

2017 TEXAS A&M AGRILIFE EXTENSION GRAIN SORGHUM HYBRID STRIP TRIALS



**Department of Soil and Crop Sciences
Texas A&M AgriLife Extension**

**2017 TEXAS A&M AGRILIFE EXTENSION
GRAIN SORGHUM HYBRID STRIP TRIALS**

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Introduction

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

This year, 16 non-irrigated and 1 irrigated test sites were planted in the Rio Grande Valley, Coastal Bend, Upper Gulf Coast, Blackland Prairie and Concho Valley regions of Texas. Additional hybrids may have been included at any given location at the discretion of the cooperator. Only official entries are included in regional summaries. Commercial seed companies enter one hybrid at their discretion into each trial by region and the hybrid must be entered at all locations within the region.

Performance trials are conducted by cooperative arrangements between growers, company representatives and Texas A&M AgriLife Extension personnel. Commercial farm equipment is typically used to plant and harvest. Test sites are on privately owned farms or at Texas A&M University AgriLife Research Centers. All entries are randomized and replicated three times at each location. All test sites are managed according to practices common to each production region. If replications are not available, statistical analysis cannot be performed and hybrid performance should be considered equal across hybrids for that site, despite numeric differences in yield or other agronomic traits.

Suggestions for Hybrid Selection

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. Hybrids that possess stay green traits or tolerance of various pests or disease may be important for your environment. While consistent yield will be the most important factor affecting hybrid selection, additional plant characteristics or traits could be used to select from hybrids with similar yield performance.

Field-Plot Techniques

Hybrid performance trials are conducted at each location using a randomized complete block design with three replications of each entry (hybrid). Seeds for each hybrid are delivered to centralized distribution points in each sub-region. Plots are generally between 4 and 12 rows wide with row spacing ranging from 30 to 40 inches depending on location. All plots are planted using commercial farm equipment provided by growers or cooperators at each location.

Cultural and agronomic practices adapted for each region are used as determined by the cooperator. Most locations are harvested using commercial farm equipment and yield measured by weighing each plot using “weigh wagons”. Some locations may use hand harvesting of predetermined row lengths followed by mechanical threshing and weighing. Grain moisture and test weight are determined from grab samples and measured using instruments such as the Mini GAC plus or similar instruments.

Data Analysis and Reporting

Data from each location is analyzed statistically using SAS 9.3. 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, moisture, etc.) less than the LSD value represents variation in measurements due to factors other than hybrid performance, such as variation in soil type, soil moisture, fertility, insect or disease pressure, planting or harvesting procedures. Although numeric differences in yield or other measurements may exist, if two entries are within the LSD value, they should be considered to have equal performance. The Coefficient of Variation (CV) is used to determine the amount of variability in the data set relative to the mean and can be used to determine if the results are reliable. Generally, CV's greater than 20% indicate that the data is unreliable and is not reported. However, each data set is evaluated individually to determine if results will be reported.

In addition to individual location data, summaries for regional performance are provided. Regional summaries provide least square means for grain yield. Least square means are an estimate of yield from a linear model for each region. The model (PROC MIXED) accounts for fixed and random variables. Replications are considered random, hybrid and location are considered fixed. When hybrid is significant and no interaction (hybrid*location) is present, means separation is provided using Tukeys adjustment ($p < 0.05$).

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. Rainfall from January through November is provided in Figure 1.

