALB	DKS 38-16	72	56	6	N/A	12.9	58.6	4,582
B-H Genetics	4100	72	49	5	N/A	12.7	57.0	4,554
Golden Acres	3960B	73	49	5	N/A	13.0	57.0	4,508
Dyna-Gro	M60GB31	72	50	4	N/A	12.8	55.8	4,387
Alta Seeds	AG1203	73	49	4	N/A	12.7	56.9	4,340
NuTech	GS725	73	54	5	N/A	13.6	58.8	4,320
NuTech	GS636	72	48	5	N/A	12.9	53.2	4,240
Dyna-Gro	GX16833	75	49	2	N/A	13.0	58.1	4,194
Texas A&M AgriLife Research	ATx2752xRTx430	75	49	2	N/A	13.7	56.0	4,187
Dyna-Gro	M73GR55	77	52	1	N/A	12.6	57.2	4,073

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Thrall
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	X2703	69	54	7	N/A	12.5	58.8	3,875
Dyna-Gro	GX17818	75	49	4	N/A	13.1	57.1	3,789
Integra	G3701	75	55	3	N/A	12.8	58.6	3,666
REV	9562	73	49	4	N/A	13.3	56.3	3,638
Dyna-Gro	M74GB17	77	51	5	N/A	13.6	56.3	3,602
DEKALB	DKS 37-07	71	52	5	N/A	13.0	56.6	3,505
Dyna-Gro	GX16855	76	58	3	N/A	13.8	58.0	3,489
Texas A&M AgriLife Research	ATx378xRTx430	73	55	4	N/A	13.3	54.6	3,221
REV	9782	72	46	4	N/A	13.3	57.1	3,146
Golden Acres	5515	73	49	4	N/A	13.5	55.7	3,114
Texas A&M AgriLife Research	ATx399xRTx430	73	46	4	N/A	12.6	54.6	3,038

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Thrall
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	73	51	4		13.0	56.8	4,244
	C.V. %	1.9	6.3	26.8		10.6	9.4	20.5
	P>f (hybrid)	0.000	0.000			0.511	0.424	0.001
	L.S.D.	1.9	4.5					1,258.5

Agronomic information

Plant Date	3/28/2017
Harvest Date	8/16/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
N (lb/ac)	140
P2O5 (lb/ac)	26
K2O (lb/ac)	0
Precipitation (in)	23.21
Irrigation (in)	

Herbicide

1.1 lb/A Atrazine + 1.3 pt/A Medal + 1 qt/A Powermax, AMS, and CoC applied pre-emerge

Trial Notes

*Fertilizer application at planting of 11-37-0.
*One fertilizer app during growing season of 32-0-0.

Soil Type	
Tillage	No-till
Previous Crop	Corn

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 Almaco meter units on a JD Max-Emerge II 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

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

Thrall
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Terral Seed, Inc.	REV	9924	5,678	6,039
Monsanto	DEKALB	DKS 51-01	5,454	6,013
Wilbur-Ellis Company	Integra	G3670	5,336	5,492
NuTech Seed, LLC	NuTech	GS663	5,133	
Monsanto	DEKALB	DKS 38-16	5,057	
Monsanto	DEKALB	DKS 45-23	5,046	
Golden Acres Genetics	Golden Acres	3960B	4,717	
Wilbur-Ellis Company	Integra	G3630	4,699	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	4,659	5,038
Advanta Seeds	Alta Seeds	AG1203	4,648	4,470
NuTech Seed, LLC	NuTech	GS693	4,644	5,115
Wilbur-Ellis Company	Integra	G3701	4,531	
NuTech Seed, LLC	NuTech	GS725	4,527	5,023
Terral Seed, Inc.	REV	9562	4,321	5,034
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	4,034	4,192
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	4,031	4,658
Terral Seed, Inc.	REV	9782	3,705	4,306

