

**2017 REPLICATED AGRONOMIC COTTON
EVALUATION (RACE) SOUTH, EAST AND
CENTRAL REGIONS OF TEXAS**



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REPLICATED AGRONOMIC COTTON EVALUATION (RACE)

SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2017

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Appreciation is expressed to the cooperators that provided their land, equipment and time in assisting with prepping, planting, managing and harvesting of these plots throughout the year. All cooperators are listed in Table 1. In addition, we would like to extend our appreciation to **Cotton Incorporated** through the **Texas State Support Committee, Americot/NexGen, Bayer CropScience, Croplan Genetics, Delta Pine, Dyna-Gro, and Phytogen** for their partial funding of these trials.

2017 HIGHLIGHTS

Variety selection is the most important decision made during the year. Unlike herbicide or insecticide decisions that can be changed during the season to address specific conditions and pests, variety selection is made only once, and variety selection dictates the management of a field for the entire season. Variety decisions should be based on genetics first and transgenic technology second. Attention should be focused on agronomic characteristics such as yield, maturity, and fiber quality when selecting varieties. Figure 1 illustrates the cotton production regions of Texas.

From the latest data available, transgenic varieties accounted for 99% of the state acreage again in 2017. According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2017 Crop” survey, the estimated percentage of upland cotton planted to specific Brands in Texas are as follows: Alltex/DynaGro had 10%, Americot/NexGen had 40%, Bayer CropScience – FiberMax had 15%, Bayer CropScience – Stoneville had 2%, Croplan Genetics had 1%, Delta Pine had 20%, and Phytogen had 11%. In Texas, 63% was planted in XtendFlex varieties and 3% was planted in Enlist varieties.

To assist Texas cotton producers in remaining competitive in the Lower Rio Grande Valley, Blacklands, South Texas/Wintergarden, and Upper Coastal regions (Figure 2), the Texas A&M AgriLife Extension Service-Cotton Agronomy program has been conducting, large plot, on-farm, replicated variety trials for the past eleven years. This approach provides a good foundation of information that can be utilized to assist the variety selection process. These trials occur on producer’s farms and are managed by the producers.

Seventeen Replicated Agronomic Cotton Evaluation (RACE) Trials and three Monster Trials were harvested in 2017 with several lost or impacted by Hurricane Harvey. The harvested locations are listed in Table 1.

Yields across the Lower Rio Grande Valley and Coastal Bend of Texas were very good this season with good early season moisture and some timely rains during the season. Also, favorable weather

at harvest helped maintain yields, unlike in the Upper Gulf Coast and Southern Blacklands Regions where some are received heavy rainfall as harvest approached. In the Upper Gulf Coast higher than average yields were expected, but yield and fiber quality were significantly impacted by Hurricane Harvey. In the Southern Blacklands, low yields were primarily due to erratic rainfall during the season, but Hurricane Harvey negatively impacted harvestable lint and fiber quality. Prior to coming ashore late on August 25, just north of Corpus Christi, through September 1, Hurricane Harvey caused various degrees of damage to the cotton crop as a result of wind, rain and flood waters. Cotton harvest was wrapping up in the lower coastal bend but was in full swing further north along the middle and upper coastal bend regions of the state. Cotton losses varied greatly across several regions due to damaged/destroyed modules of cotton, floodwaters that soaked modules, and excess wind, rain and flood waters on cotton yet to be harvested. Areas to the west and north of the areas hit by Harvey were impacted to a lesser extent.

Mean non-irrigated locations yields for the 2017 RACE Trials ranged from a high of 1981 lbs/ac for the Nueces Co – Massey location to 761 lbs/ac for the Williamson Co location. Mean irrigated location yields ranged from 2369 lbs/ac for the Median Co location to 753 lbs/ac for the Burleson Co location.

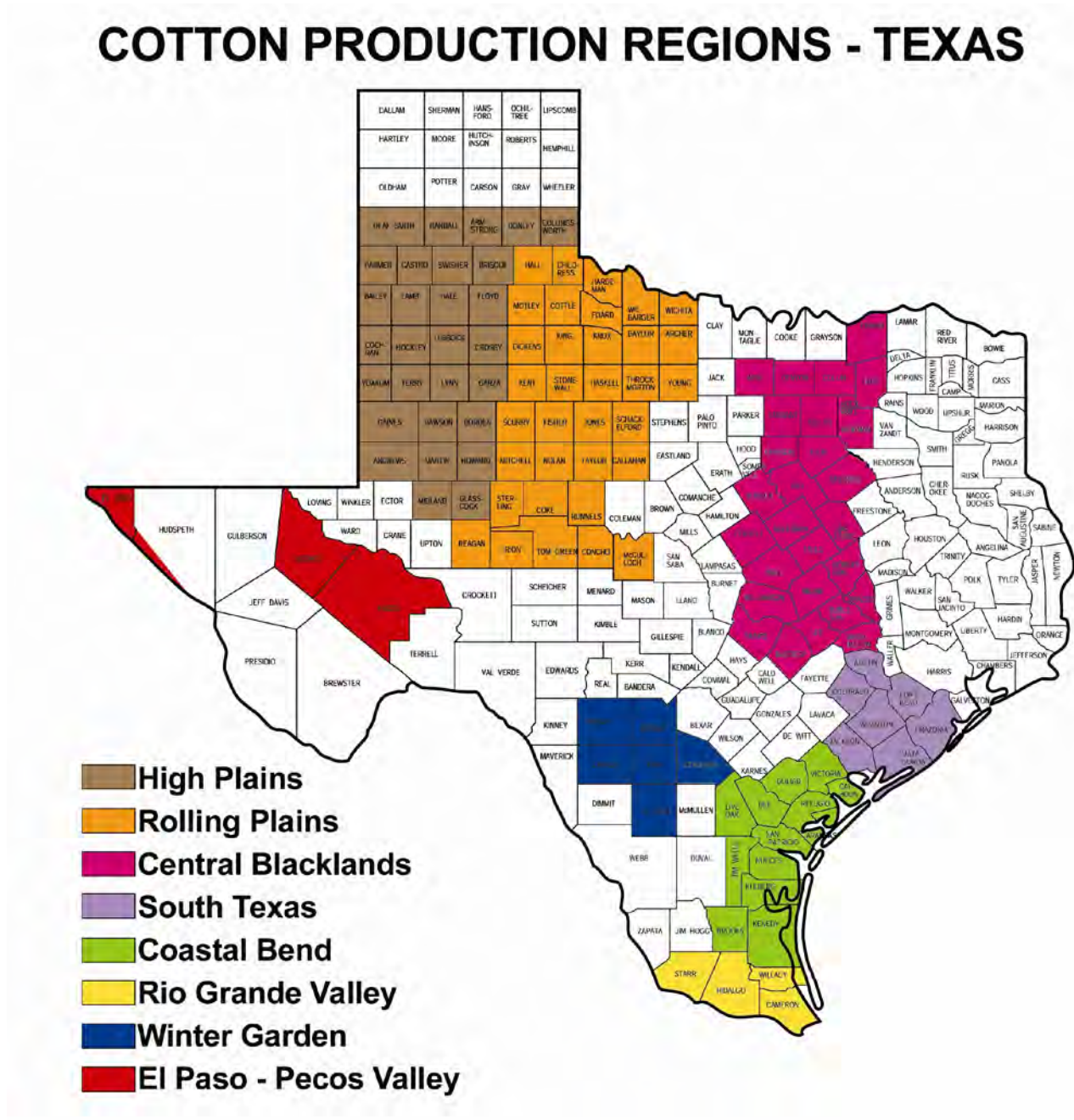
All the major cotton seed companies with GlyTol[®] LibertyLink[®], XtendFlex[®] or Enlist[®] technology had the opportunity to include at least one variety in the RACE trial at each location. All varieties were treated with either Aeris or Avicta Complete Pak seed treatment. Included in this publication are the cotton variety descriptions provided by the companies. See descriptions on page 6-11.

In addition to the RACE trials, three Monster cotton variety trials (Tables 23-25) were conducted in 2017 and the final yields and grades are provided in this publication. These trials are conducted as small-plot variety evaluations and include a larger number of both commercially-available and experimental cotton varieties. Table 1 provides a list of cooperators, planting and harvest dates, row spacing and plot area for each location. Tables 2 - 6 show numerical rankings based upon lint yield for the varieties across all locations within a production region.

Tables 7 to 22 include the RACE trial yield data and fiber analysis for each individual location. Data featured in these tables include: statistical analysis of yield, turnout, fiber quality parameters, loan and gross lint value/acre. Most locations were ginned with a 20-saw table-top gin with no lint cleaner, unless indicated as otherwise. This table-top method consistently produces higher lint turnout percentages than would be common in a commercial gin due to having no lint cleaner. Consequently, higher turnouts equate to lint yields which are generally higher than area-wide commercial yields. Additionally, all data were standardized to a color grade and leaf of 41-4, because an accurate estimate of leaf grade and color are not possible without a lint cleaner on the gin.

The statistical analysis quantifies the variability of the test site conditions, such as soil type, harvesting, insect damage, etc. A CV (coefficient of variation) of 15% or less is generally considered acceptable and means the data are dependable. A trial with a small LSD (least significant difference) indicates more consistency within the trial and higher likelihood of identifying differences among varieties. A trial location with a large LSD and large CV indicates a higher degree of variability at the trial location. Non-statistical significance is represented as “NS” and indicates no differences among the varieties within the data column at a 90% confidence level.

Figure 1. Cotton Production Regions of Texas



Variety Characteristics/Highlights

Below are the cotton variety characteristics and highlights that were included in the 2017 Uniform Variety Trials and other common varieties planted in these regions. These cotton variety descriptions were provided by individual seed company representatives or publicly available information.

CROPLAN GENETICS 3787B2F

- Mid maturity
- Adapted for dryland but produces good under irrigated conditions
- Excellent seedling vigor and early season emergence
- Very good storm tolerance
- Excellent fiber package

CROPLAN GENETICS 3885B2XF

- Full season maturity
- Smooth Leaf Type
- Adapted for both dryland and irrigated soils
- Requires aggressive PGR management in high yield environments
- Premium high quality fiber

DeltaPine 1219B2RF

- Semi-smooth leaf
- Medium-tall plant height
- Early maturity variety
- Broadly adapted across Texas
- Good combination of yield and fiber quality

DeltaPine 1518B2XF

- Light-hairy leaf
- Adapted to high yield shorter season environment
- Very good fiber quality
- Very good storm resistance

DeltaPine 1522B2XF

- Semi-smooth , early-mid maturing variety
- Widely adapted product that has shown very good performance on dryland and irrigated acres
- Good fiber quality
- Tall plant than may need more aggressive PGR management

DeltaPine 1549B2XF

- Semi-smooth Leaf
- Full- season maturity
- Full season variety, manage closely with PGR with irrigation or strong growing conditions
- Excellent performance under dryland and limited water situations

DeltaPine 1553B2XF

- Smooth Leaf
- Full- season maturity
- Broadly adapted to full-season growing areas
- May require timely PGR management under vigorous growing conditions
- Best fit in full season markets in SE and lower Mid-South

DeltaPine 1555B2RF

- Semi-smooth Leaf
- Full- season maturity
- Very responsive to high yield environments
- High turnout/small seed size
- Plant with irrigated, high yield environment, and favorable emergence conditions

DeltaPine 1646B2XF

- Smooth leaf, mid-full maturity
- Broadly adapted to full-season environments
- Exceptional fiber length and overall quality
- Medium-tall plant that responds well to PGR management

DeltaPine 1725B2XF

- Early – Mid maturity, Semi-Smooth Variety
- Excellent yield potential
- Very responsive to PGR (Mepiquat) Management
- Small Seed Size, plant under favorable conditions
- High turnout
- Good Fiber Quality
- Moderate resistance to Fusarium

DynaGro 3385B2XF

- Semi-smooth leaf
- Early maturity
- Good seedling vigor
- Broad adaptation
- Good fiber quality and turnout
- Very responsive to irrigation and intense management

DynaGro 3526B2XF

- Xtend Flex with Bollgard II technology
- Medium maturity
- Widely adapted across the lower Cotton Belt – irrigated or dryland
- Good seedling vigor and growth regulator response

DynaGro 3605B2XF

- Smooth leaf
- Medium full maturity
- Very responsive to irrigation and intense management
- Manage with growth regulators early
- Performs best on river bottom type soils
- Not recommended for high stress environments

FiberMax 1830GLT

- Early/medium maturity
- Excellent fiber quality with high gin turnout
- TwinLink two-gene Bt protection against worm pests
- Liberty and glyphosate herbicide-tolerant

FiberMax 1900GLT

- Early/medium maturity
- Excellent storm tolerance
- High gin turnout
- Improved micronaire and strength over FM 2484B2F
- Excellent yield potential and fiber quality
- Widely adapted to full and limited irrigation production
- Good early season vigor
- Liberty and glyphosate tolerance for resistant weed management
- TwinLink two-gene Bt protection against worm pests, such as cotton bollworm and tobacco budworm

FiberMax 1953GLTP

- Consistently high performance in varied environments
- Resistant to bacterial blight
- Excellent fiber quality package
- Excellent heat tolerance
- Liberty® and glyphosate herbicide tolerant
- Good early-season vigor
- Three-gene Bt trait for enhanced protection against bollworm and fall armyworm

FM 2007GLT

- Excellent water-use efficiency
- Excellent yield potential
- Excellent fiber package
- Easy to manage with lower rates of plant growth regulators
- Excellent storm-tolerance rating
- Liberty® and glyphosate herbicide tolerant
- TwinLink two-gene *Bt* protection

NexGen 3406B2XF

- Early-mid maturity
- Semi-smooth leaf
- Excellent fiber quality and turnout
- Broadly adapted variety for the US cotton belt

NexGen 5007B2XF

- Bollgard II®plus XtendFlex® technology
- Medium-late maturity
- Well suited to Southern and Eastern Cotton Belt
- Performs well in irrigated and dryland environments

Phytogen 312WRF

- Early maturity
- Excellent seedling vigor
- Long staple length and low micronaire
- Medium plant height

Phytogen 300W3RF

- Light-hairy Leaf
- Early to mid-season maturity
- Excellent seedling vigor
- Consistent performance across environments. Does well in both mixed and clay soil types.
- PGR management similar to PHY 312 WRF
- Fiber quality similar to PHY 312 WRF
- Bacterial blight resistant
- WideStrike 3 worm protection

Phytogen 333WRF

- Early maturity
- Excellent seedling vigor
- Outstanding fiber quality package
- Dryland or irrigated conditions
- Hairy leaf

Phytogen 340W3FE

- Light-hairy Leaf
- Early to mid-season maturity
- Excellent seedling vigor
- Consistent performance across environments and soil types.
- PGR management similar to PHY 312 WRF
- Fiber quality similar to PHY 312 WRF
- Bacterial blight resistant
- WideStrike 3 worm protection

Phytogen 444WRF

- Mid-maturity
- Superior fiber quality – premium mic and 38 to 40 staple
- Smooth leaf and tighter in bur than other Phytogen varieties
- Very high yield potential, especially under irrigation

Phytogen 490W3FE

- Mid-maturity
- Management similar to PHY 499WRF
- Performs best under moderate to adequate N fertility
- Performs better at lower plant populations
- Tall plant height, requires aggressive PGR management
- Semi-smooth leaf

Phytogen 499WRF

- Mid-maturity variety with exceptional yield potential and very high turnout
- Aggressive growth
- Consistent across soils and environments, suited for dryland and irrigated fields
- Outstanding seedling vigor and early season growth
- Larger seed size ~ 4,000 – 4,200 seed/lb.