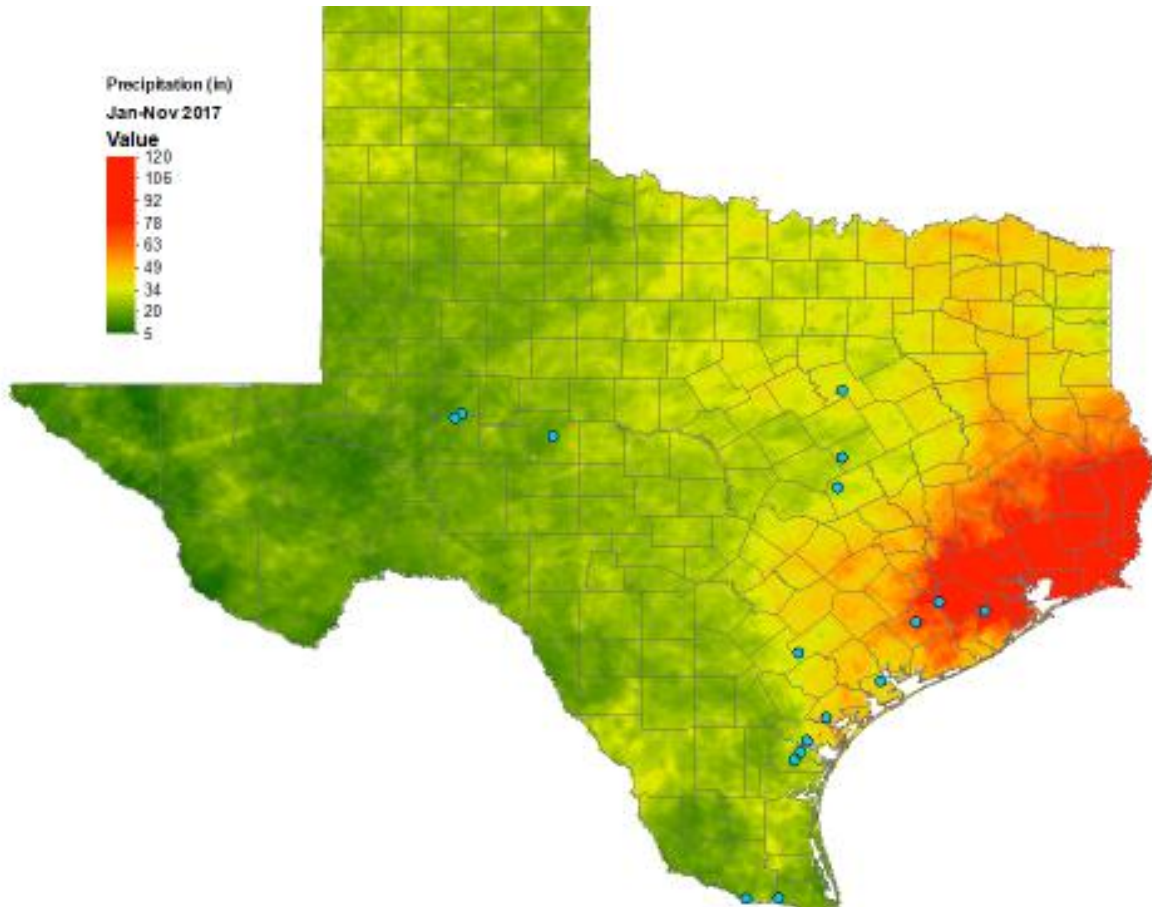


Figure 1. Rainfall in inches for 2017 (January 1, 2017 - November 30, 2017).

Company Information:

Company	Contact	Phone	Email
Terral Seed - REV	Marty Hale	318-231-8800	mhale@terralseed.com
CPS Dyna-Gro	Cord Willms	361-960-4399	James.willms@cpsagu.com
Golden Acres	Chris Sheppard	254-761-9838	csheppard@goldenacres.com
Advanta - Alta	Zach Eder	979-322-5138	Zach.eder@advantaseeds.com
Monsanto Dekalb	Steve Carlson		Steve.carlson@monsanto.com
Monsanto Dekalb	Jim Bosch	361-571-4234	James.c.bosch@monsanto.com
Sorghum Partners - Chromatin	Rick Kochenower	405-206-8186	rkochenower@chromatin.com
B-H Genetics	Travis Janak	361-771-8722	travisj@bhgenetics.com

2017 Grain Sorghum Rio Grande Valley Regional Summary



Company	Brand	Hybrid	Moisture (%)	Test Weight (lb/bu)	Yield (lb/acre)
CPS Dyna-Gro	Dyna-Gro	M74GB17	14.5	56.8	6,429
Monsanto	Dekalb	DKS 53-53	14.2	58.2	6,360
Golden Acres Genetics	Golden Acres	3960B	14.1	57.8	6,176
B-H Genetics	B-H Genetics	BH 4100	14.5	57.7	6,125
Advanta	Alta	XG3203	14.4	57.3	5,343
Chromatin Inc.	Sorghum Partners	SP 78M30	14.7	56.8	5,319
Chromatin Inc.	Sorghum Partners	SP 7715	15.0	58.3	5,164

Hybrid (Pr>F)	0.000
Location (Pr>F)	0.521
Hybrid*Location (Pr>F)	0.000

Yield is presented as the least square mean, which is an estimate from a linear model. The model (Proc Mixed, SAS 9.3) adjusts means for fixed and random affects in the model, including hybrid (f) location (f) and rep (r), to provide better estimates of yield for each hybrid in the regional trial. Yield is not estimated when location data is missing. Yields highlighted in yellow are not significantly different than the top ranked hybrid (Tukeys p=0.05). If no yields are highlighted, refer to individual locations for evaluation of hybrid performance. SCA tolerant hybrids highlighted in green.

Cameron

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 53-53	15.3	58.67	6,210
B-H Genetics	B-H Genetics	BH 4100	15.0	58.67	6,110
CPS Dyna-Gro	Dyna-Gro	M74GB17	15.6	57.67	6,052
Advanta	Alta	XG3203	15.4	57.33	5,990
Golden Acres Genetics	Golden Acres	3960B	15.4	58.67	5,932
Chromatin Inc.	Sorghum Partners	SP 7715	15.8	58.33	5,541
Anzu	Anzu	AG 4333	15.5	58.67	5,417
Chromatin Inc.	Sorghum Partners	SP 78M30	16.1	57.00	5,376

Agronomic Information

Plant Date	3/8/2017
Harvest Date	6/29/2017
Irrigated	No
Row Spacing (in)	38
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	17.83
Soil Type	Olmito silty clay
SCA Sprayed	No
SCA Rating	2
Herbicide Insecticides	Verdict @ 10 oz per acre

Mean	15.51	58.13	5,828
C.V. (%)	3.000	1.000	2.050
L.S.D.		0.80	208.9
Pr>F (hybrid)	0.219	0.001	0.000

Cooperator: Greg Schreiber Farm

Agent: Enrique Perez

Other Agronomic Info

Declare sprayed for midge

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
 Dr. Ronnie Schnell
 ronschnell@tamu.edu
 979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Hidalgo

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.4	56.00	6,807
Monsanto	Dekalb	DKS 53-53	13.1	57.67	6,511
Golden Acres Genetics	Golden Acres	3960B	12.7	57.00	6,419
B-H Genetics	B-H Genetics	BH 4100	13.9	56.67	6,141
Chromatin Inc.	Sorghum Partners	SP 78M30	13.3	56.67	5,261
Chromatin Inc.	Sorghum Partners	SP 7715	14.3	58.33	4,787
Advanta	Alta	XG3203	13.3	57.33	4,696

Agronomic Information

Plant Date	2/15/2017
Harvest Date	6/22/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	18.22
Soil Type	Runn silty clay
SCA Sprayed	No
SCA Rating	5
Herbicide Insecticides	

Mean	13.42	57.10	5,803
C.V. (%)	7.000	2.000	6.670
L.S.D.			688.2
Pr>F (hybrid)	0.485	0.142	0.000

