

**REPLICATED AGRONOMIC COTTON EVALUATION (RACE)
SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2016**



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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.

2016 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 2016. According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2016 Crop” survey, the estimated percentage of upland cotton planted to specific Brands in Texas are as follows: Alltex/DynaGro had 8.1%, Americot/NexGen had 33.1%, Bayer CropScience – FiberMax had 26.1%, Bayer CropScience – Stoneville had 6.7%, Croplan Genetics had 0.2%, Delta Pine had 16.8%, and Phytogen had 8.4%.

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 planted in 2016 and 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, weather was not much of a hindrance to harvest, unlike the Upper Gulf Coast and

Blacklands. In the Upper Gulf Coast and Blackland regions, the trials represent below average yields, which were common in 2016. Most of these lower yields were due to very saturated conditions between planting and early bloom followed by an extended dry period throughout boll fill, followed by extended wet period in mid-August and into September, which decreased yield, fiber quality, and seed quality.

Mean non-irrigate locations yields for the 2016 RACE Trials ranged from 1425 lbs/ac for Nueces Co – Lawhon location to 421 lbs/ac for Delta Co location. Mean irrigated location yields ranged from 2129 lbs/ac for the Hidalgo location to 968 lbs/ac for the Fort Bend Co location.

All the major cotton seed companies with RoundupFlex® or Glytol® or Roundup XtendFlex® and Bt2® or Widestrike® 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 company. See descriptions on page 5-10.

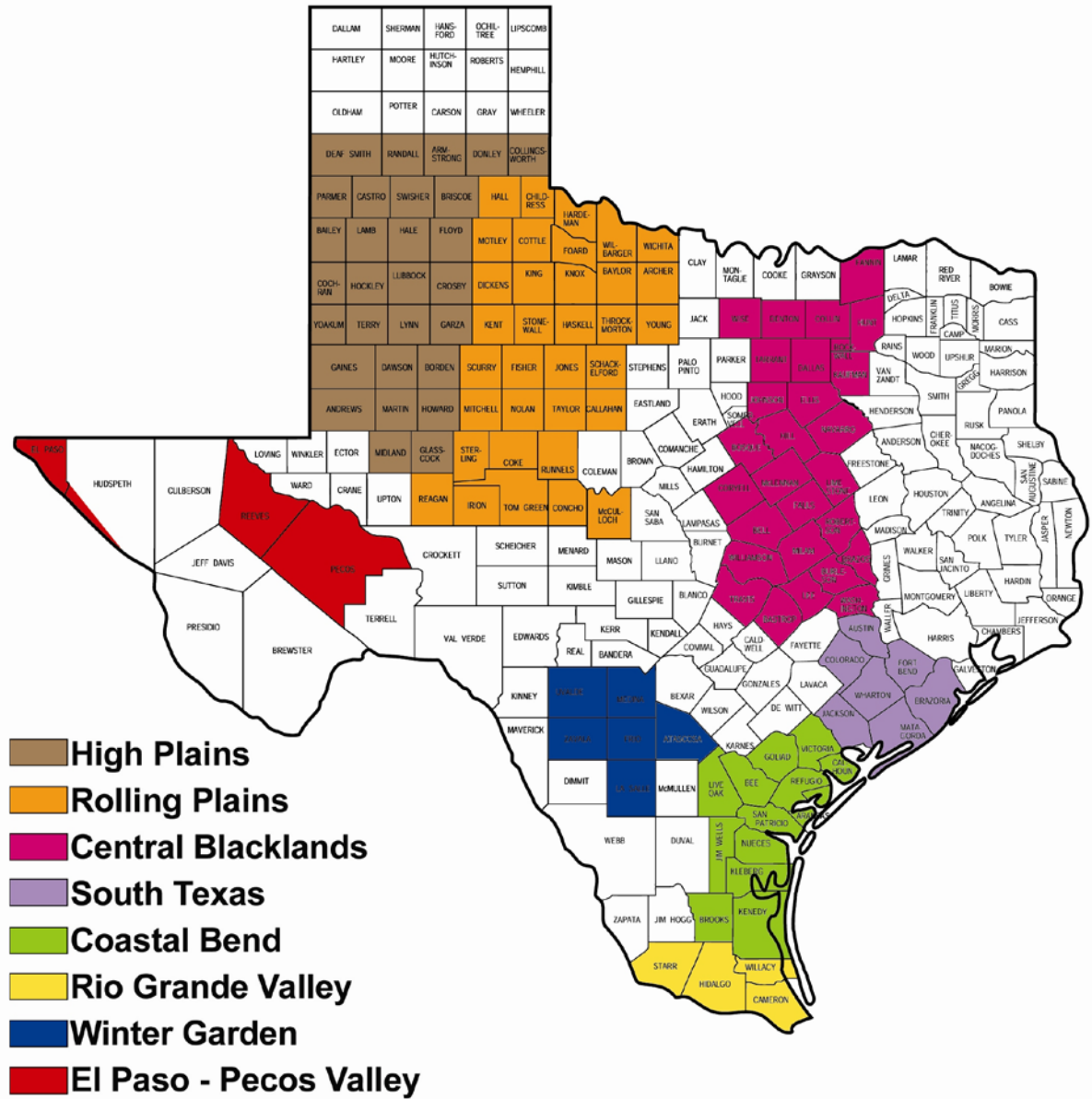
In addition to the RACE trials, three Monster cotton variety trials (Tables 25-27) were conducted in 2016 and the final yields and grades are provided in this publication. Table 1 provides a list of cooperators, planting and harvest dates, row spacing and plot area for each location. Tables 2 - 6 show numerical rankings based upon lint yield for the varieties across all locations within a production region.

Tables 7 to 24 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 95% confidence level.

Figure 1. Cotton Production Regions of Texas

COTTON PRODUCTION REGIONS - TEXAS



Variety Characteristics/Highlights

Below are the cotton variety characteristics and highlights that were included in the 2016 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.

ALLTEX NITRO 44B2F

- Semi-smooth leaf
- Excellent seedling vigor
- Medium maturity
- Superior fiber quality with very long staple
- Premium micronaire in high micronaire conditions
- Adapted to irrigated South Texas, Texas High Plains and Concho Valley

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 1044B2RF

- Semi-smooth leaf
- Mid-full maturity
- Excellent fit on dryland and limited irrigation
- Very good Verticillium and Bacterial Blight resistance

DeltaPine 1219B2RF

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

DeltaPine 1252B2RF

- Smooth leaf
- Medium-tall plant height
- Great fit for irrigated and more productive full season environments

DeltaPine 1359B2RF

- Smooth Leaf
- Full- season maturity
- Aggressive growth habits, requiring aggressive PGR management, especially pre-bloom
- Responsive to high-yield environments with high yield potential

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

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 13125B2F

- Semi-smooth leaf
- Medium maturity
- Good fiber quality and turnout
- Adapted to Lower Rio Grande Valley and Southeastern US

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 1944GLB2

- GlyTol® + LibertyLink® and Bollgard II® technology
- Early-medium maturity....more towards medium maturity
- Widely adapted across entire Cotton Belt – irrigated or dryland
- Well suited for limited irrigation

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 1511B2RF

- Medium maturity, Semi-smooth leaf
- Medium to Tall plant height
- Well adapted to irrigated or dryland throughout all areas of Texas
- High turnout and very good fiber quality

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 333WRF

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

Phytogen 339WRF

- Indeterminate, very early maturing
- Semi-smooth leaf
- Medium-tall plant height
- Excellent seedling vigor

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 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 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 2016 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 19	Aug 5	40	12 rows X 1385 ft	Irrigated	1.27
Hidalgo	AgriLife Research Farm	Mar 16	Aug 3	40	4 rows x 37 ft	Irrigated	0.003
Nueces	Darrell Lawhon	Mar 28	Aug 12	38	6 rows x 2980 ft	Dryland	1.3
Nueces	Jim Massey	Mar 31	Aug 19	30	8 rows x 3050 ft	Dryland	1.4
Nueces	AgriLife Research Farm	Mar 29	Aug 19	38	4 rows x 35 ft	Dryland	0.005
San Patricio	Robert Reider	Mar 30	Aug 29	38	6 rows X 2400 ft	Dryland	1.05
DeWitt	Tracy Metting	Apr 12	Sep 9	38	6 rows X 990 ft	Dryland	.043
Jackson	Sappington Farms	Mar 29	Sept 16	38	12 rows x 2350 ft	Dryland	2.05
Matagorda	Hansen Farms	Mar 31	Oct 11	40	6 rows x 2150 ft	Dryland	0.98
Wharton	Kresta Farms	Apr 2	Sept 27	40	6 rows x 1378 ft	Dryland	0.65

County	Cooperator	Planting Date	Harvest Date	Row Spacing (inches)	Plot Dimensions	Irrigated or Dryland	Area harvested/plot
Fort Bend	Alan and Lisa Stasney	Apr 5	Oct 5	36	12 rows x 1330 ft	Irrigated	1.1
Colorado	Mahalitc Farms	Apr 7	Sept 16	36	12 rows x 1600 ft	Irrigated	1.3
Burleson	AgriLife Research Farm	Apr 4	Sep 13	40	2 rows x 525 ft	Irrigated	0.08
Williamson	Adam & Ricky Krueger	Apr 5	Oct 17	38	6 rows x 1120 ft	Dryland	0.49
Milam	Jay Beckhusen	Apr 8	Sept 23	30	8 rows x 700 ft	Dryland	0.32
Navarro	Jacob Reed	June 1	Nov 21	30	12 rows x 813 ft	Dryland	0.56
Medina	Kriewald Farms	Apr 6	Sept 16	36	4 rows x 825 ft	Irrigated	0.23
Delta	Pat Pilgrim	June 1	Nov 21	30	12 rows x 2100	Dryland	1.45
Hildago (Monster Var Trial)	AgriLife Research Farm	Mar 16	Aug 3	40	2 rows x 37 ft	Dryland	0.003
Nueces (Monster Var Trial)	AgriLife Research Farm	Mar 19	Aug 9	38	2 rows x 35 ft	Dryland	0.005
Matagorda (Monster Var Trial)	Hansen Farms	Apr 4	Oct 4	40	2 rows x 35 ft	Dryland	0.002

Table 2. Variety ranking based on lint yield for irrigated sites in the LRGV, 2016.