Stoneville 4848GLT

- Exceptional yield potential
- Very good fiber quality
- Good seedling vigor
- High lint percent
- Liberty® and glyphosate herbicide tolerant
- TwinLink protection

Stoneville 4946GLB2

- Exceptional yield potential
- Good fiber quality
- Very good seedling vigor
- High lint percent
- Dual tolerance to Liberty® and glyphosate herbicides
- Good root-knot nematode tolerant
- Lepidopteran resistant

Stoneville 4949GLTP

- Exceptional yield potential
- Good fiber quality
- Very high lint percent
- Intermediate *Verticillium wilt* tolerance
- Liberty® and glyphosate herbicide tolerant
- Lepidopteran resistant

Stoneville 6182GLT

- Full season maturity
- Good fiber quality
- High gin turnout
- Well suited for light and heavy soils
- Well suited for irrigation and dryland production
- Liberty and glyphosate tolerance for resistant weed management
- TwinLink two-gen Bt protection against work pests, such as cotton bollworm and tobacco budworm

Stoneville 6448GLB2

- Full season maturity
- Dual tolerance to Liberty® and glyphosate herbicides
- Excellent seedling vigor
- Well-suited for dryland and irrigated production

Table 1. Trial location, cooperators, planting date, harvest date, row spacing, plot dimensions and area of 2017 Texas A&M AgriLife Extension RACE Trials harvested.

| County | Cooperator | Planting Date | Harvest Date | Row Spacing (inches) | Plot Dimensions | Irrigated or Dryland | Area harvested/plot (acres) |
|--------------|------------------------|---------------|--------------|----------------------|------------------|----------------------|-----------------------------|
| Hidalgo | Richard Drawe | Feb 28 | Aug 8 | 40 | 12 rows X 832 ft | Irrigated | 0.764 |
| Hidalgo | AgriLife Research Farm | Mar 20 | Aug 17 | 40 | 2 rows X 37 ft | irrigated | 0.003 |
| Nueces | Darrell Lawhon | Mar 24 | Aug 3 | 38 | 6 rows x 2979 ft | Dryland | 1.3 |
| Nueces | Jim Massey | Mar 28 | Aug 9 | 30 | 8 rows x 3056 ft | Dryland | 1.4 |
| Nueces | AgriLife Research Farm | Mar 21 | Aug 3 | 38 | 2 rows X 35 ft | Dryland | 0.005 |
| San Patricio | Robert Rieder | Mar 20 | Aug 6 | 38 | 6 rows X 2442 ft | Dryland | 1.07 |
| Jackson | Hajovosky Farms | Apr 5 | Sept 15 | 38 | 6 rows x ft | Dryland | 1.38 |
| Wharton | Kresta Farms | Apr 5 | Aug 23 | 40 | 6 rows x 1378 ft | Dryland | 0.65 |
| Fort Bend | Alan and Lisa Stasney | Apr 5 | Sept 16 | 6 | 2 rows x 1330 ft | Irrigated | 1.1 |

| County | Cooperator | Planting Date | Harvest Date | Row Spacing (in) | Plot Dimensions | Irrigated or Dryland | Area harvested/plot |
|-----------------------------|-----------------------------------|----------------------|---------------------|-------------------------|------------------------|-----------------------------|----------------------------|
| Colorado | Mahalite Farms | Apr 7 | Sept 21 | 36 | 2 row x 6.75 ft | Dryland | 0.001 |
| Burleson | AgriLife Research Farm | Apr 6 | Sep 13 | 40 | 2 rows x 675 ft | Irrigated | 0.08 |
| Medina | Kriewald Farms | Apr 6 | Sept 16 | 36 | 4 rows x 825 ft | Irrigated | 0.23 |
| Williamson | Adam & Ricky Krueger | Apr 5 | Oct 11 | 38 | 6 rows x 1335 ft | Dryland | 0.58 |
| McLennan | Mark and Matt Wiethorn | Apr 22 | Sept 27 | 30 | 8 rows x 1000 ft | Dryland | 0.46 |
| Navarro | Jacob Reed | Apr 26 | Sept 26 | 30 | 12 rows x 813 ft | Dryland | 0.56 |
| Hidalgo (Monster Var Trial) | AgriLife Research Farm | Mar 20 | Aug 17 | 40 | 2 rows X 37 ft | limited irrigation | 0.003 |
| Nueces (Monster Var Trial) | AgriLife Research Farm | Mar 21 | Aug 3 | 38 | 2 rows X 35 ft | Dryland | 0.005 |
| Wharton (Monster Var Trial) | AJ Kresta and Wharton Fairgrounds | Apr 7 | Aug 22 | 40 | 2 rows X 35 ft | Dryland | 0.002 |

Table 2. Mean location lint yield and variety ranking based on lint value, LRGV, 2017.

| Location | Hidalgo¹ | Weslaco¹ | Mean Ranking |
|---------------------------|----------------------------|----------------------------|---------------------|
| Mean Yield (lbs/A) | 2054 | 2170 | |
| Variety | | | |
| PHY 444 WRF | 2 | 2 | 2 |
| DP 1646 B2XF | 1 | 5 | 3 |
| CG 3885 B2XF | 5 | 3 | 4 |
| PHY 312 WRF | 7 | 1 | 4 |
| ST 4949 GLT | 4 | 4 | 4 |
| DP 1725 B2XF | 3 | 10 | 6.5 |
| ST 4848 GLT | 6 | 8 | 7 |
| DG 3526 B2XF | 8 | 7 | 7.5 |
| NG 5007 B2XF | 9 | 6 | 7.5 |
| FM 1953 GLTP | 10 | 9 | 9.5 |

¹Indicates the location was irrigated.

Table 3. Mean location lint yield and variety ranking based on lint value for dryland locations, Coastal Bend, 2017.

| Location | Nueces- Lawhon | Nueces - Massey | Corpus Christi | San Patricio | Mean Ranking |
|---------------------------|-----------------------|------------------------|-----------------------|---------------------|---------------------|
| Mean Yield (lbs/A) | 1176 | 1981 | 1616 | 1235 | |
| Variety | | | | | |
| PHY 312 WRF | 1 | 1 | 1 | 3 | 1.5 |
| PHY 330 W3FE | 2 | 2 | 2 | 2 | 2 |
| ST 4949 GLT | 3 | 4 | 7 | 1 | 3.75 |
| ST 4848 GLT | 4 | 3 | 5 | 8 | 5 |
| DP 1646 B2XF | 6 | 7 | 3 | 5 | 5.25 |
| DP 1725 B2XF | 5 | 8 | 6 | 7 | 6.5 |
| FM 1953 GLTP | 7 | 10 | 4 | 6 | 6.75 |
| CG 3885 B2XF | 10 | 6 | 10 | 4 | 7.5 |
| DG 3526 B2XF | 9 | 5 | 8 | 10 | 8 |
| NG 5007 B2XF | 8 | 9 | 9 | 9 | 8.75 |

Table 4. Mean location lint yield and variety ranking based on lint value, Upper Gulf Coast Counties, 2017.

| Location | Jackson | Wharton | Fort Bend | Colorado | Mean |
|---------------------------|----------------|----------------|------------------|-----------------|-------------|
| Mean Yield (lbs/A) | 1073 | 1562 | 1216 | 1332 | |
| Variety | | | | | |
| DP 1646B2XF | 3 | 3 | 3 | 2 | 2.8 |
| PHY 330 W3FE | 1 | 2 | 1 | 7 | 2.8 |
| PHY 340 W3FE | 4 | 1 | 2 | 9 | 4.0 |
| ST 4848GLT | 7 | 5 | 4 | 1 | 4.3 |
| FM 1953GLTP | 5 | 7 | 5 | 3 | 5.0 |
| ST 4949GLT | 6 | 6 | 6 | 6 | 6.0 |
| NG 5007B2XF | 2 | 9 | 7 | 10 | 7.0 |
| DP 1725B2XF | 8 | 4 | 10 | 8 | 7.5 |
| CL 3885B2XF | 9 | 8 | 8 | 5 | 7.5 |
| DG 3526B2XF | 10 | 10 | 9 | 4 | 8.3 |

Table 5. Mean location lint yield and variety ranking based on lint value, Brazos Bottom and Winter Garden Regions, 2017.

| Location | Medina¹ | Burleson¹ | Mean |
|---------------------------|---------------------------|-----------------------------|-------------|
| Mean Yield (lbs/A) | 2369 | 753 | |
| Variety | | | |
| DP 1646B2XF | 2 | 1 | 1.5 |
| ST 4949GLT | 1 | 4 | 2.5 |
| PHY 330 W3FE | 6 | 3 | 4.5 |
| FM 1953GLTP | 9 | 2 | 5.5 |
| DP 1725B2XF | 4 | 7 | 5.5 |
| NG 5007B2XF | 5 | 6 | 5.5 |
| ST 4848GLT | 3 | 9 | 6.0 |
| PHY 340 W3FE | 8 | 5 | 6.5 |
| CL 3885B2XF | 7 | 8 | 7.5 |

¹Indicates the location was irrigated.

Table 6. Mean location lint yield and variety ranking based on lint value, non-irrigated Blackland Counties, 2017.

| Location | Williamson | Milam | McLennan | Navarro | Mean |
|---------------------------|-------------------|--------------|-----------------|----------------|-------------|
| Mean Yield (lbs/A) | 761 | 1540 | 1130 | 1471 | |
| Variety | | | | | |
| PHY 330 W3FE | 2 | 1 | 7 | 1 | 2.8 |
| DP 1646B2XF | 3 | 6 | 1 | 4 | 3.5 |
| ST 4848GLT | | 5 | 3 | 3 | 3.7 |
| PHY 340 W3FE | 1 | 3 | 5 | 6 | 3.8 |
| ST 4949GLT | 7 | 9 | 2 | 2 | 5.0 |
| DG 3385B2XF | 4 | 4 | 10 | 7 | 6.3 |
| DP 1725B2XF | 6 | 7 | 8 | 5 | 6.5 |
| FM 1953GLTP | 5 | 2 | 9 | 10 | 6.5 |
| CL 3885B2XF | 9 | 10 | 4 | 8 | 7.8 |
| NG 4601 B2XF | 10 | 8 | 6 | 9 | 8.3 |

Table 7. Hidalgo County RACE Trial, 2017¹

**Cooperator: Richard DraweBrad Cowan, County Extension Agent, Dr. Josh McGinty, Extension Agronomist
Rudy Alaniz, Technician and Clinton Livingston, Technician**

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ² | |
|--------------|-----------------|-----|-------------|----|------------|-----|-----------------|-----|------------------|----|-------------|-----|-------------------|---|-----------------------------------|----|
| | | | | | | | | | | | | | | | | |
| DP 1646 B2XF | 2210 | a | 46.5 | bc | 4.8 | d | 1.20 | b | 29.1 | bc | 83.5 | b-e | 54.40 | a | 1202 | a |
| PHY 444 WRF | 2161 | a | 46.0 | c | 4.3 | e | 1.26 | a | 30.7 | a | 85.4 | a | 54.83 | a | 1185 | a |
| DP 1725 B2XF | 2141 | a | 47.9 | a | 4.9 | bcd | 1.15 | cde | 29.1 | bc | 83.8 | a-d | 54.07 | a | 1158 | a |
| ST 4949 GLT | 2065 | b | 46.9 | b | 5.0 | ab | 1.11 | f | 28.8 | bc | 83.0 | de | 52.97 | a | 1094 | bc |
| CG 3885 B2XF | 2026 | b | 44.8 | d | 4.8 | cd | 1.12 | ef | 28.1 | cd | 83.3 | cde | 53.70 | a | 1088 | bc |
| ST 4848 GLT | 2018 | bc | 46.1 | c | 5.0 | a | 1.16 | cd | 30.1 | ab | 84.8 | abc | 53.80 | a | 1086 | bc |
| PHY 312 WRF | 2011 | bcd | 43.4 | e | 4.8 | d | 1.17 | bc | 30.2 | ab | 85.1 | ab | 54.67 | a | 1099 | b |
| DG 3526 B2XF | 2010 | bcd | 47.0 | b | 4.9 | abc | 1.11 | f | 28.1 | cd | 83.7 | b-e | 53.73 | a | 1080 | bc |
| NG 5007 B2XF | 1954 | cd | 44.8 | d | 4.8 | d | 1.13 | def | 26.9 | d | 82.0 | e | 53.70 | a | 1049 | c |
| FM 1953 GLTP | 1947 | d | 41.8 | f | 4.3 | e | 1.18 | bc | 29.8 | ab | 83.7 | bcd | 54.50 | a | 1061 | bc |
| Mean | 2054 | | 45.5 | | 4.8 | | 1.16 | | 1.16 | | 83.8 | | 54.04 | | 1110 | |
| P>F | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0698 | | 0.2322 | | 0.0004 | |
| LSD (P=.10) | 69.85 | | 0.720 | | 0.158 | | 0.034 | | 1.358 | | 1.660 | | NS | | 50.200 | |
| STD DEV | 103.54 | | 1.82 | | 0.26 | | 0.05 | | 0.05 | | 1.37 | | 0.86 | | 62.27 | |
| CV% | 5.04 | | 4.01 | | 5.57 | | 4.23 | | 4.23 | | 1.64 | | 1.59 | | 5.61 | |