Cooperator: Tim McDaniel

Agent: Brad Cowan

Other Agronomic Info

Irrigated 3 times

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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 ronschnell@tamu.edu
 979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

2017 Grain Sorghum Coastal Bend Regional Summary



Company	Brand	Hybrid	Moisture (%)	Test Weight (lb/bu)	Yield (lb/acre)
Monsanto	Dekalb	DKS 53-53	14.8	58.9	4,863
Golden Acres Genetics	Golden Acres	3960B	14.6	59.6	4,710
B-H Genetics	B-H Genetics	BH 4100	14.6	59.3	4,649
CPS Dyna-Gro	Dyna-Gro	M74GB17	15.1	58.6	4,530
Advanta	Alta	XG3203	14.5	58.4	4,502
Chromatin Inc.	Sorghum Partners	SP 7715	15.2	59.0	4,395
Chromatin Inc.	Sorghum Partners	SP 68M57	14.6	58.7	4,385

Hybrid (Pr>F)	0.000
Location (Pr>F)	0.000
Hybrid*Location (Pr>F)	0.000

Yield is presented as the least square mean, which is an estimate from a linear model. The model (Proc Mixed, SAS 9.3) adjusts means for fixed and random affects in the model, including hybrid (f) location (f) and rep (r), to provide better estimates of yield for each hybrid in the regional trial. Yield is not estimated when location data is missing. Yields highlighted in yellow are not significantly different than the top ranked hybrid (Tukeys p=0.05). If no yields are highlighted, refer to individual locations for evaluation of hybrid performance. SCA tolerant hybrids highlighted in green.

DeWitt

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Dupont	Pioneer	84P80	13.6	61.50	3,896
Monsanto	Dekalb	DKS 53-53	13.9	60.50	3,784
Golden Acres Genetics	Golden Acres	3960B	14.1	61.83	3,718
Advanta	Alta	XG3203	12.7	59.33	3,619
CPS Dyna-Gro	Dyna-Gro	M74GB17	14.1	60.67	3,561
Chromatin Inc.	Sorghum Partners	SP 7715	13.7	61.00	3,509
B-H Genetics	B-H Genetics	BH 4100	13.5	61.33	3,441
Chromatin Inc.	Sorghum Partners	SP 68M57	13.0	59.50	3,359

Agronomic Information

Plant Date	3/29/2017
Harvest Date	7/22/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	6
Seeds per Acre	74,000
Nitrogen (lb N/ac)	84
Phosphorus (lb P2O5/ac)	28
Potassium (lb K2O/ac)	12
Precipitation (inches)	33.26
Soil Type	Weesatche sandy clay loam
SCA Sprayed	Yes
SCA Rating	3
Herbicide Insecticides	3/21/17 Atrazine (1 qt) Verdict (10 oz) & Roundup Power Max (24 oz). 3/30/17 Outlook (6.4 oz) & Roundup Power Max (22 oz)

Mean	13.58	60.71	3,611
C.V. (%)	3.000	1.000	5.740
L.S.D.	0.68	1.02	
Pr>F (hybrid)	0.006	0.001	0.090

Cooperator: Joseph Resondek

Agent: Anthony Netardus

Other Agronomic Info

Conventional Tillage
7/4/17 Silencer (4 oz) for headworms & Sivanto (6 oz) for sugarcane aphids.

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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ronschnell@tamu.edu
979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Nueces

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
B-H Genetics	B-H Genetics	BH 4100	15.0	58.08	3,063
Monsanto	Dekalb	DKS 53-53	15.2	56.65	2,995
Advanta	Alta	XG3203	15.1	57.23	2,966
Golden Acres Genetics	Golden Acres	3960B	14.9	58.25	2,769
Chromatin Inc.	Sorghum Partners	SP 7715	15.6	58.20	2,747
CPS Dyna-Gro	Dyna-Gro	M74GB17	15.4	56.48	2,726
Chromatin Inc.	Sorghum Partners	SP 68M57	15.2	58.10	2,343

Agronomic Information

Plant Date	<input type="text" value="3/1/2017"/>
Harvest Date	<input type="text" value="7/11/2017"/>
Irrigated	<input type="text" value="No"/>
Row Spacing (in)	<input type="text" value="38"/>
Number of Rows	<input type="text" value="2"/>
Seeds per Acre	<input type="text"/>
Nitrogen (lb N/ac)	<input type="text" value="87"/>
Phosphorus (lb P2O5/ac)	<input type="text" value="76"/>
Potassium (lb K2O/ac)	<input type="text" value="0"/>
Precipitation (inches)	<input type="text" value="26.91"/>
Soil Type	<input type="text" value="Victoria clay"/>
SCA Sprayed	<input type="text" value="No"/>
SCA Rating	<input type="text" value="1"/>
Herbicide Insecticides	<input type="text" value="Atrazine 1 qt + Dual Magnum 1.3 pt PRE, Atrazine 1 qt POST"/>

Mean	<input type="text" value="15.18"/>	<input type="text" value="57.57"/>	<input type="text" value="2,801"/>
C.V. (%)	<input type="text" value="3.000"/>	<input type="text" value="2.000"/>	<input type="text" value="12.840"/>
L.S.D.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pr>F (hybrid)	<input type="text" value="0.596"/>	<input type="text" value="0.355"/>	<input type="text" value="0.151"/>

Cooperator:

Agent:

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

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- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Nueces

