

2020 REPLICATED AGRONOMIC COTTON EVALUATION (RACE) SOUTH, EAST AND CENTRAL REGIONS OF TEXAS



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SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2020

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and ²⁴Comanche

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, BASF, Croplan Genetics, Delta Pine, Dyna-Gro, and Phytogen** for their partial funding of these trials.

2020 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.

According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2020 Crop” survey, The Deltapine brand of Upland cottonseed was the most popular planted in the United States for the 2020-2021 season, according to the USDA, Agricultural Marketing Service’s Cotton and Tobacco Program. The Americot brand was the second most popular followed by Phytogen, BASF-Stoneville, BASF-FiberMax, ALL-TEX/DYNA-GRO, CROPLAN, Miscellaneous, and Seed Source Genetics.

Deltapine brand varieties were the most popular planted in 2020, accounting for 36.9 percent of the United States acreage. This brand accounted for 49.6 percent of the acreage planted in the southeastern states (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia). It accounted for about 65.4 percent in the south central states (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee), 25.3 percent in the southwestern states (Texas, Oklahoma, and Kansas), and 31.8 percent in the western states (Arizona, California, and New Mexico). Deltapine’s most popular varieties were DP 1646 B2XF, DP 1845 B3XF, DP 1820 B3XF, and DP 1840 B3XF, accounting respectively for 21.3, 2.0, 1.6, and 1.6 percent of the U.S. Upland cotton acreage.

Americot brand varieties were the second most popular planted in 2020, accounting for 28.1 percent of the United States acreage. These varieties accounted for 32.7 percent of the acreage planted in the southeastern states, 13.7 percent in the south central states, 30.6 percent in the southwestern states, and 21.0 percent in the western states. The most popular Americot varieties were NG 5711 B3XF, NG 4936 B3XF, NG 4545 B2XF , and NG 3406 B2XF, accounting respectively for about 6.6, 4.8, 3.1, and 2.1 percent of the United States acreage planted to Upland cotton.

Phytogen brand varieties were the third most popular planted in 2020, accounting for 19.5 percent of the United States acreage. They accounted for 9.8 percent of the acreage planted in the southeastern states, 11.9 percent of the acreage in the south central states, 24.8 percent in the southwestern states and 17.0 percent in the western states. The most popular Phytogen brand varieties were PHY 400 W3FE, PHY 350 W3FE, PHY 480 W3FE, and PHY 444 WRF, accounting respectively for 5.1, 4.3, 1.6, and 1.5 percent of the United States acreage planted to Upland cotton.

BASF-Stoneville brand varieties were the fourth most popular planted in 2020. These varieties accounted for about 5.6 percent of the acreage planted. They accounted for 6.2 percent of the acreage planted in the southeastern states, 3.9 percent of the acreage in the south central states, 5.6 percent in the southwestern states and 11.8 percent in the western states. The most popular BASF-Stoneville varieties were ST 5600 B2XF, ST 5707 B2XF, ST 4990 B3XF, and ST 4550 GLTP, accounting respectively for 1.7, 1.5, 0.6, and 0.4 percent of the United States acreage planted to Upland cotton.

BASF-FiberMax brand varieties were the fifth most popular and accounted for about 4.9 percent of the U.S. acreage planted in 2020. ALLTEX/DYNA-GRO varieties were the sixth most popular and accounted for about 3.5 percent of the 2020 cotton acreage. CROPLAN varieties were the seventh most popular and accounted for about 1.3 percent of the 2020 cotton acreage.

Phytogen was the most popular brand of American Pima varieties planted in 2020. Phytogen variety PHY 881 R accounted for 81.6 percent of the United States Pima acreage. Phytogen's PHY 841 R was the second most planted American Pima variety and accounted for 5.4 percent of the U.S. crop. Deltapine's DP 348 RF was the next most popular variety and accounted for 5.0 percent of the U.S. Pima acreage.

Estimates of the percentage of the various varieties of cotton planted in the United States for 2020 were based on informal surveys made by the Cotton and Tobacco Program Classing Offices. Those surveyed included ginner, seed dealers, extension agents, and other knowledgeable sources.

To assist Texas cotton producers in remaining competitive in the Lower Rio Grande Valley, Blacklands, South Texas/Wintergarden, and Upper Coastal regions (Figure 1), 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, where all companies have the opportunity to participate. These trials occur on producer's farms and are managed by the producers.

Twenty-four Replicated Agronomic Cotton Evaluation (RACE) Trials and three Monster trials were harvested in 2020 with several lost or impacted by extended rain occurring in the fall and herbicide injury. The harvested locations are listed in Table 1.

Mean non-irrigated location yields for the 2020 RACE Trials ranged from 1707 lbs/ac to 653 lbs/ac for Refugio and Milam county locations, respectively. Mean irrigated location yields ranged from 2063 lbs/ac to 1109 lbs/ac for Comanche and Fort Bend locations, respectively.

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 pages 5-7.

Table 1 also provides a list of cooperators, planting and harvest dates, row spacing and plot area for each location. Tables 2 - 4 show numerical rankings based upon lint yield for the varieties across all locations within a production region.

Tables 5 to 24 include the individual RACE trial yield data and fiber analysis for each 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 gin 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. In addition to the RACE trials, several Monster cotton variety trials (Tables 25-26) were conducted in 2020 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.

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 10% 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.

Variety Characteristics/Highlights

Below are the cotton variety characteristics and highlights that were included in the 2020 RACE trials. These cotton variety descriptions were provided by individual seed company representatives or publicly available information.