¹ Indicates the location was irrigated

² Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 8. Weslaco AgriLife Research and Extension Center RACE Trial, 2017¹
Texas A&M AgriLife Research and Extension Center Weslaco, Texas
Martin Barroso - Texas A&M AgriLife Research, Dr. Josh McGinty, Extension Agronomist
Rudy Alaniz, Technician and Clinton Livingston, Technician

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ² | |
|--------------|-----------------|----|-------------|----|------------|----|-----------------|-----|------------------|----|-------------|----|-------------------|----|-----------------------------------|-----|
| PHY 312 WRF | 2537 | a | 44.7 | d | 5.0 | a | 1.17 | cd | 31.2 | b | 84.7 | a | 53.65 | ab | 1362 | a |
| PHY 444 WRF | 2272 | ab | 46.7 | bc | 4.2 | c | 1.22 | a | 32.3 | a | 84.8 | a | 55.03 | a | 1251 | ab |
| CG 3885 B2XF | 2251 | ab | 46.2 | bc | 5.0 | ab | 1.15 | de | 29.8 | c | 84.2 | a | 53.18 | b | 1198 | abc |
| ST 4949 GLT | 2246 | ab | 46.7 | bc | 5.1 | a | 1.15 | de | 31.3 | ab | 83.7 | a | 52.44 | bc | 1180 | bc |
| DP 1646 B2XF | 2246 | ab | 46.6 | bc | 5.0 | a | 1.18 | bc | 30.0 | c | 82.5 | b | 53.18 | b | 1192 | bc |
| NG 5007 B2XF | 2226 | b | 45.7 | cd | 4.8 | b | 1.17 | cd | 29.4 | c | 83.6 | ab | 53.83 | ab | 1197 | abc |
| DG 3526 B2XF | 2127 | b | 47.9 | a | 5.0 | ab | 1.14 | e | 29.5 | c | 84.0 | a | 53.73 | ab | 1140 | bc |
| ST 4848 GLT | 2097 | b | 45.9 | c | 5.0 | a | 1.17 | cd | 31.4 | ab | 84.4 | a | 53.63 | ab | 1126 | bc |
| FM 1953 GLTP | 1969 | bc | 41.9 | e | 4.4 | c | 1.21 | ab | 31.9 | ab | 84.0 | a | 54.88 | a | 1081 | c |
| DP 1725 B2XF | 1724 | c | 47.1 | ab | 5.2 | a | 1.15 | cde | 29.7 | c | 82.5 | b | 51.55 | c | 890 | d |
| Mean | 2170 | | 45.9 | | 4.9 | | 1.17 | | 30.6 | | 83.8 | | 53.51 | | 1162 | |
| P>F | 0.0186 | | <0.0001 | | <0.0001 | | 0.0002 | | 0.0002 | | 0.0288 | | 0.0184 | | 0.0094 | |
| LSD (P=.10) | 308.37 | | 1.077 | | 0.218 | | 0.028 | | 1.090 | | 1.226 | | 1.483 | | 164.74 | |
| STD DEV | 314.81 | | 1.80 | | 0.36 | | 0.03 | | 1.31 | | 1.21 | | 1.49 | | 175.05 | |
| CV% | 14.51 | | 3.93 | | 7.34 | | 2.86 | | 4.29 | | 1.44 | | 2.78 | | 15.07 | |

¹ Indicates the location was irrigated

² Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated. CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 9. Nueces County RACE Trial, 2017

Cooperator: Darrell Lawhon

Jason Ott - Nueces County Extension Agent, Agriculture and Natural Resources, Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz - Texas A&M AgriLife Extension, Corpus Christi

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ¹ | |
|--------------|-----------------|-----|-------------|----|------------|----|-----------------|----|------------------|-----|-------------|-----|-------------------|-----|-----------------------------------|---|
| PHY 312 WRF | 1316 | a | 43.4 | e | 4.5 | cd | 1.14 | b | 32.0 | a | 85.1 | a | 54.73 | a | 720 | a |
| PHY 330 W3FE | 1255 | ab | 44.3 | cd | 4.4 | d | 1.13 | bc | 30.4 | ab | 84.5 | ab | 54.47 | ab | 683 | a |
| ST 4949 GLT | 1195 | bc | 45.6 | ab | 4.7 | bc | 1.10 | cd | 30.3 | bc | 83.6 | bcd | 53.43 | abc | 639 | b |
| ST 4848 GLT | 1185 | bc | 45.2 | b | 4.8 | ab | 1.13 | bc | 30.8 | ab | 84.2 | abc | 54.50 | ab | 646 | b |
| DP 1725 B2XF | 1182 | bc | 45.6 | ab | 4.6 | bc | 1.12 | bc | 29.7 | bcd | 83.1 | cde | 54.10 | ab | 640 | b |
| DP 1646 B2XF | 1180 | bc | 44.2 | cd | 4.6 | c | 1.19 | a | 31.2 | ab | 83.9 | a-d | 54.73 | a | 646 | b |
| FM 1953 GLTP | 1161 | cd | 40.7 | f | 4.4 | d | 1.15 | b | 31.3 | ab | 83.4 | bcd | 54.63 | ab | 634 | b |
| NG 5007 B2XF | 1136 | cde | 43.7 | de | 4.7 | bc | 1.09 | d | 27.8 | e | 81.9 | e | 52.53 | bcd | 597 | c |
| DG 3526 B2XF | 1084 | de | 45.9 | a | 4.9 | a | 1.07 | d | 28.7 | cde | 83.1 | cde | 51.07 | d | 554 | d |
| CG 3885 B2XF | 1067 | e | 44.5 | c | 4.8 | a | 1.08 | d | 28.6 | de | 82.7 | de | 51.42 | cd | 552 | d |
| Mean | 1176 | | 44.3 | | 4.6 | | 1.12 | | 30.1 | | 83.6 | | 53.56 | | 631 | |
| P>F | 0.0019 | | <0.0001 | | 0.0014 | | 0.0003 | | 0.0067 | | 0.0181 | | 0.0439 | | 0.0014 | |
| LSD (P=.10) | 80.72 | | 0.644 | | 0.190 | | 0.034 | | 1.695 | | 1.276 | | 2.161 | | 55.78 | |
| STD DEV | 92.07 | | 1.53 | | 0.21 | | 0.04 | | 1.63 | | 1.15 | | 1.86 | | 64.05 | |
| CV% | 7.83 | | 3.44 | | 4.55 | | 3.55 | | 5.40 | | 1.38 | | 3.48 | | 10.15 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated. CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 10. Nueces County RACE Trial, 2017

Cooperator: Jim Massey

Jason Ott - Nueces County Extension Agent, Agriculture and Natural Resources, Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz - Texas A&M AgriLife Extension, Corpus Christi

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ¹ | |
|--------------|-----------------|-----|-------------|----|------------|-----|-----------------|----|------------------|-----|-------------|---|-------------------|---|-----------------------------------|-----|
| PHY 312 WRF | 2120 | a | 43.3 | d | 4.5 | bc | 1.13 | bc | 30.9 | bcd | 84.3 | a | 54.60 | a | 1157 | a |
| PHY 330 W3FE | 2116 | a | 44.6 | bc | 4.5 | bc | 1.16 | ab | 32.2 | a | 84.4 | a | 54.80 | a | 1159 | a |
| ST 4848 GLT | 2068 | ab | 44.4 | bc | 4.7 | a | 1.13 | bc | 31.7 | ab | 83.8 | a | 54.23 | a | 1121 | ab |
| ST 4949 GLT | 2020 | abc | 44.9 | b | 4.6 | ab | 1.11 | c | 30.2 | cd | 83.9 | a | 53.73 | a | 1086 | bc |
| DG 3526 B2XF | 2007 | abc | 45.5 | a | 4.7 | a | 1.12 | c | 30.0 | d | 84.6 | a | 54.33 | a | 1090 | bc |
| CG 3885 B2XF | 1962 | bcd | 44.4 | bc | 4.5 | abc | 1.12 | c | 30.1 | d | 84.7 | a | 54.37 | a | 1067 | bc |
| DP 1646 B2XF | 1936 | cd | 44.2 | c | 4.4 | cd | 1.18 | a | 30.4 | cd | 84.3 | a | 54.60 | a | 1057 | cd |
| DP 1725 B2XF | 1917 | cde | 45.6 | a | 4.5 | bc | 1.13 | bc | 30.9 | bcd | 84.2 | a | 54.50 | a | 1045 | cde |
| NG 5007 B2XF | 1851 | de | 43.1 | d | 4.3 | d | 1.12 | bc | 28.6 | e | 82.6 | a | 54.00 | a | 1000 | de |
| FM 1953 GLTP | 1813 | e | 40.4 | e | 4.6 | ab | 1.14 | bc | 31.3 | abc | 83.3 | a | 54.43 | a | 987 | e |
| Mean | 1981 | | 44.1 | | 4.5 | | 1.13 | | 30.6 | | 84.0 | | 54.36 | | 1077 | |
| P>F | 0.0018 | | <0.0001 | | 0.0228 | | 0.0768 | | 0.0039 | | 0.126 | | 0.2874 | | 0.0016 | |
| LSD (P=.10) | 114.51 | | 0.593 | | 0.177 | | 0.037 | | 1.179 | | NS | | NS | | 63.71 | |
| STD DEV | 121.22 | | 0.01 | | 0.16 | | 0.03 | | 1.17 | | 0.90 | | 0.48 | | 68.10 | |
| CV% | 6.12 | | 0.03 | | 3.46 | | 2.65 | | 3.82 | | 1.07 | | 0.89 | | 6.32 | |

¹ Lint values were calculated using the 2012 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 11. Nueces County RACE Trial, 2017
Texas A&M AgriLife Research and Extension Center, Corpus Christi, Texas
Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz - Texas A&M AgriLife Extension, Corpus Christi

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ¹ | |
|--------------|-----------------|----|-------------|----|------------|----|-----------------|----|------------------|----|-------------|---|-------------------|-----|-----------------------------------|----|
| | | | | | | | | | | | | | | | | |
| PHY 312 WRF | 1820 | a | 45.0 | d | 4.2 | d | 1.14 | bc | 30.7 | ab | 83.7 | a | 54.53 | ab | 992 | a |
| PHY 330 W3FE | 1755 | ab | 46.5 | bc | 4.1 | d | 1.11 | cd | 29.7 | bc | 83.6 | a | 54.05 | abc | 948 | ab |
| DP 1646 B2XF | 1661 | bc | 47.7 | a | 4.5 | bc | 1.18 | a | 30.6 | ab | 83.1 | a | 54.53 | ab | 906 | ab |
| FM 1953 GLTP | 1639 | bc | 42.7 | e | 4.1 | d | 1.16 | b | 31.4 | a | 82.9 | a | 54.66 | a | 896 | bc |
| ST 4848 GLT | 1600 | bc | 47.1 | ab | 4.7 | ab | 1.11 | cd | 30.4 | ab | 83.2 | a | 54.03 | abc | 864 | bc |
| DP 1725 B2XF | 1580 | c | 47.8 | a | 4.6 | ab | 1.11 | d | 28.2 | d | 82.6 | a | 53.55 | bc | 847 | cd |
| ST 4949 GLT | 1533 | c | 47.4 | ab | 4.4 | c | 1.07 | f | 29.1 | cd | 82.6 | a | 52.36 | d | 803 | d |
| DG 3526 B2XF | 1533 | c | 48.0 | a | 4.7 | ab | 1.08 | ef | 28.9 | cd | 82.5 | a | 52.23 | d | 801 | d |
| NG 5007 B2XF | 1532 | c | 45.9 | cd | 4.5 | bc | 1.14 | bc | 28.2 | d | 83.3 | a | 54.03 | abc | 828 | cd |
| CG 3885 B2XF | 1506 | c | 46.1 | c | 4.8 | a | 1.10 | de | 28.7 | cd | 83.0 | a | 53.11 | cd | 801 | d |
| Mean | 1616 | | 46.4 | | 4.5 | | 1.12 | | 29.6 | | 83.0 | | 53.71 | | 869 | |
| P>F | 0.0361 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0013 | | 0.4384 | | 0.0022 | | 0.0103 | |
| LSD (P=.10) | 161.24 | | 1.031 | | 0.179 | | 0.027 | | 1.306 | | NS | | 1.050 | | 90.150 | |
| STD DEV | 153.05 | | 1.72 | | 0.26 | | 0.04 | | 1.46 | | 0.86 | | 1.16 | | 91.55 | |
| CV% | 9.47 | | 3.71 | | 5.86 | | 3.61 | | 4.94 | | 1.03 | | 2.16 | | 10.54 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 12. San Patricio County RACE Trial, 2017

Cooperator: Reider Farms

**Bobby McCool, County Extension Agent-Agriculture, Dr. Josh McGinty, Extension Agronomist,
Rudy Alaniz, Technician and Clinton Livingston, Technician**

| Variety | Lint (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lb) | | Lint Value (\$/acre) ¹ | |
|--------------|-----------------|-----|-------------|-----|------------|-----|-----------------|----|------------------|----|-------------|---|-------------------|-----|-----------------------------------|----|
| | | | | | | | | | | | | | | | | |
| ST 4949 GLT | 1306 | a | 45.1 | abc | 4.5 | cd | 1.07 | d | 28.9 | bc | 82.4 | a | 52.45 | cd | 685 | a |
| PHY 330 W3FE | 1301 | a | 45.0 | abc | 4.4 | d | 1.10 | c | 30.1 | ab | 83.7 | a | 53.67 | abc | 698 | a |
| PHY 312 WRF | 1290 | ab | 43.3 | d | 4.4 | d | 1.09 | cd | 29.9 | ab | 84.0 | a | 53.32 | bc | 688 | a |
| CG 3885 B2XF | 1275 | ab | 45.6 | a | 4.7 | abc | 1.07 | d | 29.0 | bc | 82.7 | a | 51.57 | d | 658 | ab |
| DP 1646 B2XF | 1264 | ab | 45.7 | a | 4.4 | d | 1.18 | a | 30.6 | a | 82.9 | a | 54.60 | a | 690 | a |
| FM 1953 GLTP | 1237 | abc | 41.6 | e | 4.4 | d | 1.14 | b | 30.3 | a | 83.1 | a | 54.48 | ab | 674 | a |
| DP 1725 B2XF | 1207 | bc | 45.1 | ab | 4.7 | ab | 1.11 | c | 28.2 | c | 83.0 | a | 53.37 | abc | 644 | ab |
| ST 4848 GLT | 1161 | c | 44.1 | bcd | 4.5 | bcd | 1.08 | cd | 29.7 | ab | 82.9 | a | 52.95 | c | 615 | b |
| NG 5007 B2XF | 1159 | c | 43.9 | cd | 4.4 | d | 1.10 | c | 27.8 | c | 82.2 | a | 53.38 | abc | 618 | b |
| DG 3526 B2XF | 1146 | c | 45.6 | a | 4.8 | a | 1.08 | cd | 30.5 | a | 83.5 | a | 53.08 | c | 608 | b |
| Mean | 1235 | | 44.5 | | 4.5 | | 1.10 | | 29.5 | | 83.0 | | 53.29 | | 658 | |
| P>F | 0.0343 | | 0.0002 | | 0.0194 | | <0.0001 | | 0.008 | | 0.5913 | | 0.0214 | | 0.0596 | |
| LSD (P=.10) | 92.747 | | 1.209 | | 0.215 | | 0.028 | | 1.240 | | NS | | 1.252 | | 55.02 | |
| STD DEV | 79.93 | | 1.46 | | 0.19 | | 0.04 | | 1.23 | | 1.07 | | 1.14 | | 45.55 | |
| CV% | 6.47 | | 3.28 | | 4.23 | | 3.36 | | 4.17 | | 1.28 | | 2.15 | | 6.92 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 13. Jackson County RACE Trial², 2017
Cooperator: Hajovosky Farms
Michael Hiller, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist¹