Variety	Trial		Mean
	Hidalgo ¹	Weslaco ¹	
PHY 333 WRF	6	3	4.5
DG 3526 B2XF	1	9	5
DP 1646 B2XF	2	8	5
CL 3885 B2XF	3	7	5
ST 4848 GLT	4	6	5
NG 5007 B2XF	5	5	5
ST 6182 GLT	7	4	5.5
DP 1518 B2XF	9	2	5.5
FM 2007 GLT	10	10	10

¹Indicates the location was irrigated.

Table 3. Variety ranking based on lint yield in the Coastal Bend, 2016.

Variety	Trial					Mean
	Nueces-Lawhon	Nueces - Massey	Corpus Christi	San Patricio	DeWitt	
PHY 312 WRF	2	2	1	6	1	2.4
PHY 333 WRF	5	1	2	3	2	2.6
DP 1646 B2XF	3	7	4	2	4	4.0
DG 3526 B2XF	4	6	6	1	3	4.0
NG 5007 B2XF	8	3	3	4	5	4.6
PHY 444 WRF	1	4	5	9		4.8
DP 1522 B2XF	9	5	10	5	7	7.2
ST 4848 GLT	6	8	8	7	9	7.6
ST 6182 GLT	7	9	7	8	8	7.8
FM 2007 GLT	10	10	9	10	6	9.0

Table 4. Variety ranking based on lint yield in the Upper Gulf Coast Counties, 2016.

Variety	Trial					Mean
	Jackson	Matagorda	Wharton	Fort Bend	Colorado	
DP 1646B2XF	8	3	2	2	3	3.6
NG 5007B2XF	10	5	1	1	6	4.6
PHY 312WRF	7	1	3	3	9	4.6
ST 6182GLT	1	9	8	5	2	5.0
PHY 333WRF	3	2	9	4	8	5.2
DG 3526B2XF	2	6	6	9	4	5.4
ST 4848GLT	6	8	5	8	1	5.6
CL 3885B2XF	9	7	4	7	5	6.4
DP 1553B2XF	5	10	7	6	7	7.0
FM 2007GLT	4	4	10	10	10	7.6

Table 5. Variety ranking based on lint yield in the non-irrigated Blackland Counties, 2016.

Variety	Trial				Mean
	Williamson	Milam	Navarro	Delta	
DP 1646B2XF	4	6	4	1	3.8
DP 1522B2XF	1	7	3	5	4.0
PHY 312WRF	3	4	2	7	4
CL 3885B2XF	7	1	7	2	4.3
PHY 333WRF	6	8	1	3	4.5
NG 3406B2XF	2	9	5	8	6
FM 2007GLT	9	3	9	4	6.3
ST 4848GLT	10	2	8	6	6.5
DG 33852XF	8	5	6	10	7.3
ST 6182GLT	5	10	--	9	8

Table 6. Variety ranking based on lint yield for irrigated sites in the Brazos Bottom and Winter Garden Regions, 2016.

Variety	Trial		Mean
	Burleson ¹	Medina	
ST 6182GLT	3	2	2.5
DG 3526B2XF	2	4	3.0
DP 1646B2XF	5	1	3.0
PHY 333WRF	1	6	3.5
PHY 312WRF	7	3	5.0
ST 4848GLT	6	5	5.5
NG 3406B2XF	4	9	6.5
DP 1522B2XF	8	7	7.5
FM 2007GLT	9	8	8.5

¹Indicates the location was irrigated.

Table 7. Hidalgo County RACE Trial, 2016¹

Cooperator: Richard Drawe

Brad 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	
DG 3526 B2XF	2053	a	46.4	a	4.7	ab	1.12	e	29.3	bcd	83.6	a	54.38	cd	1117	a
DP 1646 B2XF	2001	ab	44.5	b	4.4	a-d	1.25	a	30.5	a-d	84.7	a	54.88	ab	1098	ab
CL 3885 B2XF	1955	bc	44.3	b	4.7	a	1.15	de	28.8	cd	84.2	a	54.40	cd	1064	abc
ST 4848 GLT	1950	bc	44.7	b	4.5	ab	1.18	cd	32.0	a	85.4	a	55.00	a	1073	abc
NG 5007 B2XF	1923	bc	43.8	b	4.4	a-d	1.17	cd	29.0	cd	83.3	a	54.52	bcd	1049	bcd
PHY 333 WRF	1882	cd	42.3	c	4.2	cde	1.20	bc	31.0	ab	85.2	a	55.00	a	1035	cd
ST 6182 GLT	1876	cd	46.5	a	4.5	abc	1.15	de	28.7	d	82.9	a	54.28	d	1019	cd
FM 1944 GLB2	1868	cd	39.5	e	4.3	bcd	1.22	ab	30.7	abc	83.5	a	54.78	abc	1023	cd
DP 1518 B2XF	1826	d	41.3	cd	4.1	de	1.18	cd	29.5	bcd	83.4	a	54.58	a-d	996	d
FM 2007 GLT	1712	e	40.7	d	3.9	e	1.22	ab	31.6	a	83.7	a	54.90	ab	940	e
Mean	1905		43.4		4.4		1.18		30.1		84.0		54.67		1041	
P>F	<0.0001		<0.0001		0.0031		<0.0001		0.0118		0.0934		0.0183		0.0001	
LSD (P=.05)	95.38		1.0181		0.34263		0.03809		1.9289		NS		0.45472		54.49	
STD DEV	128.94		2.34		0.31		0.04		1.47		1.17		0.34		69.97	
CV%	6.77		5.40		7.00		3.53		4.87		1.39		0.61		6.72	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2016 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, 2016¹
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	2280	a	43.3	d	4.7	ab	1.22	bcd	33.5	a	86.0	a	55.13	a	1257	a
DP 1518 B2XF	2219	ab	43.4	d	4.3	d	1.21	b-e	31.0	cd	84.2	bc	54.81	ab	1216	ab
PHY 333 WRF	2126	abc	43.4	d	4.2	d	1.22	bc	32.7	ab	85.6	ab	55.13	a	1172	abc
ST 6182 GLT	2062	bcd	46.3	a	4.6	abc	1.18	ef	29.7	d	83.8	d	54.58	c	1125	bcd
NG 5007 B2XF	2016	cde	43.1	d	4.5	bc	1.20	cde	30.4	d	84.3	bc	54.71	bc	1103	cde
ST 4848 GLT	1999	cde	45.7	ab	4.8	a	1.20	b-e	33.4	a	86.1	a	55.13	a	1102	cde
CL 3885 B2XF	1969	cde	44.1	cd	4.6	abc	1.19	de	30.3	d	85.2	a-d	54.84	ab	1080	cde
DP 1646 B2XF	1933	de	45.0	bc	4.4	cd	1.27	a	30.8	cd	85.5	ab	54.95	ab	1062	de
DG 3526 B2XF	1918	de	46.2	a	4.7	ab	1.16	f	31.0	bcd	85.3	a-d	54.85	ab	1052	de
FM 2007 GLT	1839	e	39.9	e	3.9	e	1.23	b	32.4	abc	84.0	cd	55.04	a	1012	e
Mean	2036		44.0		4.5		1.21		31.5		85.0		54.92		1118	
P>F	0.0007		<0.0001		<0.0001		<0.0001		0.0002		0.0253		0.0148		0.0007	
LSD (P=.05)	181.81		1.1989		0.24225		0.03093		1.676		1.5428		0.32286		100.58	
STD DEV	189.43		1.96		0.29		0.04		1.75		1.30		0.28		104.81	
CV%	9.30		4.45		6.61		2.93		5.56		1.53		0.51		9.37	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2016 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. Corpus Christi Research Center RACE Trial, 2016
Texas A&M AgriLife Research and Extension Center
Corpus Christi, Texas
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	
PHY 312 WRF	1330	a	40.2	cd	4.1	de	1.18	b	32.2	a	85.7	a	55.13	a	733	a
PHY 333 WRF	1293	a	39.9	d	4.0	e	1.18	b	30.4	bc	84.5	ab	54.89	ab	710	ab
NG 5007 B2XF	1274	ab	41.0	bc	4.4	bc	1.13	cd	28.2	d	82.6	d	54.06	cd	689	b
DP 1646 B2XF	1216	bc	41.4	b	4.2	cd	1.22	a	30.9	abc	84.6	ab	54.86	ab	667	bc
PHY 444 WRF	1170	c	40.5	bcd	3.7	f	1.23	a	31.8	ab	85.5	a	54.56	ab	638	c
DG 3526 B2XF	1168	c	42.7	a	4.6	ab	1.10	d	29.7	cd	84.1	bc	53.74	d	628	cd
ST 6182 GLT	1152	cd	43.5	a	4.6	ab	1.13	c	29.4	cd	84.6	ab	54.50	ab	628	cd
ST 4848 GLT	1087	de	41.4	b	4.6	a	1.13	c	31.4	ab	83.6	bcd	54.43	bc	592	de
FM 2007 GLT	1079	de	37.3	f	4.1	de	1.17	b	31.0	abc	83.0	cd	54.81	ab	591	de
DP 1522 B2XF	1064	e	38.6	e	4.5	ab	1.14	c	31.8	ab	84.2	bc	54.78	ab	583	e
Mean	1183		40.6		4.3		1.16		30.7		84.2		54.58		646	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		0.0003		0.0003		0.0062		<0.0001	
LSD (P=.05)	76.22		0.9386		0.22197		0.02946		1.5899		1.2328		0.65496		43.54	
STD DEV	102.44		1.83		0.33		0.04		1.56		1.22		0.56		57.54	
CV%	8.66		4.51		7.81		3.80		5.08		1.45		1.02		8.91	