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Golden Acres Genetics	Golden Acres	3960B	12.9	58.33	5,863
B-H Genetics	B-H Genetics	BH 4100	13.7	57.67	5,757
Dupont	Pioneer	83P73	13.8	57.33	5,716
Monsanto	Dekalb	DKS 53-53	13.4	57.33	5,638
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.8	57.67	5,628
Monsanto	Dekalb	DKS 53-67	14.3	58.33	5,537
Advanta	Alta	XG3203	12.7	57.67	5,523
Chromatin Inc.	Sorghum Partners	SP 68M57	13.1	57.67	5,512
Chromatin Inc.	Sorghum Partners	SP 7715	14.2	57.33	5,137

Agronomic Information

Plant Date	3/1/2017
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	26.61
Soil Type	Victoria clay
SCA Sprayed	No
SCA Rating	1
Herbicide	
Insecticides	

Mean	13.54	57.70	5,590
C.V. (%)	7.000	1.000	2.480
L.S.D.			239.6
Pr>F (hybrid)	0.426	0.230	0.001

Cooperator: S&S Farms

Agent: Jason Ott

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Sugarcane Aphid (SCA) Site Assessment

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- 2 – SCA present below minimum threshold (<50 per leaf)
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- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Nueces County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
Advanta	Alta	XG3203	No	81			50,530
B-H Genetics	B-H Genetics	BH 4100	Yes	72			55,176
Chromatin Inc.	Sorghum Part	SP 68M57	No	71			54,595
Chromatin Inc.	Sorghum Part	SP 7715	Yes	81			52,853
CPS Dyna-Gro	Dyna-Gro	M74GB17	Yes	81			55,176
Dupont	Pioneer	83P73	No	80			58,080
Golden Acres Genetics	Golden Acres	3960B	Yes	77			55,950
Monsanto	Dekalb	DKS 53-53	No	73			55,563
Monsanto	Dekalb	DKS 53-67	No	79			55,757
Trial Mean				77			54,853

Refugio

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 53-53	15.5	60.67	5,543
Golden Acres Genetics	Golden Acres	3960B	15.4	60.00	5,310
B-H Genetics	B-H Genetics	BH 4100	14.9	60.00	5,244
Chromatin Inc.	Sorghum Partners	SP 68M57	15.9	58.67	4,787
CPS Dyna-Gro	Dyna-Gro	M74GB17	16.3	59.00	4,644
Chromatin Inc.	Sorghum Partners	SP 7715	16.1	59.00	4,526
Advanta	Alta	XG3203	15.6	58.33	4,433

Agronomic Information

Plant Date	<input type="text" value="3/4/2017"/>
Harvest Date	<input type="text" value="7/5/2017"/>
Irrigated	<input type="text" value="No"/>
Row Spacing (in)	<input type="text" value="30"/>
Number of Rows	<input type="text" value="12"/>
Seeds per Acre	<input type="text"/>
Nitrogen (lb N/ac)	<input type="text"/>
Phosphorus (lb P2O5/ac)	<input type="text"/>
Potassium (lb K2O/ac)	<input type="text"/>
Precipitation (inches)	<input type="text" value="46.48"/>
Soil Type	<input type="text" value="Victoria clay"/>
SCA Sprayed	<input type="text" value="No"/>
SCA Rating	<input type="text" value="2"/>
Herbicide Insecticides	<input type="text"/>

Mean	<input type="text" value="15.66"/>	<input type="text" value="59.38"/>	<input type="text" value="4,926"/>
C.V. (%)	<input type="text" value="2.000"/>	<input type="text" value="2.000"/>	<input type="text" value="2.450"/>
L.S.D.	<input type="text" value="0.57"/>	<input type="text"/>	<input type="text" value="215.0"/>
Pr>F (hybrid)	<input type="text" value="0.003"/>	<input type="text" value="0.068"/>	<input type="text" value="0.000"/>

Cooperator:

Agent:

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

San Patricio

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 53-53	15.9	60.00	6,357
Dupont	Pioneer	83P73	16.0	60.00	6,319
CPS Dyna-Gro	Dyna-Gro	M74GB17	16.0	59.67	6,089
Monsanto	Dekalb	DKS 37-07	15.9	59.67	6,069
Chromatin Inc.	Sorghum Partners	SP 7715	16.1	59.67	6,055
Advanta	Alta	XG3203	16.1	60.00	5,970
Chromatin Inc.	Sorghum Partners	SP 68M57	15.9	60.00	5,927
Golden Acres Genetics	Golden Acres	3960B	15.7	60.00	5,890
B-H Genetics	B-H Genetics	BH 4100	15.8	60.00	5,740

Agronomic Information

Plant Date	3/18/2017
Harvest Date	7/14/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	52,500
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	31.83
Soil Type	Victoria clay
SCA Sprayed	No
SCA Rating	1
Herbicide	13oz. Outlook, .3oz Peak
Insecticides	4/20/17, 12.8 oz./ac Prevethon by air

Mean	15.94	59.89	6,036
C.V. (%)	2.000	1.000	3.170
L.S.D.			
Pr>F (hybrid)	0.543	0.957	0.055

Cooperator: Andrew Miller

Agent: Bob McCool

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

Dr. Ronnie Schnell
ronschnell@tamu.edu
979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

2017 Grain Sorghum Upper Gulf Coast Regional Summary



Company	Brand	Hybrid	Moisture (%)	Test Weight (lb/bu)	Yield (lb/acre)
Monsanto	Dekalb	DKS 51-01	13.4	60.0	6,370
Golden Acres Genetics	Golden Acres	3960B	12.6	59.4	5,569
B-H Genetics	B-H Genetics	BH 4100	13.5	58.8	5,552
Terral Seed	REV	9782	13.3	59.4	5,551
Chromatin Inc.	Sorghum Partners	SP 7715	13.7	59.8	5,524
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.5	59.5	5,348
Chromatin Inc.	Sorghum Partners	SP 78M30	12.9	58.7	4,994
Advanta	Alta	XG3203	12.6	58.7	

Hybrid (Pr>F)	0.000
Location (Pr>F)	0.000
Hybrid*Location (Pr>F)	0.079

Yield is presented as the least square mean, which is an estimate from a linear model. The model (Proc Mixed, SAS 9.3) adjusts means for fixed and random affects in the model, including hybrid (f) location (f) and rep (r), to provide better estimates of yield for each hybrid in the regional trial. Yield is not estimated when location data is missing. Yields highlighted in yellow are not significantly different than the top ranked hybrid (Tukeys p=0.05). If no yields are highlighted, refer to individual locations for evaluation of hybrid performance. SCA tolerant hybrids highlighted in green.