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|---|-----------------|---|------------------|---|------------|---|-------------|---|--------------------|---|---------------------------------|---|
| PHY 330W3FE | 1183 | a | 47.8 | a | 1.11 | a | 27.67 | a | 4.5 | a | 82.9 | a | 52.90 | a | 629 | a |
| NG 5007B2XF | 1109 | a | 47.7 | a | 1.14 | a | 28.47 | a | 4.8 | a | 83.7 | a | 54.23 | a | 601 | a |
| DP 1646B2XF | 1097 | a | 46.5 | a | 1.16 | a | 28.47 | a | 4.5 | a | 83.7 | a | 54.30 | a | 596 | a |
| PHY 340W3FE | 1115 | a | 48.0 | a | 1.12 | a | 27.53 | a | 4.6 | a | 82.6 | a | 53.17 | a | 595 | a |
| FM 1953GLTP | 1088 | a | 49.0 | a | 1.14 | a | 28.23 | a | 4.7 | a | 83.2 | a | 53.03 | a | 580 | a |
| ST 4949GLT | 1074 | a | 48.5 | a | 1.15 | a | 27.70 | a | 4.3 | a | 83.7 | a | 53.87 | a | 578 | a |
| ST 4848GLT | 1029 | a | 48.0 | a | 1.15 | a | 27.90 | a | 4.8 | a | 83.5 | a | 53.20 | a | 550 | a |
| DP 1725B2XF | 1006 | a | 49.5 | a | 1.10 | a | 27.30 | a | 4.7 | a | 83.0 | a | 53.67 | a | 540 | a |
| CL 3885B2XF | 1022 | a | 48.8 | a | 1.14 | a | 28.13 | a | 4.9 | a | 84.0 | a | 52.67 | a | 537 | a |
| DG 3526B2XF | 1006 | a | 49.1 | a | 1.11 | a | 27.47 | a | 4.9 | a | 83.0 | a | 52.43 | a | 528 | a |
| Mean | 1073 | | 48.3 | | 1.13 | | 27.9 | | 4.7 | | 83.3 | | 53.24 | | 573 | |
| P>F | 0.7043 | | 0.5533 | | 0.6054 | | 0.991 | | 0.1679 | | 0.369 | | 0.8157 | | 0.6928 | |
| LSD (P=.10) | 168.24 | | 2.285 | | 0.0596 | | 2.302 | | 0.351 | | 1.036 | | 1.9687 | | 96.8 | |
| STD DEV | 118.83 | | 1.61 | | 0.04 | | 1.63 | | 0.25 | | 0.73 | | 1.38 | | 68.37 | |
| CV% | 11.08 | | 3.34 | | 3.72 | | 5.83 | | 5.30 | | 0.88 | | 2.59 | | 11.93 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

²This location was harvested following Hurricane Harvey which impact yields.

Table 14. Wharton County RACE Trial, 2017
Cooperator: Kresta Farms
Corrie Bowen, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|----|-----------------|-----|------------------|----|------------|-----|-------------|---|--------------------|---|---------------------------------|---|
| | | | | | | | | | | | | | | | | |
| PHY 340W3FE | 168 | a | 46.2 | ab | 1.16 | bc | 32.70 | a | 4.9 | bc | 85.3 | a | 54.17 | a | 915 | a |
| PHY 330W3FE | 163 | a | 43.7 | c | 1.17 | bc | 32.80 | a | 4.7 | d | 85.3 | a | 55.00 | a | 899 | a |
| DP 1646B2XF | 162 | a | 45.7 | ab | 1.23 | a | 30.83 | bc | 5.0 | ab | 85.7 | a | 54.07 | a | 876 | a |
| DP 1725B2XF | 161 | a | 46.9 | a | 1.15 | bcd | 31.00 | bc | 5.0 | ab | 84.6 | a | 53.55 | a | 865 | a |
| ST 4848GLT | 158 | a | 44.2 | bc | 1.16 | bc | 31.40 | bc | 4.9 | bcd | 85.6 | a | 53.70 | a | 853 | a |
| ST 4949GLT | 156 | a | 44.7 | bc | 1.10 | e | 29.65 | de | 4.8 | cd | 83.3 | a | 53.20 | a | 832 | a |
| FM 1953GLTP | 151 | a | 39.8 | d | 1.18 | b | 31.60 | b | 4.4 | e | 83.8 | a | 54.75 | a | 830 | a |
| CL 3885B2XF | 153 | a | 44.3 | bc | 1.15 | cd | 30.45 | cd | 5.0 | abc | 84.4 | a | 53.35 | a | 822 | a |
| NG 5007B2XF | 143 | a | 45.0 | ab | 1.18 | b | 29.25 | e | 4.9 | bcd | 84.1 | a | 54.40 | a | 783 | a |
| DG 3526B2XF | 141 | a | 45.3 | ab | 1.13 | de | 30.50 | cd | 5.2 | a | 84.5 | a | 52.10 | a | 737 | a |
| Mean | 1562 | | 44.6 | | 1.16 | | 31.0 | | 4.9 | | 84.6 | | 53.83 | | 841 | |
| P>F | 0.1699 | | 0.0059 | | 0.0006 | | 0.0013 | | 0.0031 | | 0.1573 | | 0.2467 | | 0.1159 | |
| LSD (P=.10) | 162.93420 | | 2.077 | | 0.0275 | | 1.027 | | 0.215 | | 1.502 | | 1.73 | | 92.07 | |
| STD DEV | 110.10 | | 1.40 | | 0.02 | | 0.69 | | 0.15 | | 1.02 | | 1.17 | | 62.21 | |
| CV% | 7.05 | | 3.15 | | 1.60 | | 2.24 | | 3.00 | | 1.20 | | 2.17 | | 7.40 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 15. Fort Bend County RACE Trial², 2017¹
Cooperator: Alan and Lisa Stasney
John Gordy, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|----|-----------------|-----|------------------|-----|------------|----|-------------|---|--------------------|----|---------------------------------|----|
| PHY 330W3FE | 1295 | a | 48.4 | bc | 1.14 | cd | 30.87 | a | 4.8 | e | 84.3 | a | 54.43 | ab | 705 | a |
| PHY 340W3FE | 1312 | a | 49.1 | ab | 1.14 | cd | 30.13 | abc | 5.0 | cd | 84.1 | a | 53.53 | ab | 703 | a |
| DP 1646B2XF | 1253 | a | 48.4 | bc | 1.20 | a | 29.33 | a-e | 5.0 | bc | 84.2 | a | 52.97 | b- | 664 | ab |
| ST 4848GLT | 1247 | a | 47.7 | cd | 1.15 | cd | 29.10 | b-e | 5.2 | a | 83.5 | a | 51.93 | de | 647 | ab |
| FM 1953GLTP | 1161 | a | 45.4 | e | 1.18 | ab | 30.67 | ab | 4.5 | f | 84.1 | a | 54.70 | a | 635 | bc |
| ST 4949GLT | 1205 | a | 48.6 | bc | 1.10 | e | 27.70 | e | 5.0 | cd | 82.7 | a | 52.33 | cd | 631 | bc |
| NG 5007B2XF | 1175 | a | 47.1 | d | 1.15 | cd | 28.17 | de | 4.9 | de | 83.7 | a | 53.37 | a- | 627 | bc |
| CL 3885B2XF | 1148 | a | 48.0 | cd | 1.13 | cde | 29.67 | a-d | 5.0 | cd | 84.2 | a | 53.50 | ab | 614 | bc |
| DG 3526B2XF | 1191 | a | 48.4 | bc | 1.12 | de | 28.77 | cde | 5.2 | ab | 83.5 | a | 51.50 | e | 613 | bc |
| DP 1725B2XF | 1173 | a | 49.8 | a | 1.16 | bc | 30.17 | abc | 5.3 | a | 83.4 | a | 51.60 | e | 606 | c |
| Mean | 1216 | | 48.1 | | 1.15 | | 29.5 | | 5.0 | | 83.9 | | 52.99 | | 644 | |
| P>F | 0.113 | | 0.0001 | | 0.0033 | | 0.0654 | | 0.0001 | | 0.75 | | 0.0147 | | 0.067 | |
| LSD (P=.10) | 101.51 | | 1.046 | | 0.0343 | | 1.697 | | 0.147 | | 1.091 | | 1.517 | | 58.14 | |
| STD DEV | 71.70 | | 0.74 | | 0.02 | | 1.20 | | 0.10 | | 0.77 | | 1.07 | | 41.06 | |
| CV% | 5.90 | | 1.54 | | 2.11 | | 4.07 | | 2.09 | | 0.91 | | 2.02 | | 6.37 | |

¹ Indicates the location was irrigated.

² Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

²This location was harvested following Hurricane Harvey which impact yields.

Table 16. Colorado County RACE Trial², 2017
Cooperator: Mahalitic Farms
Stephen Janak, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|-----|-----------------|-----|------------------|-----|------------|----|-------------|---|--------------------|----|---------------------------------|---|
| ST 4848GLT | 1483 | a | 44.2 | a-d | 1.14 | def | 30.7 | ab | 4.4 | ab | 84.6 | a | 54.67 | ab | 811 | a |
| DP 1646B2XF | 1415 | a | 44.1 | bcd | 1.23 | a | 29.4 | bc | 4.3 | ab | 83.9 | a | 54.53 | b | 772 | a |
| FM 1953GLTP | 1392 | a | 39.7 | | 1.18 | bc | 30.3 | abc | 3.7 | c | 83.1 | a | 53.97 | c | 751 | a |
| DG 3526B2XF | 1362 | a | 45.6 | a | 1.12 | g | 29.0 | cd | 4.4 | a | 83.6 | a | 54.07 | c | 736 | a |
| CL 3885B2XF | 1338 | a | 43.7 | cd | 1.14 | efg | 29.3 | bcd | 4.3 | ab | 83.2 | a | 54.10 | c | 724 | a |
| ST 4949GLT | 1325 | a | 45.3 | ab | 1.12 | fg | 30.3 | abc | 4.1 | b | 83.7 | a | 54.40 | bc | 721 | a |
| PHY 330W3FE | 1288 | a | 43.9 | bcd | 1.19 | b | 31.0 | a | 4.2 | ab | 84.7 | a | 54.90 | a | 708 | a |
| DP 1725B2XF | 1255 | a | 45.0 | abc | 1.16 | cd | 29.5 | bc | 4.2 | b | 84.7 | a | 54.50 | b | 684 | a |
| PHY 340W3FE | 1231 | a | 44.7 | abc | 1.17 | bc | 30.2 | abc | 3.8 | c | 83.5 | a | 54.60 | ab | 672 | a |
| NG 5007B2XF | 1229 | a | 42.8 | d | 1.15 | de | 27.9 | d | 4.4 | ab | 83.5 | a | 54.13 | c | 665 | a |
| Mean | 1332 | | 44.4 | | 1.16 | | 29.8 | | 4.2 | | 83.5 | | 52.84 | | 700 | |
| P>F | 0.1818 | | 0.0887 | | 0.5378 | | 0.859 | | 0.1875 | | 0.923 | | 0.7478 | | 0.2383 | |
| LSD (P=.10) | 161.12 | | 1.473 | | 0.0768 | | 2.308 | | 0.301 | | 2.215 | | 2.8575 | | 88.78 | |
| STD DEV | 113.79 | | 1.03 | | 0.05 | | 1.63 | | 0.05 | | 1.57 | | 2.00 | | 62.71 | |
| CV% | 8.54 | | 2.33 | | 4.86 | | 5.47 | | 2.04 | | 1.87 | | 3.79 | | 8.95 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

²This location was hand harvested following Hurricane Harvey which impact yields.

