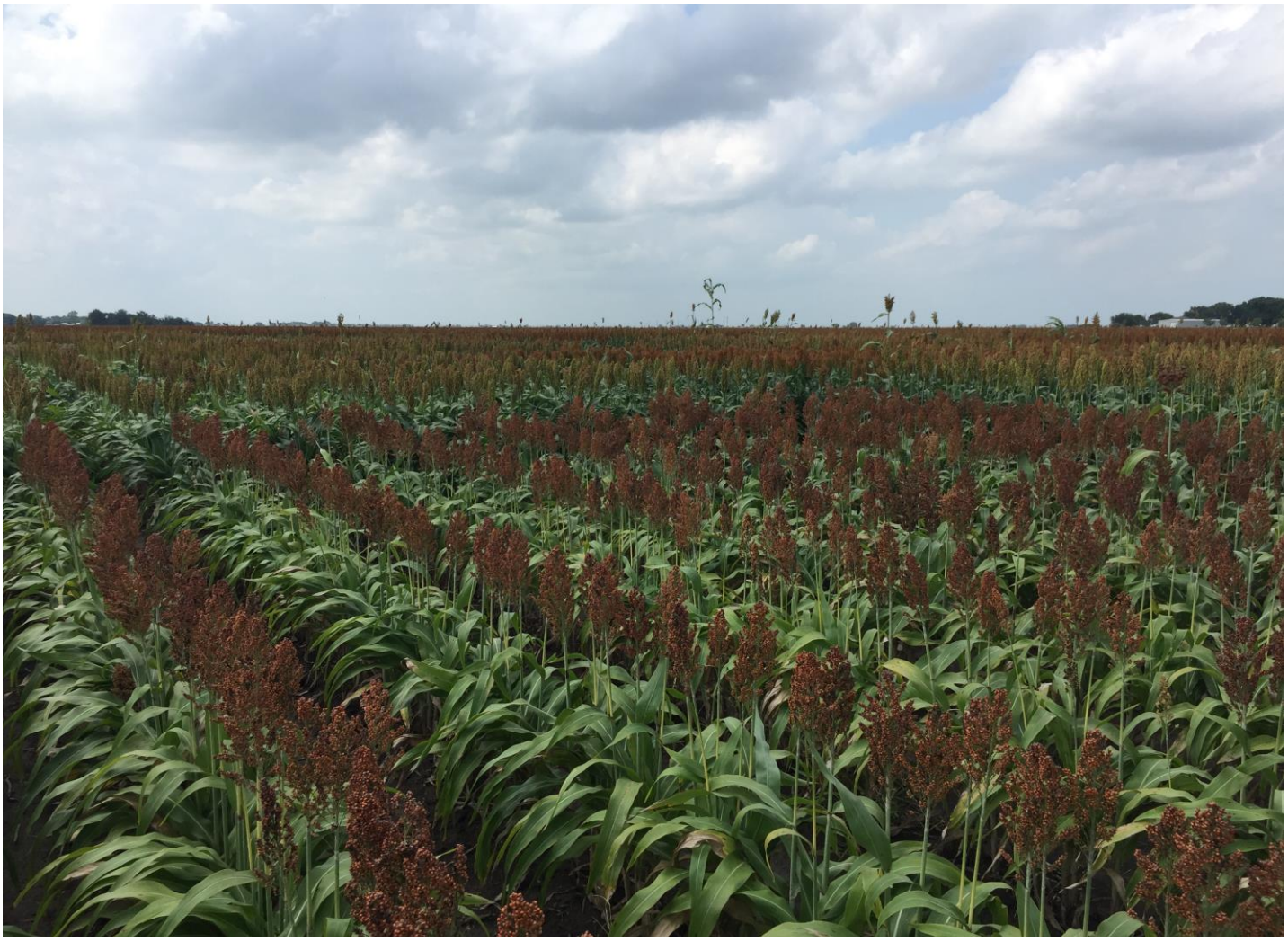
SCS-2018-20

TEXAS A&M AGRILIFE EXTENSION

2018 Texas A&M AgriLife Extension Grain Sorghum Hybrid Trial



Department of Soil and Crop Science Texas A&M AgriLife Extension

soilcrop.tamu.edu

2018 Texas A&M AgriLife Extension
Grain Sorghum Hybrid Trial

Dr. Ronnie Schnell
Dr. Josh McGinty
Stephen Biles

County Extension Agents

Bob McCool
Brad Cowan
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Enrique Perez
Floyd Ingram
Geri Kline - Stephen Biles
Jason Ott
John Gordy
Mike Hiller
Zach Davis

Cooperators

Alan and Lisa Stasney
Andrew Miller
Duane Lutringer
Faske
Jay Beckhusen
Kulak Farm
Ordner
Stephen Biles
Tim McDaniel

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.

