

**2019 Texas A&M AgriLife Extension
Grain Sorghum Hybrid Trial**



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

2019 Texas A&M AgriLife Extension Grain Sorghum Hybrid Trial

Dr. Ronnie Schnell
Dr. Josh McGinty
Stephen Biles

County Extension Agents

Bob McCool
Corrie Bowen
Derrick Banks
Floyd Ingram
Jason Ott
Marco Ponce, Danielle Sekula
Vidal Saenz, Danielle Sekula
Zach Davis

Cooperators

AgriLife Research Corpus Chri
Alan and Lisa Stasney
Andrew Miller Farms
Chuck McCutchen
Duane Lutringer
Heron Castillo
Jay Beckhusen
Ordener Farms
Rick Sullins

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 2019**



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Nutrien Ag Solutions	Dyna-Gro	M69GB38	14.6	58.33	5,573
Bayer	Dekalb	DKS 38-16	13.9	58.00	5,493
Nutrien Ag Solutions	Dyna-Gro	M74GB17	15.9	57.33	5,267
Advanta	Alta	AG2106	15.7	56.67	5,265
Bayer	Dekalb	DKS 54-07	14.8	58.33	5,206
Terral Seed	REV	9620	14.8	57.67	5,151
S&W Seeds	Sorghum Partners	SP 78M30	13.6	56.33	5,133
S&W Seeds	Sorghum Partners	SP 7715	14.6	57.33	5,078
Advanta	Alta	AG2275	15.8	57.00	4,956

Cameron County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/7/2019
Harvest Date	7/12/2019
Irrigated	No
Row Spacing (in)	40
Number of Rows	12
Seeds per Acre	125,000
Nitrogen (lb N/ac)	108
Phosphorus (lb P2O5/ac)	9
Potassium (lb K2O/ac)	9
Precipitation (inches)	
Soil Type	
Herbicide Insecticides	1 pint of Atrazine /acre at planting

Mean	14.87	57.44	5,236
C.V. (%)	4.000	2.000	3.250
L.S.D.	1.08		294.2
Pr>F (hybrid)	0.003	0.184	0.009

Cooperator: Chuck McCutchen

Agent: Marco Ponce, Danielle Sekula

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

Hidalgo County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Advanta	Alta	AG2106	15.9	55.67	3,045
Bayer	Dekalb	DKS 38-16	15.9	56.00	3,016
Terral Seed	REV	9620	15.8	54.67	2,102
Nutrien Ag Solutions	Dyna-Gro	M69GB38	15.9	53.67	1,984
S&W Seeds	Sorghum Partners	SP 7715	16.3	51.67	1,908
Bayer	Dekalb	DKS 54-07	16.6	53.00	1,788
Advanta	Alta	AG2275	17.7	49.00	1,729
S&W Seeds	Sorghum Partners	SP 78M30	16.5	50.00	1,648
Nutrien Ag Solutions	Dyna-Gro	M74GB17	17.1	54.67	1,162

Hidalgo County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/23/2019
Harvest Date	7/11/2019
Irrigated	No
Row Spacing (in)	40
Number of Rows	12
Seeds per Acre	182,000
Nitrogen (lb N/ac)	
Phosphorus (lb P2O5/ac)	
Potassium (lb K2O/ac)	
Precipitation (inches)	
Soil Type	
Herbicide	Sivanto at 4oz/acre
Insecticides	

Mean	16.41	53.15	2,042
C.V. (%)	6.000	5.000	21.340
L.S.D.			754.3
Pr>F (hybrid)	0.222	0.082	0.001

Cooperator: Heron Castillo

Agent: Vidal Saenz, Danielle Sekula

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 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Pioneer	Pioneer	83P27	13.1	59.00	7,347
Bayer	Dekalb	DKS 54-07	13.0	60.00	7,340
B-H Genetics	B-H Genetics	BH 4041	12.7	56.67	7,265
Bayer	Dekalb	DKS 38-16	13.0	59.67	7,184
Nutrien Ag Solutions	Dyna-Gro	M69GB38	13.0	58.67	7,088
Advanta	Alta	AG2106	13.1	58.33	7,081
Advanta	Alta	ADV2275	13.7	59.00	6,955
S&W Seeds	Sorghum Partners	SP 68M57	13.4	58.67	6,888
Pioneer	Pioneer	84P68	12.5	58.00	6,832
S&W Seeds	Sorghum Partners	SP 7715	13.5	60.33	6,816
Terral Seed	REV	9620	12.7	59.00	6,786
Nutrien Ag Solutions	Dyna-Gro	M74GB17	13.3	59.50	6,663
B-H Genetics	B-H Genetics	BH 3939	13.1	59.00	6,516

Nueces County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	2/25/2019
Harvest Date	
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	52,000
Nitrogen (lb N/ac)	95
Phosphorus (lb P2O5/ac)	19
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicide Insecticides	

Mean	13.08	58.91	6,982
C.V. (%)	3.000	1.000	3.920
L.S.D.		1.01	447.7
Pr>F (hybrid)	0.086	0.000	0.007