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Limestone County
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 38-16	77	55	7	N/A	12.2	58.0	5,843
DEKALB	DKS 51-01	80	56	6	N/A	12.8	57.3	5,695
B-H Genetics	4100	79	50	5	N/A	12.0	56.5	5,645
Integra	G3670	78	52	4	N/A	12.7	55.8	5,511
NuTech	GS693	79	53	5	N/A	12.1	57.7	5,477
Integra	G3701	81	54	4	N/A	12.5	58.7	5,395
DEKALB	DKS 53-53	80	52	5	N/A	13.2	56.7	5,369
REV	9562	79	52	5	N/A	12.1	57.5	5,199
Dyna-Gro	M60GB31	77	51	7	N/A	12.1	56.4	5,144
Golden Acres	X2703	77	56	7	N/A	12.1	56.5	5,136
Alta Seeds	AG1203	79	51	5	N/A	12.2	56.9	5,057
REV	9924	81	52	5	N/A	12.2	56.7	5,000
NuTech	GS636	79	52	6	N/A	12.4	56.4	4,996
Texas A&M AgriLife Research	A05071/R07178	81	53	6	N/A	11.9	57.1	4,980
Sorghum Partners	SP73B12	79	52	5	N/A	12.9	57.2	4,962
Texas A&M AgriLife Research	ATx378xRTx430	79	55	5	N/A	11.9	54.8	4,947
Integra	G3630	78	50	6	N/A	12.2	55.0	4,896
Dyna-Gro	GX16833	81	54	5	N/A	12.3	55.4	4,883
NuTech	GS725	81	56	6	N/A	12.1	57.8	4,804
Golden Acres	5613	79	51	6	N/A	11.9	56.0	4,787
DEKALB	DKS 45-23	80	54	6	N/A	12.7	57.0	4,742

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Limestone County
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Golden Acres	3960B	80	48	6	N/A	12.2	56.3	4,717
DEKALB	DKS 37-07	77	52	6	N/A	11.8	57.3	4,698
Pioneer	84P80	81	51	5	N/A	11.8	56.2	4,631
Golden Acres	5515	80	52	7	N/A	12.3	55.8	4,602
REV	9782	78	52	6	N/A	12.0	53.6	4,543
Texas A&M AgriLife Research	ATx2752xRTx430	82	51	4	N/A	12.6	56.4	4,500
Dyna-Gro	M74GB17	80	53	6	N/A	12.7	56.0	4,374
Dyna-Gro	GX16855	82	55	4	N/A	12.4	57.4	4,151
Texas A&M AgriLife Research	ATx399xRTx430	81	50	5	N/A	11.7	54.6	4,031
Dyna-Gro	GX17818	82	52	5	N/A	12.6	55.0	3,952
NuTech	GS663	76	50	5	N/A	12.4	56.9	3,934
Texas A&M AgriLife Research	A_18/R07178	81	54	4	N/A	12.1	56.1	3,754
Dyna-Gro	M73GR55	83	53	5	N/A	12.1	56.4	3,374

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Limestone County
2017 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	80	52	5		12.3	56.5	4,816
	C.V. %	2.0	4.1	21.3		4.5	2.6	15.8
	P>f (hybrid)	0.000	0.000			0.095	0.008	0.004
	L.S.D.	2.3	3.1				2.2	1,140.7

Agronomic information

Plant Date	3/27/2017
Harvest Date	8/12/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	30.58
Irrigation (in)	

Herbicide

Trial Notes

Soil Type	
Tillage	
Previous Crop	

Cooperator: Brian Maddox

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 Almaco meter units on a JD Max-Emerge II 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

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Greenville
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	80	57	8	0	16.1		8,173
Pioneer	84P80	82	53	5	0	14.5		8,045
B-H Genetics	4100	77	50	8	0	14.1		8,031
Dyna-Gro	GX16833	82	54	4	0	14.0		8,012
DEKALB	DKS 38-16	78	57	6	0	14.7		8,000
Dyna-Gro	M74GB17	81	53	7	0	14.6		7,935
Golden Acres	3960B	78	50	6	0	15.5		7,833
Alta Seeds	AG1203	78	49	7	0	15.4		7,735
NuTech	GS693	78	50	7	0	15.4		7,732
Texas A&M AgriLife Research	ATx378xRTx430	79	57	6	0	15.3		7,575
DEKALB	DKS 45-23	80	55	8	0	15.9		7,573
Dyna-Gro	M60GB31	77	48	7	0	14.0		7,538
Dyna-Gro	GX16855	83	60	5	0	17.0		7,433
DEKALB	DKS 37-07	76	49	6	0	16.4		7,418
NuTech	GS636	77	48	5	0	16.1		7,411
Golden Acres	X2703	77	55	7	0	15.7		7,376
Dyna-Gro	GX17818	84	49	7	0	16.7		7,306
NuTech	GS725	81	58	8	0	15.1		7,283
Texas A&M AgriLife Research	ATx2752xRTx430	82	54	4	0	16.7		7,258
REV	9562	79	51	7	0	15.5		7,247
REV	9782	80	51	5	0	15.0		7,028