DeltaPine 1646 B2XF

- 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 1840 B3XF

- Smooth leaf, mid-full maturity variety
- Bacterial blight resistant
- Fiber quality equal to DP1646B2XF
- Medium-tall plant that may require aggressive PGR management

DeltaPine 1845 B3XF

- Mid-full maturing BG3XF product
- Excellent fiber quality
- Bacterial blight resistance
- Semi-smooth leaf type
- Excellent fit for South and Central TX dry land and irrigated acres

DeltaPine 2012 B3XF

- Smooth leaf, early maturity variety
- Bacterial blight resistant
- Above average fiber quality
- Medium plant type that responds well to PGR management

DeltaPine 2020 B3XF

- Semi-smooth leaf, early-mid maturity variety
- Bacterial blight resistant
- Above average fiber quality
- Medium plant type that responds well to PGR management

Dyna-Gro 3421 B3XF

- Enhanced with new BollGard III XtendFlex trait
- Excellent Seedling Vigor
- Medium Early Maturity
- Medium plant with smooth leaf characteristics
- Excellent fiber quality
- RKN and Reniform Nematode Tolerance
- Bacterial Blight Susceptible
- Broadly Adapted for Texas & Southeast

Dyna-Gro 3615 B3XF

- Enhanced with new BollGard III XtendFlex trait
- Adapted to TX, Delta, and Southeast
- Medium-tall plant height with smooth leaf characteristics
- Excellent fiber quality and seedling vigor
- Excellent Verticillium wilt tolerance and bacterial blight resistance
- Excellent storm tolerance

FiberMax 2398 GLTP

- Medium maturity, slightly earlier than FM 2498GLT
- Excellent yield potential
- High gin turnout
- Very good Verticillium wilt tolerance
- Resistant to bacterial blight
- Liberty® herbicide and glyphosate tolerant
- Three-gene lepidopteran resistance for improved protection against worms

NexGen 4098 B3XF

- Medium early maturity
- Semi-smooth leaf
- Widely adapted and easy growth management
- Excellent heat tolerance
- Very good disease resistance package

NexGen 4936 B3XF

- Medium to medium-early maturity
- Semi-smooth leaf
- Widely adapted with good heat tolerance
- Very high yield potential
- Excellent fiber quality package
- Medium plant height , easy to manage

Phytogen 400 W3FE

- Early-mid maturity, wide area of adaptation, dryland or irrigated
- Outstanding seedling vigor
- Bacterial blight resistant
- Lt hairy leaf
- Medium height plant, easy to manage with growth regulators
- Tolerance to Enlist, glyphosate, and glufosinate herbicides with Widestrike 3 lep control

Phytogen 480 W3FE

- Mid-maturity ,wide area of adaption, dryland and irrigated
- Outstanding seedling vigor
- Bacterial blight and root knot nematode resistant plus low to medium tolerance to reniform nematodes
- Semi-smooth leaf
- Tolerance to Enlist, glyphosate and glufosinate herbicides and Widestrike 3 lep control

Stoneville 4550 GLTP

- Hairy leaf, early-mid maturity
- Great emergence and early season vigor
- Strong on tough acres with high-end yield potential
- Medium-tall/vigorous plant that needs PGR management with water
- TwinLink protection

Stoneville 4990 B3XF

- Semi-smooth, early-mid maturity
- Broad acre product, that performs well in higher-yielding environments
- Good fiber quality
- Medium/moderate plant type that is easier to manage with PGRs

Stoneville 5610 B3XF

- Smooth, mid-full maturity, more on the fuller season
- High lint percentage
- Needs full season management practices to maximize yield potential

Stoneville 5707 GLTP

- Semi-smooth, mid-full maturity
- Bigger seed size with excellent emergence and early season vigor
- Performs well on tough dryland acre
- Bacterial blight resistant

Table 1. Trial location, cooperators, planting date, harvest date, row spacing, plot dimensions and area of 2020 Texas A&M AgriLife Extension RACE Trials harvested.

County	Hildago (TX AgriScience)	Hildago (Gonzales)	Cameron	Willacy
Location (Nearest town)	Lyford	Weslaco	Harlingen	Raymondville
Latitude, Longitude	26.3548908, -97.9019148	26.162682, -97.949846	26.149936, -97.759417	26.464391, -97.734417
Cooperator	Texas AgriScience	Rudy Gonzales	James Bauer	Salazar Farma
Soil Type	Raymondville clay loam, 0 to 1 percent slopes	Hidalgo sandy clay loam, 0 to 1 percent slopes	Hidalgo sandy clay loam, 0 to 1 percent slopes	Racombes sandy clam loam, saline, 0 to 1 percent slops
Irrigation	furrow	furrow	furrow	furrow
Precipitation (Estimated)		15.4"		
Previous Crop	Corn	Sorghum	Collard greens	Sorghum
Row Spacing (in)	40	40	40	40
Plot Dimensions	2 rows x 35 ft	6 rows x 1,350 ft	6 rows x 1,332 ft	6 rows x 1,275-2,605 ft
Area harvested/plot	N/A	N/A	N/A	N/A
Plant Population (/Ac)	55,000	50,000	45,000	50,000
Planting Date	3/26/20	3/6/20	3/31/20	3/31/20
Harvest Date	N/A	N/A	N/A	N/A
Yield Limiting Factor(s)	Trial lost to Hurricane Hanna	Trial lost to Hurricane Hanna	Trial lost to Hurricane Hanna	Trial lost to Hurricane Hanna

Table 1. Continued.

County	Nueces (Lawhon)	Nueces (CCAREC)	Nueces (Massey)	San Patricio
Location (Nearest town)	Driscoll	Robstown	Robstown	Edroy
Latitude, Longitude	27.630670, -97.705683	27.780346, -97.575207	27.740700, -97.685184	28.0334, -97.6782
Cooperator	Darrell Lawhon	AgriLife Research	Jim Massey	Robert Rieder
Soil Type	Victoria clay, 0 to 1 percent slopes	Victoria clay, 0 to 1 percent slopes	Victoria clay, 0 to 1 percent slopes	Calallen sandy clay loam, 0 to 1 percent slopes
Irrigation	none	none	none	none
Precipitation (Estimated)	15.4"	20.2"	17.2"	15.7"
Previous Crop	Sorghum	Sorghum	Sorghum	Sorghum
Row Spacing (in)	38	38	30	38
Plot Dimensions	6 rows x 2,979 ft	2 rows x 35 ft	6 rows x 1360 ft	6 rows x 3,772 ft
Area harvested/plot	1.29 acre	0.005 acre	0.47 acre	1.64 acre
Plant Population (/Ac)	40,000	57,750		38,000
Planting Date	3/13/20	3/25/20	3/24/20	4/9/20
Harvest Date	8/20/20	8/14/20	8/20/20	8/27/20
Yield Limiting Factor(s)				

Table 1. Continued.