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 10. Nueces County RACE Trial, 2016

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 444 WRF	1578	a	42.5	c	3.8	e	1.25	a	32.3	abc	85.8	a	55.20	a	871	a
PHY 312 WRF	1556	ab	41.3	ef	4.3	cd	1.19	cd	33.4	ab	85.5	a	55.18	a	858	a
DP 1646 B2XF	1542	ab	42.3	cd	4.4	cd	1.21	bc	31.8	c	84.6	a	54.98	a	848	a
DG 3526 B2XF	1482	abc	44.2	b	4.7	ab	1.11	f	31.4	c	84.7	a	54.42	a	807	a
PHY 333 WRF	1467	a-d	41.1	ef	4.2	d	1.20	bc	33.5	a	85.2	a	55.15	a	809	a
ST 4848 GLT	1421	bc	42.7	c	4.6	bc	1.15	e	31.8	bc	84.4	a	54.77	a	778	b
ST 6182 GLT	1380	cd	45.1	a	4.6	bc	1.14	ef	29.5	d	83.9	a	54.17	a	748	c
NG 5007 B2XF	1346	cd	41.5	de	4.4	cd	1.14	e	29.1	d	84.3	a	54.50	a	734	c
DP 1522 B2XF	1341	d	40.4	f	4.9	a	1.16	de	32.6	abc	84.5	a	54.12	a	726	c
FM 2007 GLT	1141	e	38.7	g	4.3	cd	1.23	ab	32.2	abc	85.4	a	55.10	a	628	d
Mean	1425		42.0		4.4		1.18		31.8		84.8		54.76		781	
P>F	0.0001		<0.0001		<0.0001		<0.0001		0.0002		0.2448		0.0936		0.0002	
LSD (P=.05)	139.07		0.8627		0.27042		0.03154		1.5992		NS		NS		83.05	
STD DEV	154.32		1.82		0.32		0.05		1.59		0.93		0.60		88.23	
CV%	10.83		4.34		7.33		3.94		5.01		1.10		1.10		11.30	

¹ Lint values were calculated using the 2016 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, 2016

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 333 WRF	1264	a	40.2	cd	4.1	cde	1.16	b	30.0	cd	83.2	bc	54.60	abc	690	a
PHY 312 WRF	1240	a	40.8	bc	3.9	e	1.17	ab	31.9	abc	85.5	a	55.17	a	684	a
NG 5007 B2XF	1134	b	40.5	cd	4.2	bcd	1.10	c	28.1	d	82.5	c	53.57	cd	607	b
PHY 444 WRF	1121	bc	42.2	a	3.5	f	1.20	a	33.2	a	85.1	a	53.90	bcd	605	b
DP 1522 B2XF	1102	bc	39.4	d	4.8	a	1.10	c	31.5	abc	83.1	bc	53.97	bcd	595	b
DG 3526 B2XF	1086	bc	42.4	a	4.4	b	1.08	c	30.9	bc	83.5	bc	53.25	d	578	b
DP 1646 B2XF	1086	bc	41.5	abc	4.3	bcd	1.18	ab	31.0	bc	82.7	c	54.68	abc	594	b
ST 4848 GLT	1057	cd	41.5	abc	4.3	bc	1.11	c	31.2	abc	83.2	bc	53.93	bcd	571	b
ST 6182 GLT	1057	cd	42.0	ab	4.4	b	1.09	c	28.4	d	83.4	bc	53.23	d	563	b
FM 2007 GLT	986	d	37.5	e	4.0	de	1.18	ab	32.3	ab	84.4	ab	55.03	ab	542	c
Mean	1113		40.8		4.2		1.14		30.9		83.7		54.13		603	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		0.0008		0.0022		0.022		<0.0001	
LSD (P=.05)	72.78		1.3044		0.27856		0.0313		2.0181		1.3716		1.1999		47.914	
STD DEV	88.55		1.57		0.36		0.05		1.84		1.18		0.91		52.26	
CV%	7.95		3.86		8.65		3.97		5.97		1.41		1.69		8.67	

¹ Lint values were calculated using the 2016 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, 2016

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	
DG 3526 B2XF	1131	a	44.0	ab	4.4	ab	1.10	d	30.2	bc	83.5	a	53.85	b	609	a
DP 1646 B2XF	1118	ab	42.0	de	4.2	bc	1.20	ab	31.6	ab	85.0	a	55.00	a	615	a
PHY 333 WRF	1112	ab	42.1	cde	3.7	e	1.18	abc	30.1	bc	84.1	a	54.75	a	609	a
NG 5007 B2XF	1087	abc	42.3	cde	4.0	cd	1.14	bcd	28.3	c	83.6	a	54.48	ab	592	ab
DP 1522 B2XF	1076	a-d	41.4	e	4.1	bc	1.18	abc	32.4	a	85.0	a	55.03	a	592	ab
PHY 312 WRF	1058	a-d	41.6	de	3.8	de	1.16	a-d	31.7	ab	84.1	a	54.87	a	581	ab
ST 4848 GLT	1038	bc	43.4	bc	4.5	a	1.14	cd	30.2	bc	84.6	a	54.60	a	567	abc
ST 6182 GLT	1017	cd	45.1	a	4.2	abc	1.14	bcd	28.7	c	84.1	a	54.50	ab	554	bc
PHY 444 WRF	994	de	42.9	bc	3.3	f	1.22	a	31.9	ab	85.3	a	52.05	c	518	cd
FM 2007 GLT	922	e	38.7	f	3.7	e	1.18	abc	31.9	ab	83.2	a	54.80	a	505	d
Mean	1055		42.3		4.0		1.16		30.7		84.3		54.39		574	
P>F	0.0027		<0.0001		<0.0001		0.0371		0.0037		0.0952		<0.0001		0.0012	
LSD (P=.05)	88.98		1.377		0.26921		0.06389		2.0275		NS		0.6619		48.884	
STD DEV	107.83		1.78		0.37		0.04		1.70		0.96		0.92		61.38	
CV%	10.22		4.20		9.22		3.87		5.55		1.14		1.69		10.69	

¹ Lint values were calculated using the 2016 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. DeWitt County RACE Trial, 2016

Cooperator: Tracy Metting

Anthony Netardus, 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	
PHY 312 WRF	825	a	42.0	bc	4.4	bc	1.11	bc	29.2	abc	83.1	a	53.97	a	445	a
PHY 333 WRF	810	a	41.5	cd	4.0	d	1.11	bc	28.0	bcd	82.8	a	53.23	a	431	a
DG 3526 B2XF	730	b	44.9	a	4.7	a	1.06	d	29.7	ab	82.8	a	52.20	a	381	b
DP 1646 B2XF	723	b	43.1	bc	4.4	bc	1.17	a	31.1	a	82.9	a	54.72	a	396	ab
NG 5007 B2XF	683	bc	40.1	de	4.2	bcd	1.07	cd	27.3	cd	80.4	a	52.18	a	357	bc
FM 2007 GLT	667	bc	38.4	e	3.7	e	1.12	b	30.0	ab	81.7	a	53.42	a	356	bc
DP 1522 B2XF	663	bc	42.3	bc	4.5	ab	1.07	cd	29.4	ab	82.1	a	52.12	a	347	bc
ST 6182 GLT	662	bc	43.6	ab	4.5	ab	1.07	cd	28.3	bcd	81.4	a	52.47	a	348	bc
ST 4848 GLT	625	c	42.0	bc	4.1	cd	1.05	d	26.7	d	81.4	a	50.67	a	317	c
Mean	710		42.0		4.3		1.09		28.9		82.1		52.77		375	
P>F	0.0003		<0.0001		<0.0001		0.0008		0.0112		0.2115		0.3075		0.0009	
LSD (P=.05)	75.43		1.8232		0.27036		0.04589		2.1662		NS		NS		50.135	
STD DEV	76.09		2.04		0.32		0.04		1.69		1.31		1.83		47.01	
CV%	10.72		4.86		7.54		3.93		5.85		1.60		3.48		12.53	