Performance trials are conducted by cooperative arrangements between growers, company representatives and Texas AM 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.

Cameron County Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 45-23	12.8	56.33	5,117
CPS Dyna-Gro	Dyna-Gro	M74GB17	11.7	55.33	4,950
Advanta	Alta	AG3247	11.7	54.67	4,944
Chromatin Inc.	Sorghum Partners	SP 7715	12.6	55.33	4,914
Golden Acres Genetics	Golden Acres	3020B	13.3	55.33	4,712
Chromatin Inc.	Sorghum Partners	SP 68M57	12.6	55.67	4,441
Monsanto	Dekalb	DKS 38-16	12.3	54.33	4,263
Mean			12.43	55.29	4,763
C.V. (%)			8.000	4.000	16.100
L.S.D.					
Pr>F (hybrid)			0.450	0.938	0.806

Agronomic Information

Plant Date	3/2/2018
Harvest Date	7/5/2018
Irrigated	No
Row Spacing (in)	38
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	161
Phosphorus (lb P2O5/ac)	44
Potassium (lb K2O/ac)	3
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	1 irrigation, 42 gal/A 32-0-0, 5 gal/A 17-44-3

Cooperator:

Agent: Enrique Perez

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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Hidalgo County Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
CPS Dyna-Gro	Dyna-Gro	M74GB17	17.8	50.50	5,710
Chromatin Inc.	Sorghum Partners	SP 7715	18.8	52.00	5,652
Advanta	Alta	AG3247	19.4	46.50	4,279
Monsanto	Dekalb	DKS 45-23	16.3	54.00	4,087
Golden Acres Genetics	Golden Acres	3020B	17.6	49.00	3,732
Chromatin Inc.	Sorghum Partners	SP 68M57	18.6	50.00	3,586
Monsanto	Dekalb	DKS 38-16	15.9	54.00	3,583
Mean			17.77	50.86	4,376
C.V. (%)			5.000	2.000	14.650
L.S.D.				2.10	
Pr>F (hybrid)			0.053	0.001	0.052

Agronomic Information

Plant Date	2/16/2018
Harvest Date	7/26/2018
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)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	

Cooperator: Tim McDaniel

Agent: Brad Cowan

Other Agronomic Info

Note: would not grade #2
Note: AL= Above Limit of moisture meter

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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Nueces County Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Golden Acres Genetics	Golden Acres	3020B	14.6	56.33	4,049
Monsanto	Dekalb	DKS 53-53	14.8	55.17	3,903
Dupont	Pioneer	83P27	15.1	56.00	3,776
Monsanto	Dekalb	DKS 38-16	13.7	58.33	3,626
Chromatin Inc.	Sorghum Partners	SP 68M57	14.4	56.33	3,577
Chromatin Inc.	Sorghum Partners	SP 7715	14.8	57.33	3,486
CPS Dyna-Gro	Dyna-Gro	M74GB17	15.5	56.33	3,416
Dupont	Pioneer	83P73	14.6	55.50	3,091
Advanta	Alta	AG3247	14.9	57.33	1,393

Nueces County Grain Sorghum Hybrid Trial 2018

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Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/2/2018
Harvest Date	6/30/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	84
Phosphorus (lb P2O5/ac)	28
Potassium (lb K2O/ac)	11
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	24oz Atrizine&12oz Outlook

Mean	14.70	56.52	3,368
C.V. (%)	5.000	1.000	5.100
L.S.D.		1.32	297.5
Pr>F (hybrid)	0.273	0.003	0.000

Cooperator: Ordner

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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Nueces County Grain Sorghum Hybrid Trial 2018

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Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 38-16	12.1	60.00	6,108
Chromatin Inc.	Sorghum Partners	SP 6929	12.4	58.67	6,092
Chromatin Inc.	Sorghum Partners	SP 7715	12.0	57.00	6,044
Monsanto	Dekalb	DKS 53-53	12.0	59.00	6,029
CPS Dyna-Gro	Dyna-Gro	M74GB17	12.3	56.00	5,992
Chromatin Inc.	Sorghum Partners	SP 78M30	12.2	57.00	5,906
Chromatin Inc.	Sorghum Partners	SP 73B12	13.3	57.00	5,832
Golden Acres Genetics	Golden Acres	3020B	11.6	56.00	5,825
Monsanto	Dekalb	DKS 37-07	11.8	60.00	5,756
Golden Acres Genetics	Golden Acres	3960B	12.2	57.00	5,382
Advanta	Alta	AG1203	12.3	56.00	5,131
Advanta	Alta	AG3247	12.6	59.00	4,996