County	Refugio	Refugio	DeWitt	Calhoun
Location (Nearest town)	Austwell	Bonnie View	Nordheim	Port Lavaca
Latitude, Longitude	28.358870, -96.867348	28.1655, -97.2765	28.904792, - 97.619447	28.608223, -96.659659
Cooperator	Jimmy Jackson	Richard Niemann	Joseph Respondek	Dannie May
Soil Type	Victoria clay, 0 to 1 percent slopes	Victoria clay, 0 to 1 percent slopes	Runge fine sandy loam, 1 to 3 percent slopes	Laewest clay, 0 to 1 percent slopes
Irrigation	none	none	none	none
Precipitation (Estimated)	16.7"	13.4"	11.4"	21.5"
Previous Crop	Sorghum	Sorghum	Corn	Sorghum
Row Spacing (in)	38	38	38	38
Plot Dimensions	2 rows x 30 ft	6 rows x 1,278 ft	4 rows x 1,549 ft	2 rows x 30 ft
Area harvested/plot	0.002 acre	0.56 acre	0.45 acre	0.004 acre
Plant Population (/Ac)	55,000	N/A	38,000	41,250
Planting Date	4/1/20	4/22/20	4/13/20	Apr 19
Harvest Date	8/6/20	8/30/20	8/21/20	Sept 2
Yield Limiting Factor(s)				

Table 1. Continued.

County	Jackson	Matagorda	Wharton	Fort Bend
Location (Nearest town)	Palacios	Tin Top	Crescent	Beasley
Latitude, Longitude	28.719476, -96.275703	28.784093, -96.140854	29.293993, -96.21497	29.293993, -96.21497
Cooperator	Brent Batchelder	Bill Hansen	Michael Beard	Alan & Lisa Stasney
Soil Type	Francitas clay loam, 0 to 1 percent slopes, rarely flooded	Laewest clay, 0 to 1 percent slopes	Lake Charles clay, 0 to 1 percent slopes	Lake Charles clay and Bernard clay loam, 0 to 1 percent slopes
Irrigation	none	none	none	furrow
Precipitation (Estimated)	15.1"	22.3"	20.5"	28.2"
Previous Crop	Sorghum	Sorghum	Corn	Corn
Row Spacing (in)	38	40	40	36
Plot Dimensions	6 rows x 2275 ft	6 rows x 1378 ft	6 rows x 2175 ft	6 rows x 1700 ft
Area harvested/plot	0.69 acre	0.65	1.0 acre	0.70 acre
Plant Population (/Ac)	55,000	41,900	34,780	33,700
Planting Date	3/25/20	4/7/20	March 18	Apr 26
Harvest Date	8/20/20	8/27/20	Aug 13	Sept 5
Yield Limiting Factor(s)				

Table 1. Continued.

County	Colorado	Burleson	Medina	Williamson
Location (Nearest town)	Eagle Lake	Snook	Lytle	Hutto
Latitude, Longitude	29.472514, -96.346719	30.5361, -96.42142	29.269875, -98.817007	30.558066, -97.539636
Cooperator	Mahalitc Farms	AgriLife Research Farm	Kriewald Farms	Kruger Farms
Soil Type	Norwood silty clay loam, 0 to 1 percent slopes, occasionally flooded	Belk clay, 0 to 1 percent slopes, rarely flooded	Victoria clay, 0 to 1 percent slopes	Branyon clay, 0 to 1 percent slopes
Irrigation	none	furrow	Linear sprinkler	none
Precipitation (Estimated)	23.4"	15.3	11.3"	11.5"
Previous Crop	Cotton	Corn	Corn	Corn
Row Spacing (in)	36	40	36	38
Plot Dimensions	6 row x 1550 ft	2 rows x 40 ft	6 rows x 1205 ft	6 rows x 1050 ft
Area harvested/plot	1.2 acre	0.006 acre	0.42 acre	0.48 acre
Plant Population (/Ac)	31,770	36,190	40,000	35,270
Planting Date	Apr 14	Apr 30	Apr 27	Apr 28
Harvest Date	Sept 6	Sept 30	Sept 18	Oct 6
Yield Limiting Factor(s)				

Table 1. Continued.

County	Milam	Falls	Navarro	Comanche
Location (Nearest town)	Buckholts	Rosebud	Corsicana	Gustine
Latitude, Longitude	30.932804, -97.105723	31.165532, -96.812203	32.062194, -96.608952	31.871693, -98.419464
Cooperator	Beckhusen Farms	Rodney Stephenson	Reed Farms	Rodney Stephenson
Soil Type	Houston Black clay, 1 to 3 percent slopes	Ships clay, 0 to 1 percent slopes, rarely flooded	Houston Black clay, 1 to 3 percent slopes	Bastrop loamy fine sand and Hassee loam, 1 to 5 percent slopes
Irrigation	none	pivot	none	pivot
Precipitation (Estimated)	13.6"	18.6"	19.1"	15.4"
Previous Crop	Corn	Corn	Corn	Corn
Row Spacing (in)	30	36	30	36
Plot Dimensions	12 rows x 570 ft	6 rows x 2300 ft	12 rows x 780 ft	6 rows x 1800 ft
Area harvested/plot	0.40 acre	Approx. 0.95 Acre	0.53 acre	Approx. 0.75 Acre
Plant Population (/Ac)	42,000	42,000	42,000	42,000
Planting Date	May 11	Apr 21	May 11	May 6
Harvest Date	Oct 8	Oct 7	Oct 9	Oct 12
Yield Limiting Factor(s)		Enlist varieties sustained injury due to early-season dicamba herbicide injury		Enlist varieties sustained injury due to early-season dicamba herbicide injury

Table 1. Continued.