Brazoria

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 51-01	13.4	60.00	2,554
Chromatin Inc.	Sorghum Partners	SP 78M30	13.1	58.33	2,062
Terral Seed	REV	9782	12.6	58.67	2,025
Chromatin Inc.	Sorghum Partners	SP 7715	13.7	60.00	1,984
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.4	59.33	1,981
B-H Genetics	B-H Genetics	BH 4100	12.9	58.33	1,970
Golden Acres Genetics	Golden Acres	3960B	12.0	58.67	1,932
Advanta	Alta	XG3203	13.0	58.00	1,896

Agronomic Information

Plant Date	4/6/2017
Harvest Date	8/4/2017
Irrigated	No
Row Spacing (in)	38
Number of Rows	6
Seeds per Acre	120,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	79.29
Soil Type	Lake Charles clay
SCA Sprayed	No
SCA Rating	2
Herbicide Insecticides	Bicep-48oz/acre, Roundup 32oz/acre, Compadre-3.25 oz/ac, Choice-12.85 oz/ac (all on 4-6-17) Diamond-6.4 oz/acre

Mean	13.02	58.92	2,051
C.V. (%)	3.000	2.000	12.970
L.S.D.	0.72		
Pr>F (hybrid)	0.006	0.096	0.152

Cooperator: TDCJ Darrington

Agent: Jessica Chase

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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 979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

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- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Calhoun

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 51-01	13.1	60.33	7,648
Golden Acres Genetics	Golden Acres	3960B	12.7	60.67	6,117
Advanta	Alta	XG3203	12.5	59.33	5,999
Terral Seed	REV	9782	13.3	60.67	5,998
B-H Genetics	B-H Genetics	BH 4100	14.0	60.00	5,933
Chromatin Inc.	Sorghum Partners	SP 7715	14.1	60.00	5,344
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.4	61.00	5,242
Chromatin Inc.	Sorghum Partners	SP 78M30	13.2	58.67	4,238

Agronomic Information

Plant Date	3/21/2017
Harvest Date	7/13/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	6
Seeds per Acre	75,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	45.13
Soil Type	Laewest clay
SCA Sprayed	No
SCA Rating	2
Herbicide Insecticides	

Mean	13.28	60.08	5,815
C.V. (%)	3.000	1.000	18.790
L.S.D.	0.73	0.96	
Pr>F (hybrid)	0.005	0.002	0.081

Cooperator:

Agent: Geri Kline - Stephen Biles

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Fort Bend County Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 51-01	12.8	59.67	7,306
Chromatin Inc.	Sorghum Partners	SP 7715	12.8	59.00	7,122
B-H Genetics	B-H Genetics	BH 4100	13.6	57.00	6,833
Advanta	Alta	XG3203	12.3	58.67	6,827
Terral Seed	REV	9782	12.7	58.00	6,745
Golden Acres Genetics	Golden Acres	3960B	12.2	58.33	6,743
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.0	58.33	6,543
Warner Seeds Inc.	Warner Seed	W-7051	12.9	58.33	6,535
Warner Seeds Inc.	Warner Seed	W-844E	12.4	58.33	6,498
Chromatin Inc.	Sorghum Partners	SP 78M30	11.3	58.33	6,458

Agronomic Information

Plant Date	3/22/2017
Harvest Date	7/20/2017
Irrigated	Yes
Row Spacing (in)	36
Number of Rows	6
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	72.64
Soil Type	Bernard-Edna complex
SCA Sprayed	Yes
SCA Rating	3
Herbicide Insecticides	Sprayed Aphids June 8, Sprayed worms/stinkbugs approximately June 26

Mean	12.61	58.40	6,761
C.V. (%)	6.000	1.000	3.500
L.S.D.			406.3
Pr>F (hybrid)	0.141	0.085	0.005

Cooperator: Alan and Lisa Stasney

Agent: John Gordy

Other Agronomic Info

Irrigated once around June 15

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

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- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Fort Bend County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
Advanta	Alta	XG3203	No	69			67,276
B-H Genetics	B-H Genetics	BH 4100	Yes	66			64,372
Chromatin Inc.	Sorghum Part	SP 7715	Yes	66			59,048
Chromatin Inc.	Sorghum Part	SP 78M30	Yes	69			69,696
CPS Dyna-Gro	Dyna-Gro	M74GB17	Yes	69			47,432
Golden Acres Genetics	Golden Acres	3960B	Yes	66			65,824
Monsanto	Dekalb	DKS 51-01	No	71			68,244
Terral Seed	REV	9782	No	71			61,952
Warner Seeds Inc.	Warner Seed	W-7051	Yes	71			58,564
Warner Seeds Inc.	Warner Seed	W-844E	Yes	66			62,436
Trial Mean				68			62,484