Nueces County Grain Sorghum Hybrid Trial 2018

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Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/18/2018
Harvest Date	
Irrigated	No
Row Spacing (in)	36
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	66
Phosphorus (lb P2O5/ac)	22
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	

Mean	12.24	57.72	5,758
C.V. (%)			
L.S.D.			
Pr>F (hybrid)			

Cooperator: Faske

Agent: Jason Ott

Other Agronomic Info

qt/A Zn, qt/A humate

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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San Patricio County Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 53-53	16.5	50.00	2,301
Golden Acres Genetics	Golden Acres	3020B	16.3	55.33	1,745
CPS Dyna-Gro	Dyna-Gro	M74GB17	16.7	52.00	1,501
Advanta	Alta	AG3247	17.0	53.00	1,467
Chromatin Inc.	Sorghum Partners	SP 7715	18.3	54.00	1,466
Dupont	Pioneer	83P27	19.1	53.67	1,417
Monsanto	Dekalb	DKS 37-07	16.2	56.33	1,370
Chromatin Inc.	Sorghum Partners	SP 68M57	16.0	56.33	1,303
Advanta	Alta	AG1203	16.8	53.67	1,224
Monsanto	Dekalb	DKS 38-16	16.3	57.33	982

San Patricio County

Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/12/2018
Harvest Date	7/19/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	52,500
Nitrogen (lb N/ac)	98
Phosphorus (lb P2O5/ac)	14
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	11.5oz. Outlook; 16oz. Atrazine; 32oz. Glyphosate

Mean	16.91	54.17	1,478
C.V. (%)	5.000	5.000	40.420
L.S.D.	1.57		
Pr>F (hybrid)	0.011	0.102	0.452

Cooperator: Andrew Miller

Agent: Bob McCool

Other Agronomic Info

Dry conditions prevailed throughtout the growing season, and lodging was an issue throughout the test

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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Calhoun County Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Golden Acres Genetics	Golden Acres	3020B			
Advanta	Alta	AG3247			
Monsanto	Dekalb	DKS 38-16			
Monsanto	Dekalb	DKS 53-53			
CPS Dyna-Gro	Dyna-Gro	M74GB17			
Chromatin Inc.	Sorghum Partners	SP 7715			
Chromatin Inc.	Sorghum Partners	SP 78M30			

Mean			
C.V. (%)			
L.S.D.			
Pr>F (hybrid)			

Agronomic Information

Plant Date	
Harvest Date	
Irrigated	No
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	No
Herbicde Insecticides	

Cooperator: Stephen Biles

Agent: Geri Kline - Stephen Biles

Other Agronomic Info

Excessive midge damage. Data not reported.

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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Fort Bend County Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 38-16	11.0	58.00	6,708
Monsanto	Dekalb	DKS 53-53	11.3	56.00	5,988
Chromatin Inc.	Sorghum Partners	SP 7715	11.0	55.00	5,829
Golden Acres Genetics	Golden Acres	3020B	11.0	55.33	5,786
Advanta	Alta	AG3247	10.2	55.67	5,485
CPS Dyna-Gro	Dyna-Gro	M74GB17	11.0	56.00	5,439
Chromatin Inc.	Sorghum Partners	SP 78M30	10.3	55.33	4,933
Warner Seeds Inc.	Warner Seed	W-625Y	10.5	55.67	4,852

Fort Bend
County
Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/12/2018
Harvest Date	7/27/2018
Irrigated	No
Row Spacing (in)	36
Number of Rows	12
Seeds per Acre	70,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	

Mean	10.80	55.88	5,628
C.V. (%)	5.000	1.000	4.190
L.S.D.		1.32	413.4
Pr>F (hybrid)	0.149	0.008	0.000

Cooperator: Alan and Lisa Stasney

Agent: John Gordy

Other Agronomic Info

n/a - low-no sca pressure, Furrow irrigated at mid-bloom

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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Jackson County
Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 38-16	14.8	59.83	4,747
Golden Acres Genetics	Golden Acres	3020B	14.6	58.50	4,571
Monsanto	Dekalb	DKS 53-53	14.6	58.83	4,304
Chromatin Inc.	Sorghum Partners	SP 7715	14.6	58.17	4,024
CPS Dyna-Gro	Dyna-Gro	M74GB17	15.1	58.33	3,823
Chromatin Inc.	Sorghum Partners	SP 78M30	14.8	57.50	3,689
Advanta	Alta	AG3247	14.4	57.83	2,980
Mean			14.71	58.43	4,020
C.V. (%)			2.000	1.000	7.980
L.S.D.				0.71	570.4
Pr>F (hybrid)			0.056	0.000	0.000