County	LRGV Monster	Corpus Christi Monster	UGC Monster
Location (Nearest town)	Lyford	Corpus Christi	Danewang
Latitude, Longitude	26.3548908, -97.9019148	27.780827, -97.573877	29.070986, -96.245290
Cooperator	Texas AgriScience	Corpus Christi AgriLife Research	Dean Hansen
Soil Type	Raymondville clay loam, 0 to 1 percent slopes	Victoria clay, 0 to 1 percent slopes	Lake Charles clay, 0 to 1 percent slopes
Irrigation	none	none	none
Precipitation (Estimated)		20.2"	19.3"
Previous Crop	Corn	Sorghum	Cotton
Row Spacing (in)	40	38	38
Plot Dimensions	2 rows x 35 ft	2 rows x 35 ft	2 rows x 35 ft
Area harvested/plot	0.005 acre	0.005 acre	0.002 acre
Plant Population (/Ac)	55,000	55,000	55,000
Planting Date	3/26/20	3/23/20	3/18/20
Harvest Date	N/A	8/3/20	8/19/20
Yield Limiting Factor(s)	Lost to Hurricane Hanna		

Table 2. Variety ranking based on lint value, Coastal Bend, 2020.

Location	Nueces - Lawhon	Nueces - CCAREC	San Patricio	Refugio - Jackson	Refugio - Niemann	DeWitt	Mean Ranking
Mean Yield (lbs/A)	1269	1506	966	1707	998	756	
Variety							
PHY 480 W3FE	5	9	1	2	4	1	3.7
DG 3555 B3XF	6	4	2	1	6	4	3.8
PHY 400 W3FE	4	5	7	7	1	2	4.3
NG 4936 B3XF	2	1	9	6	5	5	4.7
DP 1646 B2XF	3	8	6	4	3	8	5.3
FM 2398 GLTP	1	2	5	8	10	10	6.0
DP 1845 B3XF	8	10	8	3	2	7	6.3
NG 4098 B3XF	9	7	3	5	8	6	6.3
ST 4550 GLTP	10	3	4	9	9	3	6.3
ST 4990 B3XF	7	6	10	10	7	9	8.2

Table 3. Mean location lint yield and variety ranking based on lint value, Upper Gulf Coast Counties, 2020.

Location	Calhoun	Jackson	Matagorda	Wharton	Fort Bend¹	Colorado	Mean
Mean Yield (lbs/A)	1211	1532	1143	1520	1109	1580	
Variety							
PHY 480 W3FE	2	3	1	3	1	4	2.3
PHY 400 W3FE	1	5	4	4	2	6	3.7
DP 2012 B3XF			5		4	2	3.7
NG 4098 B3XF	7	4	2	2	8	1	4.0
NG 4936 B3XF	3	9	6	1	6	3	4.7
DP 2020 B3XF			8		3	5	5.3
DP 1646 B2XF	4	7		6			5.7
ST 4990 B3XF		1	7	5	7	9	5.8
DG 3421 B3XF	6	2	3	8	10	8	6.2
ST 4550 GLTP	5	8	9	7	5	7	6.8

¹Indicates the location furrow irrigated one time.

**Table 4. Mean location lint yield and variety ranking based on lint value,
Irrigated Cen-Tex trials 2020.**

Location	Burleson	Medina	Falls¹	Comanche¹	Mean
Mean Yield (lbs/A)	1896	1926	1975	2063	
Variety					
DP 2020 B3XF	7	2	3	1	3.3
ST 4990 B3XF	4	5	1	6	4.0
ST 5707 B2XF	2	3	5	8	4.5
ST 4550 GLTP	1	9	2	7	4.8
NG 4936 B3XF	6	4	7	2	4.8
DP 1646 B2XF	3	7	6	5	5.3
DG 3615 B3XF	10	1	4	9	6.0
PHY 400 W3FE	5	6		10	7.0
NG 4098 B3XF	8	8	8	4	7.0
PHY 480 W3FE	9	10		3	7.3

¹ These two locations suffered injury from Dicamba herbicide and thus

Table 5. Nueces County RACE Trial, 2020

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 Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
FM 2398 GLTP	1374	a	43.9	b	4.9	a	1.14	de	29.3	d	83.1		53.62	de	737	a
NG 4936 B3XF	1326	ab	42.8	bc	4.4	de	1.16	cd	31.4	b	82.8		54.08	abc	717	a
DP 1646 B2XF	1324	ab	43.1	bc	4.5	c	1.19	ab	29.8	d	83.1		53.98	a-d	715	a
PHY 400 W3FE	1305	abc	40.9	e	4.2	f	1.16	cd	29.7	d	83.0		53.87	bcd	703	ab
PHY 480 W3FE	1314	abc	42.3	cd	4.5	cd	1.12	e	30.1	cd	83.6		53.45	e	702	ab
DG 3555 B3XF	1284	bcd	42.0	cde	4.1	g	1.17	bc	30.1	cd	83.4		53.92	a-d	692	abc
ST 4990 B3XF	1234	cde	39.4	f	4.3	ef	1.15	d	29.9	d	83.3		53.70	cde	663	bcd
DP 1845 B3XF	1203	de	43.2	bc	4.3	ef	1.20	a	31.2	bc	83.2		54.10	ab	651	cde
NG 4098 B3XF	1180	e	41.2	de	4.4	de	1.20	a	33.8	a	83.3		54.30	a	641	de
ST 4550 GLTP	1151	e	45.1	a	4.7	b	1.09	f	29.3	d	82.6		52.93	f	610	e
Mean	1269		42.4		4.4		1.16		30.5		83.1		53.80		683	
P>F	0.0044		<0.0001		<0.0001		<0.0001		<0.0001		0.6676		0.0006		0.0038	
LSD (P=.10)	87.13		1.229		0.121		0.026		1.159		NS		0.393		47.143	
STD DEV	91.58		1.71		0.23		0.04		1.49		0.62		0.44		49.75	
CV%	7.21		4.04		5.25		3.19		4.89		0.74		0.82		7.28	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 6. Nueces County RACE Trial, 2020

