SCS-2013-13

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

2013

2013 Grain Sorghum Performance Tests in Texas

Department of Soil and Crop Sciences

Dennis Pietsch - Director, Crop Testing

Ronnie Schnell - Assistant Professor & Extension Specialist

Bill Rooney - Professor, Texas A&M AgriLife Research

Jonathan Moreno - Agricultural Research Assistant

Katrina Horn - Agricultural Research Assistant

Gary Peterson - Texas A&M AgriLife Research, Lubbock

The Texas A&M University Systems

2013 GRAIN SORGHUM PERFORMANCE TESTS IN TEXAS

by

Ronnie Schnell, Dennis Pietsch, Katrina Horn, Jonathan Moreno, W. L. Rooney, and Gary Peterson

SCS-2013-13

Respectively, Assistant Professor & Extension Specialist; Director, Crop Testing; 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; Professor, Grain Sorghum Breeding and Genetics, Texas A&M AgriLife Research, Lubbock, Texas.

TABLE OF CONTENTS

2013 GRAIN SORGHUM PERFORMANCE TRIALS IN TEXAS

Ronnie Schnell, Dennis Pietsch, Katrina Horn, Jonathan Moreno, W. L. Rooney, and Gary Peterson

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, seven irrigated and four 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 2013 test sites are shown in Figure 1. A total of 366 entries were evaluated across 11 locations representing 87 unique hybrids from 12 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.

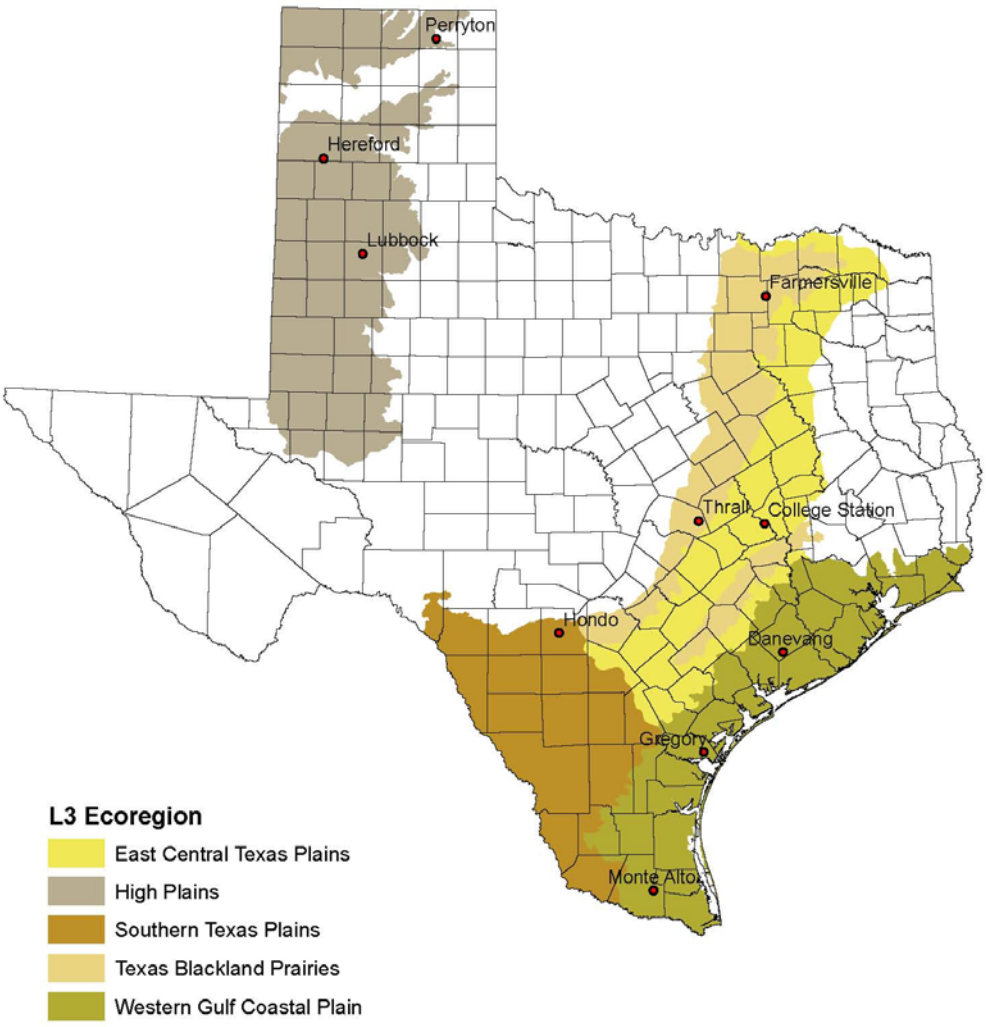
Following yield performance, other characteristics may be useful for selecting the best hybrid. Maturity or days to flowering may be important for selecting hybrids that are appropriate for your growing season/conditions. Typically mid- and full-season hybrids

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. 2013 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 (see agronomic information for each location). 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 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. 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 stands, plant height, head exertion, days to 50% flower and percent stand are recorded at the appropriate times. Additional agronomic information such as midge damage and smut ratings are 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 REMLTOOL. 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.

Within each table, you will find agronomic data submitted by each company for their entries and information measured by the Crop Testing Program. Agronomic information provided by the companies about their hybrids are 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 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 (%).

Plant Stand: average of visual ratings of plant stand (0-100%).

Desirability: subjective visual rating that takes into account uniformity, general appeal, panicle type, etc. Ratings on a 1 to 10 scale with 1 = very poor and 10 = Excellent.

Test Weight: is 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 and regional performance is provided. Multi-year tables are presented as 3-year summaries of yield performance data. The entries are ranked according to hybrid performance in the current year. In addition, summaries for regional performance are provided. Regional summaries present the data as average relative yield. Relative yields are calculated for each site by calculating the yield for each hybrid as a percentage of the best performing hybrid. For example, if the hybrid A is the top yielding entry at a particular location with a yield of 7,500 lb/acre and hybrid B yields 6,200 bu/acre, hybrid A would have a relative yield of 100% and hybrid B would have a relative yield of 83%. The relative yields are averaged across all locations for each production region. Average relative yield values less than 90% suggest inconsistent performance.

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 exist in Texas moving east to west. Often, it is useful to look at rainfall amounts for a given region based on the water-year. The water-year corresponds with hydrological cycles and runs from October 1 through September 30. In contrast to annual rainfall amounts, water-year analysis includes periods of time when soil profile moisture recharge can occur. The observed water-year and departure from normal (%) are provided in Figures 2 and 3.

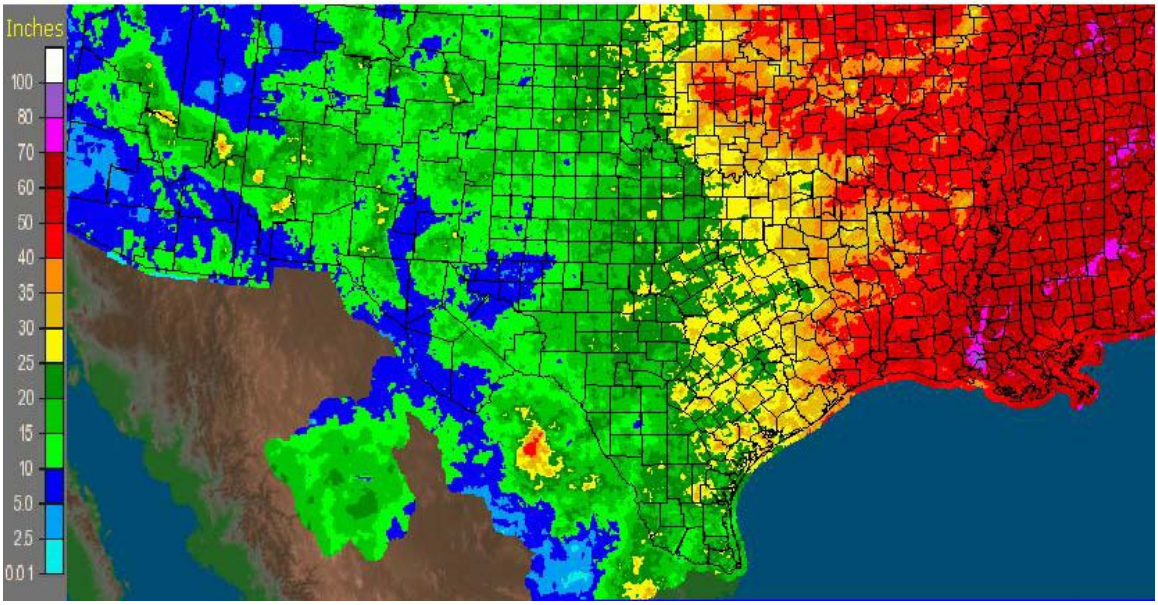


Figure 2. Texas: 2013 Water Year total rainfall in inches.

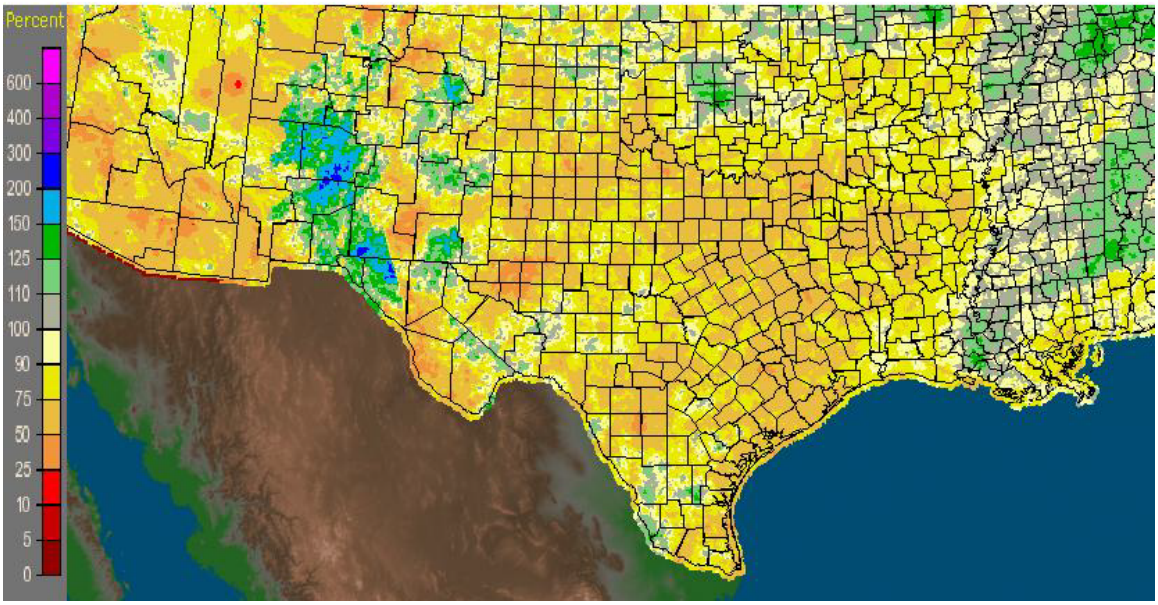


Figure 3. Texas: 2013 Water Year percent (%) of normal.

Table 1. Name, address, and hybrid designation for participants in the 2013 Texas Grain Sorghum Performance Test.

Company	Hybrid	Monte Alto Full	Monte Alto Limited	Gregory	Hondo	Danevang	College Station	Thrall	Farmersville	Lubbock Limited	Hereford	Perryton
Advanta US Inc.	AG 2101	X		X		X	X	X				
P.O. Drawer 2420	AG 2103	X		X		X	X	X				
Hereford, TX 79045	AG 3101	X				X	X	X				
(806) 364-0560	AG 3201			X		X	X					
spodduturi@advantaus.com	XG 1213			X			X	X				
	AG 2102						X	X				
B-H Genetics	BH 5224										X	X
5933 FM 1157	BH 5350										X	
Ganado, TX 77962	BH 5566										X	X
(361) 771-2755	BH 3822											X
travisj@bhgenetics.com												
DuPont Pioneer	83P99	X	X	X	X	X	X					
8100 South 15th St.	84G62	X	X	X	X	X	X	X	X	X	X	
Lincoln, NE 68512	83G19	X	X	X	X	X	X					
(402) 328-4055	84P80	X	X	X	X	X	X	X	X	X	X	
william.mcclure@pioneer.com	85G01							X	X			
	85Y40									X	X	X
	85G03											X
	86G32											X
Gayland Ward Seed Co., Inc.	GW 9417	X	X	X	X	X	X	X		X		
4395 U.S. Hwy 60	GW 9320	X	X									X
Hereford, TX 79045	GW 9480	X	X	X	X	X	X	X			X	
(806) 258-7394	Exp 9010	X	X			X	X	X				X
carson@gaylandwardseed.com	Exp 9011		X			X	X					
	Exp 9059		X	X	X	X	X	X	X	X	X	
	Exp 9061			X		X		X				
Golden Acres Genetics	5556			X				X	X		X	X
P.O. Box 579	5613			X	X	X	X	X	X		X	X
Buchanan Dam, TX 78609	3545			X				X				
(512) 793-5205	3696				X	X	X					
aggie.allison@gmail.com	H390W										X	X
	5745											X

Table 1. Name, address, and hybrid designation for participants in the 2013 Texas Grain Sorghum Performance Test.

Company	Hybrid	Monte Alto Full	Monte Alto Limited	Gregory	Hondo	Danevang	College Station	Thrall	Farmersville	Lubbock Limited	Hereford	Perryton
Monsanto Company	DeKalb DKS49-45	X	X	X	X	X	X					
982 U.S. Hwy. 77	DeKalb DKS51-01	X	X	X	X	X	X	X	X			
Bishop, TX 78343	DeKalb DKS53-67	X	X	X				X	X			
(361) 584-2523	DeKalb DKS44-20				X	X		X				
rdusse@monsanto.com	DeKalb DKS54-00						X					
	DeKalb DKS38-88							X	X			
Monsanto Company	DeKalb DKS49-45									X	X	
7159 N. 247th West	DeKalb DKS53-67									X	X	
Mt. Hope, KS 67108	DeKalb DKS51-01										X	
(316) 445-2290	DeKalb DKS37-07											X
michael.c.lenz@monsanto.com	DeKalb DKS38-88											X
	DeKalb DKS44-20											X
PIFSV-MTMS-MX	Patron 123		X									
(956) 525-3373	Hausteco		X									
paycheck1@rgv.rr.com												
Sorghum Partners	SP 6929	X	X	X	X	X		X				
403 South Monroe	SP 7868	X		X	X	X	X					
New Deal, TX 79350	NK 8416	X		X	X	X	X					
(806) 777-8330	NK 8831	X		X		X	X					
mcarrillo@chromatininc.com	NK 5418		X					X	X		X	
	KS 735		X	X	X	X		X				
	NK 6638		X			X						X
	NK 7829				X						X	
	KS 585							X	X		X	X
	NK 7633								X			
	SP 3425										X	X
	K35-Y5											X
Terral Seed, Inc.	REV RV9562	X	X	X	X	X	X	X	X	X	X	X
111 Ellington Dr.	REV RV9782	X	X	X	X	X	X	X	X	X	X	X
Rayville, LA 71269	REV RV9794	X	X	X	X	X	X	X	X	X	X	X
(662) 822-8242	REV RV9803	X	X	X	X	X	X	X	X	X	X	X
pmichener@terralseed.com	REV RV9823	X	X	X	X	X	X	X	X	X	X	X
	REV RV9883	X	X	X	X	X	X	X	X	X	X	X
	REV RV9924	X	X	X	X	X	X	X	X	X	X	X
	REV RV9973	X	X	X	X	X	X	X	X	X	X	X

Table 1. Name, address, and hybrid designation for participants in the 2013 Texas Grain Sorghum Performance Test.

Company	Hybrid	Monte Alto Full	Monte Alto Limited	Gregory	Hondo	Danevang	College Station	Thrall	Farmersville	Lubbock Limited	Hereford	Perryton
Triumph Seed Co., Inc.	TR 4941	X	X	X	X	X		X	X	X		
P.O. Box 1050	TR 4951	X	X			X		X	X			
Ralls, TX 79357	TR 457	X	X	X	X	X		X	X	X		
(806) 253-2584	TRX 24871			X								
jirwin@triumphseed.com	TRX 15401			X								
	TR 24871							X	X	X		
	TRX 85131							X	X	X		
	TR 424									X		
	TR 438									X		
Wilbur-Ellis Company	Integra 3650	X	X	X	X	X	X	X	X			
10112 Saddle Creek Rd.	Integra 3660	X	X	X	X	X	X	X	X			
Waco, TX 76708	Integra 3670	X	X	X	X	X	X	X	X			
(254) 652-0032												
mcritten@wilburellis.com												
Texas A&M AgriLife Research	ATx399 x RTx430	X	X	X	X	X	X	X	X	X	X	X
	ATx378 x RTx430	X	X	X	X	X	X	X	X	X	X	X
	ATx2752 x RTx430	X	X	X	X	X	X	X	X	X	X	X
	ATx631 x RTx436	X	X	X	X	X	X	X	X	X	X	X
	ATx645 x RTx437	X	X	X	X	X	X	X	X	X	X	X
	ATx645 x RTx2783	X	X	X	X	X	X	X	X	X	X	X

TEXAS A&M AGRILIFE EXTENSION

2013 Grain Sorghum Performance Test

TEXAS A&M AGRILIFE RESEARCH

Western Gulf Coastal Plains	Danevang Yield (lb/ac)	Gregory Yield (lb/ac)	Monte Alto (F) Yield (lb/ac)	Monte Alto (L) Yield (lb/ac)	Average Relative Yield (%)
Pioneer 84P80	5422	4978	7906	8023	95.8
Dekalb DKC 51-01	5115	5562	7766	7347	94.7
REV 9924	4957	5263	7612	8075	94.4
Dekalb DKC 49-45	4910	5313	8190	7023	93.2
Pioneer 84G62	5051	4397	7971	7488	90.2
REV 9823	5429	4661	7117	7357	90.1
Pioneer 83P99	4939	4746	7362	7592	89.7
Pioneer 83G19	4946	4868	7415	7262	89.5
AG 3201	4854	4970	.	.	88.8
REV 9782	5427	4585	7498	6618	88.6
REV 9883	4416	4448	7951	7540	87.7
NK 8416	4395	4954	7619	.	87.3
REV 9973	5028	4346	6942	7408	86.5
Integra 3650	5504	4515	6876	6297	85.8
REV 9562	5051	4567	7431	6080	85.0
Integra 3670	5396	4648	6147	6414	84.0
GW 9320	.	.	7187	6461	83.9
Dekalb DKC 53-67	.	4431	7100	6796	83.5
AG 3101	4112	.	7378	.	83.5
TR 4951	4307	.	7214	6760	83.3
AG 2101	5263	4183	6480	.	83.3
AG 2103	4742	4340	6755	.	82.2
REV 9803	4393	4120	7083	7068	82.0
GW 9059	5058	4243	.	6095	81.2
TR 4941	4870	4356	6626	6277	80.9
Integra 3660	5122	4201	6664	5573	79.7
GA 5613	4299	4488	.	.	79.4
GW 9061	4891	3801	.	.	78.6
REV 9794	3682	4029	7021	7027	78.0
GW 9417	4239	4710	6259	5931	78.0
TAMU ATx631 x RTx436	4646	3459	6565	6625	77.2
GW 9480	3417	3907	7258	7011	76.9
GW 9010	3084	.	6966	7142	76.5
SP 6929	4318	4875	5904	5381	76.2
TAMU ATx2752 x RTx430	4188	3782	6662	5918	74.7
KS 735	4228	4079	.	5853	74.2
SP 7868	4464	4064	5576	.	74.1
TAMU ATx645 x RTx2783	3305	3576	7145	6171	72.8
NK 8831	3361	4024	6146	.	70.3
GW 9011	3346	.	.	6383	69.9
TAMU ATx378 x RTx430	3352	4360	5666	5672	69.7
TR 457	4933	3594	5322	4535	68.8
TAMU ATx645 x RTx430	3418	3813	5967	5780	68.8
TAMU ATx399 x RTx430	3916	3532	5451	5643	67.5

Note: Relative yields are calculated for each site by calculating the yield for each hybrid as a percentage of the best performing hybrid then averaged across all sites within each production region. Hybrids must be entered at more than one location to be be included. (F) = full irrigation, (L) = limited Irrigation

Table 2.	AGRONOMIC AND TEST INFORMATION: MONTE ALTO
TEST:	2013 Full Irrigated Grain Sorghum Performance Test
LOCATION:	Rio Farms, Inc. Research Farm, Southwest of Monte Alto, Texas
COLLABORATORS:	Andy Scott, Eduardo Hernandez, and Juan Garza
SOIL TYPE:	Hidalgo sandy clay loam
ROW WIDTH:	Single 30” row
PREVIOUS CROP:	Soybeans in Fall of 2012
LAND PREPARATION:	Disked, bedded and beds prepared for planting
DATE PLANTED:	2-14-13 with cones mounted on an ALMACO planter using JD Max-Emerge II units. Test was planted on raised beds
CULTIVATED:	4-1-13: used a Lilliston Rolling Cultivator
PLOT LENGTH:	2 rows 26'
FERTILIZER:	January 2013: Applied pre-plant 220 lb/A of 10-28-0-5(S) band in center of bed 4-10-13: Side-dress 220 lb/A of 28+0+0+5(S)
HERBICIDE:	2-13-13: 12 oz/A Outlook immediately after planting
INSECTICIDE:	None
RAINFALL:	January = 2.08”; February = 0.00”; March = 0.00"; April = 6.80”; May = 2.75"; June = .80"; July = 1.1” Total = 13.53”
IRRIGATIONS:	1-30-13: Applied approximately 4” pre-plant 4-10-13 = 4”
DATE HARVESTED:	7-30-13 with JD 3300 plot combine equipped with Grain Gauge.
SIZE HARVESTED PLOT:	2 rows, 26'
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	48
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	7,203 lb/A ,yields corrected to 14% moisture
TEST C.V.:	9.28%

COMMENTS: This was the second year a full irrigated grain sorghum performance test under the auspices of the Crop Testing Program was conducted at Rio Farms, near Monte Alto, Texas located in the Lower Rio Grande Valley. This test was relocated from the Texas A&M AgriLife Research and Extension Center near Weslaco.