Agronomic Information

Plant Date	3/3/2018
Harvest Date	7/24/2018
Irrigated	No
Row Spacing (in)	38
Number of Rows	6
Seeds per Acre	65,000
Nitrogen (lb N/ac)	125
Phosphorus (lb P2O5/ac)	25
Potassium (lb K2O/ac)	10
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde	1 pint RoundUp, 3 pints
Insecticides	Sequence

Cooperator: Kulak Farm

Agent: Mike Hiller

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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Wharton County Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 38-16	13.9	59.67	5,791
Dupont	Pioneer	83P27	14.1	56.83	5,567
Monsanto	Dekalb	DKS 53-53	13.8	58.00	5,449
Golden Acres Genetics	Golden Acres	3020B	13.6	57.50	5,449
Chromatin Inc.	Sorghum Partners	SP 7715	14.5	57.50	5,104
Chromatin Inc.	Sorghum Partners	SP 78M30	13.4	56.50	4,712
CPS Dyna-Gro	Dyna-Gro	M74GB17	13.5	58.00	4,694
Advanta	Alta	AG3247	13.2	56.67	4,140

Wharton
County
Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/12/2018
Harvest Date	7/16/2018
Irrigated	No
Row Spacing (in)	40
Number of Rows	6
Seeds per Acre	
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	

Mean	13.74	57.58	5,113
C.V. (%)	3.000	2.000	3.950
L.S.D.	0.61	1.58	353.6
Pr>F (hybrid)	0.013	0.016	0.000

Cooperator: Duane Lutringer

Agent: Corrie Bowen

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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Hill
County
Grain Sorghum Hybrid Trial 2018

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Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Golden Acres Genetics	Golden Acres	3020B	12.4	55.53	2,427
Monsanto	Dekalb	DKS 47-07	12.5	53.83	2,415
Dupont	Pioneer	83P56	12.5	58.10	2,371
Chromatin Inc.	Sorghum Partners	SP 68M57	12.6	55.83	2,333
Dupont	Pioneer	84P80	11.9	56.37	2,146
Chromatin Inc.	Sorghum Partners	SP 73B12	15.6	54.27	2,127
CPS Dyna-Gro	Dyna-Gro	M74GB17	12.5	57.30	2,098
Advanta	Alta	AG3247	11.7	57.17	1,878

Hill
County
Grain Sorghum Hybrid Trial 2018

TEXAS A&M AGRILIFE EXTENSION

Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	
Nitrogen (lb N/ac)	134
Phosphorus (lb P2O5/ac)	28
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde Insecticides	Roundup and Outlook pre-plant

Mean	12.72	56.05	2,224
C.V. (%)	2.000	3.000	5.150
L.S.D.	0.45		200.5
Pr>F (hybrid)	0.000	0.092	0.000

Cooperator:

Agent: Zach Davis

Other Agronomic Info

75 lb/A 82-0-0, 200 lb/A 32-0-0, 75 lb/A 11-37-0
previous crop cotton

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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Milam
County
Grain Sorghum Hybrid Trial 2018

Texas A&M AgriLife Extension

Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Monsanto	Dekalb	DKS 47-07	9.3	58.33	5,655
Golden Acres Genetics	Golden Acres	3020B	10.0	56.83	5,581
Chromatin Inc.	Sorghum Partners	SP 68M57	10.4	57.67	5,443
Chromatin Inc.	Sorghum Partners	SP 73B12	11.8	58.67	5,077
CPS Dyna-Gro	Dyna-Gro	M74GB17	10.0	60.33	5,035
Advanta	Alta	AG3247	11.4	60.00	4,568
Mean			10.46	58.64	5,227
C.V. (%)			10.000	3.000	2.750
L.S.D.					261.7
Pr>F (hybrid)			0.100	0.116	0.000

Agronomic Information

Plant Date	3/22/2018
Harvest Date	7/24/2018
Irrigated	No
Row Spacing (in)	30
Number of Rows	8
Seeds per Acre	80,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
SCA Sprayed	No
Herbicde	Warrant 2qt/A
Insecticides	Power-Max 1.5 pint/A

Cooperator: Jay Beckhusen

Agent: Floyd Ingram

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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