¹ Lint values were calculated using the 2016 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 14. Jackson County RACE Trial, 2016
Cooperator: Sappington Farms
Michael Hiller, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist¹

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
ST 6182GLT	1012	a	44.1	a	4.97	a	1.14	a	84.9	a	31.2	a	54.7	a	554	a
DG 3526B2XF	986	a	43.5	a	4.90	a	1.16	a	84.7	a	30.2	a	54.75	a	540	a
PHY 333WRF	973	a	43.7	a	4.90	a	1.15	a	84.9	a	29.6	a	53.1	a	516	a
FM 2007GLT	967	a	43.8	a	4.80	a	1.17	a	84.3	a	31.4	a	53.91	a	521	a
DP 1553B2XF	926	a	44.4	a	4.97	a	1.16	a	83.9	a	30.4	a	53.33	a	495	a
ST 4848GLT	921	a	43.0	a	4.73	a	1.16	a	83.7	a	31.3	a	54.76	a	504	a
PHY 312WRF	916	a	44.6	a	5.03	a	1.13	a	84.6	a	29.8	a	52.2	a	478	a
DP 1646B2XF	883	a	43.3	a	4.73	a	1.15	a	84.9	a	31.2	a	53.7	a	474	a
CL 3885B2XF	863	a	44.1	a	4.50	a	1.17	a	85.7	a	30.8	a	54.9	a	474	a
NG 5007B2XF	857	a	42.9	a	4.63	a	1.15	a	84.9	a	31.2	a	54.83	a	470	a
Mean	930		43.7		4.82		1.15		84.7		30.7		54.02		503	
P>(F)	0.1606		0.9605		0.1081		0.9799		0.6311		0.8691		0.1571		0.16	
LSD	121.1		3.125		0.357		0.0737		1.914		2.738		2.1015		67.86	
STD DEV	70.60		1.82		0.21		0.04		1.12		1.60		1.2251		39.56	
CV %	7.59		4.16		4.32		3.72		1.32		5.20		2.27		7.87	

¹ Lint values were calculated using the 2016 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. Matagorda County RACE Trial, 2016
Cooperator: Hansen Farms
Brent Batchelor, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 312WRF	1123	a	48.8	a	5.1	bcd	1.11	bcd	30.3	a	84.0	a	52.65	abc	591	a
DP 1646B2XF	1048	b	49.2	a	5.2	ab	1.22	a	29.3	abc	83.8	a	52.25	bc	547	b
PHY 333WRF	1036	b	48.4	a	5.0	cd	1.10	cde	29.6	ab	82.2	a	52.87	ab	547	b
FM 2007GLT	959	c	45.1	a	4.8	e	1.13	b	27.0	d	82.4	a	54.20	a	520	bc
NG 5007B2XF	941	c	47.1	a	5.0	d	1.10	de	27.9	cd	81.8	a	52.40	bc	493	cd
ST 4848GLT	939	c	49.2	a	5.3	a	1.08	ef	28.6	bc	83.0	a	50.12	d	470	de
CL 3885B2XF	928	c	48.6	a	5.2	ab	1.07	f	28.0	cd	82.8	a	50.17	d	465	de
DG 3526B2XF	909	cd	47.4	a	5.2	ab	1.09	ef	29.0	abc	83.3	a	51.02	cd	464	de
ST 6182GLT	890	cd	49.7	a	5.2	ab	1.09	de	28.4	bcd	81.8	a	50.90	cd	453	e
DP 1553B2XF	854	d	48.0	a	5.1	abc	1.12	bc	27.9	cd	83.2	a	52.68	abc	450	e
Mean	963		48.1		5.10		1.11		28.6		82.8		51.93		500	
P>(F)	0.0001		0.0821		0.0002		0.0001		0.0121		0.0808		0.0023		0.0001	
LSD (P=.05)	69.88		2.735		0.159		0.0206		1.54		1.562		1.7907		34.84	
STD DEV	40.74		1.59		0.09		0.01		0.90		0.91		1.04		20.31	
CV %	4.23		3.31		1.82		1.08		3.14		1.10		2.01		4.06	

¹ Lint values were calculated using the 2016 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 16. Wharton County RACE Trial, 2016
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
NG 5007B2XF	779	a	43.4	a	4.8	abc	1.05	a	27.0	a	82.2	a	48.90	a	390	a
DP 1646B2XF	735	a	45.9	a	4.6	c	1.11	a	28.1	a	82.3	a	53.10	a	394	a
PHY 312WRF	707	a	43.7	a	4.6	c	1.07	a	28.6	a	83.1	a	51.45	a	367	a
CL 3885B2XF	689	a	43.8	a	4.8	abc	1.07	a	28.8	a	83.1	a	51.80	a	352	a
ST 4848GLT	687	a	46.1	a	4.8	abc	1.09	a	29.1	a	83.2	a	53.88	a	367	a
DG 3526B2XF	681	a	45.7	a	5.2	a	1.07	a	28.6	a	83.4	a	49.58	a	339	a
DP 1553B2XF	681	a	44.3	a	5.1	ab	1.09	a	28.9	a	83.6	a	50.85	a	350	a
ST 6182GLT	676	a	45.4	a	5.1	ab	1.13	a	28.8	a	84.2	a	52.10	a	352	a
PHY 333WRF	661	a	44.6	a	4.7	bc	1.11	a	28.8	a	83.0	a	53.88	a	355	a
FM 2007GLT	614	a	42.5	a	4.4	c	1.10	a	28.0	a	82.2	a	53.28	a	330	a
Mean	691		44.5		4.82		1.09		4.82		83.0		51.88		360	
P>(F)	0.615		0.066		0.0434		0.332		0.9334		0.5964		0.3384		0.8348	
LSD (P=.05)	144.54		2.377		0.488		0.0623		3.035		2.099		4.7924		82.77	
STD DEV	84.26		1.39		0.28		0.04		1.77		1.22		2.12		48.25	
CV %	12.19		3.11		5.90		3.33		6.21		1.47		4.08		13.42	

¹ Lint values were calculated using the 2016 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 17. Fort Bend County RACE Trial, 2016¹
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
NG 5007B2XF	1000	a	46.5	cd	5.1	a	1.11	bcd	27.3	a	81.9	a	51.35	a	514	a
DP 1646B2XF	997	a	47.6	bc	5.2	a	1.21	a	29.0	a	82.9	a	52.13	a	520	a
PHY 312WRF	992	a	48.3	bc	5.1	a	1.11	bcd	29.6	a	83.8	a	52.00	a	515	a
PHY 333WRF	983	a	48.9	b	5.2	a	1.14	bc	29.2	a	83.0	a	51.98	a	511	a
ST 6182GLT	969	a	51.2	a	5.0	a	1.11	bcd	27.6	a	81.9	a	52.98	a	512	a
DP 1553B2XF	963	a	47.1	bc	5.1	a	1.15	b	28.6	a	82.8	a	53.15	a	512	a
CL 3885B2XF	961	a	47.2	bc	5.2	a	1.09	d	27.9	a	83.1	a	50.23	a	483	a
ST 4848GLT	942	a	51.3	a	5.3	a	1.08	d	27.8	a	81.4	a	50.13	a	472	a
DG 3526B2XF	903	a	48.8	b	5.4	a	1.10	cd	27.1	a	81.9	a	50.05	a	451	a
FM 2007GLT	814		44.8	d	4.5	a	1.11	bcd	26.8	a	80.3	a	53.73	a	437	a
Mean	968		48.2		5.08		1.12		28.1		82.3		51.77		492	
P>(F)	0.9153		0.0011		0.064		0.0034		0.1012		0.0734		0.3655		0.336	
LSD (P=.05)	167.76		2.061		0.438		0.0432		1.935		1.956		3.7464		83.22	
STD DEV	72.75		0.91		0.19		0.02		0.86		0.87		1.66		36.79	
CV %	7.52		1.89		3.81		1.71		3.05		1.05		3.20		7.47	

¹ Indicates the location was irrigated.