Wharton

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 51-01	14.3	60.17	7,971
Chromatin Inc.	Sorghum Partners	SP 7715	14.1	60.33	7,644
CPS Dyna-Gro	Dyna-Gro	M74GB17	14.3	59.50	7,627
Advanta	Alta	XG3203	13.8	59.50	7,606
Golden Acres Genetics	Golden Acres	3960B	13.5	59.83	7,483
B-H Genetics	B-H Genetics	BH 4100	13.6	60.00	7,471
Terral Seed	REV	9782	14.4	60.17	7,437
Dupont	Pioneer	83P56	13.9	59.33	7,346
CPS Dyna-Gro	Dyna-Gro	GX16535	13.7	60.83	7,325
Chromatin Inc.	Sorghum Partners	SP 78M30	13.8	59.50	7,217

Agronomic Information

Plant Date	3/22/2017
Harvest Date	7/11/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	6
Seeds per Acre	77,000
Nitrogen (lb N/ac)	126
Phosphorus (lb P2O5/ac)	20
Potassium (lb K2O/ac)	10
Precipitation (inches)	70.84
Soil Type	Lake Charles clay
SCA Sprayed	No
SCA Rating	2
Herbicide	10 oz/ acre Verdict; 5 oz/acre Outlook
Insecticides	

Mean	13.94	59.92	7,513
C.V. (%)	3.000	1.000	1.600
L.S.D.		0.77	206.1
Pr>F (hybrid)	0.057	0.014	0.000

Cooperator: Duane Lutringer

Agent: Corrie Bowen

Other Agronomic Info

5 lbs/acre S; 2.5 lbs/acre Zn

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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 ronschnell@tamu.edu
 979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

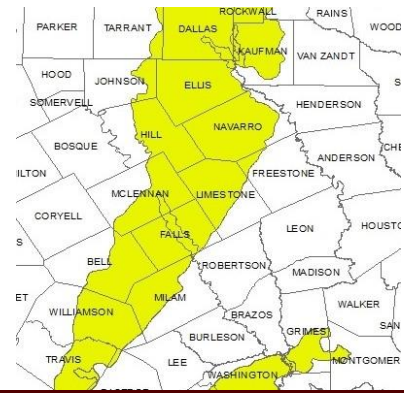
Wharton County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
Advanta	Alta	XG3203	No				78,844
B-H Genetics	B-H Genetics	BH 4100	Yes				83,635
Chromatin Inc.	Sorghum Part	SP 7715	Yes				79,933
Chromatin Inc.	Sorghum Part	SP 78M30	Yes				74,488
CPS Dyna-Gro	Dyna-Gro	GX16535	No				69,043
CPS Dyna-Gro	Dyna-Gro	M74GB17	Yes				72,527
Dupont	Pioneer	83P56	Yes				77,101
Golden Acres Genetics	Golden Acres	3960B	Yes				76,448
Monsanto	Dekalb	DKS 51-01	No				81,675
Terral Seed	REV	9782	No				66,211
		Trial Mean					75,990

2017 Grain Sorghum Blacklands Regional Summary



Company	Brand	Hybrid	Moisture (%)	Test Weight (lb/bu)	Yield (lb/acre)
B-H Genetics	B-H Genetics	BH 4100	13.2	60.2	5,087
Golden Acres Genetics	Golden Acres	3960B	13.3	60.3	5,079
Monsanto	Dekalb	DKS 53-53	12.9	57.7	5,028
Terral Seed	REV	9782	12.9	59.5	4,891
Chromatin Inc.	Sorghum Partners	SP 7715	13.1	60.2	4,791
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.0	59.2	4,733
Chromatin Inc.	Sorghum Partners	SP 73B12	12.8	60.7	
Advanta	Alta	XG3203	13.1	60.6	

Hybrid (Pr>F)	0.592
Location (Pr>F)	0.002
Hybrid*Location (Pr>F)	0.618

Yield is presented as the least square mean, which is an estimate from a linear model. The model (Proc Mixed, SAS 9.3) adjusts means for fixed and random affects in the model, including hybrid (f) location (f) and rep (r), to provide better estimates of yield for each hybrid in the regional trial. Yield is not estimated when location data is missing. Yields highlighted in yellow are not significantly different than the top ranked hybrid (Tukeys p=0.05). If no yields are highlighted, refer to individual locations for evaluation of hybrid performance. SCA tolerant hybrids highlighted in green.

Falls County Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Dupont	Pioneer	84P80	13.9	60.33	6,970
Dupont	Pioneer	83P56	13.8	60.00	7,305
Dupont	Pioneer	84G62	14.2	60.67	6,553
B-H Genetics	B-H Genetics	BH 4100	14.0	59.00	6,422
CPS Dyna-Gro	Dyna-Gro	M74GB17	14.4	60.00	6,338
Golden Acres Genetics	Golden Acres	4980B	14.0	58.00	6,291
Terral Seed	REV	9782	15.2	59.00	6,154
Chromatin Inc.	Sorghum Partners	SP 7715	15.0	61.00	6,059
Chromatin Inc.	Sorghum Partners	SP 73B12	15.9	58.00	5,939
Advanta	Alta	XG3203	14.0	58.00	5,714

Agronomic Information

Plant Date	3/21/2017
Harvest Date	7/25/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	24
Seeds per Acre	80,000
Nitrogen (lb N/ac)	140
Phosphorus (lb P2O5/ac)	0
Potassium (lb K2O/ac)	0
Precipitation (inches)	28.24
Soil Type	Burleson clay
SCA Sprayed	No
SCA Rating	1
Herbicide	
Insecticides	

Mean	14.44	59.40	6,382
C.V. (%)	1.000	2.000	5.880
L.S.D.	0.71		
Pr>F (hybrid)	0.026	0.594	0.478

Cooperator: Larry Hoelscher Sr.