The protocol for this test called for no more than two irrigations to be applied to the test block during the growing season. One irrigation was to be applied at the boot stage and the second near the grain fill stage. A final plant population of approximately 90,000-100,000 plants per acre was targeted.

This was an excellent test despite very dry conditions during the early part of the season. After the soybeans were harvested in the Fall of 2012, the test block was prepared for the grain sorghum test. A pre-plant irrigation was applied to the test block on January 30 to insure a good seedbed for the mid-February planting date. A February 13 planting date was secured. Seed emergence was rapid and good plant stands were attained.

The test block received no beneficial rainfall until late-April when a total of 6.8" was received in a span of three days. These beneficial rains helped aid plant growth and development and enhanced final yields. Prior to the late-April rains, the test block was irrigated on April 10, which insured continuous plant growth and development and alleviated early plant stress.

Due to the timely rainfall in late-April and additional rainfall in May, no additional irrigations were applied. The test mean yield was 7,203 lb/A compared to the past 3-year average of 6,924 lb/A. Two hybrids in the test produced over 8,000 lb/A. Excellent test weights were secured with the range being from 53.4 lb/bu to 59.8 lb/bu, and a test mean of 58.0 lb/bu. The incidence of lodging and midge damage was low. Bird damage was observed and reported in the yield table.

Appreciation is expressed to Mr. Andy Scott, Director of Research, Rio Farms Inc. and Mr. Juan Garza for their assistance in conducting this test. Also, to Mr. Eduardo Hernandez for monitoring the test and collecting flowering notes.

For further information about this report or for the Texas AgriLife Research Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director, Texas AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu

Please visit the Texas AgriLife Crop Testing Program webpage at http://varietytesting.tamu.edu

Table 2A. 2013 Monte Alto Full Irrigated Grain Sorghum Performance Test, Rio Farms, Monte Alto, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Midge Damage	Bird Damage	% Moisture	Test Weight lb/bu	Yield lb/A (5)
Fill		ML	R	R	81	56	6	0.0	0.0	0.0	11.9	58.9	8,355
DeKalb DKS49-45	Monsanto Company	M	BZ	P	82	59	9	0.0	0.0	0.0	11.8	58.4	8,190
84G62	DuPont Pioneer	ML	BZ	R	83	54	6	0.0	0.0	0.0	12.2	59.3	7,971
REV® RV9883™	Terral Seed Inc.	ML	R	P	84	57	8	0.0	0.0	0.0	11.5	55.7	7,951
84P80	DuPont Pioneer	ML	R	R	82	56	7	0.0	0.0	0.0	11.9	58.3	7,906
DeKalb DKS51-01	Monsanto Company	ML	BZ	P	80	58	11	0.0	0.0	0.0	11.8	58.9	7,766
NK8416	Sorghum Partners, LLC	L	BZ	P	81	65	9	6.3	2.5	0.0	12.8	59.8	7,619
REV® RV9924™	Terral Seed Inc.	L	R	P	84	55	6	0.0	0.0	0.0	11.9	56.2	7,612
REV® RV9782™	Terral Seed Inc.	ML	R	P	78	52	6	0.0	0.0	0.0	11.8	58.1	7,498
REV® RV9562™	Terral Seed Inc.	ME	R	P	77	54	8	0.0	0.0	2.5	12.0	58.4	7,431
83G19	DuPont Pioneer	ML	BZ	R	78	54	7	0.0	0.0	0.0	11.9	57.1	7,415
AG3101	Advanta US Inc.	ML	R	R	78	58	10	6.3	0.0	1.3	13.0	59.8	7,378
83P99	DuPont Pioneer	ML	BZ	R	80	50	5	0.0	0.0	0.0	12.7	59.3	7,362
GW 9480	Gayland Ward Seed Co.	M	R	P	81	58	7	0.0	0.0	0.0	12.1	58.1	7,258
TR4951	Triumph Seed Co. Inc.	*	*	*	84	60	7	0.0	0.0	0.0	12.3	56.0	7,214
GW 9320	Gayland Ward Seed Co.	ML	R	P	78	55	6	1.3	0.0	2.5	12.0	59.2	7,187
ATx645 x RTx2783	Texas A&M AgriLife Research	ML	M	R	R	58	7	0.0	0.0	2.5	12.0	58.7	7,145
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	84	53	8	0.0	0.0	0.0	11.8	57.4	7,117
DeKalb DKS53-67	Monsanto Company	ML	BZ	P	83	55	8	0.0	0.0	0.0	12.5	59.6	7,100
REV® RV9803™	Terral Seed Inc.	ML	R	P	85	56	8	0.0	0.0	0.0	11.4	56.6	7,083
REV® RV9794™	Terral Seed Inc.	M	R	P	85	54	8	0.0	0.0	0.0	11.2	56.4	7,021
Ex 9010	Gayland Ward Seed Co.	M	BZ	P	80	58	7	2.5	0.0	0.0	11.4	57.0	6,966
REV® RV9973™	Terral Seed Inc.	L	R	P	86	53	6	0.0	0.0	0.0	11.2	56.6	6,942
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	74	49	7	0.0	0.0	0.0	11.0	53.4	6,876
AG2103	Advanta US Inc.	ME	R	R	77	50	8	0.0	0.0	1.3	12.4	59.0	6,755
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	77	50	8	0.0	5.0	0.0	11.5	58.9	6,664
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	73	53	8	3.8	0.0	3.8	11.2	56.8	6,662
TR4941	Triumph Seed Co. Inc.	*	*	*	74	52	8	1.3	0.0	3.3	11.8	58.1	6,626
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	81	60	10	17.5	0.0	3.8	12.6	57.4	6,565
AG2101	Advanta US Inc.	M	R	R	76	49	8	0.0	0.0	0.0	11.8	55.7	6,480

Table 2A. 2013 Monte Alto Full Irrigated Grain Sorghum Performance Test, Rio Farms, Monte Alto, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Midge Damage	Bird Damage	% Moisture	Test Weight lb/bu	Yield lb/A (5)
GW 9417	Gayland Ward Seed Co.	M	R	P	74	56	7	0.0	0.0	11.3	12.9	58.7	6,259
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	70	53	9	1.3	0.0	12.5	11.8	58.7	6,147
NK8831	Sorghum Partners, LLC	ML	BZ	P	79	49	8	2.5	0.0	0.0	11.4	57.7	6,146
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	77	55	7	0.0	0.0	1.3	11.9	57.3	5,967
SP6929	Sorghum Partners, LLC	ML	BZ	P	79	55	12	6.3	0.0	1.3	13.0	58.3	5,904
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	76	59	8	1.3	1.3	6.3	11.6	55.6	5,666
SP7868	Sorghum Partners, LLC	ML	BZ	P	73	55	10	5.0	0.0	1.3	11.7	58.8	5,576
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	71	52	8	2.5	0.0	5.8	10.5	56.2	5,451
TR457	Triumph Seed Co. Inc.	*	*	*	71	49	8	2.0	0.0	7.5	11.0	57.9	5,322
Mean					79.2	54.8	7.5	1.2	0.2	1.4	11.9	58.0	7,203
C.V.					1.86	3.12	12.33	203.04	894.15	240.31	5.35	1.52	9.28
L.S.D. .05					2.10	2.44	1.31	3.58	NS	4.82	0.90	1.26	951

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Appreciation is expressed to Mr. Andy Scott, Director of Research, Rio Farms, Inc.; Mr. Eddie Hernandez, Research Associate Rio Farms, Inc.; and Mr. Juan Garza, Farm Manager, Rio Farms, Inc. for their assistance in conducting this test.

Note 3: Those hybrids entered by the Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) 84P80 was used as a fill plot ten times. Fill entries were analyzed separately, but combined as one entry in the table. This hybrid was entered at our discretion and is intended to be used for comparison purposes only.

(2) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(3) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow. Those hybrids with an asterisk (*) indicates company did not submit grain color.

(4) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(5) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX (979) 845-8505, DPietsch@ag.tamu.edu Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 2B. Three Year Summary (2011-2013) Full Irrigated Grain Sorghum Performance Test, Monte Alto, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
DeKalb DKS49-45	Monsanto Company	1	8,190	3	8,953	8	7,380
84G62	DuPont Pioneer	2	7,971	6	8,784	3	7,715
REV® RV9883™	Terral Seed, Inc.	3	7,951	18	8,048	--	--
84P80	DuPont Pioneer	4	7,906	1	9,537	1	7,985
DeKalb DKS51-01	Monsanto Company	5	7,766	2	9,467	--	--
NK8416	Sorghum Partners, LLC	6	7,619	9	8,645	9	7,362
REV® RV9924™	Terral Seed, Inc.	7	7,612	--	--	--	--
REV® RV9782™	Terral Seed, Inc.	8	7,498	30	7,432	--	--
REV® RV9562™	Terral Seed, Inc.	9	7,431	20	7,955	--	--
83G19	DuPont Pioneer	10	7,415	4	8,927	12	7,114
AG3101	Advanta US Inc.	11	7,378	--	--	--	--
83P99	DuPont Pioneer	12	7,362	16	8,077	5	7,576
GW 9480	Gayland Ward Seed Co., Inc.	13	7,258	--	--	--	--
TR4951	Triumph Seed Co., Inc.	14	7,214	--	--	--	--
GW 9320	Gayland Ward Seed Co., Inc.	15	7,187	23	7,837	26	6,579
ATx645 x RTx2783	Texas A&M AgriLife Research	16	7,145	--	--	--	--
REV® RV9823™	Terral Seed, Inc.	17	7,117	24	7,803	--	--
DeKalb DKS53-67	Monsanto Company	18	7,100	8	8,675	4	7,690
REV® RV9803™	Terral Seed, Inc.	19	7,083	37	7,043	--	--
REV® RV9794™	Terral Seed, Inc.	20	7,021	--	--	--	--
Ex 9010	Gayland Ward Seed Co., Inc.	21	6,966	--	--	--	--
REV® RV9973™	Terral Seed, Inc.	22	6,942	35	7,118	--	--
Integra 3650	Wilbur-Ellis Company	23	6,876	--	--	30	6,210
AG2103	Advanta US Inc.	24	6,755	--	--	--	--
Integra 3660	Wilbur-Ellis Company	25	6,664	17	8,049	13	7,079
ATx2752 x RTx430	Texas A&M AgriLife Research	26	6,662	22	7,850	29	6,233
TR4941	Triumph Seed Co., Inc.	27	6,626	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Research	28	6,565	13	8,355	31	6,195
AG2101	Advanta US Inc.	29	6,480	--	--	--	--
GW 9417	Gayland Ward Seed Co., Inc.	30	6,259	28	7,570	32	6,097

Table 2B. Three Year Summary (2011-2013) Full Irrigated Grain Sorghum Performance Test, Monte Alto, Texas

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
Integra G3670	Wilbur-Ellis Company	31	6,147	--	--	21	6,620
NK8831	Sorghum Partners, LLC	32	6,146	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	33	5,967	--	--	--	--
SP6929	Sorghum Partners, LLC	34	5,904	31	7,345	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	35	5,666	27	7,750	33	6,009
SP7868	Sorghum Partners, LLC	36	5,576	--	--	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	37	5,451	32	7,341	24	6,611
TR457	Triumph Seed Co., Inc.	38	5,322	--	--	--	--
NUS510	NuSeed Mexico	--	--	5	8,908	--	--
Fill (84G62)	Texas A&M AgriLife Research	--	--	7	8,715	--	--
NK7829	Sorghum Partners, LLC	--	--	10	8,588	2	7,811
DeKalb DKS54-00	Monsanto Company	--	--	11	8,489	7	7,410
TRX 14682	Triumph Seed Co., Inc.	--	--	12	8,430	--	--
KS735	Sorghum Partners, LLC	--	--	14	8,241	14	7,040
NK9916	Sorghum Partners, LLC	--	--	15	8,215	6	7,507
TRX 95005	Triumph Seed Co., Inc.	--	--	19	8,033	--	--
REV® RV9953™	Terral Seed, Inc.	--	--	21	7,868	--	--
TRX 05361	Triumph Seed Co., Inc.	--	--	25	7,782	18	6,858
NUS490	NuSeed Mexico	--	--	26	7,752	--	--
TGX 85131	Triumph Seed Co., Inc.	--	--	29	7,546	--	--
NK6638	Sorghum Partners, LLC	--	--	33	7,304	23	6,613
K73-J6	Sorghum Partners, LLC	--	--	34	7,156	34	5,852
NK8830	Sorghum Partners, LLC	--	--	36	7,049	35	5,637
Integra G11172	Wilbur-Ellis Company	--	--	38	4,661	--	--
Number Entries		38		38		36	
Test Mean Yield (lb/A)			7,203		8,096		6,811

Table 3.	AGRONOMIC AND TEST INFORMATION: MONTE ALTO
TEST:	2013 Limited Irrigated Grain Sorghum Performance Test
LOCATION:	Rio Farms, Inc. Research Farm, Southwest of Monte Alto, Texas
COLLABORATORS:	Andy Scott, Eduardo Hernandez, and Juan Garza
SOIL TYPE:	Hidalgo sandy clay loam
ROW WIDTH:	Single 30” row
PREVIOUS CROP:	Soybeans in Fall of 2012
LAND PREPARATION:	Disked, bedded, and beds prepared for planting
DATE PLANTED:	2-14-13 with cones mounted on an ALMACO planter using JD Max-Emerge II units. Test was planted on raised beds
CULTIVATED:	4-1-13: used a Lilliston Rolling Cultivator
PLOT LENGTH:	2 rows 26'
FERTILIZER:	January 2013: Applied pre-plant 220 lb/A of 10-28-0-5(S) band in center of bed 4-10-13: Side-dress 220 lb/A of 28+0+0+5(S)
HERBICIDE:	2-13-13: 12 oz/A Outlook immediately after planting
INSECTICIDE:	None
RAINFALL:	January = 2.08”; February = 0.00”; March = 0.00"; April = 6.80”; May = 2.75"; June = .80"; July = 1.1” Total = 13.53”
IRRIGATIONS:	1-30-13: Applied approximately 4” pre-plant 4-10-13 = 4”;
DATE HARVESTED:	7-30-13 with JD 3300 plot combine equipped with Grain Gauge.
SIZE HARVESTED PLOT:	2 rows, 26'
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	48
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	6,839 lb/A, yields corrected to 14% moisture
TEST C.V.:	8.45%

COMMENTS: This was the second year a limited irrigated grain sorghum performance test under the auspices of the Crop Testing Program was conducted at Rio Farms, near Monte Alto, Texas located in the Rio Grande Valley of Texas. This test was relocated from the Texas A&M AgriLife Research and Extension Center near Weslaco last year where it had been conducted for the past 13 years.

The protocol for this test called for no more than one irrigation to be applied to the test block during the growing season, preferably near the flowering stage. If an additional irrigation was needed due to a severe weather event, such as drought, it could be applied based on the judgment of the test collaborator. A final plant population of approximately 60,000 plants per acre was targeted.

This was an excellent test despite very dry conditions during the early part of the season. After the soybeans were harvested in the Fall of 2012, the test block was prepared for the grain sorghum test. A pre-plant irrigation was applied to the test block on January 30 to insure a good seedbed for the mid-February planting date. A February 13 planting date was secured. Seed emergence was rapid and good plant stands were attained.

The test block received no beneficial rainfall until late-April when a total of 6.8" was received in a span of three days. These beneficial rains helped aid plant growth and development and enhanced final yields. Prior to the late-April rains, the test block was irrigated on April 10, which insured continuous plant growth and development and alleviated early plant stress.

Due to the timely rainfall in late-April and additional rainfall in May, the protocol for this test was followed and no additional irrigations were applied. The test mean yield was 6,839 lb/A compared to the past 3-year average of 6,308 lb/A. Three hybrids in the test produced over 8,000 lb/A. Lodging was not a problem in the test.

Smut was observed in the test. Counts were taken from all four replications, averaged, and presented in the yield table. The incidence of bird and midge damage was very low.

Appreciation is expressed to Mr. Andy Scott, Director of Research, Rio Farms Inc. and Mr. Juan Garza for their assistance in conducting this test. Also, to Mr. Eduardo Hernandez for monitoring the test and collecting flowering notes.