² Lint values were calculated using the 2016 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 18. Colorado County RACE Trial, 2016
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
ST 4848GLT	1127	a	44.4	b	5.2	a	1.15	c	30.6	abc	84.9	a	51.30	c	584	A
ST 6182GLT	1121	ab	46.3	a	5.0	ab	1.15	c	28.8	cde	83.7	a	52.13	bc	592	A
DP 1646B2XF	1108	abc	44.9	b	5.0	b	1.23	a	30.0	bc	83.9	a	52.35	b	589	A
DG 3526B2XF	1058	a-d	43.9	bc	4.9	bc	1.14	cd	30.1	a-d	84.4	a	54.70	a	571	A
CL 3885B2XF	1030	a-e	44.1	bc	5.0	b	1.10	d	28.3	de	83.4	a	51.50	bc	539	A
NG 5007B2XF	1020	a-e	42.2	d	4.5	e	1.14	c	27.7	e	83.3	a	54.40	a	554	A
DP 1553B2XF	1013	b-e	43.0	cd	4.8	bcd	1.17	bc	28.9	cde	84.4	a	54.58	a	553	A
PHY 333WRF	1008	cde	42.9	cd	4.7	de	1.20	ab	32.1	a	84.9	a	54.93	a	554	A
PHY 312WRF	987	de	42.6	d	4.7	cde	1.17	bc	29.8	bc	83.4	a	54.53	a	538	A
FM 2007GLT	931	e	40.5	e	4.7	de	1.22	a	31.7	ab	83.3	a	54.73	a	510	A
Mean	1040		43.5		4.9		1.17		29.8		84.0		53.51		564	
P>(F)	0.0241		0.0001		0.0001		0.0001		0.0055		0.1394		0.0001		0.3064	
LSD (P=.05)	109.45		1.182		0.226		0.037		2.108		1.429		0.9174		54.42	
STD DEV	63.81		0.69		0.13		0.02		1.23		0.83		0.41		31.44	
CV %	6.13		1.58		2.72		1.85		4.12		0.99		0.76		5.58	

¹ Lint values were calculated using the 2016 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 19. Medina County RACE Trial, 2016
Cooperator: David & Jeremy Kriewald
Derrick Drury, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 1646B2XF	2381	a	44.4	b	4.53	cd	1.28	a	30.3	a	84.0	a	54.78	a	1304	a
ST 6182GLT	2255	ab	46.4	a	4.83	abc	1.19	cde	29.7	a	84.3	a	54.58	a	1232	ab
PHY 312WRF	2241	b	42.5	c	4.73	a-d	1.24	ab	31.8	a	85.6	a	55.10	a	1234	ab
DG 3526B2XF	2235	b	44.7	b	4.47	d	1.17	de	30.3	a	84.7	a	54.83	a	1223	ab
ST 4848GLT	2198	bc	44.7	b	5.00	a	1.19	cde	31.8	a	85.2	a	55.05	a	1181	bc
PHY 333WRF	2144	bc	42.1	c	4.43	d	1.23	bc	31.0	a	84.5	a	54.85	a	1175	bc
DP 1522B2XF	2094	c	42.0	c	4.90	ab	1.21	bcd	31.7	a	84.4	a	53.73	a	1134	c
NG 5007B2XF	2079	c	42.9	c	4.53	cd	1.21	bcd	29.3	a	84.3	a	54.60	a	1135	c
FM 2007GLT	1838	d	39.4	d	4.57	bcd	1.23	bc	30.6	a	84.4	a	54.68	a	1007	d
NG 3406B2XF	1820	d	41.5	c	4.77	a-d	1.16	e	28.77	a	83.73	a	54.425	a	990	d
Mean	2129		43.1		4.68		1.21		30.5		84.5		54.66		1162	
P>(F)	0.0001		0.0001		0.0363		0.0005		0.0533		0.1016		0.5926		0.0001	
LSD (P=.05)	133.68		1.499		0.357		0.0401		2.041		1.178		1.349		82.53	
STD DEV	77.93		0.87		0.21		0.02		1.19		0.69		0.60		48.11	
CV %	3.66		2.03		4.45		1.93		3.90		0.81		1.09		4.14	

¹ Lint values were calculated using the 2016 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 20. Burleson County RACE Trial, 2016¹
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
PHY 333WRF	1519	a	43.9	bc	4.3	de	1.26	a	31.8	ab	84.9	a	54.96	a	835	a
DG 3526B2XF	1495	a	46.4	a	4.7	ab	1.12	g	29.1	cde	84.5	a	54.29	cd	811	a
ST 6182GLT	1427	a	46.1	a	4.4	cd	1.14	efg	29.0	de	83.4	a	54.36	bcd	776	a
PHY 499WRF	1373	a	40.6	e	4.6	bc	1.14	fg	32.0	ab	84.2	a	54.73	abc	751	a
NG 3406B2XF	1367	a	42.6	d	4.5	bcd	1.12	g	28.5	e	83.6	a	54.06	d	739	a
DP 1646B2XF	1351	a	43.1	cd	4.3	de	1.20	bc	30.8	a-d	84.9	a	54.96	a	742	a
ST 4848GLT	1347	a	44.5	b	4.6	abc	1.17	def	31.9	ab	84.6	a	54.94	a	740	a
DP 1522B2XF	1329	a	44.0	bc	4.8	a	1.16	def	30.9	abc	84.7	a	54.83	abc	729	a
DP 1553B2XF	1310	a	44.4	b	4.5	cd	1.17	cde	30.8	a-d	84.4	a	54.84	ab	718	a
PHY 312WRF	1308	a	42.9	cd	4.4	cd	1.18	bc	30.2	b-e	85.3	a	54.80	abc	717	a
FM 2007GLT	1284	a	41.2	e	4.2	e	1.21	b	31.9	ab	84.0	a	54.99	a	706	a
ST 4946B2F	1249	a	44.4	b	4.5	bcd	1.14	efg	32.6	a	84.7	a	54.66	abc	683	a
Mean	1363		43.7		4.48		1.17		30.8		84.4		54.70		746	
P>(F)	0.0872		0.0001		0.0002		0.0001		0.0007		0.0674		0.0183		0.1202	
LSD (P=.05)	172.63		1.278		0.242		0.0332		1.888		1.156		0.5463		96.1	
STD DEV	120.00		0.89		0.17		0.02		1.31		0.80		0.38		66.80	
CV %	8.80		2.03		3.75		1.97		4.26		0.95		0.69		8.96	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2016 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 21. Williamson County RACE Trial, 2016
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 1522B2XF	796	a	48.7	abc	5.20	a	1.02	d	25.9	a	80.4	a	45.75	c	364	cde
NG 3406B2XF	790	a	47.2	de	4.70	cd	1.02	d	26.0	a	80.8	a	48.12	b	380	a-d
PHY 312WRF	783	a	47.3	cde	4.90	bc	1.08	bc	27.3	a	82.0	a	52.07	a	407	ab
DP 1646B2XF	767	a	48.8	ab	4.93	b	1.15	a	29.0	a	81.7	a	54.05	a	414	a
ST 6182GLT	760	a	49.7	a	5.07	ab	1.05	cd	25.5	a	79.5	a	47.55	bc	361	cde
PHY 333WRF	752	a	47.1	de	4.67	d	1.09	bc	27.2	a	81.4	a	52.85	a	397	abc
CL 3885B2XF	738	a	46.3	e	5.07	ab	1.05	cd	27.2	a	81.6	a	47.95	bc	355	de
DG 33852XF	734	a	48.2	bcd	4.90	bc	1.05	cd	25.7	a	81.3	a	49.30	b	361	cde
FM 2007GLT	709	a	44.7	f	4.57	d	1.10	b	27.2	a	80.1	a	52.20	a	369	bcd
ST 4848GLT	694	a	48.4	a-d	4.97	b	1.03	d	25.4	a	80.8	a	47.47	bc	330	e
Mean	752		47.6		4.90		1.06		26.6		81.0		49.73		374	
P>(F)	0.0739		0.0001		0.0003		0.0002		0.1263		0.1518		0.0001		0.0062	
LSD (P=.05)	67.9413921		1.375		0.227		0.0451		2.453		1.79		2.2533		38.63	
STD DEV	39.61		0.80		0.13		0.03		1.43		1.04		1.31		22.52	
CV %	5.27		1.68		2.70		2.47		5.37		1.29		2.64		6.02	

¹ Lint values were calculated using the 2016 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. Milam County RACE Trial, 2016
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 %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
CL 3885B2XF	843	a	49.2	a	4.7	a	1.07	a	24.7	a	81.0	a	50.10	a	421	ab
ST 4848GLT	842	a	46.8	a	4.7	a	1.08	a	25.5	a	81.4	a	51.60	a	434	a
FM 2007GLT	820	ab	49.2	a	4.8	a	1.06	a	25.4	a	82.7	a	50.45	a	414	ab
PHY 312WRF	813	ab	46.3	a	5.0	a	1.05	a	24.1	a	81.8	a	50.28	a	409	ab
DG 33852XF	803	abc	48.4	a	4.8	a	1.03	a	23.5	a	81.1	a	48.00	a	385	bc
DP 1646B2XF	741	abc	47.4	a	4.9	a	1.04	a	24.1	a	81.8	a	49.00	a	363	c
DP 1522B2XF	725	abc	44.6	a	4.4	a	1.06	a	24.9	a	80.9	a	49.75	a	359	c
PHY 333WRF	712	bc	44.9	a	4.6	a	1.07	a	25.5	a	81.6	a	51.23	a	365	c
NG 3406B2XF	675	cd	46.5	a	4.8	a	1.03	a	22.7	a	80.6	a	46.98	a	317	d
Mean	753		46.9		4.77		1.05		24.4		81.4		49.64		374	
P>(F)	0.0135		0.1535		0.865		0.8725		0.1436		0.7151		0.6286		0.0002	
LSD (P=.05)	129.75		3.586		0.55		0.0816		2.029		2.319		5.1029		39.67	
STD DEV	57.36		1.59		0.24		0.04		0.90		1.03		2.26		17.53	
CV %	7.62		3.38		4.99		3.43		3.67		1.26		4.54		4.69	