Table 17. Medina County RACE Trial, 2017
Cooperator: David Kriewald
Derrick Drury, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|----|-------------|----|-----------------|-----|------------------|---|------------|---|-------------|---|--------------------|---|---------------------------------|-----|
| ST 4949GLT | 2583 | a | 46.3 | a | 1.15 | e | 31.47 | a | 4.8 | a | 85.4 | a | 54.73 | a | 1414 | a |
| DP 1646B2XF | 2545 | ab | 46.1 | a | 1.24 | a | 30.70 | a | 4.9 | a | 84.8 | a | 53.90 | a | 1371 | ab |
| ST 4848GLT | 2504 | ab | 44.9 | ab | 1.16 | de | 29.50 | a | 4.8 | a | 83.7 | a | 54.35 | a | 1361 | ab |
| DG 3605B2XF | 2435 | b | 46.1 | a | 1.24 | a | 30.77 | a | 4.7 | a | 85.2 | a | 54.73 | a | 1333 | abc |
| DP 1725B2XF | 2441 | b | 45.7 | ab | 1.20 | bc | 31.13 | a | 4.8 | a | 84.7 | a | 54.07 | a | 1319 | bc |
| NG 5007B2XF | 2303 | c | 44.1 | b | 1.22 | ab | 30.27 | a | 4.6 | a | 86.0 | a | 54.77 | a | 1261 | cd |
| PHY 330W3FE | 2291 | c | 44.1 | b | 1.18 | cde | 30.90 | a | 4.6 | a | 85.4 | a | 54.73 | a | 1254 | cd |
| CL 3885B2XF | 2234 | cd | 44.3 | b | 1.19 | bcd | 30.27 | a | 4.9 | a | 85.4 | a | 54.03 | a | 1207 | d |
| PHY 340W3FE | 2204 | cd | 42.3 | c | 1.19 | bcd | 31.73 | a | 4.9 | a | 86.0 | a | 53.67 | a | 1185 | d |
| FM 1953GLTP | 2144 | d | 41.8 | c | 1.21 | abc | 32.30 | a | 4.7 | a | 85.5 | a | 55.03 | a | 1180 | d |
| Mean | 2369 | | 44.6 | | 1.20 | | 30.9 | | 4.8 | | 85.2 | | 54.40 | | 1289 | |
| P>F | 0.0001 | | 0.0018 | | 0.0062 | | 0.4573 | | 0.572 | | 0.406 | | 0.8656 | | 0.0005 | |
| LSD (P=.10) | 130.89 | | 1.716 | | 0.0362 | | 1.953 | | 0.297 | | 1.597 | | 1.619 | | 81.13 | |
| STD DEV | 92.45 | | 1.21 | | 0.03 | | 1.38 | | 0.21 | | 1.13 | | 1.14 | | 57.30 | |
| CV% | 3.90 | | 2.72 | | 2.13 | | 4.46 | | 4.40 | | 1.32 | | 2.10 | | 4.45 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 18. Burleson County RACE Trial, 2017²
Texas A&M AgriLife Research and Extension Center, Snook, Texas
John Grange, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist
Vince Saladino, Research Assistant

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|--------------|------------------|---|-------------|-----|-----------------|-----|------------------|-----|------------|-----|-------------|---|--------------------|-----|---------------------------------|---|
| | | | | | | | | | | | | | | | | |
| DP 1646B2XF | 970 | a | 46.6 | ab | 1.16 | ab | 29.23 | ab | 4.1 | de | 82.6 | a | 54.27 | ab | 527 | a |
| FM 1953GLTP | 907 | a | 42.3 | g | 1.17 | a | 29.43 | a | 4.1 | e | 83.4 | a | 54.47 | a | 494 | a |
| DP 1522B2XF | 811 | a | 44.2 | ef | 1.12 | de | 29.60 | a | 4.6 | a | 82.9 | a | 54.12 | ab | 439 | a |
| PHY 330 W3FE | 805 | a | 44.6 | def | 1.13 | bcd | 28.90 | abc | 4.1 | e | 82.4 | a | 54.12 | ab | 436 | a |
| ST 4949GLT | 799 | a | 45.6 | bcd | 1.08 | ef | 28.13 | abc | 4.4 | b | 82.9 | a | 52.75 | bcd | 421 | a |
| DG 3605B2XF | 773 | a | 45.6 | bcd | 1.16 | abc | 28.77 | abc | 4.1 | de | 82.6 | a | 54.17 | ab | 418 | a |
| PHY 340 W3FE | 758 | a | 45.1 | cde | 1.12 | cd | 29.63 | a | 4.2 | cde | 83.1 | a | 54.23 | ab | 411 | b |
| NG 5007B2XF | 704 | a | 44.4 | ef | 1.08 | ef | 26.10 | d | 4.1 | e | 81.6 | a | 51.58 | d | 368 | c |
| DP 1725B2XF | 670 | a | 47.7 | a | 1.10 | def | 27.77 | bc | 4.3 | bc | 81.8 | a | 53.00 | a-d | 356 | c |
| CL 3885B2XF | 645 | a | 46.3 | bc | 1.07 | f | 27.60 | cd | 4.3 | bc | 82.2 | a | 52.45 | cd | 338 | c |
| ST 4848GLT | 599 | a | 46.0 | bc | 1.11 | de | 28.93 | abc | 4.3 | bcd | 83.5 | a | 53.58 | abc | 321 | d |
| PHY 333WRF | 591 | a | 43.4 | fg | 1.13 | bcd | 28.40 | abc | 4.1 | e | 83.0 | a | 54.25 | ab | 320 | d |
| Mean | 753 | | 45.2 | | 1.12 | | 28.5 | | 4.2 | | 82.7 | | 53.58 | | 404 | |
| P>F | 0.1058 | | 0.0001 | | 0.0005 | | 0.0402 | | 0.0008 | | 0.6122 | | 0.0752 | | 0.0828 | |
| LSD (P=.10) | 208.76 | | 1.229 | | 0.0369 | | 1.614 | | 0.187 | | 1.558 | | 1.5689 | | 113.68 | |
| STD DEV | 148.90 | | 0.88 | | 0.03 | | 1.15 | | 0.13 | | 1.11 | | 1.12 | | 81.08 | |
| CV% | 19.78 | | 1.94 | | 2.35 | | 4.03 | | 3.14 | | 1.34 | | 2.09 | | 20.06 | |

¹ Indicates the location was irrigated

² Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 19. Williamson County RACE Trial, 2017
Cooperator: Adam and Ricky Krueger
Cooper Terrill, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|----|-------------|----|-----------------|---|------------------|----|------------|-----|-------------|-----|--------------------|---|---------------------------------|----|
| | | | | | | | | | | | | | | | | |
| PHY 340W3FE | 880 | a | 45.7 | ab | 1.05 | b | 26.90 | b | 4.6 | abc | 82.0 | ab | 50.63 | a | 446 | a |
| PHY 330W3FE | 873 | a | 45.9 | ab | 1.06 | b | 25.03 | cd | 4.4 | bcd | 81.2 | bc | 50.87 | a | 444 | a |
| DP 1646B2XF | 799 | b | 45.7 | ab | 1.09 | a | 26.33 | b | 4.3 | cde | 80.9 | bcd | 51.77 | a | 413 | b |
| DG 3385B2XF | 775 | bc | 43.7 | c | 1.06 | b | 26.80 | b | 4.2 | de | 82.6 | a | 51.65 | a | 401 | b |
| FM 1953GLTP | 750 | cd | 41.0 | d | 1.06 | b | 28.87 | a | 3.9 | e | 81.2 | b | 51.18 | a | 384 | bc |
| DP 1725B2XF | 720 | de | 46.1 | a | 1.06 | b | 24.97 | cd | 4.7 | ab | 80.0 | cd | 49.43 | a | 356 | cd |
| ST 4949GLT | 751 | cd | 46.3 | a | 0.99 | d | 25.90 | bc | 4.4 | bcd | 81.8 | ab | 47.03 | a | 353 | d |
| ST 4848GLT | 718 | de | 45.2 | ab | 1.03 | c | 24.17 | d | 4.6 | a-d | 81.8 | ab | 48.25 | a | 347 | d |
| CL 3885B2XF | 686 | ef | 45.3 | ab | 1.02 | c | 25.87 | bc | 4.7 | ab | 79.8 | d | 48.60 | a | 333 | d |
| NG 4601B2XF | 654 | f | 44.9 | b | 1.05 | b | 28.43 | a | 4.9 | a | 81.2 | bc | 50.28 | a | 329 | d |
| Mean | 761 | | 45.0 | | 1.05 | | 26.3 | | 4.5 | | 81.3 | | 49.97 | | 381 | |
| P>F | 0.0001 | | 0.0001 | | 0.0001 | | 0.0001 | | 0.0233 | | 0.0241 | | 0.1157 | | 0.0001 | |
| LSD (P=.10) | 45.18 | | 1.097 | | 0.022 | | 1.236 | | 0.398 | | 1.217 | | 2.8114 | | 29.85 | |
| STD DEV | 31.91 | | 0.78 | | 0.02 | | 0.87 | | 0.28 | | 0.86 | | 1.99 | | 21.08 | |
| CV% | 4.20 | | 1.72 | | 1.51 | | 3.31 | | 6.27 | | 1.06 | | 3.97 | | 5.54 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 20. Milam County RACE Trial, 2017
Cooperator: Jay Beckhusen
Floyd Ingram, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|----|-----------------|----|------------------|---|------------|---|-------------|---|--------------------|----|---------------------------------|----|
| PHY 330W3FE | 1712 | a | 44.1 | c | 1.05 | bc | 28.20 | a | 5.1 | a | 82.1 | a | 48.40 | bc | 829 | a |
| FM 1953GLTP | 1569 | a | 44.3 | c | 1.06 | b | 29.30 | a | 4.8 | a | 82.4 | a | 52.23 | a | 820 | a |
| PHY 340W3FE | 1679 | a | 44.6 | c | 1.03 | cd | 24.85 | a | 5.0 | a | 82.1 | a | 47.18 | c | 789 | a |
| DG 3385B2XF | 1617 | a | 44.9 | bc | 1.04 | bc | 27.30 | a | 4.8 | a | 82.3 | a | 48.50 | bc | 785 | a |
| ST 4848GLT | 1521 | a | 44.5 | c | 1.04 | bc | 26.35 | a | 5.0 | a | 81.9 | a | 50.60 | ab | 770 | ab |
| DP 1646B2XF | 1484 | a | 44.3 | c | 1.08 | a | 27.00 | a | 4.9 | a | 83.1 | a | 51.85 | a | 769 | ab |
| DP 1725B2XF | 1549 | a | 47.2 | a | 1.04 | bc | 25.80 | a | 5.0 | a | 82.1 | a | 48.63 | bc | 753 | ab |
| NG 4601B2XF | 1442 | a | 45.3 | bc | 1.03 | cd | 27.25 | a | 5.1 | a | 81.6 | a | 46.85 | c | 676 | bc |
| ST 4949GLT | 1437 | a | 46.0 | ab | 1.00 | e | 24.35 | a | 4.7 | a | 81.4 | a | 46.70 | c | 671 | bc |
| Mean | 1540 | | 44.9 | | 1.04 | | 26.8 | | 4.9 | | 82.1 | | 48.74 | | 751 | |
| P>F | 0.1129 | | 0.0457 | | 0.0041 | | 0.1764 | | 0.2201 | | 0.7257 | | 0.0084 | | 0.0856 | |
| LSD (P=.10) | 179.51 | | 1.38 | | 0.023 | | 2.812 | | 0.301 | | 1.491 | | 2.3291 | | 102.58 | |
| STD DEV | 97.93 | | 0.75 | | 0.01 | | 1.53 | | 0.16 | | 0.81 | | 1.27 | | 55.96 | |
| CV% | 6.36 | | 1.68 | | 1.21 | | 5.73 | | 3.33 | | 0.99 | | 2.61 | | 7.45 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 21. McLennan RACE Trial, 2017
Cooperator: Mark and Matt Wiethorn
Shane McLennan, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|---|-------------|---|-----------------|-----|------------------|----|------------|---|-------------|-----|--------------------|-----|---------------------------------|---|
| | | | | | | | | | | | | | | | | |
| DP 1646B2XF | 1214 | a | 46.7 | a | 1.09 | a-d | 30.20 | b | 5.0 | c | 83.0 | abc | 53.25 | ab | 647 | a |
| ST 4949GLT | 1181 | a | 45.9 | a | 1.09 | abc | 29.95 | b | 4.6 | d | 82.0 | cd | 53.18 | abc | 628 | a |
| ST 4848GLT | 1142 | a | 44.6 | a | 1.10 | ab | 29.85 | bc | 5.0 | c | 84.1 | a | 53.80 | a | 615 | a |
| CL 3885B2XF | 1161 | a | 45.4 | a | 1.07 | cde | 28.50 | d | 5.0 | c | 83.5 | ab | 51.00 | bcd | 593 | a |
| PHY 340W3FE | 1106 | a | 46.6 | a | 1.11 | a | 28.80 | cd | 5.1 | c | 82.4 | bcd | 52.83 | abc | 585 | a |
| NG 4601B2XF | 1110 | a | 48.6 | a | 1.07 | cde | 27.85 | d | 5.1 | c | 83.1 | abc | 50.95 | cd | 565 | a |
| PHY 330W3FE | 1171 | a | 48.5 | a | 1.02 | f | 28.10 | d | 5.0 | c | 81.3 | d | 48.00 | e | 563 | a |
| DP 1725B2XF | 1093 | a | 47.1 | a | 1.08 | bc | 31.40 | a | 5.7 | a | 83.4 | ab | 49.23 | de | 539 | a |
| FM 1953GLTP | 1083 | a | 46.5 | a | 1.06 | de | 30.10 | b | 5.4 | b | 82.8 | abc | 48.30 | e | 525 | a |
| DG 3385B2XF | 1043 | a | 44.5 | a | 1.05 | e | 27.80 | d | 5.4 | b | 83.7 | ab | 48.40 | e | 505 | a |
| Mean | 1130 | | 46.4 | | 1.07 | | 29.3 | | 5.1 | | 82.9 | | 50.89 | | 576 | |
| P>F | 0.4239 | | 0.5941 | | 0.0041 | | 0.0028 | | 0.0001 | | 0.0776 | | 0.0042 | | 0.1009 | |
| LSD (P=.10) | 126.89 | | 4.02 | | 0.0258 | | 1.132 | | 0.122 | | 1.318 | | 2.2582 | | 76.36 | |
| STD DEV | 69.22 | | 2.19 | | 0.01 | | 0.62 | | 0.07 | | 0.72 | | 1.23 | | 41.66 | |
| CV% | 6.13 | | 4.72 | | 1.31 | | 2.11 | | 1.31 | | 0.87 | | 2.42 | | 7.23 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.
CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 22. Navarro RACE Trial, 2017
Cooperator: Jacob Reed
Page Bishop, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