Agent: Pasquale Swaner

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Hill County Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Dupont	Pioneer	83P56	13.4	60.27	6,053
Golden Acres Genetics	Golden Acres	3960B	13.2	60.57	6,010
Chromatin Inc.	Sorghum Partners	SP 73B12	12.8	60.70	5,979
Monsanto	Dekalb	DKS 53-53	12.7	59.43	5,975
Chromatin Inc.	Sorghum Partners	SP 7715	12.4	60.80	5,950
B-H Genetics	B-H Genetics	BH 4100	13.4	60.47	5,851
Terral Seed	REV	9782	12.3	59.73	5,803
CPS Dyna-Gro	Dyna-Gro	M74GB17	12.6	60.33	5,773
Advanta	Alta	XG3203	13.1	60.63	5,693

Agronomic Information

Plant Date	3/21/2017
Harvest Date	7/27/2017
Irrigated	No
Row Spacing (in)	30
Number of Rows	8
Seeds per Acre	70,000
Nitrogen (lb N/ac)	120
Phosphorus (lb P2O5/ac)	16
Potassium (lb K2O/ac)	1
Precipitation (inches)	35.26
Soil Type	Houston Black clay
SCA Sprayed	No
SCA Rating	2
Herbicide Insecticides	

Mean	12.87	60.33	5,898
C.V. (%)	5.000	2.000	6.670
L.S.D.			
Pr>F (hybrid)	0.441	0.642	0.959

Cooperator: Chad Kaska

Agent: Zach Davis

Other Agronomic Info

145 lbs Anhydrous pre plant, 1.5 gallons 5-15-5-1.5z and 3 gallons 11-37-0 at planting

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
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- 5- Large SCA colonies common (>300 per leaf)

Milam County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
B-H Genetics	B-H Genetics	BH 4100	12.9	60.00	4,323
Golden Acres Genetics	Golden Acres	3960B	13.4	60.00	4,148
Monsanto	Dekalb	DKS 53-53	13.2	56.00	4,081
Terral Seed	REV	9782	13.4	59.33	3,979
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.3	58.00	3,694
Chromatin Inc.	Sorghum Partners	SP 7715	13.8	59.67	3,631

Agronomic Information

Plant Date

Harvest Date

Irrigated

Row Spacing (in)

Number of Rows

Seeds per Acre

Nitrogen (lb N/ac)

Phosphorus (lb P2O5/ac)

Potassium (lb K2O/ac)

Precipitation (inches)

Soil Type

SCA Sprayed

SCA Rating

Herbicide
 Insecticides

Mean	<input type="text" value="13.33"/>	<input type="text" value="58.83"/>	<input type="text" value="3,976"/>
C.V. (%)	<input type="text" value="4.000"/>	<input type="text" value="4.000"/>	<input type="text" value="8.820"/>
L.S.D.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pr>F (hybrid)	<input type="text" value="0.483"/>	<input type="text" value="0.280"/>	<input type="text" value="0.210"/>

Cooperator:

Agent:

Other Agronomic Info

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:

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Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

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- 2 – SCA present below minimum threshold (<50 per leaf)
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- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

2017 Grain Sorghum Concho Valley/Rolling Plains Regional Summary

Company	Brand	Hybrid	Moisture (%)	Test Weight (lb/bu)	Yield (lb/acre)
Dupont	Pioneer	86G32	12.7	57.8	2,760
B-H Genetics	B-H Genetics	BH 3616	12.3	56.7	2,427
Chromatin Inc.	Sorghum Partners	SP 7715	13.7	58.3	2,403
Dupont	Pioneer	85G01	12.4	58.1	2,291
Chromatin Inc.	Sorghum Partners	SP 73B12	14.2	57.7	2,247
Monsanto	Dekalb	DKS 37-07	12.0	58.4	
Monsanto	Dekalb	DKS 45-23	14.3	56.6	
Monsanto	Dekalb	DKS 45-43	12.2	56.8	

Hybrid (Pr>F)	0.002
Location (Pr>F)	0.100
Hybrid*Location (Pr>F)	0.108

Yield is presented as the least square mean, which is an estimate from a linear model. The model (Proc Mixed, SAS 9.3) adjusts means for fixed and random affects in the model, including hybrid (f) location (f) and rep (r), to provide better estimates of yield for each hybrid in the regional trial. Yield is not estimated when location data is missing. Yields highlighted in yellow are not significantly different than the top ranked hybrid (Tukeys p=0.05). If no yields are highlighted, refer to individual locations for evaluation of hybrid performance. SCA tolerant hybrids highlighted in green.

Glasscock

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Dupont	Pioneer	86G32	13.4	58.10	2,841
Monsanto	Dekalb	DKS 37-07	13.1	59.10	2,730
B-H Genetics	B-H Genetics	BH 3616	12.6	56.70	2,444
Monsanto	Dekalb	DKS 45-43	13.1	55.23	2,230
Chromatin Inc.	Sorghum Partners	SP 7715	14.2	58.80	2,183
Chromatin Inc.	Sorghum Partners	SP 73B12	14.3	57.87	1,974
Dupont	Pioneer	85G01	12.7	56.90	1,937

Agronomic Information

Plant Date	4/11/2017
Harvest Date	8/28/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	8
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	21.78
Soil Type	Reagan silty clay loam
SCA Sprayed	No
SCA Rating	3
Herbicide	
Insecticides	

Mean	13.33	57.53	2,334
C.V. (%)	3.000	1.000	15.240
L.S.D.	0.61	1.53	
Pr>F (hybrid)	0.000	0.002	0.052

Cooperator: Michael & Allen Fuchs

Agent: Brad Easterling & Cody Trimble

Other Agronomic Info

Good early season moisture, turned dry late

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
 Dr. Ronnie Schnell
 ronschnell@tamu.edu
 979-845-2935