For further information about this report or for the Texas AgriLife Research Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director, Texas AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu

Please visit the Texas AgriLife Crop Testing Program webpage at http://varietytesting.tamu.edu

Table 3A. 2013 Monte Alto Limited Grain Sorghum Performance Test, Rio Farms, Monte Alto, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Stand	No. Smut (5)	% Moisture	Test Weight lb/bu	Yield lb/A (6)
Fill		ML	R	R	81	54	6	99	5.7	15.0	59.2	8,266
REV® RV9924™	Terral Seed Inc.	L	R	P	82	56	5	100	0.0	14.4	57.2	8,075
84P80	DuPont Pioneer	ML	R	R	82	53	6	91	6.5	14.5	59.0	8,023
83P99	DuPont Pioneer	ML	BZ	R	82	50	5	100	2.8	14.5	59.0	7,592
REV® RV9883™	Terral Seed Inc.	ML	R	P	84	55	6	100	0.3	15.0	57.5	7,540
84G62	DuPont Pioneer	ML	BZ	R	81	53	6	96	5.8	15.2	59.0	7,488
REV® RV9973™	Terral Seed Inc.	L	R	P	86	53	4	100	0.0	15.0	57.5	7,408
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	83	53	6	100	1.0	14.9	58.1	7,357
DeKalb DKS51-01	Monsanto Company	ML	BZ	P	80	55	8	95	4.3	14.7	59.2	7,347
83G19	DuPont Pioneer	ML	BZ	R	76	55	7	100	1.5	15.7	57.8	7,262
Ex 9010	Gayland Ward Seed Co.	M	BZ	P	79	54	5	90	3.0	15.1	57.0	7,142
REV® RV9803™	Terral Seed Inc.	ML	R	P	83	53	6	93	0.5	13.8	57.5	7,068
REV® RV9794™	Terral Seed Inc.	M	R	P	85	54	7	100	0.5	13.9	56.3	7,027
DeKalb DKS49-45	Monsanto Company	M	BZ	P	81	57	8	93	1.3	14.7	58.4	7,023
GW 9480	Gayland Ward Seed Co.	M	R	P	81	56	7	93	0.8	15.1	58.4	7,011
DeKalb DKS53-67	Monsanto Company	ML	BZ	P	82	54	8	98	7.3	14.6	60.0	6,796
TR4951	Triumph Seed Co. Inc.	*	*	*	82	57	8	93	1.3	14.4	56.3	6,760
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	81	60	10	100	14.5	14.5	58.1	6,625
REV® RV9782™	Terral Seed Inc.	ML	R	P	76	50	6	100	0.0	13.9	59.2	6,618
GW 9320	Gayland Ward Seed Co.	ML	R	P	80	54	5	86	0.8	15.4	58.9	6,461
Patron 123	PIFSV-MTMS-MX	ME	BZ	P	75	50	6	89	1.5	14.6	55.1	6,447
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	71	50	7	93	4.5	14.9	56.9	6,414
Ex 9011	Gayland Ward Seed Co.	M	R	P	82	61	9	89	2.8	15.3	58.7	6,383
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	73	48	7	100	1.3	13.5	54.9	6,297
TR4941	Triumph Seed Co. Inc.	*	*	*	72	49	8	100	1.5	15.0	57.6	6,277
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	80	58	7	78	0.5	15.8	58.5	6,171
NK6638	Sorghum Partners, LLC	M	BZ	P	72	54	9	100	1.5	14.4	57.6	6,144
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	77	50	9	98	1.0	14.4	56.7	6,095
REV® RV9562™	Terral Seed Inc.	ME	R	P	78	51	8	100	3.5	14.2	58.9	6,080
Huasteco	PIFSV-MTMS-MX	M	BZ	P	74	57	7	88	5.5	14.8	54.5	6,067

Table 3A. 2013 Monte Alto Limited Grain Sorghum Performance Test, Rio Farms, Monte Alto, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Stand	No. Smut (5)	% Moisture	Test Weight lb/bu	Yield lb/A (6)
GW 9417	Gayland Ward Seed Co.	M	R	P	76	54	7	95	1.5	14.3	58.5	5,931
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	74	52	8	95	3.5	14.1	56.3	5,918
KS735	Sorghum Partners, LLC	ML	BZ	P	74	51	7	95	0.5	13.2	56.5	5,853
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	77	52	7	90	2.3	14.6	57.7	5,780
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	75	56	8	95	6.3	13.2	56.0	5,672
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	72	49	8	100	2.3	14.5	55.8	5,643
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	73	46	7	93	1.0	15.5	58.6	5,573
SP6929	Sorghum Partners, LLC	ML	BZ	P	80	50	8	80	5.0	14.4	58.6	5,381
NK5418	Sorghum Partners, LLC	M	BZ	P	71	44	9	100	7.3	13.3	56.0	4,601
TR457	Triumph Seed Co. Inc.	*	*	*	71	45	8	88	3.8	14.2	56.9	4,535
Mean					78.5	53.0	6.7	95.3	3.3	14.6	57.9	6,839
C.V.					2.12	3.02	14.99	8.26	104.74	6.44	1.07	8.45
L.S.D. .05					2.37	2.27	1.43	11.20	4.95	1.34	0.88	822

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Appreciation is expressed to Mr. Andy Scott, Director of Research, Rio Farms, Inc.; Mr. Eddie Hernandez, Research Associate Rio Farms, Inc.; and Mr. Juan Garza, Farm Manager , Rio Farms, Inc. for their assistance in conducting this test.

Note 3: Those hybrids entered by the Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) 84P80 was used as a fill plot nine times. Fill entries were analyzed separately, but combined as one entry in the table. This hybrid was entered at our discretion and is intended to be used for comparison purposes only.

(2) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(3) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow. Those hybrids with an asterisk (*) indicates company did not submit grain color.

(4) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(5) Number of plants showing smut. Reading were obtained at harvest from each plot in all replications and averaged.

Table 3A. 2013 Monte Alto Limited Grain Sorghum Performance Test, Rio Farms, Monte Alto, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Stand	No. Smut (5)	% Moisture	Test Weight lb/bu	Yield lb/A (6)

(6) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX (979) 845-8505, DPietsch@ag.tamu.edu

Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 3B. Three Year Summary (2011-2013) Limited Irrigation Grain Sorghum Performance Test, Monte Alto, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
REV® RV9924™	Terral Seed, Inc.	1	8,075	--	--	--	--
84P80	DuPont Pioneer	2	8,023	1	9,275	1	6,777
83P99	DuPont Pioneer	3	7,592	14	8,450	4	6,172
REV® RV9883™	Terral Seed, Inc.	4	7,540	17	8,163	--	--
84G62	DuPont Pioneer	5	7,488	3	9,104	5	6,153
REV® RV9973™	Terral Seed, Inc.	6	7,408	29	7,674	--	--
REV® RV9823™	Terral Seed, Inc.	7	7,357	10	8,597	--	--
DeKalb DKS 51-01	Monsanto Company	8	7,347	2	9,190	--	--
83G19	DuPont Pioneer	9	7,262	8	8,669	35	4,843
EXP 9010	Gayland Ward Seed Co., Inc	10	7,142	15	8,434	--	--
REV® RV9803™	Terral Seed, Inc.	11	7,068	34	7,448	--	--
REV® RV9794™	Terral Seed, Inc.	12	7,027	--	--	--	--
DeKalb DKS49-45	Monsanto Company	13	7,023	13	8,496	10	5,707
GW9480	Gayland Ward Seed Co., Inc	14	7,011	--	--	2	6,300
DeKalb DKS53-67	Monsanto Company	15	6,796	7	8,697	12	5,689
TR4951	Triumph Seed	16	6,760	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Research	17	6,625	5	8,918	36	4,795
REV® RV9782™	Terral Seed, Inc.	18	6,618	28	7,704	--	--
GW 9320	Gayland Ward Seed Co., Inc	19	6,461	--	--	25	5,305
Patron 123	PIFSV-MTMS-MX	20	6,447	--	--	--	--
Integra 3670	Wilbur-Ellis Company	21	6,414	--	--	11	5,703
EXP 9011	Gayland Ward Seed Co., Inc	22	6,383	16	8,400	--	--
Integra 3650	Wilbur-Ellis Company	23	6,297	--	--	21	5,441
TR 4941	Triumph Seed	24	6,277	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Research	25	6,171	--	--	--	--
NK6638	Sorghum Partners, LLC	26	6,144	--	--	--	--
Exp 9059	Gayland Ward Seed Co., Inc	27	6,095	--	--	--	--
REV® RV9562™	Terral Seed, Inc.	28	6,080	27	7,717	--	--
Hausteco	PIFSV-MTMS-MX	29	6,067	--	--	--	--
GW 9417	Gayland Ward Seed Co., Inc	30	5,931	19	8,054	16	5,603

Table 3B. Three Year Summary (2011-2013) Limited Irrigation Grain Sorghum Performance Test, Monte Alto, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
ATx2752 x RTx430	Texas A&M AgriLife Research	31	5,918	33	7,498	15	5,614
KS 735	Sorghum Partners, LLC	32	5,853	26	7,720	18	5,503
ATx645 x RTx437	Texas A&M AgriLife Research	33	5,780	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	34	5,672	6	8,834	13	5,641
ATx399 x RTx430	Texas A&M AgriLife Research	35	5,643	39	6,701	20	5,446
Integra 3660	Wilbur-Ellis Company	36	5,573	20	7,909	28	5,116
SP6929	Sorghum Partners, LLC	37	5,381	35	7,406	--	--
NK5418	Sorghum Partners, LLC	38	4,601	38	6,785	--	--
TR457	Triumph Seed	39	4,535	--	--	--	--
Fill (84G62)	Texaa A&M AgriLife Research	--	--	4	8,984	--	--
REV® RV9953™	Terral Seed, Inc.	--	--	9	8,630	--	--
Check 1	Texas A&M AgriLife Research	--	--	11	8,584	--	--
DeKalb DKS54-00	Monsanto Company	--	--	12	8,526	38	4,621
K73-J6	Sorghum Partners, LLC	--	--	18	8,069	--	--
NK7829	Sorghum Partners, LLC	--	--	21	7,893	40	4,438
TRX 05361	Triumph Seed	--	--	22	7,804	--	--
GA 3545	Golden Acres Genetics	--	--	23	7,753	--	--
TRX 95005	Triumph Seed	--	--	24	7,741	--	--
TGX 85131	Triumph Seed	--	--	25	7,737	--	--
EXP 9031	Gayland Ward Seed Co., Inc	--	--	30	7,670	--	--
TRX 14682	Triumph Seed	--	--	31	7,649	--	--
GA 3696	Golden Acres Genetics	--	--	32	7,611	24	5,391
NK8830	Sorghum Partners, LLC	--	--	36	7,292	34	4,851
Check 2	Texas A&M AgriLife Research	--	--	37	7,081	--	--
Integra G11172	Wilbur-Ellis Company	--	--	40	6,486	--	--
NK4420	Sorghum Partners, LLC	--	--	41	6,348	32	4,946
KS585	Sorghum Partners, LLC	--	--	42	6,280	--	--
Number Entries		39		42		42	
Test Mean Yield (lb/A)			6,839		8,021		5,374

Table 4.	AGRONOMIC AND TEST INFORMATION: GREGORY
TEST:	2013 Dryland Grain Sorghum Performance Test
LOCATION:	Allan Hunt Farm, Gregory, Texas
COOPERATORS:	Allan Hunt
SOIL TYPE:	Raymondville clay loam, 0-1% slope
ROW WIDTH:	38"
PREVIOUS CROP:	Grain Sorghum
LAND PREPARATION:	Full Conventional Till; shred stalks, deep plowed, disked, field cultivated, and planted flat
DATE PLANTED:	2-28-13, planted flat with cones mounted on an Almaco planter using JD Max-Emerge II units.
PLANT POPULATION:	Seeds were packaged to obtain a final population of approximately 75,000-80,000 plants/A
PLOT LENGTH:	2 rows 26'
FERTILIZER:	Broadcast 250 lb/A of 32+0+0 + 2 gal/A of ACCUGro Black Label Phosphate + trace minerals; pre-plant
HERBICIDE:	Applied and incorporated with a field cultivator 13 oz/A of Outlook + .75 lb/A Atrazine along with fertilizer
RAINFALL:	Rainfall was not recorded at the test block, however the cooperator indicated he had approximately 3.0” during the growing season with most of the rain occurring late in the growing season.
DATE HARVESTED:	7-15-13 with JD 3300 plot combine equipped with Grain Gauge
SIZE HARVESTED PLOT:	2 rows, 26' long
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	50
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	4,444 lb/A; yields corrected to 14% moisture
TEST C.V.:	15.15%

Table 4A. 2013 Gregory Grain Sorghum Performance Test, Allan Hunt Farm, Gregory, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Moisture	Test Weight lb/bu	Yield lb/A (5)
DeKalb DKS51-01	Monsanto Company	ML	BZ	P	84	52	7	0.0	12.2	60.3	5,562
3545	Golden Acres Genetics	M	BZ	P	83	49	8	0.0	11.3	59.8	5,431
DeKalb DKS49-45	Monsanto Company	M	BZ	P	85	47	6	0.0	12.3	60.2	5,313
REV® RV9924™	Terral Seed Inc.	L	R	P	84	46	3	0.0	10.7	59.3	5,263
84P80	DuPont Pioneer	ML	R	R	84	44	3	0.0	11.8	60.4	4,978
AG3201	Advanta US Inc	ML	BZ	R	82	46	5	0.0	12.6	59.6	4,970
NK8416	Sorghum Partners, LLC	L	BZ	P	85	54	6	0.0	11.6	60.8	4,954
SP6929	Sorghum Partners, LLC	ML	BZ	P	83	48	8	0.0	12.5	60.3	4,875
83G19	DuPont Pioneer	ML	BZ	R	83	45	4	2.5	11.0	60.3	4,868
Fill		ML	R	R	84	45	3	0.0	11.7	60.3	4,844
83P99	DuPont Pioneer	ML	BZ	R	87	42	2	0.0	11.9	60.7	4,746
GW 9417	Gayland Ward Seed Co.	M	R	P	83	52	5	10.0	12.1	60.8	4,710
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	84	45	4	0.0	11.7	61.0	4,661
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	82	45	5	2.5	12.0	60.2	4,648
REV® RV9782™	Terral Seed Inc.	ML	R	P	83	45	4	3.8	11.4	61.0	4,585
TRX15401	Triumph Seed Co. Inc.	*	*	*	86	48	3	0.0	11.8	60.1	4,579
REV® RV9562™	Terral Seed Inc.	ME	R	P	83	42	4	0.0	11.2	60.8	4,567
5556	Golden Acres Genetics	ME	R	P	82	41	8	0.0	11.2	60.9	4,529
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	81	43	6	0.0	10.5	56.6	4,515
5613	Golden Acres Genetics	M	BZ	P	83	44	7	0.0	11.6	60.6	4,488
REV® RV9883™	Terral Seed Inc.	ML	R	P	85	48	4	0.0	11.3	59.6	4,448
XG1213	Advanta US Inc	ME	BZ	R	84	43	5	0.0	11.5	59.9	4,440
DeKalb DKS53-67	Monsanto Company	ML	BZ	P	86	45	4	0.0	13.0	61.8	4,431
84G62	DuPont Pioneer	ML	BZ	R	86	42	2	0.0	11.5	60.7	4,397
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	84	54	6	0.0	11.8	59.2	4,360
TR4941	Triumph Seed Co. Inc.	*	*	*	82	43	5	0.0	11.4	60.1	4,356
REV® RV9973™	Terral Seed Inc.	L	R	P	87	43	2	0.0	11.6	60.1	4,346
AG2103	Advanta US Inc	ME	R	R	83	41	8	2.5	11.7	61.0	4,340
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	83	46	8	0.0	12.7	57.0	4,243
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	82	42	7	3.8	11.6	60.6	4,201

Table 4A. 2013 Gregory Grain Sorghum Performance Test, Allan Hunt Farm, Gregory, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Moisture	Test Weight lb/bu	Yield lb/A (5)
AG2101	Advanta US Inc	M	R	R	83	45	5	0.0	11.3	59.4	4,183
REV® RV9803™	Terral Seed Inc.	ML	R	P	84	41	4	0.0	11.8	60.4	4,120
KS735	Sorghum Partners, LLC	ML	BZ	P	83	45	5	2.5	11.3	60.1	4,079
SP7868	Sorghum Partners, LLC	ML	BZ	P	84	50	9	5.0	12.4	61.9	4,064
REV® RV9794™	Terral Seed Inc.	M	R	P	85	46	4	1.3	11.1	59.6	4,029
NK8831	Sorghum Partners, LLC	ML	BZ	P	84	47	5	12.5	11.2	60.6	4,024
GW 9480	Gayland Ward Seed Co.	M	R	P	86	51	4	16.3	12.2	61.9	3,907
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	84	50	5	5.0	12.4	59.5	3,813
Exp 9061	Gayland Ward Seed Co.	M	BZ	P	83	45	6	0.0	13.2	57.2	3,801
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	83	43	5	5.0	11.8	60.5	3,782
TR457	Triumph Seed Co. Inc.	*	*	*	82	42	7	10.0	11.5	60.2	3,594
ATx645 x RTx2783	Texas A&M AgriLife Research	ML	R	R	86	51	4	7.5	13.1	60.8	3,576
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	83	44	6	16.3	12.2	59.9	3,532
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	84	46	4	10.0	11.5	60.4	3,459
TRX24871	Triumph Seed Co. Inc.	*	*	*	88	43	4	0.0	12.2	60.2	3,398
Mean					83.9	45.5	4.8	2.3	11.8	60.2	4,444
C.V.					0.92	4.98	20.46	294.55	8.32	1.20	15.15
L.S.D. .05					1.10	3.22	1.39	9.73	NS	1.02	957

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) Dupont Pioneer brand 84P80 was used as a fill plot six times. Fill entries were analyzed separately,but combined as one entry in the table. This hybrid was entered at our discretion and is intended to be used for comparison purposes only.