| Variety | Yield (lbs/acre) | | Turnout % | | Length (inches) | | Strength (g/tex) | | Micronaire | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-------------|------------------|----|-------------|-----|-----------------|----|------------------|----|------------|----|-------------|---|--------------------|---|---------------------------------|---|
| | | | | | | | | | | | | | | | | |
| PHY 330W3FE | 1623 | a | 45.2 | abc | 1.16 | bc | 31.90 | b | 5.1 | ab | 84.9 | a | 53.27 | a | 865 | a |
| ST 4949GLT | 1550 | ab | 45.6 | ab | 1.14 | d | 31.40 | bc | 5.0 | b | 84.4 | a | 53.27 | a | 826 | a |
| ST 4848GLT | 1547 | ab | 45.2 | abc | 1.16 | bc | 31.53 | bc | 5.0 | bc | 83.9 | a | 53.33 | a | 826 | a |
| DP 1646B2XF | 1473 | bc | 43.3 | de | 1.21 | a | 31.17 | bc | 5.0 | b | 83.6 | a | 53.97 | a | 795 | b |
| DP 1725B2XF | 1542 | ab | 46.1 | a | 1.18 | bc | 31.31 | bc | 5.3 | a | 84.3 | a | 52.00 | a | 788 | b |
| PHY 340W3FE | 1498 | b | 44.0 | bc | 1.17 | bc | 30.97 | bc | 5.2 | ab | 85.1 | a | 51.97 | a | 779 | b |
| DG 3385B2XF | 1474 | bc | 43.9 | cd | 1.16 | bc | 31.43 | bc | 5.2 | ab | 85.4 | a | 52.23 | a | 767 | b |
| CL 3885B2XF | 1374 | cd | 42.4 | def | 1.14 | cd | 30.37 | c | 5.0 | b | 84.0 | a | 52.87 | a | 727 | c |
| NG 4601B2XF | 1352 | cd | 41.9 | ef | 1.17 | bc | 35.17 | a | 5.1 | ab | 84.8 | a | 53.43 | a | 722 | d |
| FM 1953GLTP | 1281 | d | 41.1 | f | 1.18 | ab | 32.03 | b | 4.7 | c | 84.2 | a | 53.60 | a | 689 | e |
| Mean | 1471 | | 43.8 | | 1.17 | | 31.7 | | 5.1 | | 84.5 | | 52.99 | | 779 | |
| P>F | 0.0035 | | 0.0005 | | 0.0663 | | 0.0017 | | 0.0489 | | 0.2736 | | 0.6502 | | 0.0045 | |
| LSD (P=.10) | 123.097 | | 1.655 | | 0.035 | | 1.39 | | 0.274 | | 1.211 | | 1.968 | | 63.98 | |
| STD DEV | 86.94 | | 1.17 | | 0.02 | | 0.98 | | 0.19 | | 0.85 | | 1.39 | | 45.04 | |
| CV% | 5.91 | | 2.67 | | 2.11 | | 3.08 | | 3.81 | | 1.01 | | 2.62 | | 5.79 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated. CL= Croplan Genetics, DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 23. Weslaco Monster Cotton Variety Trial, 2017¹
Texas A&M AgriLife Research and Extension Center, Weslaco, Texas
Martin Barroso - Texas A&M AgriLife Research
Dr. Josh McGinty, Assistant Professor and Extension Agronomist
Rudy Alaniz, Technician and Clinton Livingston, Technician

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ² | |
|-----------------|------------------|-----|-----------|-----|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| DP 1555 B2RF | 2684 | a | 47.2 | bcd | 4.9 | d-j | 1.17 | g-m | 32.1 | d-i | 83.6 | f-n | 53.58 | c-i | 1436 | a |
| ST 4946 GLB2 | 2540 | ab | 44.3 | p-u | 5.0 | c-i | 1.13 | n-u | 32.8 | cde | 84.5 | a-g | 52.98 | g-k | 1346 | ab |
| PX 4A57 W3FE | 2522 | abc | 47.6 | ab | 4.7 | h-m | 1.11 | s-v | 30.9 | h-o | 83.6 | f-n | 53.60 | c-i | 1351 | ab |
| PHY 450 W3FE | 2486 | a-d | 44.9 | k-q | 5.2 | a-e | 1.12 | q-v | 33.7 | bc | 85.1 | a-d | 52.20 | jkl | 1298 | b-f |
| UA 222 | 2470 | a-e | 42.7 | v-y | 5.0 | c-i | 1.17 | f-l | 31.3 | e-o | 82.9 | l-q | 53.98 | a-g | 1335 | a-d |
| DP 1646 B2XF | 2453 | a-f | 47.1 | b-e | 4.8 | g-m | 1.22 | abc | 29.9 | o-s | 83.9 | d-n | 54.50 | a-e | 1337 | a-d |
| PHY 333 WRF | 2447 | a-f | 44.6 | n-s | 4.7 | h-m | 1.15 | i-o | 30.6 | i-p | 84.0 | d-m | 54.56 | a-d | 1336 | a-d |
| ST 4949 GLT | 2402 | b-g | 47.3 | bc | 5.1 | a-f | 1.13 | o-u | 31.6 | d-m | 83.4 | g-o | 52.43 | h-l | 1259 | b-i |
| PHY 490 W3FE | 2401 | b-g | 45.1 | j-p | 5.0 | c-i | 1.13 | o-u | 32.8 | c-f | 84.2 | c-j | 53.28 | d-j | 1277 | b-h |
| MON 16R341 B3XF | 2374 | b-g | 47.3 | bc | 4.7 | j-o | 1.25 | a | 34.6 | b | 84.6 | a-g | 55.00 | ab | 1306 | a-e |
| PX 5A57 W3FE | 2364 | b-h | 44.5 | o-t | 4.6 | l-p | 1.16 | g-n | 32.8 | c-f | 84.7 | a-f | 54.85 | abc | 1297 | b-f |
| PHY 312 WRF | 2351 | b-i | 45.0 | j-q | 4.9 | f-l | 1.17 | g-m | 31.5 | e-n | 84.6 | a-g | 54.75 | abc | 1287 | b-g |
| PX 4A52 W3FE | 2341 | b-i | 45.6 | h-o | 4.8 | g-m | 1.15 | j-p | 32.3 | c-h | 85.7 | a | 54.78 | abc | 1282 | b-g |
| PX 3A96 W3FE | 2341 | b-i | 43.7 | r-v | 4.7 | j-o | 1.18 | d-h | 31.9 | d-k | 84.2 | c-k | 54.80 | abc | 1283 | b-g |
| PX 4A54 W3FE | 2336 | b-i | 46.0 | e-l | 4.9 | e-k | 1.13 | n-u | 31.3 | f-o | 83.9 | e-n | 53.15 | f-j | 1242 | b-j |
| PX 3A99 W3FE | 2307 | b-j | 45.6 | h-o | 4.9 | d-j | 1.14 | l-s | 30.3 | l-r | 83.3 | i-o | 53.68 | b-i | 1239 | b-j |

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ² | |
|-----------------|------------------|-----|-----------|-----|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| | | | | | | | | | | | | | | | | |
| BX 1838 GLT | 1286 | a-j | 43.5 | m-q | 3.8 | o-s | 1.19 | ab | 28.2 | rst | 81.8 | g-n | 53.76 | a-i | 693 | a-g |
| FM 2007 GLT | 1266 | b-k | 41.1 | uv | 3.5 | s | 1.15 | c-i | 28.9 | l-t | 80.9 | j-n | 53.31 | b-k | 677 | a-h |
| PX 2A28 W3FE | 1266 | b-k | 43.1 | n-s | 3.5 | s | 1.15 | c-h | 28.7 | m-t | 81.5 | g-n | 52.25 | j-m | 667 | b-h |
| UA 103 | 1265 | b-k | 41.6 | tu | 4.2 | e-n | 1.17 | bcd | 32.3 | b-e | 83.4 | a-f | 54.71 | ab | 693 | a-h |
| PX 3A96 W3FE | 1263 | b-k | 44.1 | i-o | 4.0 | i-r | 1.12 | j-p | 29.1 | j-s | 81.2 | h-n | 53.71 | a-i | 678 | a-h |
| PX 4A62 W3FE | 1260 | d-k | 45.0 | e-l | 3.6 | qrs | 1.15 | c-h | 31.8 | b-f | 82.8 | a-h | 53.10 | c-k | 669 | b-h |
| PHY 444 WRF | 1255 | b-k | 45.5 | b-h | 3.5 | s | 1.21 | a | 31.5 | c-g | 83.6 | a-e | 53.30 | b-k | 670 | b-h |
| DP 1646 B2XF | 1241 | b-k | 46.0 | b-e | 4.2 | d-m | 1.14 | d-j | 29.9 | g-r | 81.8 | g-n | 54.26 | a-e | 673 | a-h |
| DG 3385 B2XF | 1234 | b-k | 43.5 | m-q | 4.4 | a-i | 1.11 | k-q | 29.6 | h-r | 82.8 | a-h | 53.94 | a-g | 665 | b-h |
| ST 5517 GLTP | 1228 | b-k | 41.8 | stu | 3.9 | m-s | 1.12 | h-n | 30.8 | d-k | 80.7 | mn | 53.88 | a-g | 661 | b-h |
| PX 4A54 W3FE | 1224 | b-k | 46.6 | abc | 3.9 | k-s | 1.09 | n-r | 29.3 | i-r | 82.3 | c-m | 52.79 | f-m | 647 | c-h |
| PHY 300 W3FE | 1222 | b-k | 46.0 | b-e | 3.9 | j-s | 1.09 | pqr | 28.5 | n-t | 82.0 | e-n | 52.94 | e-l | 647 | c-h |
| DG 3109 B2XF | 1217 | c-k | 43.0 | o-s | 4.3 | b-k | 1.08 | qr | 30.0 | f-r | 81.6 | g-n | 52.80 | f-m | 645 | c-h |
| ST 4949 GLT | 1198 | d-k | 45.8 | b-f | 4.4 | a-g | 1.08 | qrs | 28.6 | n-t | 82.2 | c-m | 52.58 | g-m | 630 | c-h |
| UA 222 | 1194 | d-k | 42.0 | r-u | 4.1 | g-p | 1.14 | e-k | 30.5 | e-m | 82.5 | a-j | 54.43 | a-d | 650 | c-h |
| PX 5B76 W3FE | 1193 | d-k | 43.5 | m-q | 4.0 | i-r | 1.11 | k-q | 28.7 | m-t | 82.4 | b-l | 53.74 | a-i | 641 | c-h |
| MON 16R341 B3XF | 1189 | d-k | 46.4 | a-d | 4.0 | h-q | 1.17 | b-e | 31.7 | b-g | 81.7 | g-n | 54.69 | ab | 650 | c-h |
| PX 5B73 W3FE | 1188 | d-k | 44.4 | h-o | 3.9 | l-s | 1.10 | l-r | 29.4 | i-r | 82.1 | e-n | 53.65 | a-j | 637 | c-h |
| CPS 16214 B2XF | 1180 | e-k | 44.9 | e-l | 4.8 | a | 1.10 | l-r | 30.3 | f-p | 82.1 | d-n | 53.10 | c-k | 627 | c-h |
| ST 5020 GLT | 1179 | e-k | 44.4 | g-n | 4.3 | c-l | 1.16 | b-g | 32.5 | bcd | 83.0 | a-g | 54.69 | ab | 644 | c-h |

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ² | |
|----------------|------------------|-----|-----------|------|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| | | | | | | | | | | | | | | | | |
| PX 5B73 W3FE | 2163 | g-m | 43.6 | s-v | 4.6 | l-p | 1.14 | k-r | 31.2 | g-o | 83.4 | g-o | 54.50 | a-e | 1178 | e-n |
| CPS 16214 B2XF | 2157 | g-m | 45.6 | h-o | 5.4 | a | 1.14 | m-u | 30.8 | h-o | 84.8 | a-e | 50.70 | n | 1094 | k-p |
| FM 1953 GLTP | 2122 | h-n | 41.1 | x-aa | 4.4 | op | 1.18 | d-h | 32.0 | d-k | 82.8 | m-q | 54.69 | abc | 1160 | g-o |
| BX 1837 GLT | 2110 | i-n | 44.3 | p-u | 4.6 | k-p | 1.18 | d-i | 31.2 | g-o | 82.7 | n-q | 54.58 | a-d | 1152 | g-o |
| HQ 210 CT | 2108 | i-n | 40.5 | aa | 5.3 | ab | 1.09 | v | 29.8 | o-s | 82.3 | opq | 50.55 | n | 1065 | l-q |
| NG 5007 B2XF | 2107 | i-n | 45.8 | g-n | 4.8 | g-m | 1.15 | i-o | 28.2 | t | 83.7 | e-n | 54.20 | a-g | 1142 | h-p |
| PHY 300 W3FE | 2106 | i-n | 46.4 | c-i | 4.8 | g-m | 1.11 | tuv | 30.2 | m-r | 83.0 | k-p | 53.18 | e-j | 1121 | j-p |
| FM 2007 GLT | 2089 | j-n | 41.9 | yx | 4.4 | op | 1.18 | d-h | 31.6 | d-m | 83.3 | h-o | 54.70 | abc | 1142 | h-p |
| NG 4601 B2XF | 2081 | j-n | 45.8 | f-m | 5.2 | a-e | 1.17 | f-l | 33.7 | bc | 84.1 | c-k | 52.38 | i-l | 1091 | k-p |
| PHY 330 W3FE | 2065 | j-n | 46.6 | b-h | 4.6 | k-p | 1.15 | j-q | 31.8 | d-l | 84.1 | d-l | 54.63 | abc | 1128 | i-p |
| PX 3A82 W3FE | 2061 | j-n | 45.1 | j-p | 4.6 | k-p | 1.13 | n-u | 32.7 | c-g | 85.4 | ab | 54.80 | abc | 1130 | i-p |
| ST 5517 GLTP | 2061 | j-n | 42.0 | yx | 4.5 | m-p | 1.18 | d-j | 33.1 | bcd | 82.9 | l-q | 54.70 | abc | 1127 | i-p |
| PX 2A28 W3FE | 2057 | k-n | 43.4 | t-w | 4.5 | m-p | 1.16 | g-n | 30.5 | k-q | 81.9 | pq | 54.38 | a-f | 1118 | j-p |
| DP 1725 B2XF | 1962 | l-o | 47.0 | b-e | 5.1 | a-f | 1.11 | r-v | 28.9 | rst | 81.7 | q | 51.63 | lmn | 1014 | pq |
| FM 1830 GLT | 1954 | l-o | 46.1 | d-k | 4.9 | e-k | 1.22 | ab | 32.2 | c-h | 83.7 | e-n | 54.26 | a-g | 1062 | m-q |
| DP 1518 B2XF | 1924 | mno | 44.4 | p-u | 4.7 | j-o | 1.15 | h-o | 30.3 | l-r | 84.1 | c-k | 54.58 | a-d | 1050 | n-q |
| UA 103 | 1886 | no | 42.1 | xyz | 4.8 | g-m | 1.17 | e-k | 32.1 | d-h | 84.4 | b-i | 54.80 | abc | 1033 | opq |
| AT 558 | 1744 | o | 42.4 | wxy | 5.0 | b-g | 1.19 | d-g | 36.7 | a | 85.3 | abc | 54.50 | a-e | 949 | q |

| | | | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|
| Mean | 2166 | 41.9 | 4.6 | 1.23 | 33.2 | 85.7 | 54.79 | 1187 |
| P>F | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0006 | <0.0001 | <0.0001 |
| HSD (P=.05) | 655.69 | 3.2148 | 0.53642 | 0.05827 | 2.8375 | 2.5485 | 2.0649 | 361.14 |
| STD DEV | 318.94 | 2.45 | 0.35 | 0.04 | 1.69 | 1.03 | 0.87 | 174.73 |
| CV% | 14.72 | 5.85 | 7.64 | 3.24 | 5.09 | 1.20 | 1.58 | 14.72 |