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 Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
FM 2398 GLTP	1393	a	41.8	b	5.0	a	1.13	e	31.2	cd	83.5	ab	53.03		738	
DG 3555 B3XF	1308	b	38.9	c	4.0	e	1.18	bc	32.2	bc	83.5	ab	54.25		710	
NG 4936 B3XF	1288	bc	38.3	c	4.3	cd	1.18	c	31.0	cd	84.0	a	54.05		696	
DP 1646 B2XF	1285	bc	41.0	b	4.3	d	1.20	ab	31.0	cd	82.8	bc	54.05		695	
DP 1845 B3XF	1278	bc	41.5	b	4.3	cd	1.20	a	33.0	b	83.5	ab	54.30		694	
ST 4550 GLTP	1287	bc	42.7	a	4.6	bc	1.11	f	31.6	bc	83.0	bc	53.67		690	
NG 4098 B3XF	1239	bc	38.1	c	4.4	bc	1.20	a	35.6	a	82.3	c	54.22		672	
ST 4990 B3XF	1220	c	38.1	c	4.4	cd	1.15	d	29.9	d	83.5	ab	53.87		657	
Mean	1287		40.1		4.4		1.17		31.9		83.3		53.9		694	
P>F	0.0605		<0.0001		<0.0001		<0.0001		0.0007		0.0634		0.242		0.1034	
LSD (P=.10)	79.515		0.902		0.141		0.016		1.585		0.821		NS		NS	
STD DEV	69.07		1.90		0.29		0.03		1.88		0.72		0.61		33.65	
CV%	5.37		4.75		6.56		2.93		5.90		0.87		1.13		4.85	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 7. Nueces County RACE Trial, 2020

Cooperator: Texas A&M AgriLife Research and Extension Center

Jason Ott - Nueces County Extension Agent, Agriculture and Natural Resources

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
NG 4936 B3XF	1626	ab	40.1	de	4.0	cd	1.19	bc	30.5	cd	84.2		54.09	a	879	a
FM 2398 GLTP	1618	ab	43.0	a	4.5	a	1.15	d	30.9	bcd	83.6		53.89	a	872	a
ST 4550 GLTP	1605	ab	43.5	a	4.3	b	1.12	ef	31.5	bc	83.3		53.71	ab	862	ab
DG 3555 B3XF	1641	a	39.4	e	3.5	f	1.20	bc	32.0	b	83.6		51.89	bc	852	ab
PHY 400 W3FE	1572	abc	41.8	c	3.7	ef	1.13	de	31.8	b	82.8		53.84	ab	846	ab
ST 4990 B3XF	1488	a-d	39.3	e	4.1	c	1.18	c	30.1	d	84.3		54.00	a	803	abc
NG 4098 B3XF	1460	bcd	37.8	f	3.8	de	1.22	a	33.9	a	83.0		54.29	a	792	abc
DP 1646 B2XF	1404	cde	42.9	ab	4.0	cd	1.20	abc	30.2	cd	83.3		54.04	a	759	bcd
PHY 480 W3FE	1398	de	41.0	cd	3.5	f	1.11	f	31.1	bcd	82.9		50.65	c	710	cd
DP 1845 B3XF	1251	e	41.8	bc	3.7	ef	1.21	ab	31.9	b	83.4		53.00	ab	666	d
Mean	1506		41.1		3.9		1.17		31.4		83.4		53.3		804	
P>F	0.0084		<0.0001		<0.0001		<0.0001		0.0011		0.1756		0.0735		0.0181	
LSD (P=.10)	171.85		1.108		0.187		0.022		1.275		NS		1.989		104.73	
STD DEV	177.54		2.00		0.37		0.04		1.40		0.84		1.85		103.81	
CV%	11.79		4.87		9.39		3.68		4.47		1.00		3.46		12.91	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 8. San Patricio County RACE Trial, 2020

Cooperator: Robert Rieder

Bob McCool, San Patricio County Extension Agent, Agriculture and Natural Resources

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
PHY 480 W3FE	1059	a	43.7	b	4.1	cd	1.11	d	30.7	cd	83.8	ab	53.78	bc	570	a
DG 3555 B3XF	1008	ab	42.4	c	3.8	e	1.16	b	30.9	cd	82.7	c	54.02	abc	545	ab
NG 4098 B3XF	1001	abc	41.3	d	4.1	cd	1.20	a	36.0	a	82.7	c	54.28	a	543	ab
ST 4550 GLTP	992	bc	44.9	a	4.4	ab	1.11	d	31.6	c	83.3	abc	53.83	bc	534	bc
FM 2398 GLTP	988	bc	44.0	ab	4.2	bc	1.09	d	29.8	d	81.6	d	53.05	d	524	bcd
DP 1646 B2XF	953	bcd	44.2	ab	4.4	a	1.19	a	31.0	cd	83.7	abc	54.17	a	516	bcd
PHY 400 W3FE	936	cd	43.2	bc	3.8	e	1.15	bc	32.0	c	83.3	abc	54.10	ab	506	cde
DP 1845 B3XF	916	d	43.3	bc	4.4	ab	1.20	a	34.3	b	83.5	abc	54.30	a	497	de
NG 4936 B3XF	913	d	41.1	d	4.0	de	1.15	bc	30.1	d	83.9	a	53.75	c	491	de
ST 4990 B3XF	894	d	41.1	d	4.2	cd	1.13	c	29.8	d	82.8	bc	53.73	c	480	e
Mean	966		42.9		4.1		1.15		31.6		83.1		53.90		521	
P>F	0.0087		<0.0001		0.0002		<0.0001		<0.0001		0.0286		0.0001		0.0091	
LSD (P=.10)	66.574		1.027		0.211		0.026		1.365		1.021		0.327		35.709	
STD DEV	68.34		1.46		0.26		0.04		2.16		0.90		0.41		36.85	
CV%	7.08		3.40		6.18		3.45		6.84		1.08		0.75		7.08	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 9. Refugio County RACE Trial, 2020

Cooperator: Jimmy Jackson

Candace Moeller - Refugio County Extension Agent, Agriculture and Natural Resources