Cooperator: Ordener Farms

Agent: Jason Ott

Other Agronomic Info

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Nueces County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
B-H Genetics	B-H Genetics	BH 4041	14.4	55.05	7,331
Bayer	Dekalb	DKS 54-07	15.0	54.63	7,244
Bayer	Dekalb	DKS 38-16	14.5	58.73	6,953
Nutrien Ag Solutions	Dyna-Gro	M69GB38	15.5	56.65	6,615
Terral Seed	REV	9620	14.3	57.48	6,143
Advanta	Alta	AG2275	18.2	56.15	5,558
S&W Seeds	Sorghum Partners	SP 7715	15.1	58.73	5,277
S&W Seeds	Sorghum Partners	SP 68M57	15.5	56.50	5,241
S&W Seeds	Sorghum Partners	SP 78M30	15.2	55.88	5,182
Nutrien Ag Solutions	Dyna-Gro	M74GB17	15.0	57.80	5,011
B-H Genetics	B-H Genetics	BH 3939	14.8	58.63	4,445
Advanta	Alta	AG2106	14.5	56.25	3,925

Nueces County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/7/2019
Harvest Date	7/8/2019
Irrigated	No
Row Spacing (in)	38
Number of Rows	1
Seeds per Acre	60,000
Nitrogen (lb N/ac)	88
Phosphorus (lb P2O5/ac)	62
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicide	Dual Magnum 1.5 pt/A PRE
Insecticides	Lannate LV 24 oz/A 6/7/19

Mean	15.16	56.87	5,744
C.V. (%)	3.000	3.000	9.430
L.S.D.	0.66	2.11	779.1
Pr>F (hybrid)	0.000	0.002	0.000

Cooperator: AgriLife Research Corpus Christi

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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San Patricio County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Bayer	Dekalb	DKS 54-07	15.4	61.33	6,193
Nutrien Ag Solutions	Dyna-Gro	M69GB38	15.1	61.00	5,821
S&W Seeds	Sorghum Partners	SP 68M57	15.1	61.67	5,721
Bayer	Dekalb	DKS 38-16	15.4	60.33	5,426
Nutrien Ag Solutions	Dyna-Gro	M74GB17	15.4	60.67	5,314
B-H Genetics	B-H Genetics	BH 4041	14.7	59.67	5,270
S&W Seeds	Sorghum Partners	SP 7715	15.6	60.67	5,244
Pioneer	Pioneer	84P68	15.1	61.00	5,164
B-H Genetics	B-H Genetics	BH 3939	15.4	61.33	5,153
Advanta	Alta	AG2275	15.7	59.67	5,127
Terral Seed	REV	9620	15.3	60.67	5,025
Advanta	Alta	AG2106	15.0	60.67	4,703

San Patricio County

Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/11/2019
Harvest Date	7/16/2019
Irrigated	No
Row Spacing (in)	30
Number of Rows	8
Seeds per Acre	52,500
Nitrogen (lb N/ac)	84
Phosphorus (lb P2O5/ac)	12
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicide	9oz./ac Outlook, 32oz./ac
Insecticides	Atrazine, .3oz./ ac Peak

Mean	15.26	60.72	5,347
C.V. (%)	1.000	1.000	6.070
L.S.D.	0.38		549.5
Pr>F (hybrid)	0.001	0.074	0.001

Cooperator: Andrew Miller Farms

Agent: Bob McCool

Other Agronomic Info

1gal/30 Lambda

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 2019**



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Bayer	Dekalb	DKS 38-16	12.8	59.90	6,481
Advanta	Alta	AG2106	11.9	57.00	6,198
Bayer	Dekalb	DKS 54-07	12.7	59.70	6,021
S&W Seeds	Sorghum Partners	SP 7715	14.1	60.60	5,763
Terral Seed	REV	9620	13.5	57.30	5,703
Nutrien Ag Solutions	Dyna-Gro	M69GB38	13.2	59.60	5,680
S&W Seeds	Sorghum Partners	SP 78M30	13.2	56.80	5,579
Nutrien Ag Solutions	Dyna-Gro	M74GB17	13.6	56.30	5,380
Advanta	Alta	AG2275	13.7	57.50	5,088

Fort Bend County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	<input type="text"/>
Harvest Date	<input type="text" value="8/9/2019"/>
Irrigated	<input type="text" value="No"/>
Row Spacing (in)	<input type="text" value="36"/>
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"/>
Soil Type	<input type="text"/>
Herbicide Insecticides	<input type="text"/>

Mean	<input type="text" value="13.19"/>	<input type="text" value="58.30"/>	<input type="text" value="5,766"/>
C.V. (%)	<input type="text" value="0.000"/>	<input type="text"/>	<input type="text" value="3.260"/>
L.S.D.	<input type="text" value="0.00"/>	<input type="text"/>	<input type="text" value="325.7"/>
Pr>F (hybrid)	<input type="text" value="0.000"/>	<input type="text"/>	<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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**Victoria
County
Grain Sorghum Hybrid Trial 2019**