¹ Lint values were calculated using the 2016 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. Navarro County RACE Trial, 2016
Cooperator: Paige Bishop, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 333WRF	471	a	50.8	a	5.30	bc	1.14	bc	28.7	a-e	84.4	a	51.15	a	241	a
PHY 312WRF	468	a	49.4	bc	5.40	ab	1.15	b	28.4	b-e	83.0	a	50.60	a	237	a
DP 1522B2XF	468	a	50.0	ab	5.53		1.13	bc	30.4	a	83.6	a	50.47	a	236	a
DP 1646B2XF	464	a	48.4	cd	5.43	ab	1.23	a	29.7	ab	83.5	a	50.85	a	236	a
NG 3406B2XF	445	ab	47.7	d	5.33	bc	1.11	c	27.9	c-f	82.2	a	51.05	a	227	a
DG 33852XF	438	ab	47.7	d	5.40	ab	1.12	bc	27.7	def	84.0	a	50.77	a	222	a
CL 3885B2XF	425	bc	47.7	d	5.43	ab	1.13	bc	27.4	ef	83.6	a	50.22	a	213	bc
ST 4848GLT	418	bc	49.4	bc	5.60	a	1.14	bc	29.4	a-d	83.1	a	50.60	a	211	bc
FM 2007GLT	412	bc	45.6	e	5.13	c	1.19	a	29.6	abc	82.6	a	52.37	a	216	bc
ST 6182GLT	394	c	49.0	bc	5.23	bc	1.11	c	26.6	f	82.7	a	51.08	a	201	c
Mean	440		48.6		5.36		1.15		28.6		83.3		50.92		224	
P>(F)	0.0007		0.0001		0.0234		0.0001		0.0044		0.2111		0.3309		0.0033	
LSD (P=.05)	33.64		1.208		0.225		0.0346		1.746		1.58		1.5701		18.9	
STD DEV	19.61		0.70		0.13		0.02		1.02		0.92		0.92		11.02	
CV %	4.45		1.45		2.42		1.76		3.56		1.11		1.80		4.92	

¹ Lint values were calculated using the 2016 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 24. Delta County RACE Trial, 2016¹
Cooperator: Alford Echols, County Extension Agent
Dr. Gaylon D. Morgan, Extension Cotton Agronomist
Dale A. Mott, Extension Program Specialist

Variety	Yield (lbs/acre)	Turnout %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity	Loan Value (¢/lbs)	Lint Value (\$/Ac)²
DP 1646B2XF	544	45.7	4.20	1.22	29.8	82.3	54.55	297
CL 3885B2XF	487	43.5	3.90	1.08	25.9	81.0	51.85	253
PHY 333WRF	438	45.2	4.40	1.16	29.4	83.2	54.40	238
FM 2007GLT	412	40.3	4.40	1.16	31.1	81.7	54.60	225
DP 1522B2XF	409	44.8	4.20	1.12	28.8	83.0	54.40	222
ST 4848GLT	403	44.2	4.40	1.11	28.7	81.3	54.10	218
PHY 312WRF	396	44.7	3.80	1.10	26.5	81.3	53.30	211
NG 3406B2XF	379	43.5	3.90	1.10	32.7	82.9	53.75	204
ST 6182GLT	376	46.9	4.10	1.08	25.9	80.3	51.85	195
Mean	421	44.4	4.11	1.13	28.7	82.0	53.72	226

¹ The trial was planted with three replications, in a randomized block design, but 3 replications of each plot were harvested as one plot and the means are presented with no statistical analysis.

² Lint values were calculated using the 2016 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 25. Weslaco Monster Cotton Variety Trial, 2016¹
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	
PHY 499 WRF	2603	a	43.2	b-g	5.1	abc	1.20	g-k	34.2	a-g	86.1	abc	54.00	ab	1407	a
DP 1614 B2XF	2560	ab	44.6	abc	5.1	ab	1.25	a-g	33.1	c-i	87.1	a	53.45	ab	1368	abc
PHY 496 W3RF	2560	ab	44.1	a-e	4.8	a-f	1.16	jk	33.9	a-h	85.4	abc	55.00	a	1408	a
FM 1953 GLTP	2500	abc	38.9	ijk	4.2	g-j	1.25	a-g	32.8	c-i	85.4	abc	55.19	a	1380	ab
CPS 14WSTR-747 B2RF	2441	a-d	43.5	b-f	4.3	e-j	1.22	d-j	32.0	e-i	84.5	bc	55.05	a	1344	a-d
CT 15445 B2RF	2403	a-e	42.6	b-g	4.5	d-i	1.24	c-h	35.3	a-d	86.1	abc	55.19	a	1326	a-e
DP 1518 B2XF	2402	a-e	41.7	c-k	4.4	d-i	1.23	d-i	31.5	ghi	84.7	abc	55.00	a	1321	a-e
DP 1522 B2XF	2382	a-e	42.1	b-h	5.1	abc	1.23	d-i	33.8	a-h	86.0	abc	54.18	ab	1288	a-e
PHY 495 W3RF	2378	a-e	44.0	a-e	4.7	a-g	1.15	k	34.2	a-g	85.5	abc	54.95	a	1307	a-e
PHY 444 WRF	2373	a-e	42.6	b-g	3.8	j	1.30	ab	33.2	c-i	86.6	ab	54.79	a	1300	a-e
PHY 312 WRF	2368	a-e	41.1	e-k	4.5	d-h	1.24	c-h	33.8	b-h	86.5	abc	55.20	a	1307	a-e
PHY 333 WRF	2350	a-e	41.3	d-k	4.5	d-h	1.25	a-g	33.1	c-i	86.4	abc	55.19	a	1297	a-e
DG 3385 B2XF	2319	a-e	41.3	d-k	4.9	a-d	1.22	d-j	32.2	e-i	86.1	abc	54.54	ab	1261	a-e
MON 15R535 B2XF	2305	a-e	44.3	a-d	4.6	a-g	1.20	g-k	32.7	c-i	84.5	bc	55.03	a	1268	a-e
CT 15634 B2RF	2305	a-e	41.9	b-j	4.6	b-g	1.21	f-j	30.7	i	85.2	abc	54.76	a	1263	a-e
DP 1555 B2RF	2246	a-e	42.8	b-g	4.7	a-f	1.22	d-i	33.3	c-i	85.2	abc	55.09	a	1237	a-e
DP 1646 B2XF	2230	a-e	43.0	b-g	4.5	d-h	1.30	a	31.3	hi	85.3	abc	54.99	a	1226	a-e
DG 2615 B2RF	2223	a-e	41.7	c-k	4.8	a-f	1.25	a-g	34.0	a-h	85.2	abc	55.08	a	1224	a-e
CPS 14WSTR-262 B2RF	2195	a-e	46.8	a	4.7	a-f	1.18	h-k	34.5	a-e	85.9	abc	55.09	a	1209	a-e

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
NG 3406 B2XF	2174	a-e	41.7	c-k	4.7	a-f	1.21	e-j	31.7	f-i	86.0	abc	55.10	a	1198	a-e
DP 1639 B2XF	2154	a-e	43.0	b-g	5.1	a	1.17	ijk	32.8	c-i	85.0	abc	52.66	b	1134	a-e
ST 4848 GLT	2132	a-e	42.9	b-g	4.7	a-g	1.22	d-i	33.3	c-i	85.6	abc	55.10	a	1175	a-e
ST 6182 GLT	2130	a-e	44.8	abc	4.7	a-f	1.21	d-j	31.5	ghi	85.8	abc	55.13	a	1174	a-e
MON 15R556 B2XF	2124	a-e	44.9	abc	4.5	d-i	1.22	d-j	34.0	a-h	85.0	abc	55.05	a	1169	a-e
ST 4949 GLT	2120	a-e	45.1	ab	4.8	a-e	1.16	jk	31.8	e-i	85.7	abc	54.91	a	1164	a-e
PHY 222 WRF	2038	a-e	40.6	f-k	4.8	a-e	1.22	d-j	31.5	ghi	86.0	abc	55.10	a	1123	a-e
DP 1219 B2RF	2036	a-e	41.3	d-k	4.8	a-f	1.23	d-i	35.2	a-d	85.3	abc	55.08	a	1122	a-e
FM 1900 GLT	2030	a-e	40.1	g-k	5.1	a	1.26	a-f	35.2	a-d	85.6	abc	53.25	ab	1082	a-e
AMX 1601 B2XF	2024	a-e	42.8	b-g	5.1	ab	1.20	g-k	35.4	abc	85.3	abc	53.56	ab	1087	a-e
NG 5007 B2XF	2012	a-e	41.0	e-k	4.7	a-f	1.22	d-j	30.6	i	85.6	abc	54.38	ab	1095	a-e
UA 222	2011	a-e	38.9	h-k	4.7	a-g	1.29	abc	33.7	b-h	86.4	abc	55.18	a	1110	a-e
FM 2007 GLT	2003	a-e	38.6	k	4.3	f-j	1.23	d-i	33.5	b-h	85.3	abc	55.16	a	1105	a-e
UA 103	1928	b-e	38.8	jk	4.6	c-g	1.27	a-e	33.3	c-i	86.0	abc	55.13	a	1063	a-e
FM 1830 GLT	1922	b-e	42.0	b-i	4.8	a-e	1.27	a-d	34.3	a-g	85.7	abc	55.09	a	1059	a-e
BX 1774 GLTP	1895	cde	38.8	ijk	4.0	hij	1.25	a-g	32.5	d-i	85.5	abc	55.21	a	1046	b-e
PHY 243 WRF	1890	cde	38.9	ijk	3.9	ij	1.27	a-e	32.0	e-i	84.1	c	55.05	a	1041	b-e
BX 1739 GLT	1872	cde	42.8	b-g	4.8	a-f	1.26	a-g	34.5	a-f	84.9	abc	55.08	a	1031	b-e
DG 3544 B2XF	1861	cde	38.6	k	4.7	a-f	1.24	b-g	36.3	ab	86.8	ab	54.58	ab	1016	cde
DG 3445 B2XF	1791	de	38.6	k	4.4	d-i	1.25	a-g	36.6	a	86.6	abc	55.18	a	988	de
DP 1553 B2XF	1775	e	43.6	a-f	4.8	a-e	1.24	c-h	31.7	e-i	86.3	abc	54.49	ab	968	e
FM 1911 GLT	1752	e	39.2	h-k	4.5	d-h	1.25	a-g	32.6	c-i	86.2	abc	55.11	a	966	e