Stephen Biles - Victoria, Calhoun, and Refugio County IPM Agent, Port Lavaca

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
DG 3555 B3XF	1888	a	43.3	de	4.4	d	1.19	cd	32.7	bcd	83.8	cd	54.23	a	1024	a
PHY 480 W3FE	1886	a	45.5	b	4.6	c	1.15	fg	32.7	bcd	84.4	bc	54.16	a	1022	a
DP 1845 B3XF	1766	ab	46.1	ab	4.7	bc	1.24	a	34.2	ab	85.2	a	54.36	a	960	ab
DP 1646 B2XF	1730	ab	45.3	bc	4.8	bc	1.19	cd	31.0	e	84.2	bc	53.59	ab	927	bc
NG 4098 B3XF	1687	b	42.7	e	4.7	bc	1.22	b	35.7	a	83.4	d	54.29	a	916	bc
NG 4936 B3XF	1680	b	42.9	e	4.7	c	1.18	cde	31.1	e	84.5	ab	54.16	a	910	bc
PHY 400 W3FE	1637	b	44.7	bcd	4.6	cd	1.16	ef	33.9	b	84.1	bc	54.21	a	888	bc
FM 2398 GLTP	1702	b	45.7	ab	5.1	a	1.16	efg	31.5	cde	83.9	bcd	51.88	c	884	bc
ST 4550 GLTP	1637	b	47.3	a	4.9	bc	1.14	g	32.9	bc	83.7	cd	52.84	b	864	cd
ST 4990 B3XF	1461	c	43.7	cde	4.7	c	1.17	de	31.2	de	84.5	ab	54.14	a	791	d
Mean	1707		44.7		4.7		1.18		32.7		84.2		53.79		918	
P>F ²	0.007		0.0008		0.0015		<0.0001		0.0001		0.0101		0.0008		0.0042	
LSD (P=.10)	166.08		1.707		0.224		0.019		1.565		0.699		0.919		90.17	
STD DEV	170.73		1.92		0.25		0.03		1.88		0.71		1.03		94.71	
CV%	10.00		4.29		5.19		2.68		5.76		0.84		1.92		10.31	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 10. Refugio County RACE Trial, 2020

Cooperator: Richard Niemann

Candace Moeller, Refugio County Extension Agent, Agriculture and Natural Resources

Stephen Biles - Victoria, Calhoun, and Refugio County IPM Agent, Port Lavaca

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre) ¹	
PHY 400 W3FE	1148	a	44.7	a	4.7	cd	1.15	de	35.1	abc	83.2		54.10	a	621	a
DP 1845 B3XF	1059	b	45.5	a	4.8	bcd	1.22	a	35.2	ab	84.4		54.35	a	576	ab
DP 1646 B2XF	1045	b	45.1	a	4.9	b	1.20	ab	31.8	e	84.1		54.28	a	567	b
PHY 480 W3FE	1044	b	44.6	a	4.8	bc	1.11	f	33.2	de	83.8		53.72	a	560	bc
NG 4936 B3XF	988	bcd	41.3	c	4.7	cd	1.19	bc	31.9	e	84.2		54.27	a	536	bcd
DG 3555 B3XF	1021	bc	44.6	a	5.3 ²	a	1.13	ef	31.8	e	83.8		50.57	c	517	cde
ST 4990 B3XF	936	d	41.1	c	4.8	bc	1.17	cd	32.3	de	84.1		54.18	a	507	de
NG 4098 B3XF	937	cd	42.0	bc	4.9	b	1.21	a	36.2	a	84.1		52.77	b	495	def
ST 4550 GLTP	958	cd	45.2	a	5.2	a	1.11	f	33.7	cd	84.2		50.95	c	488	ef
FM 2398 GLTP	840	e	43.0	b	4.6	d	1.14	de	33.8	bcd	84.1		54.18	a	455	f
Mean	998		43.7		4.9		1.16		33.5		84.0		53.34		532	
P>F	0.0006		<0.0001		<0.0001		<0.0001		0.0005		0.8662		<0.0001		0.0003	
LSD (P=.10)	84.93		1.025		0.193		0.026		1.552		NS		0.883		47.05	
STD DEV	100.00		1.75		0.25		0.04		1.77		0.76		1.47		56.82	
CV%	10.02		3.99		5.24		3.62		5.28		0.91		2.76		10.67	

¹Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

²Micronaire value for this variety is highly inconsistent with that from other locations and may be erroneous, refer to values reported in other trials in the region for this variety.

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

Table 11. DeWitt County RACE Trial, 2020

Cooperator: Joseph Respondek

Anthony Netardus - DeWitt County Extension Agent, Agriculture and Natural Resources

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 480 W3FE	897	a	44.4	a	3.8	b	1.04	f	30.3	b	81.4		50.23	cde	451	a
PHY 400 W3FE	894	a	43.8	ab	3.5	cd	1.07	ef	29.5	b	80.2		47.48	f	425	ab
ST 4550 GLTP	833	ab	44.7	a	4.1	a	1.04	f	30.4	b	81.3		49.77	def	414	abc
DG 3555 B3XF	823	abc	41.5	cd	3.4	d	1.09	cde	29.6	b	81.6		49.15	ef	405	abc
NG 4936 B3XF	743	bcd	41.3	cd	3.6	bcd	1.12	bc	28.4	b	82.0		53.42	ab	397	abc
NG 4098 B3XF	713	cd	40.3	d	3.7	bcd	1.16	a	34.0	a	81.3		54.08	a	385	bc
DP 1845 B3XF	709	d	43.5	ab	3.9	ab	1.13	ab	32.4	a	81.1		53.83	ab	382	bc
DP 1646 B2XF	690	de	43.8	ab	3.6	bcd	1.12	bc	28.9	b	80.9		51.70	bcd	357	cd
ST 4990 B3XF	660	de	40.4	d	3.7	bc	1.11	bcd	29.7	b	81.1		53.45	ab	353	cd
FM 2398 GLTP	595	e	42.4	bc	3.9	ab	1.08	de	29.1	b	80.9		52.40	abc	312	d
Mean	756		42.6		3.7		1.10		30.2		81.2		51.55		388	
P>F	0.0018		0.0001		0.0122		<0.0001		0.0036		0.6969		0.0009		0.0559	
LSD (P=.10)	111.6		1.444		0.287		0.035		2.009		NS		2.342		63.552	
STD DEV	116.36		1.79		0.26		0.04		2.03		0.91		2.56		52.39	
CV%	15.40		4.20		7.14		4.01		6.72		1.12		4.97		13.50	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 12. Calhoun County RACE Trial, 2020