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Greenville
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

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	ATx399xRTx430	81	49	5	0	14.9		6,975
DEKALB	DKS 53-53	83	55	7	0	16.0		6,919
REV	9924	84	54	5	0	15.7		6,784
Sorghum Partners	SP73B12	80	49	5	0	13.6		6,780
NuTech	GS663	75	48	5	0	16.9		6,626
Dyna-Gro	M73GR55	86	55	3	0	14.5		6,520

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Greenville
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	80	52	6	0.0	15.4		7,428
	C.V. %	2.3	2.8	20.4		12.6		7.6
	P>f (hybrid)	0.000	0.000			0.576		0.000
	L.S.D.	2.5	2.1					798.3

Agronomic information

Plant Date	3/23/2017
Harvest Date	9/6/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
N (lb/ac)	150
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	41.7
Irrigation (in)	

Herbicide

1 qt/A Atrazine + 1 qt/A Roundup applied in early December. 1 qt/A Atrazine applied after planting.

Trial Notes

*Due to an issue with the harvest system, test weight readings were inaccurate and therefore not reported.
*Appreciation expressed to Russell Sutton for assisting with planting, note taking, monitoring, and maintaining test block.

Soil Type	
Tillage	Disked twice, field cultivated in fall
Previous Crop	Wheat

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 Almaco meter units on a JD Max-Emerge II 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

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

Greenville
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 51-01	6,804	
Monsanto	DEKALB	DKS 38-16	6,773	
NuTech Seed, LLC	NuTech	GS693	6,541	
Monsanto	DEKALB	DKS 45-23	6,389	
Terral Seed, Inc.	REV	9562	6,235	
NuTech Seed, LLC	NuTech	GS725	6,228	
Golden Acres Genetics	Golden Acres	3960B	6,223	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	6,144	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,102	
Advanta Seeds	Alta Seeds	AG1203	6,086	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	6,003	
Terral Seed, Inc.	REV	9782	6,001	
Terral Seed, Inc.	REV	9924	5,903	
NuTech Seed, LLC	NuTech	GS663	5,741	

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.

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Hale County
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M75GR47	68	43	4	N/A	15.5	56.6	6,071
B-H Genetics	4100	69	42	3	N/A	15.9	56.8	5,976
NuTech	GS663	67	41	2	N/A	15.1	56.4	5,897
Dyna-Gro	M60GB31	67	41	4	N/A	16.6	56.5	5,754
DEKALB	DKS 37-07	66	45	4	N/A	14.9	57.1	5,743
Pioneer	84P80	69	48	3	N/A	15.6	56.6	5,724
DEKALB	DKS 51-01	69	47	4	N/A	17.0	56.6	5,513
REV	9782	68	46	3	N/A	15.2	57.3	5,382
Golden Acres	3960B	67	41	3	N/A	16.7	57.2	5,348
Chromatin	CHR0072	68	40	4	N/A	15.8	57.2	5,328
DEKALB	DKS 38-16	66	45	3	N/A	15.3	57.3	5,314
Alta Seeds	AG1203	67	40	4	N/A	13.1	56.7	5,305
NuTech	GS636	68	41	3	N/A	17.4	57.3	5,274
Sorghum Partners	SP68M57	66	44	3	N/A	15.9	56.3	4,977
REV	9562	68	42	3	N/A	14.0	56.7	4,889
Alta Seeds	AG3201	69	44	3	N/A	16.0	56.7	4,866
DEKALB	DKS 45-23	70	48	3	N/A	14.2	57.0	4,789
Texas A&M AgriLife Research	ATx378xRTx430	68	50	4	N/A	11.1	55.6	4,699
Dyna-Gro	M60GB88	67	46	4	N/A	17.3	57.2	4,613
Texas A&M AgriLife Research	ATx399xRTx430	69	43	4	N/A	14.8	56.5	4,583
Dyna-Gro	M74GB17	72	49	3	N/A	15.9	56.7	4,545

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Hale County
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX16535	68	47	3	N/A	18.9	57.3	4,456
NuTech	GS693	66	46	4	N/A	15.6	58.3	4,285
Chromatin	CHR2042	72	49	4	N/A	15.0	56.5	4,166
Alta Seeds	AG3101	72	46	4	N/A	15.1	56.1	4,157
NuTech	GS725	72	47	4	N/A	13.5	55.8	3,844
Sorghum Partners	SP73B12	72	44	3	N/A	17.5	57.2	3,844
Dyna-Gro	GX17818	74	47	4	N/A	13.1	55.7	3,703
Dyna-Gro	GX16833	75	54	1	N/A	14.4	56.6	3,404
Texas A&M AgriLife Research	ATx2752xRTx430	72	42	2	N/A	16.6	56.0	3,220
DEKALB	DKS 53-53	73	49	3	N/A	13.7	56.9	3,150
Chromatin	CHR0L0029	74	50	2	N/A	17.4	56.1	2,804
Dyna-Gro	GX16855	74	49	3	N/A	18.6	56.0	2,784
Dyna-Gro	M73GR55	82	51	4	N/A	15.6	56.1	1,611
Sorghum Partners	SP7715	79	49	3	N/A	16.0	57.5	1,429
AgriComm Seeds	AGRI-G1	82	56	2	N/A	17.1	54.4	663

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Hale County
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	70	46	3		15.6	56.6	4,392
	C.V. %	2.5	6.4	35.1		13.0	1.5	17.8
	P>f (hybrid)	0.000	0.000			0.002	0.001	0.000
	L.S.D.	2.6	4.4			3.5	1.3	1,168.3

Agronomic information

Plant Date	5/25/2017
Harvest Date	10/17/2017
Irrigated	Yes
Row Spacing (in)	40
Number of Rows	2
Seeds per Acre	55,000
N (lb/ac)	50
P2O5 (lb/ac)	20
K2O (lb/ac)	0
Precipitation (in)	31.21
Irrigation (in)	

Herbicide

Trial Notes

*Special appreciation to Mark Brown for assisting with planting, cutting alleys, and taking flowering notes
*Soil tests showed at least 30lb N/A + 20 lb P2O5/A in residual
*~6 lb Sulfur applied

*Field was sprayed once for SCA after flowering
*Field was sprayed once for midge

Soil Type	
Tillage	
Previous Crop	

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 Almaco meter units on a JD Max-Emerge II 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

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Perryton
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX16855	72	54	4	0	11.7	60.0	8,281
Dyna-Gro	M73GR55	76	54	4	0	12.4	60.2	8,241
DEKALB	DKS 53-53	68	50	5	0	12.2	60.4	8,093
Dyna-Gro	GX17818	68	48	6	0	12.6	53.3	7,983
Dyna-Gro	GX16833	72	52	4	0	12.6	58.6	7,920
Pioneer	84P80	68	48	3	0	12.2	57.9	7,878
B-H Genetics	4100	64	45	4	0	11.9	57.2	7,842
NuTech	GS636	66	44	6	0	12.4	60.4	7,707
Sorghum Partners	SP7715	75	52	5	0	12.4	57.2	7,631
Texas A&M AgriLife Research	ATx2752xRTx430	68	50	5	0	12.4	58.3	7,528
DEKALB	DKS 45-23	67	50	4	0	12.4	58.8	7,419
Alta Seeds	AG3201	65	48	5	0	12.4	58.5	7,383
NuTech	GS725	68	53	7	0	12.4	58.2	7,356
Dyna-Gro	M74GB17	69	51	7	0	12.2	60.0	7,350
Alta Seeds	AG1203	66	45	3	0	12.3	59.5	7,302
Chromatin	CHR0L0029	70	49	4	0	12.2	56.7	7,206
Golden Acres	3960B	64	44	3	0	12.7	60.1	7,193
AgriComm Seeds	AGRI-G1	75	55	4	0	12.2	57.8	7,171
NuTech	GS663	62	41	2	0	12.3	57.8	7,019
Alta Seeds	AG3101	68	54	7	0	12.3	59.7	6,663
Chromatin	CHR2042	68	52	6	0	12.7	60.4	6,649

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Perryton
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
REV	9924	66	46	4	0	12.4	59.8	6,632
Sorghum Partners	SP73B12	67	46	5	0	12.6	58.1	6,622
Dyna-Gro	M60GB31	65	44	3	0	12.3	58.2	6,600
NuTech	GS693	65	45	5	0	12.3	58.7	6,380
DEKALB	DKS 38-16	61	46	4	0	12.2	59.4	6,353
DEKALB	DKS 51-01	65	49	5	0	12.4	58.9	6,328
Dyna-Gro	M60GB88	60	45	4	0	12.4	57.7	6,309
Texas A&M AgriLife Research	ATx399xRTx430	68	45	4	0	12.1	55.9	6,257
Dyna-Gro	M75GR47	65	44	5	0	13.1	59.7	6,110
Texas A&M AgriLife Research	ATx378xRTx430	68	54	4	0	12.2	59.9	6,040
Chromatin	CHR0072	67	42	6	0	12.4	58.1	5,980
Dyna-Gro	GX16535	63	47	3	0	12.3	59.2	5,976
REV	9782	65	44	5	0	12.3	58.2	5,734
Sorghum Partners	SP68M57	62	41	2	0	12.6	58.2	5,615
DEKALB	DKS 37-07	62	45	3	0	12.6	58.6	5,552