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Bayer	Dekalb	DKS 38-16	13.3	61.70	6,668
S&W Seeds	Sorghum Partners	SP 7715	14.4	60.27	6,392
Nutrien Ag Solutions	Dyna-Gro	M69GB38	12.8	59.60	6,363
Advanta	Alta	AG2106	12.6	60.40	6,252
Terral Seed	REV	9620	12.6	61.90	6,064
Bayer	Dekalb	DKS 54-07	14.6	61.03	5,900
S&W Seeds	Sorghum Partners	SP 78M30	14.1	58.40	5,586
Advanta	Alta	AG2275	16.6	59.67	5,512
Nutrien Ag Solutions	Dyna-Gro	M74GB17	14.7	58.60	5,052

**Victoria
County**

Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	<input type="text"/>
Harvest Date	<input type="text"/>
Irrigated	<input type="text" value="No"/>
Row Spacing (in)	<input type="text" value="40"/>
Number of Rows	<input type="text" value="1"/>
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"/>
Soil Type	<input type="text"/>
Herbicide Insecticides	<input type="text"/>

Mean	<input type="text" value="13.97"/>	<input type="text" value="60.17"/>	<input type="text" value="5,976"/>
C.V. (%)	<input type="text" value="7.000"/>	<input type="text" value="1.000"/>	<input type="text" value="6.010"/>
L.S.D.	<input type="text" value="1.59"/>	<input type="text" value="1.38"/>	<input type="text" value="622.2"/>
Pr>F (hybrid)	<input type="text" value="0.001"/>	<input type="text" value="0.000"/>	<input type="text" value="0.001"/>

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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Wharton County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Pioneer	Pioneer	83P27	14.4	61.17	6,628
Bayer	Dekalb	DKS 38-16	14.6	63.17	6,460
Nutrien Ag Solutions	Dyna-Gro	M69GB38	15.2	61.83	6,285
Bayer	Dekalb	DKS 54-07	14.2	61.83	6,206
S&W Seeds	Sorghum Partners	SP 7715	15.1	61.67	6,000
Terral Seed	REV	9620	13.7	61.83	5,723
Advanta	Alta	AG2106	13.9	60.83	5,642
Nutrien Ag Solutions	Dyna-Gro	M74GB17	15.1	60.83	5,590
S&W Seeds	Sorghum Partners	SP 78M30	14.4	59.83	5,238
Advanta	Alta	AG2275	17.9	58.50	4,938

Wharton County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/27/2019
Harvest Date	7/25/2019
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	
Herbicide	
Insecticides	

Mean	14.86	61.15	5,871
C.V. (%)	5.000	1.000	3.590
L.S.D.	1.19	1.48	361.6
Pr>F (hybrid)	0.000	0.000	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 2019**



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Bayer	Dekalb	DKS 53-53	11.4	60.33	5,920
Bayer	Dekalb	DKS 51-01	11.4	59.77	5,833
Terral Seed	REV	9620	11.2	60.50	5,607
Nutrien Ag Solutions	Dyna-Gro	M69GB38	11.5	59.17	5,565
Wilbur-Ellis	Integra	G3665	11.0	58.10	5,450
Advanta	Alta	AG2106	11.2	60.03	5,398
Advanta	Alta	ADV2275	12.0	58.70	5,063
Nutrien Ag Solutions	Dyna-Gro	M74GB17	12.2	58.63	4,308

Hill County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Agronomic Information	
Plant Date	3/28/2019
Harvest Date	8/13/2019
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	
Herbicide Insecticides	

Mean	11.48	59.40	5,393
C.V. (%)	2.000	2.000	8.370
L.S.D.	0.33	1.61	790.3
Pr>F (hybrid)	0.000	0.049	0.015

Cooperator: Rick Sullins

Agent: Zach Davis

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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Milam County Grain Sorghum Hybrid Trial 2019



Department of Soil and Crop Sciences

Company	Brand	Hybrid	Moisture %	Test Weight (lb/bu)	Yield (lbs/acre)
Nutrien Ag Solutions	Dyna-Gro	M69GB38	16.2	53.33	1,947
Terral Seed	REV	9620	16.8	51.00	1,910
Advanta	Alta	AG2275	16.6	54.23	1,908
Advanta	Alta	AG2106	16.3	51.50	1,787
Nutrien Ag Solutions	Dyna-Gro	M74GB17	17.9	52.00	1,721

Agronomic Information

Plant Date	3/26/2019
Harvest Date	8/13/2019
Irrigated	No
Row Spacing (in)	30
Number of Rows	8
Seeds per Acre	80,000
Nitrogen (lb N/ac)	119
Phosphorus (lb P2O5/ac)	30
Potassium (lb K2O/ac)	0
Precipitation (inches)	
Soil Type	
Herbicide Insecticides	Warrant 2 Qt. per acre & Round-up Power-Max 1.5 Pint per acre

Mean	16.76	52.41	1,854
C.V. (%)	8.000	5.000	9.200
L.S.D.			
Pr>F (hybrid)	0.553	0.508	0.482

Cooperator: Jay Beckhusen

Agent: Floyd Ingram

Other Agronomic Info

Previous crop cotton. 110 N Sidedress

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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