¹ Indicates the location was irrigated

² Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AT =AllTex, ATX = AllTexExperimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGrow, FM=FiberMax, NG=NexGen, PHY=Phytogen, PX = Phytogen Experimental, SSG= Seed Source Genetics, ST= Stoneville

Table 24. Corpus Christi Center Monster Cotton Variety Trial, 2017
Texas A&M AgriLife Research and Extension Center, Corpus Christi, Texas
Dr. Josh McGinty, Assistant Professor and Extension Agronomist
Rudy Alaniz, Technician and Clinton Livingston, Technician

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-----------------|---------------------|-----|--------------|-----|------------|-----|--------------------|-----|---------------------|-----|------------|-----|-----------------------|-----|------------------------------------|-----|
| PHY 340 W3FE | 1547 | a | 46.1 | b-e | 4.1 | f-o | 1.09 | o-r | 28.5 | o-t | 82.2 | c-m | 53.08 | d-k | 820 | a |
| PHY 330 W3FE | 1484 | abc | 45.2 | d-j | 3.8 | n-s | 1.13 | f-k | 30.5 | e-m | 82.6 | a-i | 53.84 | a-h | 799 | ab |
| PHY 312 WRF | 1472 | abc | 45.0 | e-l | 4.1 | f-o | 1.13 | f-l | 30.4 | f-o | 83.0 | a-g | 54.35 | a-e | 800 | ab |
| PX 4A57 W3FE | 1449 | a-d | 46.4 | a-d | 3.8 | n-s | 1.04 | t | 28.5 | p-t | 80.6 | n | 47.93 | n | 698 | a-g |
| ST 4946 GLB2 | 1409 | a-e | 42.5 | q-t | 4.3 | b-j | 1.12 | h-o | 32.6 | bcd | 83.6 | a-e | 54.30 | a-e | 766 | abc |
| PX 4A52 W3FE | 1397 | a-f | 44.1 | i-o | 3.8 | n-s | 1.09 | n-r | 30.1 | f-q | 82.4 | b-l | 53.33 | b-k | 745 | a-d |
| MON 16R346 B3XF | 1396 | a-f | 46.8 | abc | 4.4 | a-i | 1.18 | abc | 33.6 | b | 82.8 | a-h | 54.81 | a | 765 | abc |
| PHY 333 WRF | 1385 | a-g | 44.9 | e-l | 4.0 | h-q | 1.12 | i-p | 28.3 | q-t | 82.7 | a-h | 53.84 | a-h | 745 | a-d |
| PX 3A82 W3FE | 1384 | a-g | 45.9 | b-e | 3.7 | o-s | 1.07 | rs | 31.1 | d-i | 82.3 | b-m | 52.79 | f-m | 732 | a-e |
| PX 5A57 W3FE | 1376 | a-h | 43.2 | m-r | 3.9 | k-s | 1.10 | m-r | 31.4 | d-h | 83.0 | a-g | 53.68 | a-i | 741 | a-d |
| DP 1555 B2RF | 1367 | a-h | 45.7 | b-g | 4.6 | a-d | 1.12 | i-p | 31.0 | d-j | 83.0 | a-g | 54.14 | a-f | 740 | a-d |
| BX 1837 GLT | 1360 | a-h | 43.5 | m-q | 3.6 | rs | 1.14 | e-k | 29.5 | i-r | 80.9 | j-n | 53.05 | d-k | 724 | a-e |
| BX 1839 GLT | 1356 | a-h | 43.9 | k-p | 3.7 | p-s | 1.17 | bc | 28.4 | p-t | 81.3 | h-n | 53.51 | a-k | 728 | a-e |
| PHY 450 W3FE | 1350 | a-h | 43.7 | l-q | 4.7 | ab | 1.09 | o-r | 33.6 | b | 83.7 | abc | 53.69 | a-i | 725 | a-e |
| FM 1830 GLT | 1343 | a-h | 44.9 | e-l | 4.4 | a-g | 1.18 | ab | 31.7 | c-g | 82.7 | a-h | 54.68 | ab | 734 | a-e |
| ST 4848 GLT | 1319 | a-i | 45.4 | c-i | 4.5 | a-g | 1.11 | k-q | 29.3 | i-r | 82.4 | b-l | 53.65 | a-j | 707 | a-f |
| NG 5007 B2XF | 1313 | a-i | 45.3 | d-j | 4.4 | a-h | 1.08 | qr | 27.2 | t | 80.9 | k-n | 51.45 | m | 674 | a-h |
| PHY 490 W3FE | 1313 | a-i | 45.1 | d-k | 4.3 | b-j | 1.12 | h-n | 33.4 | bc | 84.1 | a | 54.68 | ab | 718 | a-f |
| NG 3406 B2XF | 1310 | a-i | 44.1 | j-o | 4.5 | a-f | 1.12 | i-p | 30.1 | f-q | 83.4 | a-f | 54.30 | a-e | 711 | a-f |
| PX 3A99 W3FE | 1290 | a-j | 45.7 | b-h | 4.3 | c-l | 1.12 | h-o | 29.9 | g-r | 82.0 | f-n | 53.73 | a-i | 694 | a-g |
| BX 1838 GLT | 1286 | a-j | 43.5 | m-q | 3.8 | o-s | 1.19 | ab | 28.2 | rst | 81.8 | g-n | 53.76 | a-i | 693 | a-g |
| FM 2007 GLT | 1266 | b-k | 41.1 | uv | 3.5 | s | 1.15 | c-i | 28.9 | l-t | 80.9 | j-n | 53.31 | b-k | 677 | a-h |

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-----------------|------------------|-----|-----------|-----|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| | | | | | | | | | | | | | | | | |
| PX 2A28 W3FE | 1266 | b-k | 43.1 | n-s | 3.5 | s | 1.15 | c-h | 28.7 | m-t | 81.5 | g-n | 52.25 | j-m | 667 | b-h |
| UA 103 | 1265 | b-k | 41.6 | tu | 4.2 | e-n | 1.17 | bcd | 32.3 | b-e | 83.4 | a-f | 54.71 | ab | 693 | a-h |
| PX 3A96 W3FE | 1263 | b-k | 44.1 | i-o | 4.0 | i-r | 1.12 | j-p | 29.1 | j-s | 81.2 | h-n | 53.71 | a-i | 678 | a-h |
| PX 4A62 W3FE | 1260 | d-k | 45.0 | e-l | 3.6 | qrs | 1.15 | c-h | 31.8 | b-f | 82.8 | a-h | 53.10 | c-k | 669 | b-h |
| PHY 444 WRF | 1255 | b-k | 45.5 | b-h | 3.5 | s | 1.21 | a | 31.5 | c-g | 83.6 | a-e | 53.30 | b-k | 670 | b-h |
| DP 1646 B2XF | 1241 | b-k | 46.0 | b-e | 4.2 | d-m | 1.14 | d-j | 29.9 | g-r | 81.8 | g-n | 54.26 | a-e | 673 | a-h |
| DG 3385 B2XF | 1234 | b-k | 43.5 | m-q | 4.4 | a-i | 1.11 | k-q | 29.6 | h-r | 82.8 | a-h | 53.94 | a-g | 665 | b-h |
| ST 5517 GLTP | 1228 | b-k | 41.8 | stu | 3.9 | m-s | 1.12 | h-n | 30.8 | d-k | 80.7 | mn | 53.88 | a-g | 661 | b-h |
| PX 4A54 W3FE | 1224 | b-k | 46.6 | abc | 3.9 | k-s | 1.09 | n-r | 29.3 | i-r | 82.3 | c-m | 52.79 | f-m | 647 | c-h |
| PHY 300 W3FE | 1222 | b-k | 46.0 | b-e | 3.9 | j-s | 1.09 | pqr | 28.5 | n-t | 82.0 | e-n | 52.94 | e-l | 647 | c-h |
| DG 3109 B2XF | 1217 | c-k | 43.0 | o-s | 4.3 | b-k | 1.08 | qr | 30.0 | f-r | 81.6 | g-n | 52.80 | f-m | 645 | c-h |
| ST 4949 GLT | 1198 | d-k | 45.8 | b-f | 4.4 | a-g | 1.08 | qrs | 28.6 | n-t | 82.2 | c-m | 52.58 | g-m | 630 | c-h |
| UA 222 | 1194 | d-k | 42.0 | r-u | 4.1 | g-p | 1.14 | e-k | 30.5 | e-m | 82.5 | a-j | 54.43 | a-d | 650 | c-h |
| PX 5B76 W3FE | 1193 | d-k | 43.5 | m-q | 4.0 | i-r | 1.11 | k-q | 28.7 | m-t | 82.4 | b-l | 53.74 | a-i | 641 | c-h |
| MON 16R341 B3XF | 1189 | d-k | 46.4 | a-d | 4.0 | h-q | 1.17 | b-e | 31.7 | b-g | 81.7 | g-n | 54.69 | ab | 650 | c-h |
| PX 5B73 W3FE | 1188 | d-k | 44.4 | h-o | 3.9 | l-s | 1.10 | l-r | 29.4 | i-r | 82.1 | e-n | 53.65 | a-j | 637 | c-h |
| CPS 16214 B2XF | 1180 | e-k | 44.9 | e-l | 4.8 | a | 1.10 | l-r | 30.3 | f-p | 82.1 | d-n | 53.10 | c-k | 627 | c-h |
| ST 5020 GLT | 1179 | e-k | 44.4 | g-n | 4.3 | c-l | 1.16 | b-g | 32.5 | bcd | 83.0 | a-g | 54.69 | ab | 644 | c-h |
| DP 1725 B2XF | 1165 | e-k | 47.6 | abc | 4.5 | a-f | 1.09 | o-r | 27.4 | st | 81.0 | i-n | 52.40 | i-m | 612 | d-h |
| DP 1518 B2XF | 1160 | e-k | 43.8 | l-q | 4.3 | b-k | 1.12 | i-p | 28.9 | k-t | 82.6 | a-h | 53.83 | a-h | 624 | c-h |
| NG 4601 B2XF | 1156 | e-k | 46.6 | abc | 4.6 | a-d | 1.08 | qr | 30.9 | d-j | 81.4 | h-n | 53.35 | b-k | 616 | d-h |
| DP 1549 B2XF | 1150 | e-k | 44.5 | f-m | 4.5 | a-g | 1.07 | rs | 29.1 | j-s | 80.9 | lmn | 52.43 | h-m | 604 | d-h |
| CPS C515-7B | 1148 | e-k | 42.6 | p-t | 4.7 | abc | 1.12 | h-n | 30.6 | e-l | 83.5 | a-f | 54.11 | a-f | 621 | c-h |
| HQ 210 CT | 1143 | f-k | 40.1 | v | 4.6 | a-e | 1.05 | st | 30.3 | f-p | 81.4 | h-n | 51.56 | lm | 591 | e-h |
| FM 1953 GLTP | 1127 | g-k | 41.7 | tu | 3.8 | m-s | 1.17 | b-e | 30.4 | e-n | 82.3 | b-m | 54.51 | abc | 614 | d-h |
| DG 3544 B2XF | 1116 | h-k | 43.5 | m-q | 4.7 | ab | 1.14 | e-k | 32.6 | bcd | 83.7 | a-d | 54.03 | a-f | 603 | d-h |

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|--------------|------------------|-----|-------------|-----|------------|-----|-----------------|-----|------------------|-----|-------------|-----|--------------------|-----|---------------------------------|-----|
| | | | | | | | | | | | | | | | | |
| DG 3526 B2XF | 1064 | ijk | 46.7 | abc | 4.4 | a-h | 1.08 | rs | 28.5 | n-t | 81.5 | g-n | 52.14 | klm | 555 | gh |
| AT 558 | 1040 | jk | 41.1 | uv | 4.3 | c-l | 1.16 | b-f | 35.6 | a | 83.9 | ab | 54.88 | a | 571 | fgh |
| CPS C515-5B | 1020 | k | 43.5 | m-q | 4.6 | a-d | 1.13 | g- | 31.1 | d-i | 82.5 | b-k | 54.24 | a-e | 553 | gh |
| DG 3605 B2XF | 1002 | k | 45.4 | c-j | 4.2 | d-m | 1.16 | b-g | 30.2 | f-p | 81.8 | g-n | 54.34 | a-e | 545 | h |
| DG 3526 B2XF | 1064 | ijk | 46.7 | abc | 4.4 | a-h | 1.08 | rs | 28.5 | n-t | 81.5 | g-n | 52.14 | klm | 555 | gh |
| Mean | 1259 | | 44.3 | | 4.2 | | 1.12 | | 30.3 | | 82.3 | | 53.50 | | 674 | |
| P>F | 0.0162 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0401 | |
| LSD (P=.05) | 266.04 | | 1.339 | | 0.410 | | 0.030 | | 1.891 | | 1.598 | | 1.418 | | 148.13 | |
| STD DEV | 220.94 | | 1.89 | | 0.43 | | 0.04 | | 2.08 | | 1.36 | | 1.44 | | 121.53 | |
| CV% | 17.55 | | 4.25 | | 10.41 | | 3.68 | | 6.88 | | 1.65 | | 2.69 | | 18.04 | |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AT =AllTex, ATX = AllTexExperimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGrow, FM=FiberMax, NG=NexGen, PHY=Phytogen, PX = Phytogen Experimental, SSG= Seed Source Genetics, ST= Stoneville