(2) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(3) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(4) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

Table 4A. 2013 Gregory Grain Sorghum Performance Test, Allan Hunt Farm, Gregory, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Moisture	Test Weight lb/bu	Yield lb/A (5)

(5) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX (979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 4B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Gregory, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
DeKalb DKS51-01	Monsanto Company	1	5,562	22	3,913	--	--
GA 3545	Golden Acres Genetics	2	5,431	4	4,782	--	--
DeKalb DKS49-45	Monsanto Company	3	5,313	9	4,568	13	3,744
REV® RV9924™	Terral Seed, Inc.	4	5,263	--	--	--	--
84P80	DuPont Pioneer	5	4,978	10	4,500	7	3,876
AG3201	Advanta US, Inc.	6	4,970	--	--	--	--
NK8416	Sorghum Partners, LLC	7	4,954	--	--	--	--
SP6929	Sorghum Partners, LLC	8	4,875	--	--	--	--
83G19	DuPont Pioneer	9	4,868	19	4,204	27	3,417
83P99	DuPont Pioneer	10	4,746	3	4,794	20	3,625
GW 9417	Gayland Ward Seed Co.	11	4,710	--	--	--	--
REV® RV9823™	Terral Seed, Inc.	12	4,661	16	4,313	--	--
Integra 3670	Wilbur-Ellis Company	13	4,648	5	4,657	5	3,963
REV® RV9782™	Terral Seed, Inc.	14	4,585	6	4,647	--	--
TRX 15401	Triumph Seed Co., Inc.	15	4,579	--	--	--	--
REV® RV9562™	Terral Seed, Inc.	16	4,567	25	3,497	--	--
5556	Golden Acres Genetics	17	4,529	--	--	--	--
Integra 3650	Wilbur-Ellis Company	18	4,515	2	4,829	9	3,834
GA 5613	Golden Acres Genetics	19	4,488	8	4,580	--	--
REV® RV9883™	Terral Seed, Inc.	20	4,448	27	3,437	--	--
XG 1213	Advanta US, Inc.	21	4,440	--	--	--	--
DeKalb DKS53-67	Monsanto Company	22	4,431	11	4,454	11	3,757
84G62	DuPont Pioneer	23	4,397	7	4,625	16	3,689
ATx378 x RTx430	Texas A&M AgriLife Research	24	4,360	18	4,231	33	2,944
TR4941	Triumph Seed Co., Inc.	25	4,356	--	--	--	--
REV® RV9973™	Terral Seed, Inc.	26	4,346	21	4,161	--	--
AG 2103	Advanta US, Inc.	27	4,340	--	--	12	3,747
Exp 9059	Gayland Ward Seed Co.	28	4,243	--	--	--	--
Integra 3660	Wilbur-Ellis Company	29	4,201	1	4,970	1	4,163
AG 2101	Advanta US, Inc.	30	4,183	--	--	--	--

Table 4B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Gregory, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
REV® RV9803™	Terral Seed, Inc.	31	4,120	12	4,422	--	--
KS735	Sorghum Partners, LLC	32	4,079	--	--	--	--
SP7868	Sorghum Partners, LLC	33	4,064	--	--	--	--
REV® RV9794™	Terral Seed, Inc.	34	4,029	--	--	--	--
NK8831	Sorghum Partners, LLC	35	4,024	--	--	--	--
GW 9480	Gayland Ward Seed Co.	36	3,907	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	37	3,813	--	--	--	--
Exp 9061	Gayland Ward Seed Co.	38	3,801	--	--	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	39	3,782	23	3,623	25	3,529
TR457	Triumph Seed Co., Inc.	40	3,594	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Research	41	3,576	--	--	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	42	3,532	30	2,424	29	3,355
ATx631 x RTx436	Texas A&M AgriLife Research	43	3,459	24	3,544	31	3,094
TRX 24871	Triumph Seed Co., Inc.	44	3,398	--	--	--	--
TRX95005	Triumph Seed Co., Inc.	--	--	13	4,358	3	4,014
TRX14682	Triumph Seed Co., Inc.	--	--	14	4,338	14	3,724
DeKalb DKS37-07	Monsanto Company	--	--	15	4,338	4	3,998
Integra G3700	Wilbur-Ellis Company	--	--	17	4,288	10	3,826
REV® RV9953™	Terral Seed, Inc.	--	--	20	4,178	--	--
TRX85131	Triumph Seed Co., Inc.	--	--	26	3,482	21	3,607
TRX05361	Triumph Seed Co., Inc.	--	--	28	3,313	32	3,017
Integra G11172	Wilbur-Ellis Company	--	--	29	3,261	--	--
Number Entries		44		30		34	
Test Mean Yield (lb/A)			4,444		4,158		3,588

Table 5.	AGRONOMIC AND TEST INFORMATION: DANEVANG
TEST:	2013 Dryland Grain Sorghum Performance Test
LOCATION:	Dean Hansen Farm, Danevang, Texas
COOPERATOR:	Dean Hansen
SOIL TYPE:	Lake Charles clay
ROW WIDTH:	Raised 40” seedbeds
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Bedded, hipped
DATE PLANTED:	3-12-13, planted with cones mounted on an Almaco planter using JD Max-Emerge II units.
PLANT POPULATION:	Seeds were packaged to obtain a final population of approximately 80,000-85,000 plants/A
PLOT LENGTH:	2 rows 26'
FERTILIZER:	11-19-12: Applied 111 lb/A of 6+28+19+9S+1.9Zn 12-5-12: Applied 384 lb/A of 32+0+0 3-6-13: Applied 4 gal/A of 6+26+6
HERBICIDE:	2-4-13: Applied a tank mix of 32 oz/A of Atrazine 4L + 24 oz/A of Touchdown Total + 32 oz/A of ROC (crop oil) 3-8-13: Applied tank mix of 14 oz/A of Outlook + 16 oz/A of Touchdown Total + 6 0z/A of In-Place +16 oz/A of ROC 7-1-13: Applied 1 oz/A of Aim EC + 32 oz/A of Touchdown Total + 8 oz/A of Cayuse Plus as a harvest aid
INSECTICIDE:	None, seeds were required to be treated with a seed insecticide
RAINFALL:	Rainfall was not recorded at the test site, however the cooperator indicated that it was below average during the growing season.
DATE HARVESTED:	7-24-13 with a JD 3300 plot combine equipped with Grain Gauge
SIZE HARVESTED PLOT:	2 rows, 26' long
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	46
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	4,571 lb/A; yields corrected to 14% moisture
TEST C.V.:	15.14%

COMMENTS: This site, located in Wharton County, is a major grain sorghum producing area in Texas. Commercial seed companies use this location to enhance their testing program whereby hybrids can be evaluated for genetic and phenotypic traits.

Good yields were attained at this Upper Coast location; however, potential yields were reduced by several rain events at harvest. The season started with ample soil moisture from fall and winter rains. An excellent seedbed was available for the March 12 planting date which was 6 days later than the planting date the cooperator used in the rest of the field. It appeared some rows emerged later than others although seeds were planted at the same planter unit depth.

Good plant growth and development resulted from a good fertilization program and beneficial rainfall. The number of days to achieve 50% flowering ranged from 78 to 85 days. Although this represents only 7 days difference, flowering was not consistent between rows and reps due to seedling emergence. Due to the inconsistent flowering between rows, some plots suffered varying degrees of midge damage. Midge damage was visually scored and presented in the yield table.

On July 1, Glyphosate was applied to the test block as a harvest aid. Glyphosate is used as a harvest aid along the Gulf Coast whereby farmers can harvest their crop before tropical storms set in. Unfortunately, two rain events occurred after the Glyphosate was applied to the test, thus lodging occurred in some hybrids. Potential yields were probably affected by the lodging.

The test mean yield was 4,571 lb/A. Fourteen hybrids produced between 5,028 lb/A and 5,504 lb/A. Excellent test weights were obtained with the range being from 54.5 lb/bu to 61.5 lb/bu.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas AgriLife Research, College Station, TX
(979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 5A. 2013 Danevang Grain Sorghum Performance Test, Dean Hansen Farm, Danevang, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Midge	% Moisture	Test Weight lb/bu	Yield lb/A (5)
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	80	45	5	0.0	0.0	12.2	54.5	5,504
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	84	51	5	0.0	2.5	14.0	59.9	5,429
REV® RV9782™	Terral Seed Inc.	ML	R	P	81	48	4	1.3	0.0	13.6	59.5	5,427
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	79	52	6	7.5	0.0	14.0	58.7	5,396
84P80	DuPont Pioneer	ML	R	R	83	51	4	3.7	0.6	13.8	59.6	5,329
AG2101	Advanta US Inc	M	R	R	80	48	6	0.0	0.0	13.4	58.1	5,263
DeKalb DKS44-20	Monsanto Co.	M	BZ	P	84	50	6	0.0	0.0	14.9	58.9	5,196
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	80	47	7	2.5	0.0	14.2	59.6	5,122
DeKalb DKS51-01	Monsanto Co.	ML	BZ	P	84	56	6	0.0	0.0	14.3	60.4	5,116
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	82	47	6	0.0	0.0	13.7	57.3	5,058
3696	Golden Acres Genetics	ML	BZ	P	80	49	6	7.1	0.0	14.2	58.5	5,054
REV® RV9562™	Terral Seed Inc.	ME	R	P	83	51	5	5.0	0.0	13.8	59.8	5,051
84G62	DuPont Pioneer	ML	BZ	R	85	48	3	0.0	5.0	13.7	59.4	5,051
REV® RV9973™	Terral Seed Inc.	L	R	P	86	49	2	0.0	0.0	14.7	58.9	5,028
DeKalb DKS49-45	Monsanto Co.	M	BZ	P	85	52	4	1.1	0.0	14.1	59.1	4,957
REV® RV9924™	Terral Seed Inc.	L	R	P	84	51	3	7.5	3.8	14.2	58.5	4,957
83G19	DuPont Pioneer	ML	BZ	R	80	52	5	11.3	0.0	14.3	59.6	4,946
83P99	DuPont Pioneer	ML	BZ	R	85	49	3	0.0	0.0	13.6	58.9	4,939
TR457	Triumph Seed Co. Inc.	*	*	*	80	44	5	0.0	0.0	13.3	57.7	4,933
TR4941	Triumph Seed Co. Inc.	*	*	*	80	50	6	15.5	16.4	13.5	58.8	4,904
Exp 9061	Gayland Ward Seed Co.	M	BZ	P	83	48	3	0.0	0.0	13.4	55.9	4,891
Fill	Texas A&M AgriLife Research	ML	R	R	84	51	4	4.9	7.8	14.2	59.0	4,887
AG3201	Advanta US Inc	ML	BZ	R	80	49	6	12.5	2.5	14.4	59.1	4,854
AG2103	Advanta US Inc	ME	R	R	82	48	6	2.5	0.0	13.8	59.3	4,743
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	84	58	5	0.0	0.0	14.0	59.7	4,646
SP7868	Sorghum Partners, LLC	ML	BZ	P	80	54	9	16.3	0.0	14.6	60.7	4,464
REV® RV9883™	Terral Seed Inc.	ML	R	P	84	52	4	3.8	8.8	14.2	58.5	4,416
NK8416	Sorghum Partners, LLC	L	BZ	P	82	58	7	27.5	0.0	14.4	61.0	4,395
REV® RV9803™	Terral Seed Inc.	ML	R	P	83	46	4	0.0	0.0	14.3	57.7	4,393
SP6929	Sorghum Partners, LLC	ML	BZ	P	82	47	6	0.0	0.0	14.3	59.3	4,318

Table 5A. 2013 Danevang Grain Sorghum Performance Test, Dean Hansen Farm, Danevang, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Midge	% Moisture	Test Weight lb/bu	Yield lb/A (5)
TR4951	Triumph Seed Co. Inc.	*	*	*	85	53	4	7.5	0.0	13.4	57.5	4,307
5613	Golden Acres Genetics	M	BZ	P	82	49	5	0.0	7.5	14.0	58.2	4,299
GW 9417	Gayland Ward Seed Co.	ML	R	P	78	54	5	15.4	0.2	14.5	60.2	4,253
KS735	Sorghum Partners, LLC	ML	BZ	P	81	50	6	15.0	5.0	13.5	58.4	4,228
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	80	53	5	12.5	0.0	14.4	58.9	4,188
AG3101	Advanta US Inc	ME	BZ	R	80	53	8	45.4	0.2	15.0	61.5	4,126
SP6638	Sorghum Partners, LLC	M	BZ	P	82	50	6	18.8	12.5	14.7	59.5	4,039
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	78	50	6	0.5	0.0	14.1	55.9	3,962
REV® RV9794™	Terral Seed Inc.	M	R	P	84	52	5	0.0	17.5	14.7	58.1	3,683
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	85	50	3	5.0	0.0	13.5	58.3	3,418
GW 9480	Gayland Ward Seed Co.	M	R	P	86	50	3	6.3	0.0	14.3	59.4	3,417
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	83	53	5	53.8	0.0	14.3	57.6	3,352
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	84	51	4	6.1	0.0	14.7	59.4	3,351
Exp 9011	Gayland Ward Seed Co.	M	R	P	85	53	6	11.3	0.0	15.0	59.6	3,346
NK8831	Sorghum Partners, LLC	ML	BZ	P	84	45	3	33.7	0.6	14.5	58.6	3,269
Exp 9010	Gayland Ward Seed Co.	M	R	P	83	52	3	41.3	0.0	15.1	59.1	3,084
Mean					82.4	50.4	4.7	8.4	2.4	14.1	58.83	4,571
C.V.					1.68	3.16	22.65	95.29	375.19	4.92	1.48	15.14
L.S.D. .05					2.06	2.33	1.56	11.76	NS	1.02	1.28	1,013

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) Dupont Pioneer brand 84P80 was used as a fill plot five times. Fill entries were analyzed separately,but combined as one entry in the table. This hybrid was entered at our discretion and is intended to be used for comparison purposes only.

(2) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(3) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(4) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

Table 5A. 2013 Danevang Grain Sorghum Performance Test, Dean Hansen Farm, Danevang, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Midge	% Moisture	Test Weight lb/bu	Yield lb/A (5)

(5) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

2013 Grain Sorghum Performance Test

Southern Texas Plains (Hondo, (L))	Yield (lb/ac)	Average Relative Yield (%)
Pioneer 83P99	9841	100.0
REV 9924	9784	99.4
Dekalb DKC 51-01	9530	96.8
Pioneer 84P80	9477	96.3
Pioneer 84G62	9219	93.7
GA 3696	8939	90.8
REV 9782	8895	90.4
Dekalb DKC 49-45	8880	90.2
Pioneer 83G19	8789	89.3
TR 4941	8625	87.6
Integra 3670	8586	87.2
REV 9883	8582	87.2
REV 9562	8561	87.0
NK 7829	8552	86.9
Dekalb DKC 44-20	8512	86.5
NK 8416	8444	85.8
GW 9480	8404	85.4
TAMU ATx2752 x RTx430	8353	84.9
REV 9794	8281	84.1
TAMU ATx645 x RTx430	8230	83.6
TAMU ATx399 x RTx430	8220	83.5
TAMU ATx631 x RTx436	8179	83.1
REV 9973	8171	83.0
TAMU ATx645 x RTx2783	8158	82.9
REV 9823	8131	82.6
SP 7868	8130	82.6
KS 735	8085	82.2
GW 9417	8082	82.1
GA 5613	8064	81.9
Integra3650	7894	80.2
SP 6929	7802	79.3
GW 9059	7714	78.4
REV 9803	7706	78.3
Integra 3660	7503	76.2
TR 457	7243	73.6
TAMU ATx378 x RTx430	6717	68.3

Note: Relative yields are calculated by calculating the yield for each hybrid as a percentage of the best performing hybrid. (F) = full irrigation, (L) = limited Irrigation

Table 6.	AGRONOMIC AND TEST INFORMATION: HONDO
TEST:	2013 Dryland Grain Sorghum Performance Test
LOCATION:	Bryce Britsch Farm, Hondo, Texas
COOPERATOR:	Bryce Britsch
COLLABORATOR:	Jason Ott, Medina County CEA
SOIL TYPE:	Knippa clay
ROW WIDTH:	30"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Shredded stalks, field cultivated, and field cultivated prior to planting
DATE PLANTED:	3-25-13, planted flat with cones mounted on an Almaco planter using JD Max-Emerge II units.
PLANT POPULATION:	Seeds were packaged to obtain a final population of approximately 80,000 plants/A
PLOT LENGTH:	2 rows 26'
FERTILIZER:	Broadcast 200+80+10+20(S); pre-plant and incorporated
HERBICIDE:	Applied 20 oz/A of Outlook, pre-emerge
RAINFALL:	January = 1.61”; February = 0.12”; March = 0.16”; April = 1.92”; May = 3.26”; June = 4.48”; July = 0.64”; August = 0.12”; Total = 12.31” Data taken from the Hondo Airport near the test block
INSECTICIDE:	1 oz/A of Declare at bloom stage for midge 3.5 oz/A of Mustang for stink bug and head worm control
FUNGICIDE:	Applied 6 oz/A of Quilt Xcel
IRRIGATIONS:	13.75” during the growing season through a lateral irrigation system
DATE HARVESTED:	8-12-13 with JD 3300 plot combine equipped with Grain Gauge
SIZE HARVESTED PLOT:	2 rows, 26' long
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	37
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2

TEST MEAN:	8,488 lb/A; yields corrected to 14% moisture
TEST C.V.:	6.71%

COMMENTS: This test located in the Texas Winter Garden Area was moved back to Medina County in 2013 from Uvalde County where the test was conducted in 2011 and 2012. Many farmers in this area use a 36" row spacing, however our cooperator used 30" row spacing and irrigated the field using a lateral irrigation system.

Outstanding yields were obtained from this site due to a combination of timely agronomic practices and beneficial rainfall. A pre-plant fertilizer was applied which provided the essential nutrients plants would use throughout the growing season. After planting, a pre-emerge herbicide was applied for weed and grass control. Timely rainfall and irrigation in April and May provided the necessary moisture for continuous plant growth and development. Flowering notes were secured at the proper time, however due to unexplainable reasons, erratic flowering was observed between rows and replications within the test block.

Timely applications of insecticides provided excellent control of midge, stink bug, and head worms. A fungicide was applied to aid in the control of foliar leaf diseases.

The test mean yield was 8,488 lb/A. Six hybrids produced over 9,000 lb/A. Outstanding bushel weights were recorded with the mean being 61.15 lb/bu. This was a very uniform test as reflected by the test C.V. of 6.71%.

****

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 6A. 2013 Hondo Grain Sorghum Performance Test, Bryce Britsch Farm, Hondo, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Moisture	Test Weight lb/bu	Yield lb/A (5)
83P99	DuPont Pioneer	ML	BZ	R	83	55	5	12.8	62.2	9,841
REV® RV9924™	Terral Seed Inc.	L	R	P	81	60	5	12.5	60.9	9,784
DeKalb DKS51-01	Monsanto Co.	ML	BZ	P	79	61	7	13.2	61.9	9,530
84P80	DuPont Pioneer	ML	R	R	79	57	5	12.9	62.1	9,477
Fill	Texas A&M AgriLife Research	ML	R	R	79	58	6	13.1	62.4	9,295
84G62	DuPont Pioneer	ML	BZ	R	81	56	5	13.4	62.4	9,241
3696	Golden Acres Genetics	ML	BZ	P	75	56	5	13.7	60.7	8,941
REV® RV9782™	Terral Seed Inc.	ML	R	P	73	56	6	13.2	61.2	8,895
DeKalb DKS49-45	Monsanto Co.	M	BZ	P	79	61	7	13.2	61.5	8,880
83G19	DuPont Pioneer	ML	BZ	R	75	59	6	12.5	61.0	8,789
TR4941	Triumph Seed Co. Inc.	*	*	*	75	56	6	13.2	60.4	8,625
REV® RV9883™	Terral Seed Inc.	ML	R	P	78	58	7	12.4	60.6	8,605
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	75	56	6	13.2	60.7	8,586
REV® RV9562™	Terral Seed Inc.	ME	R	P	75	57	7	13.3	61.0	8,561
NK7829	Sorghum Partners, LLC	ML	BZ	P	80	58	7	13.7	61.5	8,552
DeKalb DKS44-20	Monsanto Co.	M	BZ	P	79	54	6	13.3	61.6	8,512
NK8416	Sorghum Partners, LLC	L	BZ	P	81	64	6	12.9	62.2	8,444
GW 9480	Gayland Ward Seed Co.	M	R	P	81	58	4	13.5	61.5	8,404
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	79	59	5	13.3	61.2	8,353
REV® RV9794™	Terral Seed Inc.	M	R	P	80	56	7	12.9	60.9	8,281
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	84	61	6	14.0	61.4	8,230
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	77	53	6	13.0	59.7	8,220
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	81	65	7	14.0	61.9	8,179
REV® RV9973™	Terral Seed Inc.	L	R	P	84	54	5	13.0	61.1	8,171
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	86	62	5	14.4	61.6	8,158
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	82	55	6	12.7	61.4	8,131
SP7868	Sorghum Partners, LLC	ML	BZ	P	77	58	9	12.8	62.0	8,130
KS735	Sorghum Partners, LLC	ML	BZ	P	81	57	5	12.8	60.7	8,085
GW 9417	Gayland Ward Seed Co.	ML	BZ	P	78	60	6	13.2	61.5	8,082
5613	Golden Acres Genetics	M	BZ	P	74	57	7	13.1	60.0	8,064

Table 6A. 2013 Hondo Grain Sorghum Performance Test, Bryce Britsch Farm, Hondo, Texas.

Hybrid (1)	Company or Brand Name	Maturity Class (2)	Grain Color (3)	Plant Color (4)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Moisture	Test Weight lb/bu	Yield lb/A (5)
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	74	49	6	12.5	57.8	7,894
SP6929	Sorghum Partners, LLC	ML	BZ	P	76	55	7	13.3	61.1	7,802
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	74	54	8	13.4	59.9	7,714
REV® RV9803™	Terral Seed Inc.	ML	R	P	78	56	6	12.6	60.3	7,706
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	75	51	6	13.1	61.4	7,503
TR457	Triumph Seed Co. Inc.	*	*	*	74	52	6	12.1	59.0	7,243
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	84	66	5	13.1	60.4	6,740
Mean					78.50	57.27	5.89	13.11	61.15	8,488
C.V.					2.65	3.05	15.96	4.51	1.09	6.71
L.S.D. .05					3.03	2.51	1.35	0.86	0.97	828

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

Note 3: Appreciation is expressed to Mr. Jason Ott, Medina County CEA for collecting flowering notes and monitoring the test throughout the growing season.