Variety	Yield (lbs/acre)	Turnout %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity	Loan Value (¢/lbs)	Lint Value (\$/Ac) ²
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 2016 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 26. Corpus Christi Center Monster Cotton Variety Trial, 2016
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	
CT 15634 B2RF	1568	a	42.0	a-h	4.3	b-i	1.1	c-m	31.6	d-l	84.7	a-f	54.73	ab	859	a
PHY 496 W3RF	1478	ab	43.2	a-e	4.1	e-i	1.1	lmn	34.2	a-i	84.9	a-e	54.24	ab	802	abc
PHY 312 WRF	1464	ab	41.9	b-h	4.4	b-h	1.1	b-i	34.2	a-h	86.2	a	55.15	a	807	ab
ST 4848 GLT	1405	abc	41.5	c-h	4.6	a-f	1.1	i-n	32.8	a-k	84.5	a-f	54.53	ab	766	a-d
NG 3406 B2XF	1368	a-d	40.1	g-m	4.5	a-g	1.1	e-n	31.0	g-l	85.1	a-d	54.83	ab	750	a-e
PHY 333 WRF	1352	a-e	40.5	f-k	4.0	f-i	1.1	b-g	32.2	b-k	85.5	a-d	55.11	ab	745	a-e
DP 1646 B2XF	1340	a-e	42.0	a-h	4.4	b-h	1.2	bcd	32.6	a-k	84.0	a-f	55.01	ab	737	a-f
PHY 495 W3RF	1330	a-e	41.9	b-h	4.3	b-i	1.0	n	33.3	a-j	84.1	a-f	53.31	b	709	a-f
PHY 444 WRF	1320	a-e	41.2	d-h	3.5	j	1.2	a	34.5	a-e	86.2	a	54.70	ab	721	a-f
PHY 499 WRF	1310	a-e	41.1	d-i	4.5	a-g	1.1	g-n	35.5	a	86.2	a	55.05	ab	721	a-f
DP 1614 B2XF	1297	a-e	42.7	a-f	5.0	a	1.1	c-l	32.6	a-k	84.7	a-f	53.39	ab	693	a-f
DG 3385 B2XF	1294	a-e	40.1	g-m	4.5	a-g	1.1	c-m	30.9	h-l	85.4	a-d	54.81	ab	709	a-f
DG 3526 B2XF	1292	a-e	44.5	a	4.7	a-e	1.0	mn	30.8	i-l	84.1	a-f	53.60	ab	691	a-f
CT 15445 B2RF	1289	a-e	40.1	g-m	4.1	f-i	1.1	c-l	35.0	abc	85.0	a-e	55.10	ab	710	a-f
NG 5007 B2XF	1269	a-e	41.5	c-h	4.4	b-h	1.1	g-n	28.8	l	83.4	c-f	54.41	ab	690	a-f
CPS 14WSTR-747	1254	a-e	42.2	a-g	4.3	b-h	1.1	g-n	29.7	kl	83.1	def	54.51	ab	684	a-f
CPS 14WSTR-262 B2RF	1251	a-e	44.4	a	4.4	b-h	1.0	mn	31.3	e-l	84.6	a-f	53.36	ab	672	a-g
FM 1953 GLTP	1246	a-e	37.9	lmn	4.0	g-j	1.2	b-g	32.6	a-k	85.3	a-d	55.16	a	687	a-f
DP 1522 B2XF	1224	b-e	40.4	f-l	4.5	a-g	1.1	f-n	33.4	a-j	85.0	a-e	54.88	ab	672	a-g
UA 103	1213	b-f	38.0	lmn	4.5	a-g	1.2	ab	34.9	a-d	85.9	abc	55.16	a	669	b-g
BX 1774 GLTP	1210	b-f	37.4	n	3.9	hij	1.1	b-h	30.6	jkl	84.1	a-f	54.94	ab	665	b-g
PHY 222 WRF	1208	b-f	38.4	k-n	4.4	b-h	1.1	d-	32.6	a-k	85.0	a-e	54.93	ab	664	b-g

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
FM 1830 GLT	1203	b-f	40.9	e-j	4.5	a-g	1.2	ab	32.9	a-k	85.6	a-d	55.08	ab	662	b-g
ST 6182 GLT	1193	b-f	43.9	abc	4.7	a-d	1.1	c-m	31.0	g-l	84.7	a-f	54.15	ab	646	b-g
AMX 1601 B2XF	1182	b-f	42.8	a-f	4.8	ab	1.1	e-n	34.0	a-i	84.5	a-f	54.86	ab	648	b-g
PHY 243 WRF	1173	b-f	39.7	h-n	3.8	ij	1.1	b-g	31.7	d-l	83.1	def	54.84	ab	643	b-g
FM 2007 GLT	1171	b-f	37.4	n	4.0	g-j	1.1	b-h	31.2	f-l	83.6	b-f	54.85	ab	642	b-g
MON 15R535 B2XF	1165	b-f	43.6	a-d	4.5	b-g	1.1	h-n	30.5	jkl	82.5	ef	54.46	ab	634	b-g
MON 15R556 B2XF	1140	b-f	44.1	ab	4.2	d-i	1.1	j-n	31.9	c-l	83.4	c-f	54.21	ab	619	c-g
DG 3544 B2XF	1116	c-f	38.1	k-n	4.7	abc	1.2	b-f	35.8	a	86.1	ab	54.51	ab	608	d-g
DP 1219 B2RF	1088	c-f	38.7	i-n	4.4	b-h	1.1	j-n	31.6	d-l	82.2	f	54.14	ab	590	d-g
FM 1900 GLT	1088	c-f	38.2	k-n	4.4	b-g	1.2	bc	35.3	ab	84.8	a-e	55.06	ab	599	d-g
UA 222	1081	c-f	38.0	k-n	4.3	b-i	1.2	b-e	34.2	a-g	84.8	a-e	55.06	ab	595	d-g
ST 4949 GLT	1077	c-f	43.8	abc	4.4	b-h	1.0	mn	31.1	g-l	83.8	a-f	53.43	ab	576	efg
DP 1044 B2RF	1066	def	38.1	k-n	4.1	e-i	1.1	k-n	31.2	f-l	83.3	c-f	54.25	ab	579	d-g
DG 2615 B2RF	1060	def	38.6	j-n	4.3	b-i	1.1	c-m	33.3	a-j	83.4	c-f	54.88	ab	582	d-g
FM 1911 GLT	1042	def	39.6	h-n	4.2	c-i	1.1	c-j	33.0	a-k	84.9	a-e	55.08	ab	574	efg
BX 1739 GLT	1036	def	41.2	d-h	4.7	abc	1.1	b-g	33.3	a-j	84.8	a-e	54.95	ab	569	efg
DG 3445 B2XF	1034	def	37.6	mn	4.2	c-i	1.1	c-k	34.0	a-i	84.0	a-f	55.00	ab	569	efg
DP 1553 B2XF	1015	ef	42.0	a-h	4.4	b-g	1.1	d-	31.7	d-l	84.3	a-f	54.83	ab	557	fg
AllTex Concho	886	f	37.7	mn	4.0	g-j	1.1	b-i	34.4	a-f	84.3	a-f	55.08	ab	488	g
Mean	1214		40.6		4.3		1.16		32.6		84.5		54.62		663	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
HSD (P=.05)	338.36		2.4904		0.53136		0.0617		3.3384		2.559		1.8201		188.29	
STD DEV	177.09		2.32		0.33		0.05		1.96		1.26		0.78		97.12	
CV%	14.58		5.71		7.58		4.10		6.01		1.50		1.43		14.64	