Cooperator: Danny May

Greg Baker - Calhoun County Extension Agent, Agriculture and Natural Resources

Stephen Biles - Victoria, Calhoun, and Refugio County IPM Agent, Port Lavaca

Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 400 W3FE	1391	a	43.9	c	4.7	c	1.20	cd	34.4	b	84.7	ab	54.37		756	a
PHY 480 W3FE	1376	a	43.2	cd	4.8	bc	1.13	e	32.4	c	84.4	bc	53.28		733	a
NG 4936 B3XF	1300	ab	42.3	d	4.8	bc	1.16	d	30.2	d	83.6	de	53.97		702	ab
FM 2398 GLTP	1369	a	43.4	c	5.3	a	1.18	cd	33.1	c	84.3	bc	50.98		699	ab
DP 1646 B2XF	1198	bc	44.3	bc	5.0	b	1.23	b	32.5	c	84.8	ab	53.55		642	bc
DG 3555 B3XF	1196	bc	43.6	c	4.9	b	1.11	e	30.7	d	84.0	cd	52.88		635	bc
ST 4550 GLTP	1163	bc	45.2	ab	4.9	b	1.11	e	32.1	c	83.4	e	53.18		619	bc
ST 4990 B3XF	1079	cd	40.5	e	4.9	b	1.17	d	32.6	c	85.1	ab	54.28		586	cd
DP 1845 B3XF	1065	cd	45.4	a	5.0	b	1.22	b	34.7	b	84.9	ab	53.60		571	cd
NG 4098 B3XF	970	d	41.0	e	4.9	bc	1.28	a	36.7	a	85.5	a	53.62		520	d
Mean	1211		43.3		4.9		1.18		32.9		84.5		53.37		646	
P>F	0.001		<0.0001		0.0109		<0.0001		<0.0001		0.0143		0.1103		0.003	
LSD (P=.10)	152.54		1.084		0.193		0.022		1.191		0.8722		NS		87.13	
STD DEV	193.44		1.69		0.19		0.05		1.96		0.86		1.35		105.04	
CV%	15.98		3.90		3.91		4.53		5.96		1.02		2.53		16.25	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 13. Jackson County RACE Trial, 2020

Cooperator: Brent Batchelder

Michael Hiller - Jackson County Extension Agent, Agriculture and Natural Resources

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac)¹	
ST 4990 B3XF	1666	a	42.2	d	4.41		1.17		32.6		82.6		54.63		910	a
DG 3421 B3XF	1645	a	46.8	a	4.44		1.09		31.4		82.9		53.53		881	ab
NG 4098 B3XF	1576	a	43.3	cd	4.09		1.12		30.2		82.5		54.03		851	abc
PHY 480 W3FE	1581	a	45.9	ab	4.30		1.12		29.7		82.1		53.77		849	bc
DP 1840 B3XF	1596	a	43.3	cd	4.24		1.07		28.7		82.5		52.70		841	bcd
ST 5610 B3XF	1513	b	45.4	ab	4.65		1.13		31.3		82.7		54.47		824	bcd
PHY 400 W3FE	1528	b	42.8	d	4.48		1.13		29.6		82.7		53.82		822	bcd
ST 4550 GLTP	1459	c	44.3	bc	4.32		1.14		29.6		83.1		54.28		792	cd
DP 1646 B2XF	1476	c	43.1	d	4.48		1.13		30.7		82.8		53.10		783	d
NG 4936 B3XF	1347	d	47.5	a	4.85		1.09		29.5		82.8		53.23		717	e
Mean	1539		44.5		4.43		1.12		30.3		82.7		53.76		827	
P>F	0.0006		0.0057		0.1343		0.1805		0.1616		0.8736		0.3935		0.0019	
LSD (P=.10)	94.59		2.249		NS		NS		NS		NS		NS		59.52	
STD DEV	66.81		1.59		0.28		0.04		1.54		0.65		1.02		42.04	
CV%	4.34		3.57		6.22		3.59		5.07		0.79		1.89		5.08	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 14. Matagorda County RACE Trial, 2020

Cooperator: Hansen Farms

Aaron Sumrall, County Extension Agent, Kate Harrell, Extension Agent-IPM

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 480 W3FE	1323	a	45.3	a	4.64	cde	1.13	d	31.7	bcd	84.9	ab	54.02		715	a
NG 4098 B3XF	1287	a	41.1	c	4.78	bcd	1.22	a	33.1	ab	84.3	bc	54.32		699	a
PHY 400 W3FE	1248	ab	45.4	a	4.59	e	1.15	cd	34.1	a	83.2	ef	54.02		674	ab
DG 3421 B3XF	1252	ab	45.0	a	4.66	cde	1.13	d	30.8	de	82.5	f	53.57		670	ab
DP 2012 B3XF	1218	abc	42.5	bc	4.80	bc	1.18	b	31.2	cd	83.6	de	53.37		650	abc
NG 4936 B3XF	1181	abc	42.3	bc	4.60	de	1.16	bc	29.5	e	83.7	cd	53.73		635	abc
ST 4990 B3XF	1101	bcd	43.2	b	4.81	abc	1.16	bc	30.4	de	84.5	ab	53.97		594	bcd
DP 2020 B3XF	1078	cd	45.1	a	4.93	ab	1.22	a	32.5	bc	84.6	ab	52.77		568	cd
ST 4550 GLTP	1003	d	45.1	a	4.98	a	1.12	d	33.0	ab	84.1	bc	53.23		535	d
ST 5610 B3XF	740	e	45.9	a	4.98	a	1.19	b	33.1	ab	85.2	a	53.08		393	e
Mean	1143		44.1		4.78		1.17		31.9		84.0		53.61		613	
P>F	0.0005		0.0003		0.0056		0.0001		0.0006		0.0006		0.6593		0.0004	
LSD (P=.10)	169.18		1.551		0.1845		0.0306		1.441		0.813		NS		92.67	
STD DEV	119.49		1.10		0.13		0.02		1.02		0.57		0.98		65.45	
CV%	10.45		2.49		2.73		1.85		3.19		0.68		1.83		10.67	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 15. Wharton County RACE Trial - 2020