(1) Dupont Pioneer brand 84P80 was used as a fill plot four times. Fill entries were analyzed separately,but combined as one entry in the table. This hybrid was entered at our discretion and is intended to be used for comparison purposes only.

(2) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(3) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow. Those hybrids with an asterisk (*) indicates company did not submit grain color.

(4) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(5) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX (979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 6B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Hondo, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
83P99	DuPont Pioneer	1	9,841	--	--	13	4,541
REV® RV9924™	Terral Seed, Inc.	2	9,784	--	--	--	--
DeKalb DKS51-01	Monsanto Company	3	9,530	--	--	--	--
84P80	DuPont Pioneer	4	9,477	--	--	11	4,638
84G62	DuPont Pioneer	5	9,241	--	--	7	4,716
3696	Golden Acres Genetics	6	8,941	--	--	--	--
REV® RV9782™	Terral Seed, Inc.	7	8,895	--	--	--	--
DeKalb DKS49-45	Monsanto Company	8	8,880	--	--	2	4,941
83G19	DuPont Pioneer	9	8,789	--	--	20	4,358
TR4941	Triumph Seed Co. Inc.	10	8,625	--	--	--	--
REV® RV9883™	Terral Seed, Inc.	11	8,605	--	--	--	--
Integra 3670	Wilbur-Ellis Company	12	8,586	--	--	4	4,871
REV® RV9562™	Terral Seed, Inc.	13	8,561	--	--	--	--
NK7829	Sorghum Partners, LLC	14	8,552	--	--	--	--
DeKalb DKS44-20	Monsanto Company	15	8,512	--	--	12	4,581
NK8416	Sorghum Partners, LLC	16	8,444	--	--	--	--
GW 9480	Gayland Ward Seed Company	17	8,404	--	--	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	18	8,353	--	--	18	4,446
REV® RV9794™	Terral Seed, Inc.	19	8,281	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	20	8,230	--	--	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	21	8,220	--	--	16	4,473
ATx631 x RTx436	Texas A&M AgriLife Research	22	8,179	--	--	27	3,783
REV® RV9973™	Terral Seed, Inc.	23	8,171	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Research	24	8,158	--	--	--	--
REV® RV9823™	Terral Seed, Inc.	25	8,131	--	--	--	--
SP7868	Sorghum Partners, LLC	26	8,130	--	--	--	--
KS735	Sorghum Partners, LLC	27	8,085	--	--	--	--
GW 9417	Gayland Ward Seed Company	28	8,082	--	--	--	--
5613	Golden Acres Genetics	29	8,064	--	--	--	--
Integra 3650	Wilbur-Ellis Company	30	7,894	--	--	15	4,506

Table 6B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Hondo, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
SP6929	Sorghum Partners, LLC	31	7,802	--	--	--	--
Exp 9059	Gayland Ward Seed Company	32	7,714	--	--	--	--
REV® RV9803™	Terral Seed, Inc.	33	7,706	--	--	--	--
Integra 3660	Wilbur-Ellis Company	34	7,503	--	--	17	4,457
TR457	Triumph Seed Co. Inc.	35	7,243	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	36	6,740	--	--	14	4,524
AG 3101	Advanta-Alta	--	--	--	--	1	4,951
Terral TV96H81	Terral Seed, Inc.	--	--	--	--	3	4,895
Integra G3700	Wilbur-Ellis Company	--	--	--	--	5	4,755
Terral TV96H95	Terral Seed, Inc.	--	--	--	--	6	4,749
Fill (GA3696)	Texas A&M AgriLife Research	--	--	--	--	8	4,679
Terral TV9421	Terral Seed, Inc.	--	--	--	--	9	4,656
AG 2103	Advanta-Alta	--	--	--	--	10	4,654
DeKalb DKS53-67	Monsanto Company	--	--	--	--	19	4,434
Terral TV92S82	Terral Seed, Inc.	--	--	--	--	21	4,333
82P75	DuPont Pioneer	--	--	--	--	22	4,308
Terral TV94S91	Terral Seed, Inc.	--	--	--	--	23	4,299
DeKalb DKS54-03	Monsanto Company	--	--	--	--	24	4,230
DeKalb DKS54-00	Monsanto Company	--	--	--	--	25	4,189
Terral TV93S16	Terral Seed, Inc.	--	--	--	--	26	3,984
Number Entries		36		--		27	
Test Mean Yield (lb/A)			8,488		--		4,451

***2011 & 2012 Tests were conducted at Uvalde, TX. Due to a high C.V. the 2012 data was not published.

2013 Grain Sorghum Performance Test

East Central Texas Plains (College Station, (L))	Yield (lb/ac)	Average Relative Yield (%)
Pioneer 84P80	7642	100.0
NK 8416	7276	95.0
Dekalb DKC 51-01	7083	92.7
Pioneer 83P99	7023	91.9
GW 9059	7000	91.6
REV 9883	6919	90.5
REV 9924	6747	88.3
TAMU ATx378 x RTx430	6724	88.0
GW 9480	6651	87.0
REV 9782	6643	86.9
AG 3201	6579	86.1
TAMU ATx645 x RTx430	6555	85.8
AG 2102	6541	85.6
AG 2103	6466	84.6
GW 9011	6446	84.4
TAMU ATx2752 x RTx430	6420	84.0
Integra 3650	6388	83.6
REV 9973	6353	83.1
Pioneer 84G62	6343	83.0
REV 9823	6303	82.5
Integra 3670	6076	79.5
SP 7868	5985	78.3
Dekalb DKC 54-00	5795	75.8
GW 9417	5706	74.7
Dekalb DKC 49-45	5684	74.4
GW 9010	5655	74.0
REV 9562	5651	73.9
REV 9803	5635	73.7
XG 1213	5586	73.1
REV 9794	5521	72.3
Pioneer 83G19	5508	72.1
TAMU ATx399 x RTx430	5474	71.6
GA 5613	5418	70.9
GA 3696	5270	69.0
TAMU ATx631 x RTx436	5092	66.6
AG 3101	4887	63.9
AG 2101	4510	59.0
Integra 3660	4377	57.3
TAMU ATx645 x RTx2783	3760	49.2
NK 8831	3583	46.9

Note: Relative yields are calculated by calculating the yield for each hybrid as a percentage of the best performing hybrid. (F) = full irrigation, (L) = limited Irrigation

Table 7.	AGRONOMIC AND TEST INFORMATION: COLLEGE STATION
TEST:	2013 Limited Irrigated Grain Sorghum Performance Test
LOCATION:	Texas A&M University Farm
COOPERATORS:	W.L. Rooney, S.D. Collins, and Steve Labar
SOIL TYPE:	Ships clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Wheat
LAND PREPARATION:	Chiseled, disked, bedded, hipped, and cultivated
DATE PLANTED:	3-18-13 with cones mounted on an ALMACO planter using JD Max-Emerge II units
PLANT POPULATION:	Seeds were packaged to obtain a plant population of approximately 85,000 plants per acre
PLOT LENGTH:	2 rows 18'
FERTILIZER:	150 lb/A of 11+34+0+4 (Zn), January 2013 117 lb/A of N as 32+0+0, May 2
HERBICIDE:	Applied 3.0 pt/A of Atrazine 4L + 1.5 pt/A Brawl + 2 pt/A of Roundup on 3-19-13 Applied 3.0 pt/A Atrazine 4L + 1.5 pt/A Brawl on 5-27-13
INSECTICIDE:	Aerially applied 1.5 pt/A of Lannate for head worms
RAINFALL:	January = 3.6”; February = 0.8”; March = 1.45”; April = 3.25”; May = 3.85”; June = 0.8”; July = 1.90”; August = 0.33” Total = 15.98”
IRRIGATIONS:	None
DATE HARVESTED:	7-29&30-13 with JD 3300 plot combine equipped with Harvestmaster Grain Gauge System
SIZE HARVESTED PLOT:	2 rows, 18'
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	40
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	5,904 lb/A; yields corrected to 14% moisture
TEST C.V.:	16.29%

COMMENTS: This test site, conducted on the Texas A&M AgriLife Research Farm near College Station, is designated as a limited irrigated grain sorghum test. The protocol for this site calls for no more than two irrigations to be applied to the test throughout the growing season.

The sorghum yield trial was planted on March 18 into a good soil moisture profile. Soil temperature at the time of planting was about 60F. Timely agronomic practices were implemented during the growing season. Beneficial rains in April, May, and June resulted in continuous plant growth and development. Due to the timely rains, the test block was not irrigated. Rain in July was limited and post-flowering drought stress occurred throughout the test. A Leaf Plant Death Rating was taken prior to harvest from all replications. The rating is presented in the yield table.

The test mean yield was 5,904 lb/A compared to 6,855 lb/in 2012. Three hybrids produced between 7,023 lb/A and 7,642 lb/A. Lodging was observed in the test and rating presented in the yield table. A desirability rating was also obtained. Good bushel weights were secured with the mean being 57.8 lb/bu.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, croptest@neo.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 7A. 2013 College Station Grain Sorghum Performance Test, Texas A and M University Farm, College Station, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	Plant Lodging Rat. (4)	Des. Rating (5)	LPD Rating (6)	% Moisture	Test Weight lb/bu	Yield lb/A (7)
84P80	DuPont Pioneer	ML	R	P	83	51	3	1.75	3.00	2.00	11.9	58.8	7,642
DeKalb DKS51-01	Monsanto Co.	ML	BZ	P	82	53	5	1.00	3.25	1.75	12.0	59.3	7,083
83P99	DuPont Pioneer	ML	BZ	P	87	51	1	1.25	2.50	2.25	11.9	58.5	7,023
REV® RV9883™	Terral Seed Inc.	ML	R	P	82	53	4	1.50	2.25	2.25	11.9	57.8	6,919
NK8416	Sorghum Partners, LLC	L	BZ	P	83	54	5	2.25	5.75	3.50	12.0	59.4	6,849
REV® RV9924™	Terral Seed Inc.	L	R	P	81	53	2	1.00	2.50	2.25	12.2	58.0	6,744
ATx378 x RTx430	Texas AgriLife Research	ML	BZ	P	81	56	5	1.50	4.50	2.00	11.6	56.3	6,724
AG3201	Advanta US Inc	ML	BZ	R	80	48	3	1.25	2.75	2.00	11.8	57.5	6,575
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	80	48	6	1.50	3.25	1.50	12.4	57.0	6,573
AG2102	Advanta US Inc	M	R	R	80	49	3	1.25	3.25	2.50	11.1	55.5	6,541
AG2103	Advanta US Inc	ME	R	R	81	44	4	1.25	2.50	2.25	11.7	57.8	6,466
ATx2752 x RTx430	Texas AgriLife Research	ML	BZ	P	81	52	4	1.50	4.00	2.25	11.5	57.0	6,420
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	80	42	3	1.00	3.00	2.00	11.1	55.7	6,388
REV® RV9782™	Terral Seed Inc.	ML	R	P	80	51	3	1.50	3.25	2.50	11.9	59.0	6,361
REV® RV9973™	Terral Seed Inc.	L	R	P	86	49	2	1.00	2.00	2.00	12.0	57.9	6,354
84G62	DuPont Pioneer	ML	BZ	P	86	49	2	1.50	3.00	2.25	12.0	58.9	6,344
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	83	51	4	1.25	2.50	2.25	11.9	59.0	6,303
ATx645 x RTx437	Texas AgriLife Research	ML	R	R	82	52	3	1.50	3.50	3.50	11.6	57.9	6,273
GW 9480	Gayland Ward Seed Co.	M	R	P	84	51	2	2.50	4.75	5.25	11.6	58.4	6,223
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	80	48	4	1.25	2.75	1.75	12.0	57.4	6,076
Exp 9011	Gayland Ward Seed Co.	M	R	P	85	52	4	2.00	4.50	4.75	11.9	57.7	6,019
SP7868	Sorghum Partners, LLC	ML	BZ	P	81	50	7	1.75	3.50	3.50	11.9	58.4	5,985
DeKalb DKS54-00	Monsanto Co.	ML	BZ	P	86	52	4	1.75	3.00	2.50	11.9	57.8	5,795
DeKalb DKS49-45	Monsanto Co.	M	BZ	P	83	52	3	1.50	3.75	2.50	12.2	58.3	5,684
REV® RV9794™	Terral Seed Inc.	M	R	P	81	52	5	1.25	2.75	2.25	11.9	58.1	5,672
REV® RV9562™	Terral Seed Inc.	ME	R	P	79	48	4	2.25	3.00	2.75	11.7	59.0	5,651
83G19	DuPont Pioneer	ML	BZ	P	80	51	3	2.25	3.75	3.00	11.5	57.2	5,641
REV® RV9803™	Terral Seed Inc.	ML	R	P	81	47	2	1.00	3.00	2.25	11.7	57.9	5,635
ATx399 x RTx430	Texas AgriLife Research	ML	BZ	P	78	47	4	1.75	4.25	2.25	11.3	55.3	5,625
XG1213	Advanta US Inc	ME	BZ	R	78	44	3	1.50	3.25	3.75	11.8	57.7	5,586

Table 7A. 2013 College Station Grain Sorghum Performance Test, Texas A and M University Farm, College Station, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	Plant Lodging Rat. (4)	Des. Rating (5)	LPD Rating (6)	% Moisture	Test Weight lb/bu	Yield lb/A (7)
GW 9417	Gayland Ward Seed Co.	ML	R	P	79	52	2	2.00	4.50	4.50	11.9	58.8	5,424
Exp 9010	Gayland Ward Seed Co.	M	BZ	P	82	50	3	2.50	4.50	4.75	12.0	56.9	5,373
3696	Golden Acres Genetics	ML	BZ	P	78	49	4	1.75	3.50	2.25	12.0	57.7	5,270
ATx631 x RTx436	Texas AgriLife Research	ML	W	T	83	55	5	1.75	3.75	3.75	11.6	58.4	5,226
5613	Golden Acres Genetics	M	BZ	P	79	48	5	1.25	3.50	1.75	12.0	58.3	5,135
AG3101	Advanta US Inc	ML	R	R	79	52	5	3.00	5.25	3.00	12.0	59.0	4,605
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	79	44	4	2.00	3.50	1.75	11.8	58.4	4,377
AG2101	Advanta US Inc	M	R	R	78	45	2	1.25	3.50	1.50	11.7	57.3	4,228
ATx645 x RTx2783	Texas AgriLife Research	M	R	R	86	52	2	2.25	5.00	6.00	11.8	55.8	3,760
NK8831	Sorghum Partners, LLC	ML	BZ	P	82	43	3	2.75	4.50	5.50	11.9	55.8	3,583
Mean					81.3	49.7	3.4	1.7	3.5	2.8	11.8	57.8	5,904
C.V.					1.90	3.72	30.64	43.06	24.51	27.14	2.36	1.73	16.29
L.S.D. .05					2.20	2.66	1.50	1.02	1.23	1.09	0.44	1.58	1,516

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by the Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Plant Lodging rating key is as follows: 1 = no plants lodged, 9= all plants lodged

(5) Desirability rating key is as follows: 1= Excellent, 9 = Poor

(6) Leaf Plant Death Rating is as follows: 1 = no leaf plant death due to stress in plots, 9 = death of all plants in plot due to stress.
This rating can also be called post flowering stress.

(7) Yields corrected to 14% moisture

Table 7B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, College Station, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
84P80	DuPont Pioneer	1	7,642	9	7,094	8	8,119
DeKalb DKS51-01	Monsanto Company	2	7,083	4	7,370	--	--
83P99	DuPont Pioneer	3	7,023	2	7,605	4	8,735
REV® RV9883™	Terral Seed, Inc.	4	6,919	14	6,948	--	--
NK8416	Sorghum Partners	5	6,849	--	--	--	--
REV® RV9924™	Terral Seed, Inc.	6	6,744	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	7	6,724	25	5,583	27	6,189
AG 3201	Advanta US Inc	8	6,575	--	--	20	7,361
Exp 9059	Gayland Ward Seed Company	9	6,573	--	--	--	--
AG 2102	Advanta US Inc	10	6,541	--	--	--	--
AG 2103	Advanta US Inc	11	6,466	--	--	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	12	6,420	18	6,740	21	7,340
Integra 3650	Wilbur-Ellis Company	13	6,388	16	6,941	26	6,251
REV® RV9782™	Terral Seed, Inc.	14	6,361	20	6,500	--	--
REV® RV9973™	Terral Seed, Inc.	15	6,354	1	7,803	--	--
84G62	DuPont Pioneer	16	6,344	24	6,128	2	9,039
REV® RV9823™	Terral Seed, Inc.	17	6,303	6	7,156	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	18	6,273	--	--	--	--
GW 9480	Gayland Ward Seed Company	19	6,223	--	--	--	--
Integra 3670	Wilbur-Ellis Company	20	6,076	8	7,099	23	7,186
Exp 9011	Gayland Ward Seed Company	21	6,019	--	--	--	--
SP 7868	Sorghum Partners, LLC	22	5,985	--	--	--	--
DeKalb DKS54-00	Monsanto Company	23	5,795	12	7,056	6	8,309
DeKalb DKS49-45	Monsanto Company	24	5,684	13	6,996	7	8,302
REV® RV9794™	Terral Seed, Inc.	25	5,672	--	--	--	--
REV® RV9562™	Terral Seed, Inc.	26	5,651	7	7,131	--	--
83G19	DuPont Pioneer	27	5,641	17	6,939	17	7,742
REV® RV9803™	Terral Seed, Inc.	28	5,635	10	7,091	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	29	5,625	23	6,214	10	8,059
XG 1213	Advanta US Inc	30	5,586	--	--	--	--

Table 7B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, College Station, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
GW 9417	Gayland Ward Seed Company	31	5,424	--	--	--	--
Exp 9010	Gayland Ward Seed Company	32	5,373	--	--	--	--
GA 3696	Golden Acres Genetics	33	5,270	22	6,438	11	8,054
ATx631 x RTx436	Texas A&M AgriLife Research	34	5,226	19	6,699	12	8,044
GA 5613	Golden Acres Genetics	35	5,135	11	7,079	--	--
AG 3101	Advanta US Inc	36	4,605	--	--	13	8,017
Integra 3660	Wilbur-Ellis Company	37	4,377	26	5,532	22	7,256
AG 2101	Advanta US Inc	38	4,228	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Research	39	3,760	--	--	--	--
NK 8831	Sorghum Partners, LLC	40	3,583	--	--	--	--
REV® RV9953™	Terral Seed, Inc.	--	--	3	7,382	--	--
Integra G3700	Wilbur-Ellis Company	--	--	5	7,328	14	8,005
Integra G11172	Wilbur-Ellis Company	--	--	15	6,945	--	--
DeKalb DKS53-67	Monsanto Company	--	--	21	6,443	3	8,805
Number Entries		40		26		27	
Test Mean Yield (lb/A)			5,904		6,855		7,701

2013 Grain Sorghum Performance Test

Texas Blackland Prairies	Farmersville Yield (lb/ac)	Thrall Yield (lb/ac)	Average Relative Yield (%)
Dekalb DKC 51-01	7191	6262	100.0
REV 9924	7059	5744	95.0
Pioneer 84G62	7110	5488	93.3
Pioneer 84P80	6745	5735	92.7
Dekalb DKC 53-67	6782	5621	92.0
TR 4941	6649	5542	90.5
Integra 3670	7132	4955	89.2
REV 9782	6661	5217	88.0
REV 9794	6543	5179	86.8
Integra 3660	6410	5265	86.6
Dekalb DKC 38-88	6125	5444	86.1
REV 9803	6389	5155	85.6
REV 9883	6535	4952	85.0
Pioneer 85G01	5992	5221	83.4
REV 9823	5962	5205	83.0
REV 9562	6428	4789	82.9
Integra 3650	6149	4835	81.4
TR 457	5904	5021	81.2
NK 5418	5904	4770	79.1
REV 9973	6200	4207	76.7
TAMU ATx2752 x RTx430	5780	4479	76.0
TR 4951	5762	4455	75.6
KS 585	5951	4240	75.2
GW 9059	5026	4857	73.7
TAMU ATx399 x RTx430	5823	4096	73.2
TR 24871	5162	3912	67.1
TAMU ATx645 x RTx430	4584	3797	62.2
TAMU ATx631 x RTx436	5326	3073	61.6
TAMU ATx645 x RTx2783	4727	3432	59.5
TAMU ATx378 x RTx430	4375	3065	54.9

Note: Relative yields are calculated for each site by calculating the yield for each hybrid as a percentage of the best performing hybrid then averaged across all sites within each production region. Hybrids must be entered at more than one location to be be included. (F) = full irrigation, (L) = limited Irrigation

Table 8.	AGRONOMIC AND TEST INFORMATION: THRALL
TEST:	2013 Rain-fed Grain Sorghum Performance Test
LOCATION:	Stiles Farm Foundation, Thrall, Texas
COOPERATOR:	Archie Abrameit
SOIL TYPE:	Burleson clay
ROW WIDTH:	38"
PREVIOUS CROP:	Corn
LAND PREPARATION:	The test block was strip-tilled on 12-4-12
DATE PLANTED:	3-14-13: planted flat with cones mounted on an ALMACO planter using JD Max-Emerge II units
PLOT LENGTH:	26'
FERTILIZER:	130+12+24, pre-plant
HERBICIDE:	Broadcast tank mix of 26 oz/A Roundup PowerMAX as a burn-down prior to planting Applied 1.3 pt/A of Parallel + .75 lb/A Atrazine, pre-emerge
INSECTICIDE:	None, seeds were required to be treated with a seed insecticide
RAINFALL	January = 4.15"; February = 0.38"; March = 2.58"; April = 2.15", May = 3.07"; June = 0.0"; July = 3.72"; August = 1.03" Total = 17.08"
DATE HARVESTED:	8-8-13 with a JD3300 plot combine equipped with Grain Gauge.
SIZE HARVESTED PLOT:	2 rows, 26' long
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	44
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP:	Seeds were packaged to obtain a final plant population of 75,000 plants/A
TEST MEAN:	4,823 lb/A; yields corrected to 14% moisture
TEST C.V.:	10.99%

COMMENTS: Excellent yields were attained at this site despite erratic soil moisture conditions. The season started with a full profile of moisture from early season rainfall. A total of 18.35" of rainfall was recorded between January and March. Due to wet soil conditions, planting was delayed until March 26 which is approximately 3 weeks later than the optimum planting date.