Sugarcane Aphid (SCA) Site Assessment

* Tolerant Hybrids Bold Green Print

- 1 – no SCA present
- 2 – SCA present below minimum threshold (<50 per leaf)
- 3 – SCA below maximum threshold (<125 per leaf)
- 4- SCA above maximum threshold (>125 per leaf)
- 5- Large SCA colonies common (>300 per leaf)

Glasscock County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
B-H Genetics	B-H Genetics	BH 3616	Yes				20,909
Chromatin Inc.	Sorghum Part	SP 73B12	Yes				19,166
Chromatin Inc.	Sorghum Part	SP 7715	Yes				20,473
Dupont	Pioneer	85G01	No				20,909
Dupont	Pioneer	86G32	No				20,909
Monsanto	Dekalb	DKS 37-07	Yes				20,038
Monsanto	Dekalb	DKS 45-43	No				20,038
		Trial Mean					20,349

Reagan

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Dupont	Pioneer	86G32	10.8	58.07	3,037
Monsanto	Dekalb	DKS 37-07	10.9	57.70	3,012
B-H Genetics	B-H Genetics	BH 3616	10.5	57.70	2,919
Monsanto	Dekalb	DKS 45-43	11.2	58.27	2,845
Chromatin Inc.	Sorghum Partners	SP 73B12	11.4	58.20	2,675
Chromatin Inc.	Sorghum Partners	SP 7715	11.3	58.80	2,635
Dupont	Pioneer	85G01	10.9	58.93	2,609

Agronomic Information

Plant Date

Harvest Date

Irrigated

Row Spacing (in)

Number of Rows

Seeds per Acre

Nitrogen (lb N/ac)

Phosphorus (lb P2O5/ac)

Potassium (lb K2O/ac)

Precipitation (inches)

Soil Type

SCA Sprayed

SCA Rating

Herbicide

Insecticides

Mean	11.00	58.24	2,819
C.V. (%)	6.000	2.000	8.120
L.S.D.			
Pr>F (hybrid)	0.686	0.725	0.172

Cooperator:

Agent:

Other Agronomic Info

Good moisture, crop followed alfalfa, planting conditions were not ideal

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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Reagan County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
B-H Genetics	B-H Genetics	BH 3616	Yes				35,719
Chromatin Inc.	Sorghum Part	SP 73B12	Yes				35,284
Chromatin Inc.	Sorghum Part	SP 7715	Yes				37,026
Dupont	Pioneer	85G01	No				36,155
Dupont	Pioneer	86G32	No				36,590
Monsanto	Dekalb	DKS 37-07	Yes				36,155
Monsanto	Dekalb	DKS 45-43	No				35,284
		Trial Mean					36,030

Tom Green

County

Grain Sorghum Hybrid Trial 2017



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 45-23	14.3	56.57	2,503
Monsanto	Dekalb	DKS 51-01	14.1	57.27	2,484
CPS Dyna-Gro	Dyna-Gro	627	14.3	56.50	2,432
Monsanto	Dekalb	DKS 38-16	13.8	59.63	2,428
Golden Acres Genetics	Golden Acres	5613	13.8	56.37	2,428
Dupont	Pioneer	86G32	13.9	57.27	2,401
Chromatin Inc.	Sorghum Partners	SP 7715	15.6	57.17	2,390
Dupont	Pioneer	85G01	13.7	58.53	2,326
Chromatin Inc.	Sorghum Partners	SP 73B12	17.0	57.03	2,092
B-H Genetics	B-H Genetics	BH 3616	13.8	55.57	1,917
Terral Seed	REV	9562	14.1	57.80	1,833

Agronomic Information

Plant Date	4/10/2017
Harvest Date	8/14/2017
Irrigated	No
Row Spacing (in)	40
Number of Rows	8
Seeds per Acre	45,000
Nitrogen (lb N/ac)	42
Phosphorus (lb P2O5/ac)	0
Potassium (lb K2O/ac)	0
Precipitation (inches)	19.69
Soil Type	Angelo clay loam
SCA Sprayed	Yes
SCA Rating	4
Herbicide Insecticides	1 oz. Transform WG/acre on 7-28-17

Mean	14.38	57.25	2,294
C.V. (%)	4.000	3.000	7.880
L.S.D.	0.92		307.9
Pr>F (hybrid)	0.000	0.244	0.001

Cooperator: Jeffery Schwartz

Agent: Josh Blaneck

Other Agronomic Info

Empty box for other agronomic information.

Model : yield = hybrid + blk. LSD provided when hybrid significant at p < 0.05 (SAS 9.4). Yields highlighted in yellow are not statistically different from the top ranked hybrid. For additional information contact your local county extension agent or:
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Sugarcane Aphid (SCA) Site Assessment

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Tom Green County

Grain Sorghum Hybrid Trial 2017



Company	Brand	Hybrid	SCA Tolerant	Days to Mid Bloom	Mean SCA # per Leaf	Plant Height (in)	Plant Population
B-H Genetics	B-H Genetics	BH 3616	Yes	70			31,363
Chromatin Inc.	Sorghum Part	SP 73B12	Yes	74			30,056
Chromatin Inc.	Sorghum Part	SP 7715	Yes	80			30,056
CPS Dyna-Gro	Dyna-Gro	627	No	74			27,443
Dupont	Pioneer	85G01	No	74			28,750
Dupont	Pioneer	86G32	No	68			31,363
Golden Acres Genetics	Golden Acres	5613	No	72			28,750
Monsanto	Dekalb	DKS 38-16	No	70			32,670
Monsanto	Dekalb	DKS 45-23	No	78			30,056
Monsanto	Dekalb	DKS 51-01	No	79			30,056
Terral Seed	REV	9562	No	78			30,056
Trial Mean				74			30,056

Produced by the Department of Soil and Crop Sciences

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