Table 25. Matagorda County Monster Cotton Variety Trial, 2017

Cooperator: Hansen Farms

Brent Batechelor, County Extension Agent- Agriculture and Natural Resources

Dr. Josh McGinty, Assistant Professor and Extension Agronomist

Rudy Alaniz and Clinton Livingston, Technicians

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|--------------|------------------|-----|-----------|-----|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| PHY 312 WRF | 1388 | a | 42.5 | e-k | 4.9 | c-k | 1.1 | f-i | 32.8 | k-p | 85.7 | a-d | 54.48 | a-d | 755 | a |
| ST 4949 GLT | 1335 | ab | 44.7 | ab | 5.0 | c-f | 1.1 | k-o | 31.0 | rs | 84.7 | d-n | 52.95 | e-i | 706 | a-d |
| PX 4A62 W3FE | 1333 | ab | 42.0 | i-o | 4.5 | p | 1.2 | a-d | 36.8 | a-d | 86.0 | abc | 55.18 | a | 735 | ab |
| ST 4946 GLB2 | 1326 | abc | 40.2 | tuv | 4.9 | e-l | 1.1 | l-o | 33.2 | h-o | 84.7 | e-n | 54.80 | abc | 727 | abc |
| PX 4A52 W3FE | 1321 | abc | 42.0 | i-o | 4.8 | e-l | 1.1 | g-k | 34.0 | g-l | 86.3 | ab | 54.53 | a-d | 720 | abc |
| PX 3A82 W3FE | 1309 | a-d | 41.5 | m-q | 4.7 | j-n | 1.1 | j-n | 35.8 | b-e | 86.4 | a | 55.05 | ab | 721 | abc |
| PX 3A99 W3FE | 1295 | a-e | 42.5 | f-l | 4.9 | c-k | 1.1 | g-l | 33.7 | g-l | 85.3 | b-j | 54.48 | a-d | 706 | a-d |
| PHY 330 W3FE | 1292 | a-e | 43.2 | d-g | 4.7 | k-n | 1.1 | h-n | 32.8 | k-q | 85.3 | b-j | 54.93 | abc | 710 | a-d |
| PX 4A57 W3FE | 1260 | a-f | 44.4 | abc | 4.8 | g-n | 1.1 | o | 34.5 | e-i | 84.5 | h-n | 54.50 | a-d | 687 | a-e |
| PX 5B73 W3FE | 1249 | a-f | 41.7 | j-p | 5.0 | b-e | 1.1 | g-l | 33.4 | h-n | 84.9 | d-n | 53.80 | b-f | 672 | a-g |
| NG 3406 B2XF | 1248 | a-f | 40.4 | stu | 4.8 | f-n | 1.1 | l-o | 31.7 | o-s | 84.2 | k-n | 54.63 | a-d | 681 | a-f |
| PX 3A96 W3FE | 1245 | a-f | 41.4 | n-r | 4.9 | d-k | 1.1 | f-i | 32.8 | k-q | 85.7 | a-e | 55.00 | ab | 685 | a-e |
| PX 4A54 W3FE | 1218 | a-g | 42.8 | e-i | 4.9 | d-k | 1.1 | i-n | 33.8 | g-l | 85.5 | a-h | 54.45 | a-d | 664 | a-h |
| PX 5B76 W3FE | 1214 | a-g | 41.4 | n-s | 4.9 | c-i | 1.1 | g-j | 32.9 | k-p | 84.4 | i-n | 54.28 | a-d | 659 | a-h |
| ST 5020 GLT | 1212 | a-g | 40.6 | q-u | 4.8 | h-n | 1.2 | b-e | 35.1 | efg | 85.4 | b-i | 55.08 | ab | 667 | a-g |
| PX 2A28 W3FE | 1196 | a-g | 41.5 | l-q | 4.8 | e-m | 1.2 | def | 33.0 | j-o | 84.5 | g-n | 54.40 | a-d | 651 | a-h |
| FM 1953 GLTP | 1196 | a-g | 39.0 | wxy | 4.6 | nop | 1.2 | efg | 32.5 | l-q | 84.2 | k-n | 54.85 | abc | 656 | a-h |
| BX 1837 GLT | 1194 | a-g | 39.8 | uvw | 4.7 | j-n | 1.2 | cde | 32.7 | k-q | 84.4 | i-n | 54.93 | abc | 656 | a-h |
| PHY 340 W3FE | 1191 | a-g | 43.5 | cde | 4.9 | d-k | 1.1 | g-j | 34.5 | e-j | 85.3 | b-j | 54.53 | a-d | 649 | a-h |
| DP 1646 B2XF | 1189 | a-g | 42.6 | e-j | 4.9 | c-j | 1.2 | abc | 31.5 | p-s | 84.8 | d-n | 54.33 | a-d | 644 | a-i |
| FM 1830 GLT | 1148 | a-h | 41.6 | k-p | 5.0 | c-g | 1.2 | a-d | 33.2 | h-n | 85.6 | a-f | 53.90 | a-e | 620 | a-j |

| Variety | Yield (lbs/acre) | | Turnout % | | Micronaire | | Length (inches) | | Strength (g/tex) | | Uniformity | | Loan Value (¢/lbs) | | Lint Value (\$/Ac) ¹ | |
|-----------------|------------------|-----|-----------|-----|------------|-----|-----------------|-----|------------------|-----|------------|-----|--------------------|-----|---------------------------------|-----|
| | | | | | | | | | | | | | | | | |
| PHY 300 W3FE | 1137 | a-i | 44.1 | bcd | 5.0 | c-i | 1.1 | mn | 31.7 | o-s | 84.6 | f-n | 53.45 | d-g | 609 | b-k |
| PX 5A57 W3FE | 1136 | a-i | 40.4 | r-u | 4.6 | m-p | 1.1 | h-n | 35.8 | cde | 85.5 | a-h | 54.98 | abc | 625 | a-i |
| ST 4848 GLT | 1128 | a-j | 43.1 | d-g | 5.2 | ab | 1.1 | no | 31.0 | rs | 84.4 | i-n | 51.98 | ij | 585 | c-l |
| BX 1839 GLT | 1110 | b-j | 41.1 | o-t | 4.7 | k-n | 1.2 | cde | 31.9 | n-r | 85.0 | c-m | 54.98 | abc | 610 | b-k |
| PHY 333 WRF | 1108 | b-j | 42.0 | i-o | 4.8 | e-l | 1.1 | g-j | 32.7 | k-q | 85.5 | a-g | 54.40 | a-d | 604 | b-l |
| ST 5517 GLTP | 1067 | c-k | 39.3 | vwx | 4.8 | g-n | 1.2 | efg | 34.5 | e-j | 84.5 | h-n | 55.00 | ab | 587 | c-l |
| NG 4601 B2XF | 1064 | c-k | 42.5 | e-k | 5.4 | a | 1.1 | g-j | 34.6 | e-h | 85.1 | c-m | 51.60 | j | 550 | e-m |
| PHY 450 W3FE | 1053 | d-k | 41.5 | m-q | 5.4 | a | 1.1 | mn | 37.0 | abc | 85.0 | c-m | 51.45 | j | 542 | f-n |
| PHY 444 WRF | 1040 | e-k | 43.0 | e-h | 4.5 | op | 1.2 | a-d | 34.1 | f-k | 85.6 | a-f | 55.08 | ab | 573 | d-l |
| MON 16R346 B3XF | 1022 | f-k | 41.9 | i-p | 4.9 | e-l | 1.2 | a | 35.5 | def | 85.4 | b-i | 54.53 | a-d | 558 | e-m |
| DG 3385 B2XF | 1022 | f-k | 41.4 | n-q | 5.2 | ab | 1.1 | i-n | 31.0 | rs | 85.6 | a-f | 51.98 | ij | 531 | g-n |
| PHY 490 W3FE | 1001 | f-l | 41.8 | i-p | 5.0 | c-h | 1.1 | h-n | 37.3 | ab | 86.2 | ab | 53.33 | d-h | 533 | g-n |
| BX 1838 GLT | 967 | g-l | 40.9 | p-t | 4.7 | l-o | 1.2 | b-e | 32.6 | l-q | 84.5 | g-n | 54.90 | abc | 531 | g-n |
| DP 1518 B2XF | 965 | g-l | 41.6 | k-p | 4.9 | c-k | 1.1 | g-l | 31.4 | qrs | 84.7 | e-n | 54.23 | a-e | 524 | h-n |
| NG 5007 B2XF | 962 | g-l | 41.4 | n-q | 4.7 | k-o | 1.1 | g-l | 30.4 | s | 83.9 | n | 54.53 | a-d | 525 | h-n |
| CPS 16214 B2XF | 923 | h- | 41.6 | k-p | 5.3 | a | 1.1 | h- | 32.7 | k-q | 84.7 | e-n | 51.43 | j | 475 | k-p |
| FM 2007 GLT | 917 | h- | 38.7 | xy | 4.7 | l-o | 1.1 | fgh | 32.6 | l-q | 84.1 | lmn | 54.83 | abc | 503 | i-o |
| DP 1522 B2XF | 891 | h- | 42.3 | g-n | 5.3 | a | 1.1 | h- | 33.4 | h-m | 85.3 | b-i | 51.93 | ij | 463 | l-p |
| DG 3605 B2XF | 876 | i-m | 41.9 | i-p | 5.0 | b-e | 1.2 | ab | 32.0 | m-r | 85.5 | a-g | 53.90 | a-e | 471 | k-p |
| CG 3885 B2XF | 874 | j-n | 42.4 | f-m | 5.0 | c-h | 1.1 | g-l | 32.6 | l-q | 85.1 | c-k | 53.80 | b-f | 471 | k-p |
| MON 16R341 B3XF | 872 | j-n | 42.3 | g-n | 4.8 | i-n | 1.2 | a | 35.1 | efg | 85.3 | b-i | 55.10 | ab | 480 | j-p |
| DP 1549 B2XF | 815 | k-n | 42.1 | h-o | 5.1 | bcd | 1.1 | l-o | 33.0 | k-p | 84.1 | mn | 52.48 | g-j | 427 | m-q |
| DP 1725 B2XF | 755 | lm | 45.2 | a | 5.1 | bcd | 1.1 | g-j | 32.1 | m-r | 84.3 | j-n | 53.68 | c-g | 403 | n-q |
| AT 558 | 672 | mn | 38.1 | y | 4.9 | e-l | 1.2 | a-d | 37.8 | a | 85.7 | a-d | 54.55 | a-d | 364 | opq |
| DG 3526 B2XF | 669 | mn | 43.3 | def | 5.1 | bc | 1.1 | k-o | 33.1 | i-o | 85.1 | c-l | 52.55 | f-j | 352 | pq |
| CPS C1206D B2XF | 612 | n | 41.7 | j-p | 5.4 | a | 1.2 | cde | 38.1 | a | 85.6 | a-e | 52.08 | hij | 317 | q |

| Variety | Yield (lbs/acre) | Turnout % | Micronaire | Length (inches) | Strength (g/tex) | Uniformity | Loan Value (¢/lbs) | Lint Value (\$/Ac) ¹ |
|-------------|------------------|-----------|------------|-----------------|------------------|------------|--------------------|---------------------------------|
| Mean | 1085 | 41.8 | 4.9 | 1.19 | 33.5 | 85.1 | 53.99 | 587 |
| P>F | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| LSD (P=.05) | 262.57 | 0.985 | 0.203 | 0.028 | 1.464 | 1.021 | 1.302 | 142.00 |
| STD DEV | 256.12 | 1.57 | 0.25 | 0.04 | 2.07 | 0.88 | 1.39 | 142.48 |
| CV% | 23.60 | 3.76 | 5.16 | 3.30 | 6.16 | 1.04 | 2.57 | 24.28 |

¹ Lint values were calculated using the 2017 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AT =AllTex, ATX = AllTexExperimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGrow, FM=FiberMax, NG=NexGen, PHY=Phytogen, PX = Phytogen Experimental, SSG= Seed Source

**Table 26. Weslaco Monster
Multi-Year Summary**

| Variety* | Yield (lbs/A) | |
|--------------|---------------|-----|
| | 2-Year | |
| DP 1555 B2RF | 2465 | a |
| PHY 333 WRF | 2399 | ab |
| PHY 312 WRF | 2360 | abc |
| DP 1646 B2XF | 2341 | abc |
| PHY 444 WRF | 2320 | abc |
| DG 3385 B2XF | 2276 | a-d |
| ST 4949 GLT | 2261 | a-d |
| UA 222 | 2241 | a-d |
| NG 3406 B2XF | 2195 | bcd |
| DP 1518 B2XF | 2163 | cde |
| ST 4848 GLT | 2159 | cde |
| NG 5007 B2XF | 2059 | def |
| FM 2007 GLT | 2046 | def |
| FM 1830 GLT | 1938 | ef |
| UA 103 | 1907 | f |
| Mean | 2209 | |
| LSD (P=.05) | 230.7 | |
| P>F | <0.0001 | |
| CV % | 12.3 | |

*Varieties ranked according to 2-year mean of 2016 and 2017 data

**Table 27. Corpus Christi Monster
Multi-Year Summary**

| Variety* | Yield (lbs/A) | | | |
|--------------|---------------|----|--------|-----|
| | 3-Year | | 2-Year | |
| PHY 312 WRF | 1440 | a | 1468 | a |
| PHY 333 WRF | 1306 | ab | 1369 | ab |
| PHY 444 WRF | 1234 | bc | 1287 | bc |
| NG 3406 B2XF | 1227 | bc | 1339 | ab |
| UA 103 | 1209 | bc | 1239 | bcd |
| FM 2007 GLT | 1199 | bc | 1218 | bcd |
| NG 5007 B2XF | 1183 | bc | 1291 | bc |
| DG 3385 B2XF | 1180 | bc | 1264 | bcd |
| UA 222 | 1151 | c | 1137 | cd |
| ST 4848 GLT | | | 1362 | ab |
| DP 1646 B2XF | | | 1290 | bc |
| FM 1830 GLT | | | 1273 | bc |
| DG 3526 B2XF | | | 1178 | cd |
| ST 4949 GLT | | | 1137 | cd |
| DG 3544 B2XF | | | 1116 | d |
| Mean | 1237 | | 1265 | |
| LSD (P=.05) | 141.6 | | 154.7 | |
| P>F | 0.0043 | | 0.0004 | |
| CV % | 15.2 | | 13.8 | |

* Varieties ranked according to 3-year, then 2-year averages.



<http://cotton.tamu.edu>

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