

## **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.

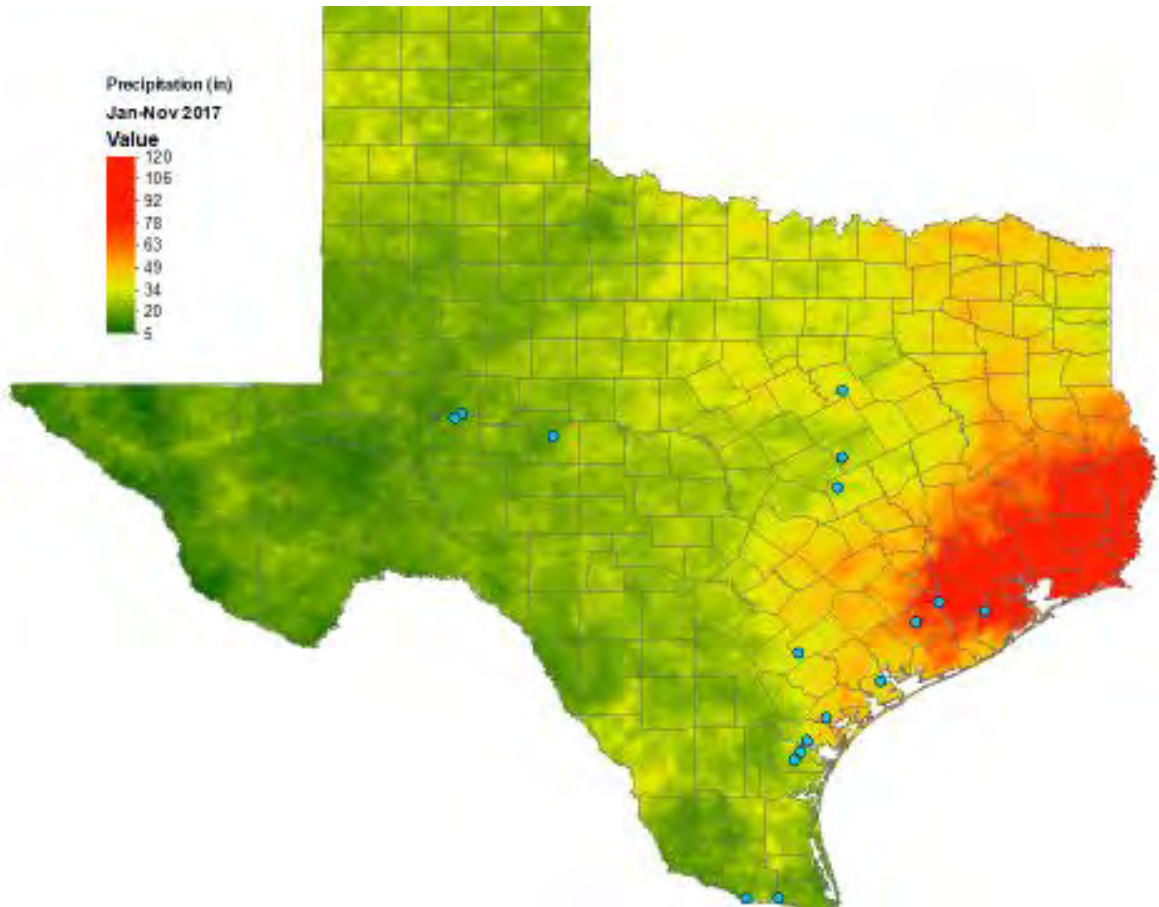
## **Data Analysis and Reporting**

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:**

| <b>Company</b>               | <b>Contact</b>  | <b>Phone</b> | <b>Email</b>               |
|------------------------------|-----------------|--------------|----------------------------|
| 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         | <b>M74GB17</b>  | 14.5         | 56.8                | 6,429           |
| Monsanto              | Dekalb           | DKS 53-53       | 14.2         | 58.2                | 6,360           |
| Golden Acres Genetics | Golden Acres     | <b>3960B</b>    | 14.1         | 57.8                | 6,176           |
| B-H Genetics          | B-H Genetics     | <b>BH 4100</b>  | 14.5         | 57.7                | 6,125           |
| Advanta               | Alta             | XG3203          | 14.4         | 57.3                | 5,343           |
| Chromatin Inc.        | Sorghum Partners | <b>SP 78M30</b> | 14.7         | 56.8                | 5,319           |
| Chromatin Inc.        | Sorghum Partners | <b>SP 7715</b>  | 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



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| 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     | <b>BH 4100</b>  | 15.0       | 58.67               | 6,110            |
| CPS Dyna-Gro          | Dyna-Gro         | <b>M74GB17</b>  | 15.6       | 57.67               | 6,052            |
| Advanta               | Alta             | XG3203          | 15.4       | 57.33               | 5,990            |
| Golden Acres Genetics | Golden Acres     | <b>3960B</b>    | 15.4       | 58.67               | 5,932            |
| Chromatin Inc.        | Sorghum Partners | <b>SP 7715</b>  | 15.8       | 58.33               | 5,541            |
| Anzu                  | Anzu             | AG 4333         | 15.5       | 58.67               | 5,417            |
| Chromatin Inc.        | Sorghum Partners | <b>SP 78M30</b> | 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