¹ Lint values were calculated using the 2016 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 27. Matagorda County Monster Cotton Variety Trial, 2016
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	1172	a	46.7	b-j	5.0	d-k	1.10	d-i	28.9	c-i	83.4	b	52.68	a-g	618	a
PHY 496 W3RF	1166	ab	48.3	a-f	5.1	d-j	1.04	j	30.7	a-h	83.1	b	49.11	hi	574	ab
DP 1219 B2RF	1136	abc	46.3	b-k	5.2	b-h	1.10	e-j	29.0	c-i	84.2	ab	51.44	b-i	584	ab
DP 1614 B2XF	1096	a-d	47.6	a-g	5.6	ab	1.11	d-h	31.4	a-e	84.0	ab	50.75	d-i	556	ab
PHY 333 WRF	1071	a-d	48.4	a-e	4.9	f-l	1.14	b-g	28.9	c-i	83.4	b	53.94	a-d	579	ab
PHY 499 WRF	1059	a-d	48.5	a-e	5.3	a-g	1.07	h-j	30.5	b-h	83.0	b	49.35	hi	521	abc
PHY 444 WRF	1042	a-d	47.1	a-h	4.7	jkl	1.22	a	31.4	a-e	83.2	b	55.05	a	573	ab
NG 3406 B2XF	1032	a-d	46.9	b-i	5.0	d-k	1.09	g-j	28.8	d-i	83.7	ab	51.63	b-i	533	abc
DG 3526 B2XF	1031	a-d	48.3	a-f	5.3	a-f	1.10	e-j	29.5	b-i	84.3	ab	50.68	d-i	523	abc
DP 1639 B2XF	1017	a-e	49.1	ab	5.2	b-i	1.19	ab	30.1	b-i	84.0	ab	52.68	a-g	536	abc
DP 1646 B2XF	1003	a-e	46.9	b-i	5.1	d-j	1.11	d-h	27.7	ghi	84.0	ab	52.05	a-h	523	abc
PHY 495 W3RF	1003	a-e	47.1	a-h	5.2	b-i	1.05	ij	30.8	a-g	83.2	b	49.40	ghi	497	abc
MON 15R556 B2XF	1003	a-e	49.8	a	5.0	e-k	1.10	d-i	29.5	b-i	83.7	ab	53.13	a-e	533	abc
ST 4848 GLT	997	a-e	48.2	a-f	5.2	b-h	1.09	e-j	28.5	e-i	82.9	b	50.70	d-i	506	abc
DP 1359 B2RF	992	a-e	47.3	a-h	5.4	a-e	1.12	d-h	30.7	a-h	84.2	ab	50.66	d-i	502	abc
CT 15445 B2RF	990	a-e	45.5	f-m	4.9	g-l	1.10	d-i	32.4	ab	84.9	ab	54.31	abc	538	abc
FM 1953 GLTP	985	a-e	43.1	m	4.8	i-l	1.15	b-f	29.9	b-i	85.0	ab	54.55	ab	537	abc
FM 2007 GLT	960	a-e	43.6	klm	4.7	jkl	1.15	b-g	29.5	b-i	83.9	ab	54.54	ab	523	abc
UA 222	953	a-e	44.1	i-m	5.1	c-j	1.14	b-g	30.5	a-h	82.5	b	52.06	a-h	496	abc
BX 1733 GLT	951	a-e	46.6	b-j	5.0	d-k	1.13	b-g	29.6	b-i	85.3	ab	53.18	a-e	507	abc
MON 15R535 B2XF	945	a-e	48.9	a-d	5.2	b-h	1.12	c-h	29.0	c-i	83.8	ab	51.46	b-i	487	abc

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
BX 1774 GLTP	943	a-e	43.3	lm	4.7	kl	1.15	b-g	27.3	i	84.9	ab	54.28	abc	512	abc
PHY 222 WRF	941	a-e	46.1	d-l	5.2	b-h	1.10	e-j	29.9	b-i	83.5	ab	51.46	b-i	484	abc
DG 3445 B2XF	931	a-e	43.9	j-m	5.3	a-f	1.14	b-g	32.0	abc	84.4	ab	51.21	c-i	477	abc
NG 5007 B2XF	931	a-e	46.3	b-k	4.9	h-l	1.12	d-h	27.7	ghi	83.6	ab	53.89	a-d	502	abc
ST 6182 GLT	931	a-e	48.1	a-f	5.2	b-h	1.13	c-h	28.2	f-i	82.6	b	52.24	a-h	485	abc
BX 1739 GLT	929	a-e	48.1	a-f	5.1	c-j	1.15	b-e	30.0	b-i	85.1	ab	52.78	a-f	490	abc
DP 1553 B2XF	926	a-e	46.3	c-k	5.2	b-i	1.12	c-h	30.5	a-h	84.1	ab	51.75	a-h	480	abc
AMX 1601 B2XF	909	a-e	47.3	a-h	5.7	a	1.12	d-h	32.0	abc	86.5	a	50.79	d-i	462	bc
DP 1518 B2XF	908	a-e	46.9	b-i	5.4	a-d	1.09	f-j	29.7	b-i	84.2	ab	49.66	f-i	451	bc
DG 3544 B2XF	904	a-e	44.5	h-m	5.4	a-d	1.16	a-d	33.6	a	84.3	ab	51.56	b-i	466	bc
DG 3385 B2XF	897	b-e	47.6	a-g	5.3	a-f	1.09	g-j	27.9	ghi	84.6	ab	50.50	e-j	453	bc
FM 1900 GLT	895	cde	44.8	g-m	5.2	b-h	1.16	a-d	31.7	a-d	83.9	ab	52.19	a-h	467	bc
CT 15634 B2RF	885	cde	47.2	a-h	4.9	f-l	1.10	e-j	27.6	hi	84.8	ab	53.25	a-e	471	abc
PHY 243 WRF	882	cde	44.7	h-m	4.5	l	1.16	a-d	27.8	ghi	83.5	ab	54.28	abc	479	abc
DP 1555 B2RF	866	cde	48.7	a-d	5.5	abc	1.13	c-h	30.5	b-h	84.0	ab	50.84	d-i	440	bcd
FM 1830 GLT	864	de	46.8	b-j	5.2	b-h	1.18	abc	31.2	a-f	84.0	ab	53.26	a-e	459	bc
DG 2615 B2RF	854	de	45.7	e-m	5.2	b-h	1.14	b-g	30.2	b-i	84.7	ab	51.83	a-h	442	bcd
ST 4949 GLT	836	de	49.0	abc	5.2	b-i	1.04	ij	28.3	e-i	82.8	b	48.39	i	406	cd
DP 1522 B2XF	747	ef	46.6	b-j	5.0	d-k	1.14	b-g	29.3	b-i	84.1	ab	53.38	a-e	399	cd
FM 1911 GLT	545	f	45.0	g-m	4.8	h-l	1.14	b-g	30.4	b-i	83.9	ab	54.56	ab	297	d
Mean	954		46.7		5.1		1.12		29.8		84.0		52.08		497	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0.0005		<0.0001		<0.0001	
HSD (P=.05)	270.71		2.8657		0.42274		0.06235		3.1002		3.0246		3.3039		147.09	
STD DEV	139.07		1.91		0.28		0.04		1.73		1.22		1.98		73.55	
CV%	14.57		4.10		5.44		3.76		5.81		1.46		3.80		14.81	

¹ Lint values were calculated using the 2016 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 28. Matagorda Monster Multi-Year Summary

Variety*	Yield (lbs/A)			
	3-Year		2-Year	
PHY 333 WRF	1407		1034	abc**
PHY 495 W3RF	1381		956	a-e
PHY 499 WRF	1347		965	a-e
DP 1219 B2RF	1293		1056	ab
DP 1359 B2RF	1284		914	b-e
PHY 312 WRF			1149	a
PHY 444 WRF			1019	a-d
DP 1555 B2RF			1001	a-e
DP 1518 B2XF			958	a-e
DP 1522 B2XF			924	b-e
CT 15634 B2RF			921	b-e
ST 6182 GLT			893	b-e
NG 3406 B2XF			889	b-e
NG 5007 B2XF			867	b-e
UA 222			867	b-e
DG 3385 B2XF			833	cde
FM 1900 GLT			801	de
DP 1553 B2XF			798	e
Mean	1342		936	
P>F	0.3477		<0.0001	
CV %	12.9		13.1	

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

**Mean separation via Tukey's HSD ($\alpha=0.05$)

Table 29. Corpus Christi Monster Multi-Year Summary

Variety*	Yield (lbs/A)			
	3-Year		2-Year	
PHY 333 WRF	1220	a**	1267	abc
PHY 499 WRF	1178	a	1184	abc
PHY 495 W3RF	1164	a	1203	abc
DP 1044 B2RF	1009	b	1094	cd
DP 1219 B2RF	1005	b	1040	cd
PHY 312 WRF			1424	a
CT 15634 B2RF			1409	ab
PHY 444 WRF			1224	abc
NG 3406 B2XF			1186	abc
UA 103			1181	bc
FM 2007 GLT			1165	c
DG 3385 B2XF			1153	c
UA 222			1130	cd
NG 5007 B2XF			1118	cd
DP 1522 B2XF			1117	cd
ST 6182 GLT			1062	cd
DP 1553 B2XF			910	d
Mean	1115		1168	
P>F	<0.0001		<0.0001	
CV %	9.9		11.7	

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

**Mean separation via Tukey's HSD ($\alpha=0.05$)

Table 30. Weslaco Monster Multi-Year Summary

Variety*	Yield (lbs/A)	
	2-Year	
PHY 499 WRF	2608	a**
PHY 333 WRF	2592	a
PHY 495 W3RF	2489	ab
DP 1219 B2RF	2301	ab
PHY 222 WRF	2116	b
FM 1830 GLT	2074	b
Mean	2363.3	
P>F	0.0012	
CV %	12.4	

*Varieties ranked according to 2-year mean of 2014 and 2016 data

**Mean separation via Tukey's HSD ($\alpha=0.05$)



<http://cotton.tamu.edu>

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