Excellent plant growth and development resulted from available soil moisture and nutrients. The test block received no beneficial rains after planting until mid-May. Due to the excellent growing conditions, the number of days to achieve 50% flowering ranged between 61 and 68 days. The test block received no beneficial rainfall in June during the grain-fill stage, however, good yields were still attained.

The test mean yield was 4,790 lb/A with 14 hybrids producing between 5,006 lb/A and 5,643 lb/A. Due to severe drought conditions in 2011 no results were published.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas AgriLife Research, College Station, TX
(979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 8A. 2013 Thrall Grain Sorghum Performance Test, Stiles Farm Foundation, Thrall, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Stand	% Midge	% Moisture	Test Weight lb/bu	Yield lb/A (4)
DeKalb DKS51-01	Monsanto Co.	ML	BZ	P	87	59	7	1.3	100.0	0.0	13.2	59.3	6,262
REV® RV9924™	Terral Seed Inc.	L	R	P	88	57	3	1.3	100.0	0.0	12.5	56.9	5,744
84P80	DuPont Pioneer	ML	R	P	88	56	4	1.3	100.0	0.0	12.1	58.9	5,735
DeKalb DKS53-67	Monsanto Co.	ML	BZ	P	88	54	5	0.8	100.0	0.0	11.6	59.6	5,621
TRX85131	Triumph Seed Co. Inc.	*	*	*	85	53	6	0.5	100.0	0.0	12.1	56.5	5,591
TR4941	Triumph Seed Co. Inc.	*	*	*	83	54	6	5.3	100.0	0.0	11.2	56.7	5,542
3545	Golden Acres Genetics	M	BZ	P	85	54	5	3.0	100.0	0.0	12.2	57.8	5,494
DeKalb DKS44-20	Monsanto Co.	M	BZ	P	86	55	6	0.0	100.0	0.0	12.8	58.8	5,493
84G62	DuPont Pioneer	ML	BZ	P	88	54	4	0.8	100.0	0.0	11.3	58.0	5,488
DeKalb DKS38-88	Monsanto Co.	ME	BZ	P	84	57	7	1.3	100.0	0.0	12.7	58.3	5,445
AG2101	Advanta US Inc	M	R	R	85	52	4	0.0	100.0	0.0	11.2	55.1	5,267
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	84	51	6	1.3	100.0	0.0	11.5	57.8	5,265
85G01	DuPont Pioneer	M	R	R	85	54	4	0.5	100.0	0.0	13.6	57.8	5,221
REV® RV9782™	Terral Seed Inc.	ML	R	P	85	53	4	0.8	100.0	0.0	11.4	57.5	5,217
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	88	54	5	0.0	100.0	0.0	13.6	58.3	5,205
REV® RV9794™	Terral Seed Inc.	M	R	P	87	57	6	0.0	100.0	0.0	10.8	56.7	5,179
REV® RV9803™	Terral Seed Inc.	ML	R	P	87	53	5	0.0	100.0	0.0	12.4	57.3	5,155
5556	Golden Acres Genetics	ME	R	P	84	51	6	0.5	100.0	0.0	10.8	57.2	5,132
5613	Golden Acres Genetics	M	BZ	P	83	56	7	0.8	100.0	0.0	11.5	56.3	5,113
TR457	Triumph Seed Co. Inc.	*	*	*	85	50	5	3.3	100.0	0.0	11.7	55.7	5,021
AG2102	Advanta US Inc	M	R	R	84	48	5	0.8	100.0	0.0	10.8	53.5	4,996
XG1213	Advanta US Inc	ME	BZ	R	84	50	6	0.5	100.0	0.0	11.5	56.9	4,976
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	84	55	6	3.3	100.0	0.0	12.6	55.5	4,955
REV® RV9883™	Terral Seed Inc.	ML	R	P	88	55	5	1.3	100.0	0.0	10.9	56.4	4,952
AG2103	Advanta US Inc	ME	R	R	84	54	6	0.5	100.0	0.0	11.4	57.9	4,896
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	85	53	7	0.0	100.0	0.0	12.8	55.1	4,857
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	85	48	5	0.5	100.0	0.0	11.9	53.6	4,835
REV® RV9562™	Terral Seed Inc.	ME	R	P	86	54	5	3.8	100.0	0.0	13.0	57.8	4,789
KS735	Sorghum Partners, LLC	ML	BZ	P	84	54	5	7.5	100.0	0.0	11.1	55.8	4,777
NK5418	Sorghum Partners, LLC	M	BZ	P	81	47	5	0.0	100.0	1.3	11.3	55.2	4,771

Table 8A. 2013 Thrall Grain Sorghum Performance Test, Stiles Farm Foundation, Thrall, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Stand	% Midge	% Moisture	Test Weight lb/bu	Yield lb/A (4)
SP6929	Sorghum Partners, LLC	ML	BZ	P	85	54	7	2.5	96.3	0.0	13.0	59.0	4,729
ATx2752 x RTx430	Texas AgriLife Research	ML	BZ	P	86	55	5	16.8	100.0	0.0	13.0	56.1	4,479
TR4951	Triumph Seed Co. Inc.	*	*	*	89	56	5	2.3	100.0	0.0	9.6	53.1	4,455
AG3101	Advanta US Inc	ML	R	R	85	59	7	15.8	100.0	0.0	12.1	58.4	4,346
KS585	Sorghum Partners, LLC	M	BZ	P	78	51	7	0.0	100.0	0.0	12.9	56.7	4,240
REV® RV9973™	Terral Seed Inc.	L	R	P	91	53	4	0.0	100.0	2.5	12.5	57.8	4,208
Exp 9061	Gayland Ward Seed Co.	M	BZ	P	85	54	5	0.0	100.0	0.2	12.2	55.5	4,116
ATx399 x RTx430	Texas AgriLife Research	ML	BZ	P	85	52	5	17.5	100.0	0.0	11.8	53.2	4,096
GW 9417	Gayland Ward Seed Co.	ML	R	P	84	60	5	20.0	100.0	0.0	12.1	57.7	4,012
TR24871	Triumph Seed Co. Inc.	*	*	*	89	50	4	0.0	97.5	0.0	9.9	56.3	3,912
ATx645 x RTx437	Texas AgriLife Research	M	R	R	88	54	5	13.3	72.5	0.0	12.9	56.1	3,797
GW 9480	Gayland Ward Seed Co.	M	R	P	88	56	4	13.8	95.0	0.0	11.7	57.6	3,623
ATx645 x RTx2783	Texas AgriLife Research	M	R	R	89	56	4	13.8	75.0	5.0	12.2	57.6	3,432
ATx631 x RTx436	Texas AgriLife Research	ML	W	T	92	56	3	2.8	100.0	16.3	11.5	55.8	3,073
ATx378 x RTx430	Texas AgriLife Research	ML	BZ	P	86	60	5	36.3	87.5	2.0	12.2	54.8	3,064
Mean					85.7	53.8	5.1	4.3	98.3	0.6	11.9	56.75	4,813
C.V.					1.28	3.34	16.53	146.55	3.32	629.1	9.29	1.64	10.70
L.S.D. .05					1.57	2.57	1.21	9.07	4.66	5.4	1.59	1.33	737

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Yields corrected to 14% moisture

Table 8B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Thrall, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
DeKalb DKS51-01	Monsanto Company	1	6,262	--	--	--	--
REV® RV9924™	Terral Seed, Inc.	2	5,744	--	--	--	--
84P80	DuPont Pioneer	3	5,735	3	5,357	--	--
DeKalb DKS53-67	Monsanto Company	4	5,621	8	5,219	--	--
TRX85131	Triumph Seed Co.	5	5,591	9	5,194	--	--
TR4941	Triumph Seed Co.	6	5,542	--	--	--	--
3545	Golden Acres Genetics	7	5,494	--	--	--	--
DeKalb DKS44-20	Monsanto Company	8	5,493	6	5,301	--	--
84G62	DuPont Pioneer	9	5,488	21	4,712	--	--
DeKalb DKS38-88	Monsanto Company	10	5,445	--	--	--	--
AG2101	Advanta US Inc	11	5,267	--	--	--	--
Integra 3660	Wilbur-Ellis Company	12	5,265	5	5,345	--	--
85G01	DuPont Pioneer	13	5,221	23	4,610	--	--
REV® RV9782™	Terral Seed, Inc.	14	5,217	18	4,783	--	--
REV® RV9823™	Terral Seed, Inc.	15	5,205	19	4,750	--	--
REV® RV9794™	Terral Seed, Inc.	16	5,179	--	--	--	--
REV® RV9803™	Terral Seed, Inc.	17	5,155	11	5,092	--	--
GA 5556	Golden Acres Genetics	18	5,132	10	5,185	--	--
GA 5613	Golden Acres Genetics	19	5,113	14	5,006	--	--
TR457	Triumph Seed Co.	20	5,021	--	--	--	--
AG2102	Advanta US Inc	21	4,996	--	--	--	--
XG1213	Advanta US Inc	22	4,976	--	--	--	--
Integra 3670	Wilbur-Ellis Company	23	4,955	12	5,062	--	--
REV® RV9883™	Terral Seed, Inc.	24	4,952	24	4,444	--	--
AG2103	Advanta US Inc	25	4,896	--	--	--	--
Exp 9059	Gayland Ward Seed Company	26	4,857	--	--	--	--
Integra 3650	Wilbur-Ellis Company	27	4,835	13	5,052	--	--
REV® RV9562™	Terral Seed, Inc.	28	4,789	17	4,788	--	--
KS735	Sorghum Partners, LLC	29	4,777	--	--	--	--
NK5418	Sorghum Partners, LLC	30	4,771	--	--	--	--

Table 8B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Thrall, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
SP6929	Sorghum Partners, LLC	31	4,729	--	--	--	--
Exp 9061	Gayland Ward Seed Company	32	4,561	--	--	--	--
ATx2752 x RTx430	Texas A&M AgriLife Reseach	33	4,479	26	4,068	--	--
TR4951	Triumph Seed Co.	34	4,455	--	--	--	--
AG3101	Advanta US Inc	35	4,346	--	--	--	--
KS585	Sorghum Partners, LLC	36	4,240	--	--	--	--
REV® RV9973™	Terral Seed, Inc.	37	4,208	4	5,356	--	--
ATx399 x RTx430	Texas A&M AgriLife Reseach	38	4,096	20	4,748	--	--
GW 9417	Gayland Ward Seed Company	39	4,012	--	--	--	--
TR24871	Triumph Seed Co.	40	3,912	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Reseach	41	3,797	--	--	--	--
GW 9480	Gayland Ward Seed Company	42	3,623	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Reseach	43	3,432	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Reseach	44	3,073	29	2,672	--	--
REV® RV9953™	Terral Seed, Inc.	--	--	1	5,643	--	--
TRX14682	Triumph Seed Co.	--	--	2	5,370	--	--
DeKalb DKS36-06	Monsanto Company	--	--	7	5,281	--	--
TRX95005	Triumph Seed Co.	--	--	15	4,993	--	--
Fill (GA3696)	Texas A&M AgriLife Reseach	--	--	16	4,810	--	--
Integra G3700	Wilbur-Ellis Company	--	--	22	4,698	--	--
ATx378 x RTx430	Texas A&M AgriLife Reseach	--	--	25	4,327	--	--
TRX05361	Triumph Seed Co.	--	--	27	3,782	--	--
Integra G11172	Wilbur-Ellis Company	--	--	28	3,239	--	--
Number of Entries		44		29		--	
Test Mean Yield (lb/A)			4,823		4,790		--

**2011 Not Published

Table 9.	AGRONOMIC AND TEST INFORMATION: FARMERSVILLE
TEST:	2013 Rain-fed Grain Sorghum Performance Test
LOCATION:	Kenneth Wright Farm, Farmersville, Texas
COLLABORATOR:	Russell Sutton
SOIL TYPE:	Houston black clay
ROW WIDTH:	30"
PREVIOUS CROP:	Wheat
LAND PREPARATION:	Sprayed Roundup + Valor as a burn-down
DATE PLANTED:	3-19-13: Planted flat with a belt cone planter mounted on JD Max-Emerge 2 Units.
PLOT LENGTH:	25.5'
FERTILIZER:	Applied at planting 6.5 gal/A of 10+34+0 (7.5 lb/A N + 25 lb/A P) + 1.0 qt/A Zn in-furrow Side-dressed 42 gal/A of 32+0+0 at lay-by (150 lb/A N)
HERBICIDE:	Applied 1.0 qt/A of Atrazine at planting Applied 1 pt/A of Clarity at layby
INSECTICIDE:	None, seeds were required to be treated with a seed insecticide
RAINFALL:	Rainfall was not recorded at the test block; however, according to Mr. Sutton, the test block received timely and beneficial rains until late-June, then turned dry.
DATE HARVESTED:	8-22-13 with a JD 3300 plot combine equipped with Grain Gauge
SIZE HARVESTED PLOT:	2 rows, 25.5' long
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	34
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
PLANT POPULATION:	Seeds were packaged to obtain a final plant population of approximately 65,000 plants per acre
TEST MEAN:	6,106 lb/A; yields corrected to 14% moisture
TEST C.V.:	6.96%

COMMENTS: Excellent yields were attained at this northern Blacklands test site. The season started with a full profile of moisture from fall and winter rains. The optimum planting date was delayed approximately two weeks due to wet soil conditions. Seedling emergence was rapid and early plant growth resulted from a good fertilization program and additional rainfall. Weeds and grasses were controlled with a post-plant application of Atrazine + Clarity.

Good moisture conditions during the early part of the growing season and timely rainfall resulted in good yields at this site. Potential yields were probably reduced due to lack of beneficial rains and hot temperatures after flowering.

The test mean yield was 6,109 lb/A compared to 6,413 lb/A in 2012. Four hybrids produced over 7,000 lb/A. Outstanding test weights were obtained with the range being from 57.5 lb/bu to 62.4 lb/bu. Lodging was observed in the test, but the incidence was very low. This was a uniform test as reflected by the C.V. of 6.96%.

Appreciation is expressed to Mr. Russell Sutton for providing agronomic practices, monitoring the test, and securing notes throughout the growing season.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas AgriLife Research, College Station, TX
(979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 9A. 2013 Farmersville Grain Sorghum Performance Test, Kenneth Wright Farm, Farmersville, Texas

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Stand	% Moisture	Test Weight lb/bu	Yield lb/A (4)
DeKalb DKS51-01	Monsanto Co.	ML	BZ	P	76	57	4	0.0	100.0	10.5	62.0	7,191
Integra 3670	Wilbur-Ellis Company/Integra	ML	BZ	P	72	55	4	0.0	100.0	12.0	61.0	7,132
84G62	DuPont Pioneer	ML	BZ	P	74	53	2	0.0	100.0	11.6	61.6	7,110
REV® RV9924™	Terral Seed Inc.	L	R	P	75	56	3	0.0	100.0	11.4	60.6	7,059
DeKalb DKS53-67	Monsanto Co.	ML	BZ	P	74	52	2	0.0	100.0	13.4	62.4	6,782
5556	Golden Acres Genetics	ME	R	P	72	50	4	0.0	100.0	11.7	61.2	6,747
84P80	DuPont Pioneer	ML	R	P	74	55	2	0.0	92.5	12.1	61.7	6,745
REV® RV9782™	Terral Seed Inc.	ML	R	P	72	52	3	0.0	92.5	11.9	61.4	6,661
TR4941	Triumph Seed Co. Inc.	*	*	*	73	54	3	2.3	100.0	12.1	60.8	6,649
REV® RV9794™	Terral Seed Inc.	M	R	P	77	55	4	0.0	92.5	12.4	61.3	6,543
REV® RV9883™	Terral Seed Inc.	ML	R	P	75	56	3	0.0	90.0	12.9	60.6	6,535
REV® RV9562™	Terral Seed Inc.	ME	R	P	73	53	3	0.0	100.0	11.9	61.5	6,428
Integra 3660	Wilbur-Ellis Company/Integra	M	R	P	72	50	4	0.0	87.5	11.7	61.3	6,410
REV® RV9803™	Terral Seed Inc.	ML	R	P	74	52	2	0.0	91.3	12.1	61.1	6,389
5613	Golden Acres Genetics	M	BZ	P	72	54	4	0.0	91.3	12.1	59.9	6,291
REV® RV9973™	Terral Seed Inc.	L	R	P	79	51	1	0.0	92.5	12.7	61.5	6,200
Integra 3650	Wilbur-Ellis Company/Integra	M	R	P	73	48	3	0.0	100.0	12.0	57.5	6,149
TR85131	Triumph Seed Co. Inc.	*	*	*	76	51	3	0.0	100.0	13.5	60.6	6,144
DeKalb DKS38-88	Monsanto Co.	ME	BZ	P	72	57	5	0.0	96.3	12.1	61.4	6,125
NK7633	Sorghum Partners, LLC	ML	BZ	P	73	52	5	0.0	97.5	14.2	61.6	6,099
85G01	DuPont Pioneer	M	R	P	72	54	3	0.0	100.0	11.3	61.1	5,992
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	76	54	4	0.0	95.0	13.3	61.9	5,962
KS585	Sorghum Partners, LLC	M	BZ	P	69	50	5	0.0	100.0	13.0	61.9	5,951
TR457	Triumph Seed Co. Inc.	*	*	*	75	47	2	0.0	88.8	12.4	60.7	5,904
NK5418	Sorghum Partners, LLC	M	BZ	P	70	45	3	0.0	97.5	12.4	60.2	5,904
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	75	51	3	2.5	85.0	12.1	58.7	5,823
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	76	52	2	6.3	85.0	12.5	60.1	5,780
TR4951	Triumph Seed Co. Inc.	*	*	*	81	57	4	0.5	80.0	11.7	60.0	5,762
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	71	54	2	2.5	82.5	13.4	61.5	5,326
TR24871	Triumph Seed Co. Inc.	*	*	*	77	48	2	0.0	76.3	13.1	60.7	5,162

Table 9A. 2013 Farmersville Grain Sorghum Performance Test, Kenneth Wright Farm, Farmersville, Texas

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	% Stand	% Moisture	Test Weight lb/bu	Yield lb/A (4)
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	72	52	5	0.0	100.0	14.4	59.5	5,026
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	78	53	1	26.3	65.0	14.4	61.0	4,769
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	76	50	2	2.5	65.0	12.7	60.3	4,584
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	75	53	2	13.8	63.8	13.4	60.0	4,375
Mean					74.1	52.4	2.9	1.7	91.4	12.5	60.85	6,109
C.V.					3.68	2.82	23.88	299.54	7.01	8.39	0.63	6.96
L.S.D. .05					3.92	2.13	1.00	7.16	9.22	1.51	0.55	615

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

Note 3: Appreciation is expressed to Mr. Russell Sutton, Assistant Research Scientist, Texas A&M AgriLife Research, Commerce, Texas for providing assistance in planting, mointoring, and collecting notes throughout the growing season.