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| 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



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| 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     | <b>3960B</b>   | 14.1       | 61.83               | 3,718            |
| Advanta               | Alta             | XG3203         | 12.7       | 59.33               | 3,619            |
| CPS Dyna-Gro          | Dyna-Gro         | <b>M74GB17</b> | 14.1       | 60.67               | 3,561            |
| Chromatin Inc.        | Sorghum Partners | <b>SP 7715</b> | 13.7       | 61.00               | 3,509            |
| B-H Genetics          | B-H Genetics     | <b>BH 4100</b> | 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:  
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)

# Nueces

# County

# Grain Sorghum Hybrid Trial 2017



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

|               |       |       |        |
|---------------|-------|-------|--------|
| Mean          | 15.18 | 57.57 | 2,801  |
| C.V. (%)      | 3.000 | 2.000 | 12.840 |
| L.S.D.        |       |       |        |
| Pr>F (hybrid) | 0.596 | 0.355 | 0.151  |

Cooperator: AgriLife Research - CCAREC  
 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:  
 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)

# Nueces

# County

# Grain Sorghum Hybrid Trial 2017



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| 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:

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)

# 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           |
| <b>Trial Mean</b>     |              |           |              | <b>77</b>         |                     |                   | <b>54,853</b>    |

# 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              | 3/4/2017      |
| Harvest Date            | 7/5/2017      |
| 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)  | 46.48         |
| Soil Type               | Victoria clay |
| SCA Sprayed             | No            |
| SCA Rating              | 2             |
| Herbicide Insecticides  |               |

|               |       |       |       |
|---------------|-------|-------|-------|
| Mean          | 15.66 | 59.38 | 4,926 |
| C.V. (%)      | 2.000 | 2.000 | 2.450 |
| L.S.D.        | 0.57  |       | 215.0 |
| Pr>F (hybrid) | 0.003 | 0.068 | 0.000 |

Cooperator: Richard Niemann

Agent: Candace Moeller

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)



# 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:

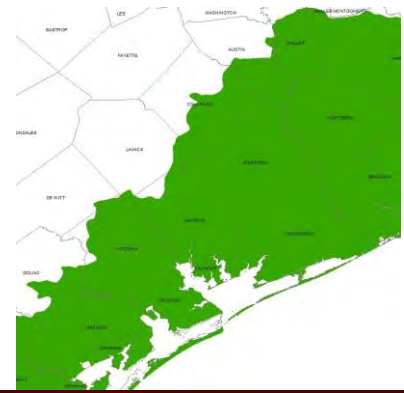
Dr. Ronnie Schnell  
ronschnell@tamu.edu  
979-845-2935

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:  
 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)

# 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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 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)
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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



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:  
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)

# 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           |
| <b>Trial Mean</b>     |              |           |              | <b>68</b>         |                     |                   | <b>62,484</b>    |

# 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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Sugarcane Aphid (SCA) Site Assessment  
 \* Tolerant Hybrids Bold Green Print  
 1 – no SCA present  
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 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           |
|                       |              | <b>Trial Mean</b> |              |                   |                     |                   | <b>75,990</b>    |



# 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:  
 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)

# 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<br>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:

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)

# 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     | <b>BH 4100</b> | 12.9       | 60.00               | 4,323            |
| Golden Acres Genetics | Golden Acres     | <b>3960B</b>   | 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         | <b>M74GB17</b> | 13.3       | 58.00               | 3,694            |
| Chromatin Inc.        | Sorghum Partners | <b>SP 7715</b> | 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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 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 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     | <b>BH 3616</b>   | 12.3         | 56.7                | 2,427           |
| Chromatin Inc. | Sorghum Partners | <b>SP 7715</b>   | 13.7         | 58.3                | 2,403           |
| Dupont         | Pioneer          | 85G01            | 12.4         | 58.1                | 2,291           |
| Chromatin Inc. | Sorghum Partners | <b>SP 73B12</b>  | 14.2         | 57.7                | 2,247           |
| Monsanto       | Dekalb           | <b>DKS 37-07</b> | 12.0         | 58.4                | 2,760           |
| Monsanto       | Dekalb           | DKS 45-23        | 14.3         | 56.6                | 2,427           |
| Monsanto       | Dekalb           | DKS 45-43        | 12.2         | 56.8                | 2,291           |

|                        |       |
|------------------------|-------|
| 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 (l) 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<br>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:  
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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)

# 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           |
|                |              | <b>Trial Mean</b> |              |                   |                     |                   | <b>20,349</b>    |

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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 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)



# 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           |
|                |              | <b>Trial Mean</b> |              |                   |                     |                   | <b>36,030</b>    |

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

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)

# 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           |
| <b>Trial Mean</b>     |              |           |              | <b>74</b>         |                     |                   | <b>30,056</b>    |

Produced by the Department of Soil and Crop Sciences

[soilcrop.tamu.edu](http://soilcrop.tamu.edu)

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TEXAS A&M AgriLife Extension Service

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The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating