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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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ACKNOWLEDGMENTS

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.

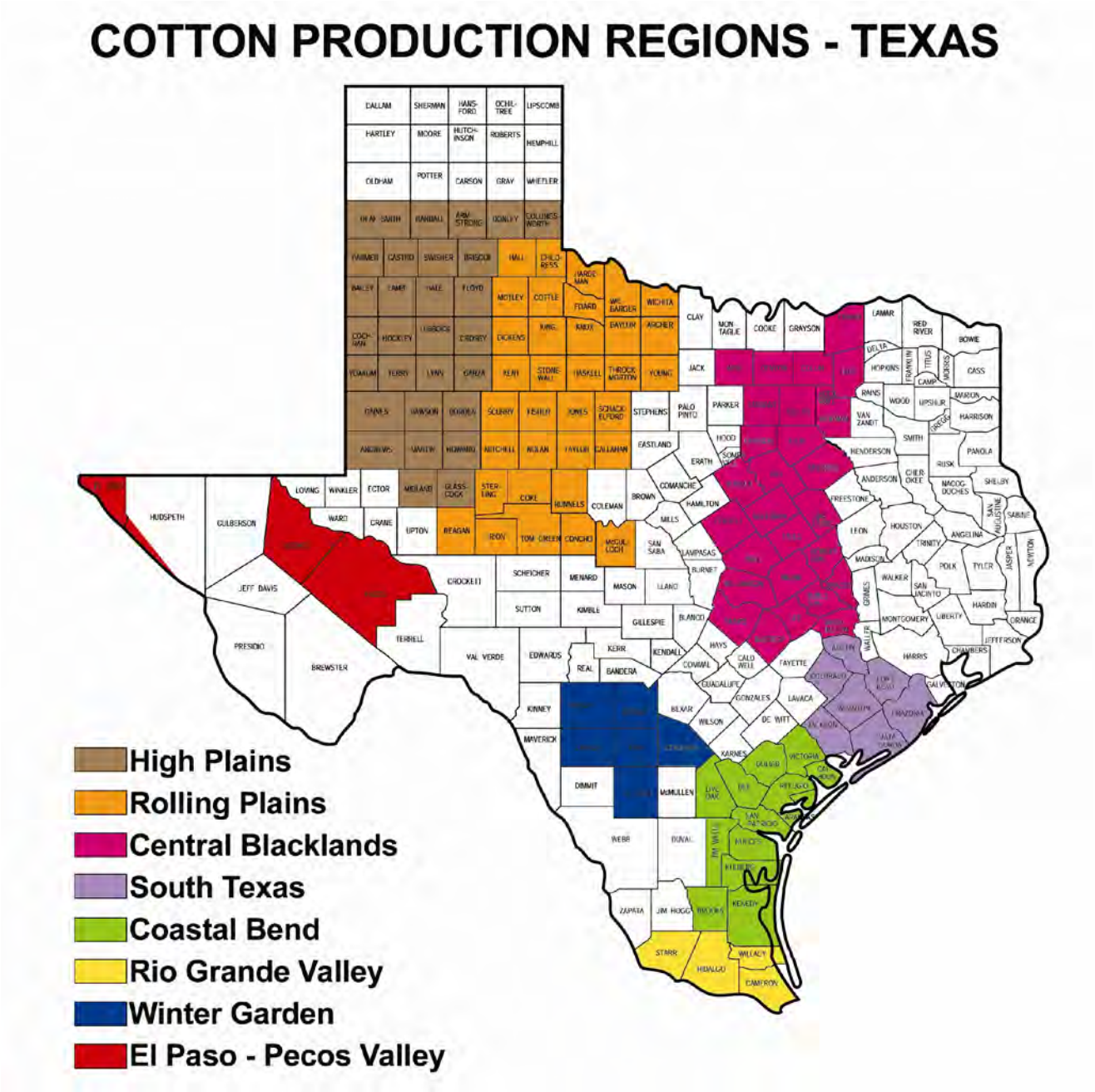
All the major cotton seed companies with GlyTol® LibertyLink®, XtendFlex® or Enlist® technology had the opportunity to include at least one variety in the RACE trial at each location. All varieties were treated with either Aeris or Avicta Complete Pak seed treatment. Included in this publication are 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, cooperator, 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
Hildalgo	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	Mahalitc 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	Hidalgo[1]	Weslaco[1]	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**

[1]Indicates 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	Burleson[1]	Medina[1]	Mean
Mean Yield (lbs/A)	753	2369	
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**

[1]Indicates 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	McLennnan	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, 2017[1]

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, 2017[1]
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 Trial[2], 2017
Cooperator: Hajovosky Farms
Michael Hiller, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist[1]

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.
[2]This 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 Trial[2], 2017[1]
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.
[2]This location was harvested following Hurricane Harvey which impact yields.

Table 16. Colorado County RACE Trial[2], 2017
Cooperator: Mahalitc 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.
[2]This 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, 2017[2]
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, 2017[1]
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.

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