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 9B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Farmersville, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
DeKalb DKS51-01	Monsanto Company	1	7,191	1	7,120	--	--
Integra 3670	Wilbur-Ellis Company	2	7,132	4	6,990	--	--
84G62	DuPont Pioneer	3	7,110	10	6,586	2	5,540
REV® RV9924™	Terral Seed, Inc.	4	7,059	--	--	--	--
DeKalb DKS53-67	Monsanto Company	5	6,782	6	6,732	1	5,578
5556	Golden Acres Genetics	6	6,747	25	5,911	--	--
84P80	DuPont Pioneer	7	6,745	2	7,004	7	5,060
REV® RV9782™	Terral Seed, Inc.	8	6,661	19	6,196	--	--
TR4941	Triumph Seed Co., Inc.	9	6,649	--	--	--	--
REV® RV9794™	Terral Seed, Inc.	10	6,543	--	--	--	--
REV® RV9883™	Terral Seed, Inc.	11	6,535	5	6,896	--	--
REV® RV9562™	Terral Seed, Inc.	12	6,428	16	6,423	--	--
Integra 3660	Wilbur-Ellis Company	13	6,410	12	6,572	--	--
REV® RV9803™	Terral Seed, Inc.	14	6,389	7	6,660	--	--
5613	Golden Acres Genetics	15	6,291	15	6,435	--	--
REV® RV9973™	Terral Seed, Inc.	16	6,200	9	6,605	--	--
Integra 3650	Wilbur-Ellis Company	17	6,149	26	5,902	--	--
TRX85131	Triumph Seed Co., Inc.	18	6,144	--	--	--	--
DeKalb DKS38-88	Monsanto Company	19	6,125	--	--	--	--
NK7633	Sorghum Partners, LLC	20	6,099	--	--	--	--
85G01	DuPont Pioneer	21	5,992	22	6,118	4	5,424
REV® RV9823™	Terral Seed, Inc.	22	5,962	20	6,192	--	--
KS585	Sorghum Partners, LLC	23	5,951	--	--	--	--
TR457	Triumph Seed Co., Inc.	24	5,904	--	--	--	--
NK5418	Sorghum Partners, LLC	25	5,904	--	--	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	26	5,823	27	5,852	14	4,501
ATx2752 x RTx430	Texas A&M AgriLife Research	27	5,780	23	6,018	20	4,230
TR4951	Triumph Seed Co., Inc.	28	5,762	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Research	29	5,326	14	6,452	21	4,215
TR24871	Triumph Seed Co., Inc.	30	5,162	--	--	--	--

Table 9B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Farmersville, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
Exp 9059	Gayland Ward Seed Company	31	5,026	--	--	--	--
ATx645 x RTx2783	Texas A&M AgriLife Research	32	4,769	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	33	4,584	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	34	4,375	24	5,929	18	4,363
Integra G11172	Wilbur-Ellis Company	--	--	3	7,002	--	--
REV®RV9953™	Terral Seed, Inc.	--	--	8	6,654	--	--
DeKalb DKS36-06	Monsanto Company	--	--	11	6,573	10	4,756
DeKalb DKS49-45	Monsanto Company	--	--	13	6,525	15	4,462
DeKalb DKS44-20	Monsanto Company	--	--	17	6,290	9	4,766
Integra G3700	Wilbur-Ellis Company	--	--	18	6,266	--	--
Fill	Texas A&M AgriLife Research	--	--	21	6,120	--	--
Number of Entries		34		27		22	
Test Mean Yield (lb/A)			6,109		6,413		4,813

2013 Grain Sorghum Performance Test

High Plains	Perryton (L) Yield (lb/ac)	Hereford (L) Yield (lb/ac)	Lubbock (L) Yield (lb/ac)	Average Relative Yield (%)
REV 9924	10563	9070	6796	100.0
Pioneer 84P80	.	9018	6429	97.0
Pioneer 84G62	.	8326	6759	95.6
REV 9794	10388	8386	6366	94.9
REV 9803	10318	7926	6442	93.3
Dekalb DKC 53-67	.	9072	5873	93.2
Pioneer 85Y40	10268	8201	6186	92.9
Dekalb DKC 49-45	.	8835	6005	92.9
REV 9973	9903	7650	6585	91.7
BH 5566	10032	7967	.	91.4
REV 9823	10198	7416	6231	90.0
REV 9782	10016	7636	6048	89.3
BH 5224	9553	7918	.	88.9
TAMU ATx2752 x RTx430	9872	7736	5886	88.5
REV 9562	9726	7939	5741	88.0
REV 9883	9878	7849	5495	87.0
GA 5613	9402	7630	.	86.6
TAMU ATx399 x RTx430	8957	7319	5524	82.3
GW 9480	8907	6655	.	78.8
GA 5556	8505	6634	.	76.8
KS 585	8839	6321	.	76.7
TAMU ATx631 x RTx436	7994	7137	5062	76.3
GA H390W	7794	6725	.	74.0
GW 9059	8362	7626	3774	72.9
TAMU ATx645 x RTx430	6544	6793	5308	71.6
TAMU ATx378 x RTx430	5337	7152	5223	68.7
TAMU ATx645 x RTx2783	4998	6893	5173	66.5
SP 3425	7494	5488	.	65.7

Note: Relative yields are calculated for each site by calculating the yield for each hybrid as a percentage of the best performing hybrid then averaged across all sites within each production region. Hybrids must be entered at more than one location to be be included. (F) = full irrigation, (L) = limited Irrigation

Table 10.	AGRONOMIC AND TEST INFORMATION: LUBBOCK
TEST:	2013 Limited Irrigation Grain Sorghum Performance Test
LOCATION:	Texas A&M AgriLife Research Center, Lubbock, Texas
COOPERATORS:	Dr. Gary Peterson and Mr. Mark Stelter
SOIL TYPE:	Amarillo loam
ROW WIDTH:	40”
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Chiseled, disked, bedded
DATE PLANTED:	May 20, 2013
PLANT POPULATION:	Seeds were packaged to obtain a final plant population of 85,000 plants per acre
PLOT LENGTH:	2 rows 17'
FERTILIZER:	80-0-0 (liquid N) applied April 18, 2013
HERBICIDE:	Applied 1.0 qt/A of MiloPro pre-plant. Dual applied 1pt/A over-the-top four weeks after planting.
INSECTICIDE:	None
RAINFALL:	May- .75, June-1.93, July-3.41, August-2.12, Total-8.21
IRRIGATIONS:	One pre-watering. One in season irrigation made on June 26, with approximately 4.50 acre inches per irrigation.
DATE HARVESTED:	October 2, 2013
SIZE HARVESTED PLOT:	17 foot of row
TEST DESIGN:	Randomized complete block
NUMBER ENTRIES:	27
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	5,701 lb/A
TEST C.V.:	9.85%

COMMENTS: This excellent test was subjected to near normal temperature and growing season precipitation. The test area was pre-irrigated and planted on May 20 into an excellent seed bed. The field received one pre-plant and one post-plant irrigation (about 30 days after planting). Normal irrigation protocol is for a second post-plant irrigation approximately 60 days after planting but due to July rainfall of 3.41" the second irrigation was not applied. Excellent yields (test mean of 5,701 lbs/A, CV of 9.85) were obtained. Thirteen hybrids produced in excess of 6,000 lbs/A.

The test received excellent agronomic care. There was no weed, disease or insect pressure in the test. After flowering flash tape was deployed in the test area. Bird damage was observed on only three entries, all early maturing.

All plots (17' gross length) were harvested on October 2 with a John Deere 3300 plot combine. Grain yield were adjusted to 14% moisture.

Table 10A. 2013 Lubbock Grain Sorghum Performance Test, Texas A and M AgriLife Research Center, Lubbock, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Bird Damage	% Moisture	Test Weight lb/bu	Yield lb/A (4)
REV® RV9924™	Terral Seed Inc.	L	R	P	63	46	2	0.0	11.5	58.9	6,796
84G62	DuPont Pioneer	ML	BZ	P	63	39	2	0.0	12.6	60.3	6,759
REV® RV9973™	Terral Seed Inc.	L	R	P	70	44	2	0.0	10.9	60.5	6,585
REV® RV9803™	Terral Seed Inc.	ML	R	P	60	42	4	0.0	11.6	60.0	6,442
84P80	DuPont Pioneer	ML	R	P	61	41	3	0.0	12.2	61.4	6,429
REV® RV9794™	Terral Seed Inc.	M	R	P	71	45	1	0.0	11.1	59.3	6,419
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	62	43	4	0.0	12.1	60.5	6,231
85Y40	DuPont Pioneer	M	WH	P	60	40	2	0.0	11.7	61.4	6,186
TRX24871	Triumph Seed Co. Inc	*	*	*	63	44	6	0.0	11.5	58.6	6,177
TRX85131	Triumph Seed Co. Inc	*	*	*	62	43	4	0.0	12.6	59.6	6,130
GW 9417	Gayland Ward Seed	ML	R	P	63	45	2	0.0	12.2	60.6	6,113
REV® RV9782™	Terral Seed Inc.	ML	R	P	58	38	3	0.0	11.6	59.8	6,048
DEKALB Brand DKS49-45	Monsanto Company	ML	BZ	P	60	45	5	0.0	12.3	60.6	6,006
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	62	43	3	0.0	12.1	58.2	5,886
DEKALB Brand DKS53-67	Monsanto Company	ML	BZ	P	62	42	3	0.0	12.0	60.6	5,873
TR4941	Triumph Seed Co. Inc	*	*	*	60	40	2	0.0	11.9	61.2	5,821
REV® RV9562™	Terral Seed Inc.	ME	R	P	60	41	5	0.0	11.5	61.0	5,741
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	60	40	4	0.0	12.1	58.6	5,525
REV® RV9883™	Terral Seed Inc.	ML	R	P	62	43	4	0.0	10.7	58.4	5,495
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	58	43	2	0.0	12.3	60.2	5,308
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	63	45	3	0.0	11.8	59.4	5,223
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	62	50	4	0.0	12.4	61.1	5,173
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	63	47	5	0.0	11.5	59.8	5,062
TR457	Triumph Seed Co. Inc	*	*	*	58	37	4	0.0	12.3	60.0	4,743
TR438	Triumph Seed Co. Inc	*	*	*	58	38	4	2.5	12.1	58.3	4,661
Exp. 9059	Gayland Ward Seed	ME	BZ	P	58	42	7	5.0	11.0	59.7	3,774
TR424	Triumph Seed Co. Inc	*	*	*	49	31	1	13.8	12.4	59.1	3,339
Mean					61.1	42.1	3.3	0.8	11.9	59.91	5,701
C.V.					2.27	4.40	39.70	169.83	8.37	1.95	9.85
L.S.D. .05					2.02	2.69	1.88	1.94	NS	1.75	822

Table 10A. 2013 Lubbock Grain Sorghum Performance Test, Texas A and M AgriLife Research Center, Lubbock, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Bird Damage	% Moisture	Test Weight lb/bu	Yield lb/A (4)

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 10B. Three Year Summary (2011-2013) Limited Irrigated Grain Sorghum Performance Test, Lubbock, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
REV® RV9924™	Terral Seed Inc.	1	6,796	--	--	--	--
84G62	DuPont Pioneer	2	6,759	8	4,927	3	5,824
REV® RV9973™	Terral Seed Inc.	3	6,585	3	5,450	--	--
REV® RV9803™	Terral Seed Inc.	4	6,442	5	5,255	--	--
84P80	DuPont Pioneer	5	6,429	17	3,924	1	6,657
REV® RV9794™	Terral Seed Inc.	6	6,419	--	--	--	--
REV® RV9823™	Terral Seed Inc.	7	6,231	13	4,332	--	--
85Y40	DuPont Pioneer	8	6,186	7	4,955	2	5,936
TRX24871	Triumph Seed Co., Inc.	9	6,177	--	--	--	--
TRX85131	Triumph Seed Co., Inc.	10	6,130	--	--	11	5,078
GW 9417	Gayland Ward Seed	11	6,113	--	--	--	--
REV® RV9782™	Terral Seed Inc.	12	6,048	14	4,245	--	--
DeKalb DKS49-45	Monsanto Company	13	6,006	2	5,765	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	14	5,886	16	4,063	9	5,231
DeKalb DKS53-67	Monsanto Company	15	5,873	6	4,964	6	5,404
TR4941	Triumph Seed Co., Inc.	16	5,821	--	--	--	--
REV® RV9562™	Terral Seed Inc.	17	5,741	15	4,130	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	18	5,525	20	3,669	15	4,591
REV® RV9883™	Terral Seed Inc.	19	5,495	10	4,635	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	20	5,308	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	21	5,223	9	4,722	13	4,769
ATx645 x RTx2783	Texas A&M AgriLife Research	22	5,173	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Research	23	5,062	18	3,873	12	4,873
TR457	Triumph Seed Co., Inc.	24	4,743	--	--	--	--
TR438	Triumph Seed Co., Inc.	25	4,661	--	--	--	--
Exp. 9059	Gayland Ward Seed	26	3,774	--	--	--	--
TR424	Triumph Seed Co., Inc.	27	3,339	--	--	--	--
Check 1	Texas A&M AgriLife Research	--	--	1	6,077	--	--
Check 2	Texas A&M AgriLife Research	--	--	4	5,366	--	--
REV® RV9953™	Terral Seed Inc.	--	--	11	4,573	--	--

Table 10B. Three Year Summary (2011-2013) Limited Irrigated Grain Sorghum Performance Test, Lubbock, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
Check 3	Texas A&M AgriLife Research	--	--	12	4,423	--	--
DeKalb DKS51-01	Monsanto Company	--	--	19	3,828	--	--
Number of Entries		27		20		20	
Test Mean Yield (lb/A)			5,701		4,659		4,906

Table 11. AGRONOMIC AND TEST INFORMATION: HEREFORD

TEST:	2013 Irrigated Grain Sorghum Performance Test
LOCATION:	Greg Urbanczyk Farm, Hereford, Texas
COOPERATOR:	Greg Urbanczyk
COLLABORATOR:	Rick Auckerman
SOIL TYPE:	Pullman clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Dryland wheat
DATE PLANTED:	5-29-13 with cones mounted on an Almaco planter using JD Max-Emerge II units.
PLANT POPULATION:	Seed were packaged to plant a population of 70,000 plants/A
PLOT LENGTH:	26’
FERTILIZER:	6-24-13: Broadcast 300 lb/A of.21+0+0+24
HERBICIDE:	13 oz/A of Huskie + 1.3 pts/A Dual + and 1 lb/A of Atrazine + 1 qt/A of Ag Pro applied at the end of June.
INSECTICIDE:	None, seeds were required to be treated with a seed insecticide
RAINFALL:	13.8” of rain from late- May to late- August
IRRIGATIONS:	A pre-plant application of 4.5” was applied prior to planting Furrow irrigated 5 times during the growing season totaling 12.5”
DATE HARVESTED:	10-9-13
SIZE HARVESTED PLOT:	2 rows, 26 feet long
TEST DESIGN:	Randomized complete block.
NUMBER ENTRIES:	32
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	7,551 lb/A; yields corrected to 14% moisture
TEST C.V.:	11.88%

COMMENTS: An optimum planting date, good agronomic practices, along with beneficial and timely rainfall were contributing factors that resulted in excellent yields at this site.

The test block was planted on May 29 into a well prepared seedbed. Seedling emergence was rapid and early plant growth and development resulted from a pre-plant irrigation applied prior to planting. Continuous plant growth and development resulted from moisture obtained by timely rains in May and June and a good irrigation schedule.

Fertility for the test block was determined after the cooperator submitted a soil sample prior to planting. Essential plant nutrients were supplied by broadcasting a post-plant fertilizer. A tank mix herbicide provided good weed control; however, hand-weeding was required to eliminate weeds which emerged late in the season.

Due to excellent moisture conditions and warm temperatures, the number of days to attain 50% flowering ranged from 59 to 72 days. Additional moisture at grain fill contributed to excellent yields and test weights.

The test mean yield was 7,551 lb/a compared to the past 2-year average of 6,193 lb/A. Three hybrids produced between 9,019 lb/A and 9,072 lb/A. The mean test weight was 59.8 lb/bu with the range being from 55.8 lb/bu to 61.5 lb/bu. Lodging was observed in the test block due to late-season stalk rot.

Bird damage was not observed in the test block. A combination of flash tape and scare eyes were used as bird deterrents and did an effective job.