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

AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Perryton
2017 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
	Mean	67	48	4	0.0	12.4	58.6	6,953
	C.V. %	2.4	3.5	30.2		4.6	2.8	10.2
	P>f (hybrid)	0.000	0.000			0.764	0.055	0.000
	L.S.D.	2.3	2.3				3.1	989.6

Agronomic information

Plant Date	5/26/2017
Harvest Date	11/1/2017
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
N (lb/ac)	125
P2O5 (lb/ac)	30
K2O (lb/ac)	0
Precipitation (in)	26.39
Irrigation (in)	6

Herbicide

*1.5 qt/A Cinch ATZ Lite applied at planting

Trial Notes

*5 lb/A Zinc applied
*Special thanks to Scott Strawn, Ochiltree Co. CEA, for assisting with planting, note taking, and monitoring test block.

*Significant leaf damage from hail storm around seven leaf stage
*One application of Transform at regular rate applied for SCA at heading

Soil Type	
Tillage	Conventional
Previous Crop	Wheat

Cooperator: Monte Wright

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 Almaco meter units on a JD Max-Emerge II 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

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

Perryton
Grain Sorghum
Multi-Year Summary

Company	Brand	Hybrid	2 yr AVG Yield (lbs/acre)	3 yr AVG Yield (lbs/acre)
Monsanto	DEKALB	DKS 53-53	8,056	8,320
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx2752xRTx430	7,472	7,867
Chromatin Inc.	Chromatin	CHR0L0029	7,420	
Monsanto	DEKALB	DKS 45-23	7,413	
Advanta Seeds	Alta Seeds	AG3201	7,362	7,909
NuTech Seed, LLC	NuTech	GS725	7,278	
Advanta Seeds	Alta Seeds	AG3101	7,146	7,184
Chromatin Inc.	Sorghum Partners	SP73B12	6,977	6,977
NuTech Seed, LLC	NuTech	GS663	6,890	
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx378xRTx430	6,806	7,186
NuTech Seed, LLC	NuTech	GS693	6,712	
Monsanto	DEKALB	DKS 51-01	6,672	7,447
Golden Acres Genetics	Golden Acres	3960B	6,625	
Advanta Seeds	Alta Seeds	AG1203	6,598	7,210
Chromatin Inc.	Chromatin	CHR0072	6,329	
Terral Seed, Inc.	REV	9782	6,305	6,712
Texas A&M AgriLife	Texas A&M AgriLife Research	ATx399xRTx430	6,081	7,338
Chromatin Inc.	Sorghum Partners	SP68M57	5,823	

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.

ACKNOWLEDGMENTS

Appreciation for assistance and cooperation in conducting these tests is expressed to the following.

Farmers: Dean Hansen (Danevang), Joel Hoskinson (Gregory), Don Macha (Hale Co.), Brian Maddox (Limestone Co.), Larry McNair (Nueces Co.), and Monte Wright (Perryton),

Texas A&M AgriLife Research Personnel: Stephen Labar, Dr. Bill Rooney, and Russell Sutton.

Texas A&M AgriLife Extension Personnel: Corrie Bowen, Ryan Collett, Bob McCool, Jason Ott, Andrew Sprague, J.R. Sprague, and Scott Strawn.

Other contributers: Personnel at Rio Farms near Monte Alto, Texas: Andy Scott and Juan Garza.

Appreciation is also expressed to Monsanto Company for providing the herbicide Roundup, that was used to maintain alleyways at the test sites.

Appreciation is also expressed to student workers Colton Adam, David Bryant, Jonah Hutchison, Brayden Stockton, and Caryssa Todd for their assistance in conducting the tests.

LITERATURE CITED

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

Produced by the Department of Soil and Crop Sciences
Texas A&M AgriLife Research and AgriLife Extension Service

soilcrop.tamu.edu