Appreciation is expressed to Rick Auckerman, CEA Deaf Smith County, for monitoring the test block and securing the flowering notes at the appropriate time.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas AgriLife Research, College Station, TX
(979) 845-8505, croptest@neo.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 11A. 2013 Hereford Grain Sorghum Performance Test, Greg Urbanczyk Farm, Hereford, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	Des. Rating (4)	% Moisture	Test Weight lb/bu	Yield lb/A (5)
DeKalb Brand DKS53-67	Monsanto Co.	ML	BZ	P	67	53	5	0.0	9.3	13.9	61.5	9,072
REV® RV9924™	Terral Seed Inc.	L	R	P	70	54	6	0.5	9.4	11.0	59.6	9,070
84P80	DuPont Pioneer	ML	R	P	67	54	6	0.0	9.5	10.6	59.6	9,018
DeKalb Brand DKS49-45	Monsanto Co.	ML	BZ	P	66	57	7	0.0	9.4	12.5	60.6	8,835
DeKalb Brand DKS51-01	Monsanto Co.	ML	BZ	P	66	57	8	0.5	9.3	11.0	61.8	8,528
REV® RV9794™	Terral Seed Inc.	M	R	P	71	55	7	0.0	9.5	11.1	58.4	8,386
84G62	DuPont Pioneer	ML	BZ	P	68	53	4	0.0	9.2	11.8	60.3	8,326
85Y40	DuPont Pioneer	M	WH	P	66	52	6	1.3	9.1	11.7	61.3	8,201
BH 5566	B-H Genetics	ML	BZ	P	66	53	7	1.3	9.4	12.5	59.6	7,967
REV® RV9562™	Terral Seed Inc.	ME	R	P	65	52	6	0.0	9.3	10.3	59.5	7,939
REV® RV9803™	Terral Seed Inc.	ML	R	P	65	53	7	0.5	9.2	11.0	59.7	7,926
BH 5224	B-H Genetics	M	BZ	P	65	52	8	1.0	8.9	10.9	59.2	7,918
REV® RV9883™	Terral Seed Inc.	ML	R	P	67	55	7	1.3	9.4	11.2	60.2	7,849
BH 5350	B-H Genetics	M	R	P	66	49	6	1.3	9.1	11.3	55.8	7,789
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	67	52	5	0.0	9.0	11.9	60.2	7,736
REV® RV9973™	Terral Seed Inc.	L	R	P	72	53	6	0.0	8.9	11.0	59.5	7,650
REV® RV9782™	Terral Seed Inc.	ML	R	P	65	50	6	6.3	9.1	11.9	59.8	7,636
5613	Golden Acres Genetics	M	BZ	P	65	52	7	3.3	9.1	10.6	59.6	7,630
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	65	53	9	0.0	9.5	13.2	57.9	7,626
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	70	54	7	0.0	9.1	11.3	60.8	7,416
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	67	52	7	9.8	8.8	11.6	57.6	7,319
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	67	55	7	0.0	8.7	11.3	58.5	7,152
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	67	58	7	5.0	9.0	12.6	60.5	7,137
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	68	54	6	4.3	8.9	12.8	61.2	6,893
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	65	52	5	7.5	9.1	12.0	61.1	6,793
H390W	Golden Acres Genetics	ME	CR	P	65	46	6	0.5	8.7	11.3	59.4	6,725
GW 9480	Gayland Ward Seed Co.	ML	R	P	66	56	7	3.3	9.2	10.9	61.2	6,655
5556	Golden Acres Genetics	ME	R	P	65	46	8	4.3	9.0	11.3	60.2	6,634
KS585	Sorghum Partners, LLC	M	BZ	P	64	50	6	13.3	9.1	11.1	60.1	6,321
NK7829	Sorghum Partners, LLC	ML	BZ	P	67	55	8	13.8	8.9	12.2	60.0	6,269

Table 11A. 2013 Hereford Grain Sorghum Performance Test, Greg Urbanczyk Farm, Hereford, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Height Inches	Head Exser-tion In.	% Lodge	Des. Rating (4)	% Moisture	Test Weight lb/bu	Yield lb/A (5)
NK5418	Sorghum Partners, LLC	M	BZ	P	62	45	7	12.5	8.9	10.9	58.3	5,715
SP3425	Sorghum Partners, LLC	ME	BZ	P	59	42	7	5.0	8.7	10.7	59.4	5,488
Mean					66.2	52.3	6.4	3.0	9.1	11.5	59.8	7,551
C.V.					1.34	2.53	12.31	211.69	2.1	9.24	1.42	11.88
L.S.D. .05					1.28	1.90	1.14	9.20	0.3	1.57	1.23	1,294

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

Note 3: Appreciation is expressed to Mr. Rick Aukerman, Deaf Smith County CEA for securing flowering data and maintaining the test block throughout the growing season.

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Desirability rating key is as follows: 1=Very Poor; 10=Excellent

(5) Yields corrected to 14% moisture

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 11B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Hereford, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
DeKalb DKS53-67	Monsanto Company	1	9,072	2	8,482	14	4,457
REV® RV9924™	Terral Seed Inc.	2	9,070	--	--	--	--
84P80	DuPont Pioneer	3	9,018	4	7,953	1	6,489
DeKalb DKS49-45	Monsanto Company	4	8,835	1	9,263	5	5,766
DeKalb DKS51-01	Monsanto Company	5	8,528	5	7,893	--	--
REV® RV9794™	Terral Seed Inc.	6	8,386	--	--	--	--
84G62	DuPont Pioneer	7	8,326	3	8,035	2	6,391
85Y40	DuPont Pioneer	8	8,201	19	6,529	9	5,172
BH 5566	B-H Genetics	9	7,967	12	7,306	--	--
REV® RV9562™	Terral Seed Inc.	10	7,939	13	7,111	--	--
REV® RV9803™	Terral Seed Inc.	11	7,926	6	7,848	--	--
BH 5224	B-H Genetics	12	7,918	--	--	--	--
REV® RV9883™	Terral Seed Inc.	13	7,849	11	7,336	--	--
BH 5350	B-H Genetics	14	7,789	--	--	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	15	7,736	17	6,824	13	4,781
REV® RV9973™	Terral Seed Inc.	16	7,650	10	7,361	--	--
REV® RV9782™	Terral Seed Inc.	17	7,636	15	6,899	--	--
GA 5613	Golden Acres Genetics	18	7,630	16	6,864	--	--
Exp 9059	Gayland Ward Seed	19	7,626	--	--	--	--
REV® RV9823™	Terral Seed Inc.	20	7,416	9	7,495	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	21	7,319	8	7,649	8	5,305
ATx378 x RTx430	Texas A&M AgriLife Research	22	7,152	14	6,967	15	4,206
ATx631 x RTx436	Texas A&M AgriLife Research	23	7,137	18	6,591	10	5,099
ATx645 x RTx2783	Texas A&M AgriLife Research	24	6,893	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	25	6,793	--	--	--	--
H390W	Golden Acres Genetics	26	6,725	--	--	--	--
GW 9480	Gayland Ward Seed	27	6,655	--	--	--	--
GA 5556	Golden Acres Genetics	28	6,634	7	7,784	--	--
KS585	Sorghum Partners, LLC	29	6,321	--	--	--	--
NK 7829	Sorghum Partners, LLC	30	6,269	--	--	18	3,541

Table 11B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Hereford, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
NK5418	Sorghum Partners, LLC	31	5,715	--	--	--	--
SP3425	Sorghum Partners, LLC	32	5,488	--	--	--	--
REV® RV9953™	Terral Seed Inc.	--	--	20	5,262	--	--
Number of Entries		32		20		18	
Test Mean Yield (lb/A)			7,551		7,374		5,011

Table 12.	AGRONOMIC AND TEST INFORMATION: PERRYTON
TEST:	2013 Irrigated Grain Sorghum Performance Test
LOCATION:	Eric Philipp Farm located approximately 18 miles south of, Perryton, Texas
COOPERATORS:	Eric Philipp
COLLABORATORS:	Scott Strawn and J. R. Sprague
SOIL TYPE:	Pullman silty clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Sweep plowed in March, broadcast fertilizer and incorporated with Vertical Till
DATE PLANTED:	5-22-13
PLANT POPULATION:	Seeds were packaged to obtain a planting population of approximately 60,000 plants/A.
PLOT LENGTH:	26’
FERTILIZER:	Broadcast 150+50+0+5(Zn)+10(S) on 5-15-13
HERBICIDE:	Applied Cinch @ label rate Pre-plant, Irrigated in to activate
INSECTICIDE:	None; seeds were required to be treated with a seed insecticide
RAINFALL:	1.61” during the growing season
IRRIGATIONS:	Applied 18.0” thru center pivot irrigation system between 5-23-13 to 8-20-13”.
DATE HARVESTED:	10-23-13
SIZE HARVESTED PLOT:	2 rows, 26’ long
TEST DESIGN:	Randomized complete block using REMLTOOL for analysis
NUMBER ENTRIES:	35
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
TEST MEAN:	8,887 lb/A
TEST C.V.:	11.25%

COMMENTS: This was an outstanding test with seven hybrids producing over 10,000 lb/A. Timely rainfall and irrigation during the growing season enhanced final yields. Excellent bushel weights were also obtained.

Appreciation is expressed to Scott Strawn and J. R. Sprague, Texas AgriLife Extension Agents, Ochiltree and Lipscomb,County respectively, for providing assistance to this test.

***

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas AgriLife Research, College Station, TX
(979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing web page at http://varietytesting.tamu.edu

Table 12A. 2013 Perryton Grain Sorghum Performance Test, Eric Philipp Farm, Perryton, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Ht. In.	Head Exser-tion In.	% Lodge	% Stand	Des. Rating (4)	% Mois-ture	Test Weight lb/bu	Yield lb/A (5)	Yield bu/A (6)
REV® RV9924™	Terral Seed Inc.	L	R	P	71	56	4	0.00	100.0	9.5	13.5	59.9	10,563	188.6
REV® RV9794™	Terral Seed Inc.	M	R	P	72	57	5	0.00	100.0	9.4	12.7	59.1	10,388	185.5
REV® RV9803™	Terral Seed Inc.	ML	R	P	67	51	6	0.00	100.0	9.4	13.7	60.1	10,318	184.3
85Y40	DuPont Pioneer	M	WH	P	66	54	4	0.00	100.0	9.3	13.8	61.6	10,268	183.3
REV® RV9823™	Terral Seed Inc.	ML	BZ	P	71	56	5	0.00	100.0	9.1	13.4	60.6	10,199	182.1
BH 5566	B-H Genetics	ML	BZ	P	69	56	5	0.50	100.0	9.3	13.1	60.0	10,032	179.1
REV® RV9782™	Terral Seed Inc.	ML	R	P	66	55	6	1.25	100.0	9.2	13.8	60.9	10,016	178.9
REV® RV9973™	Terral Seed Inc.	L	R	P	73	55	4	0.00	100.0	9.3	14.4	61.1	9,903	176.8
REV® RV9883™	Terral Seed Inc.	ML	R	P	67	56	6	1.75	100.0	9.2	13.6	59.0	9,878	176.4
ATx2752 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	68	57	5	2.50	100.0	9.0	12.2	59.2	9,872	176.3
BH 3822	B-H Genetics	M	BZ	P	69	53	6	0.00	100.0	9.2	13.8	60.8	9,817	175.3
REV® RV9562™	Terral Seed Inc.	ME	R	P	66	54	6	1.25	100.0	9.1	14.3	61.4	9,726	173.7
85G03	DuPont Pioneer	M	R	P	66	55	5	1.75	100.0	9.3	13.9	61.9	9,629	172.0
86G32	DuPont Pioneer	ME	R	P	61	50	6	5.50	100.0	8.9	13.6	60.2	9,595	171.3
BH 5224	B-H Genetics	M	BZ	P	63	54	6	1.75	100.0	9.2	13.8	59.7	9,553	170.6
DeKalb Brand DKS44-20	Monsanto Co.	M	BZ	P	67	55	7	0.00	100.0	9.2	14.3	61.3	9,467	169.0
5613	Golden Acres Genetics	M	BZ	P	66	54	7	1.25	100.0	9.0	12.9	59.0	9,402	167.9
DeKalb Brand DKS38-88	Monsanto Co.	ME	BZ	P	66	55	7	2.50	100.0	9.2	13.8	61.6	9,233	164.9
ATx399 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	68	53	5	7.50	90.0	9.0	12.8	57.4	8,957	159.9
GW 9480	Gayland Ward Seed Co.	M	R	P	68	59	5	8.25	100.0	9.2	14.5	62.2	8,907	159.0
5745	Golden Acres Genetics	E	R	P	63	51	7	0.00	100.0	9.1	13.3	57.7	8,883	158.6
KS585	Sorghum Partners, LLC	M	BZ	P	65	49	5	1.25	100.0	9.0	12.9	59.4	8,839	157.8
GW 9320	Gayland Ward Seed Co.	ML	R	P	71	57	3	13.75	97.5	8.9	14.4	61.8	8,572	153.1
5556	Golden Acres Genetics	ME	R	P	65	52	6	5.00	100.0	9.0	12.3	60.2	8,505	151.9
DeKalb Brand DKS37-07	Monsanto Co.	ME	BZ	P	63	53	5	2.50	100.0	9.1	14.0	61.1	8,433	150.6
Exp 9059	Gayland Ward Seed Co.	ME	BZ	P	63	56	9	0.00	100.0	9.2	13.1	58.6	8,362	149.3
NK6638	Sorghum Partners, LLC	M	BZ	P	72	53	6	10.00	100.0	8.9	13.8	60.4	8,278	147.8
ATx631 x RTx436	Texas A&M AgriLife Research	ML	W	T	73	59	5	0.00	93.8	9.2	13.2	61.2	7,994	142.8
Exp 9010	Gayland Ward Seed Co.	M	BZ	P	66	56	5	27.50	100.0	8.5	13.9	60.5	7,832	139.9
H390W	Golden Acres Genetics	ME	CR	P	67	48	6	1.75	92.5	8.8	13.0	58.8	7,794	139.2

Table 12A. 2013 Perryton Grain Sorghum Performance Test, Eric Philipp Farm, Perryton, Texas.

Hybrid	Company or Brand Name	Maturity Class (1)	Grain Color (2)	Plant Color (3)	Days to 50% Flower	Plant Ht. In.	Head Exser-tion In.	% Lodge	% Stand	Des. Rating (4)	% Mois-ture	Test Weight lb/bu	Yield lb/A (5)	Yield bu/A (6)
SP3425	Sorghum Partners, LLC	ME	BZ	P	61	40	5	0.00	100.0	8.8	13.6	59.1	7,494	133.8
K35-Y5	Sorghum Partners, LLC	ME	CT	P	60	46	6	0.00	100.0	8.9	13.1	58.5	7,473	133.4
ATx645 x RTx437	Texas A&M AgriLife Research	M	R	R	69	56	6	12.50	75.0	8.6	14.4	60.3	6,544	116.9
ATx378 x RTx430	Texas A&M AgriLife Research	ML	BZ	P	73	58	6	15.00	55.0	7.8	12.6	59.0	5,337	95.3
ATx645 x RTx2783	Texas A&M AgriLife Research	M	R	R	73	58	6	25.00	65.0	8.4	14.2	62.0	4,998	89.2
Mean					67.1	53.8	5.5	4.3	96.3	9.0	13.5	60.2	8,887	158.7
C.V.					2.79	3.40	12.99	183.04	6.6	3.3	7.42	1.57	11.25	11.25
L.S.D. .05					2.69	2.63	1.02	11.27	9.1	0.4	NS	1.37	1,436	25.6

Note 1: All data was analyzed using REMLTOOL. L.S.D.'s are given for traits that were significantly different at P<.05.

Note 2: Those hybrids entered by Texas A&M AgriLife Research are being tested as experimental check hybrids

Note 3: Appreciation is expressed to Mr. Scott Strawn, Ochiltree County CEA, for securing flowering data and maintaining the test block throughout the growing season. Also to Mr. J. R. Sprague, Lipscomb County CEA, for assisting in planting the test.

(1) Maturity classification designated by respective seed companies: E=Early, M=Medium, ML=Medium Late, L=Late. Those hybrids with an asterisk (*) indicates company did not submit maturity.

(2) Grain color designated by respective seed companies: R=Red, Bz=Bronze, W=White, Cm=Cream, Y=Yellow.
Those hybrids with an asterisk (*) indicates company did not submit grain color.

(3) Plant color designated by respective seed companies: T=Tan, R=Red, P=Purple. Those hybrids with an asterisk (*) indicates company did not submit plant color.

(4) Desirability rating key is as follows: 1=Very Poor; 10=Excellent

(5) Yields corrected to 14% moisture
(6) lb/A /56

For further information about this report, contact Mr. Dennis Pietsch, Crop Testing Director, Texas A&M AgriLife Research, College Station, TX
(979) 845-8505, DPietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu

Table 12B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Perryton, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
REV® RV9924™	Terral Seed Inc.	1	10,563	--	--	--	--
REV® RV9794™	Terral Seed Inc.	2	10,388	--	--	--	--
REV® RV9803™	Terral Seed Inc.	3	10,318	6	5,566	--	--
85Y40	DuPont Pioneer	4	10,268	2	6,215	12	7,292
REV® RV9823™	Terral Seed Inc.	5	10,199	9	5,281	--	--
BH 5566	B-H Genetics	6	10,032	18	4,633	--	--
REV® RV9782™	Terral Seed Inc.	7	10,016	1	6,642	--	--
REV® RV9973™	Terral Seed Inc.	8	9,903	19	4,504	--	--
REV® RV9883™	Terral Seed Inc.	9	9,878	5	5,610	--	--
ATx2752 x RTx430	Texas A&M AgriLife Research	10	9,872	13	4,979	2	8,917
BH 3822	B-H Genetics	11	9,817	--	--	--	--
REV® RV9562™	Terral Seed Inc.	12	9,726	8	5,297	--	--
85G03	DuPont Pioneer	13	9,629	--	--	14	7,152
86G32	DuPont Pioneer	14	9,595	--	--	--	--
BH 5224	B-H Genetics	15	9,553	--	--	--	--
DeKalb DKS44-20	Monsanto Company	16	9,467	3	5,632	11	7,348
GA 5613	Golden Acres Genetics	17	9,402	11	5,181	--	--
DeKalb DKS38-88	Monsanto Company	18	9,233	--	--	--	--
ATx399 x RTx430	Texas A&M AgriLife Research	19	8,957	15	4,827	8	8,203
GW 9480	Gayland Ward Seed Co.	20	8,907	--	--	--	--
5745	Golden Acres Genetics	21	8,883	--	--	--	--
KS 585	Sorghum Partners, LLC	22	8,839	--	--	--	--
GW 9320	Gayland Ward Seed Co.	23	8,572	--	--	--	--
GA 5556	Golden Acres Genetics	24	8,505	16	4,823	--	--
DeKalb DKS37-07	Monsanto Company	25	8,433	7	5,335	9	8,184
Exp 9059	Gayland Ward Seed Co.	26	8,362	--	--	--	--
NK 6638	Sorghum Partners, LLC	27	8,278	--	--	--	--
ATx631 x RTx436	Texas A&M AgriLife Research	28	7,994	4	5,614	5	8,739
Exp 9010	Gayland Ward Seed Co.	29	7,832	--	--	--	--
H390W	Golden Acres Genetics	30	7,794	--	--	--	--

Table 12B. Three Year Summary (2011-2013) Grain Sorghum Performance Test, Perryton, Texas.

Hybrid	Company or Brand Name	2013 Rank	2013 Yield lb/A	2012 Rank	2012 Yield lb/A	2011 Rank	2011 Yield lb/A
SP 3425	Sorghum Partners, LLC	31	7,494	--	--	--	--
K35-Y5	Sorghum Partners, LLC	32	7,473	--	--	--	--
ATx645 x RTx437	Texas A&M AgriLife Research	33	6,544	--	--	--	--
ATx378 x RTx430	Texas A&M AgriLife Research	34	5,337	22	4,011	1	9,054
ATx645 x Rx2783	Texas A&M AgriLife Research	35	4,998	--	--	--	--
BH 3808	B-H Genetics	--	--	10	5,231	--	--
DeKalb DKS36-06	Monsanto Company	--	--	12	5,104	--	--
REV® RV9953™	Terral Seed Inc.	--	--	14	4,853	--	--
84P80	DuPont Pioneer	--	--	17	4,682	--	--
BH 5350	B-H Genetics	--	--	20	4,487	--	--
84G62	Pioneer Hi-Bred Int., Inc	--	--	21	4,427	--	--
Number Entries		35		22		19	
Test Mean Yield (lb/A)			8,887		5,133		7,754

ACKNOWLEDGMENTS

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

Farmers: Bryce Britsch (Hondo Test) Dean Hansen (Danevang Test), Allan Hunt (Gregory Test), Erich Philipp (Perryton Test), Greg Urbanczyck (Hereford Test), and Kenneth Wright (Farmersville Test).

Texas A&M AgriLife Research Personnel: Delroy Collins, Stephen Labar, Robert Myatt, Mark Stelter, and Russell Sutton.

Texas A&M AgriLife Extension Personnel: Archie Abrameit, Rick Auckerman, Dr. Dennis Coker, Jason Ott, and Scott Strawn.

Other contributers: Personell at Rio Farms near Monte Alto, Texas: Andy Scott, Eddie Hernandez, 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 Cameron Dorsett, Ryan Perez, and Mike Valenti for their assitance 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.
Additional publications may be viewed at http://soilcrop.tamu.edu.