Cooperator: Michael Beard

Corrie Bowen, County Extension Agent, Kate Harrell, Extension Agent- IPM

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
NG 4936 B3XF	1655		43.8	de	4.74	bc	1.19	ab	29.3	de	85.2	a	53.93		893	a
NG 4098 B3XF	1591		44.0	cde	4.65	cd	1.19	ab	33.3	a	83.4	bc	54.25		863	ab
DP 1840 B3XF	1562		43.7	de	4.59	d	1.20	a	31.4	b	83.2	c	54.22		847	ab
PHY 480 W3FE	1565		45.7	b	4.62	cd	1.12	f	30.2	b-e	83.4	bc	53.73		841	ab
PHY 400 W3FE	1556		45.0	bc	4.70	cd	1.15	cd	31.0	bc	83.3	bc	53.98		840	ab
ST 4990 B3XF	1542		43.3	e	4.64	cd	1.17	bc	29.7	cde	84.2	ab	53.87		831	ab
DP 1646 B2XF	1521		46.8	a	4.90	a	1.20	a	29.7	cde	84.2	ab	53.17		807	bc
ST 4550 GLTP	1476		47.0	a	4.84	ab	1.12	ef	30.5	bcd	83.6	bc	53.48		789	bc
DG 3421 B3XF	1445		44.6	bcd	4.58	d	1.12	f	28.9	e	83.4	bc	53.55		773	cd
ST 5610 B3XF	1330		47.2	a	4.84	ab	1.15	de	30.8	bcd	84.1	bc	53.95		718	d
Mean	1524		45.1		4.71		1.16		30.5		83.8		53.81		820	
P>F	0.1312		0.0001		0.0039		0.0001		0.0049		0.0599		0.3659		0.0622	
LSD (P=.10)	NS		1.118		0.1374		0.0252		1.508		1.002		NS		80.84	
STD DEV	114.66		0.79		0.10		0.02		1.07		0.71		0.54		57.09	
CV%	7.52		1.75		2.06		1.53		3.49		0.84		1.00		6.96	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 16. Fort Bend County RACE Trial - 2020¹

Cooperator: Alan and Lisa Stasney

Phillip Thielemann, County Extension Agent

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac)²	
PHY 480 W3FE	1264	a	44.2	ab	4.30	b	1.12	cde	31.7	bc	84.1		53.95	a	682	a
PHY 400 W3FE	1245	a	44.9	ab	3.90	cde	1.14	bcd	33.2	b	82.8		54.02	a	673	a
DP 2012 B3XF	1138	bc	42.0	de	4.03	bcd	1.15	bc	28.6	ef	82.7		53.68	a	610	b
NG 4936 B3XF	1093	cd	41.9	de	4.10	bc	1.19	a	30.0	cde	83.7		54.02	a	590	b
ST 4550 GLTP	1094	cd	45.2	a	4.20	bc	1.11	e	30.9	cd	83.0		53.82	a	589	b
DP 2020 B3XF	1167	b	40.4	e	3.67	de	1.15	bc	27.9	f	82.6		50.45	b	589	b
ST 4990 B3XF	1079	d	43.0	cd	4.30	b	1.16	b	31.4	cd	83.2		54.05	a	583	bc
NG 4098 B3XF	1012	e	40.5	e	3.90	cde	1.19	a	35.5	a	81.9		54.22	a	549	cd
ST 5610 B3XF	1005	e	45.1	a	4.77	a	1.14	bcd	31.2	cd	83.1		52.85	a	532	d
DG 3421 B3XF	990	e	43.0	bc	3.63	e	1.12	de	29.8	de	82.3		53.52	a	530	d
Mean	1109		43.0		4.08		1.15		31.0		82.9		53.46		593	
P>F	0.0001		0.0009		0.0031		0.0015		0.0001		0.2486		0.0231		0.0001	
LSD (P=.10)	56.03		1.868		0.388		0.0281		1.793		NS		1.5974		36.47	
STD DEV	39.57		1.32		0.27		0.02		1.27		0.95		1.13		25.76	
CV%	3.57		3.07		6.72		1.73		4.08		1.15		2.11		4.35	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 17. Colorado County RACE Trial, 2020¹

Cooperator: Mahalita Farms

Laramie Naumann, County Extension Agent

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac)²	
NG 4098 B3XF	1729	a	41.4	cd	4.34		1.22		34.3	a	84.3		54.23		938	a
DP 2012 B3XF	1677	a	42.5	bcd	4.49		1.19		31.2	cde	84.0		54.18		909	a
NG 4936 B3XF	1674	a	41.3	cd	4.48		1.20		29.9	e	84.5		54.05		905	ab
PHY 480 W3FE	1664	ab	41.6	cd	4.41		1.17		31.8	bc	85.1		54.25		903	ab
DP 2020 B3XF	1652	ab	40.6	d	4.32		1.22		31.9	bc	83.9		54.30		897	ab
PHY 400 W3FE	1652	ab	42.9	bc	4.34		1.19		32.4	bc	83.3		54.23		896	ab
ST 4550 GLTP	1538	bc	45.0	a	4.58		1.18		33.3	ab	83.9		54.23		834	bc
DG 3421 B3XF	1512	c	42.6	bcd	4.33		1.17		31.0	cde	84.7		54.15		818	c
ST 4990 B3XF	1482	c	40.9	cd	4.56		1.20		30.6	de	84.5		54.10		802	c
ST 5610 B3XF	1216	d	44.3	ab	4.55		1.17		33.2	ab	84.0		54.23		660	d
Mean	1580		42.3		4.44		1.19		32.0		84.2		54.20		856	
P>F	0.0001		0.0257		0.1956		0.4735		0.0055		0.4537		0.7572		0.0001	
LSD (P=.10)	133.56		2.099		NS		NS		1.657		NS		NS		71.62	
STD DEV	94.33		1.48		0.14		0.03		1.17		0.83		0.17		50.59	
CV%	5.97		3.51		3.20		2.90		3.66		0.99		0.31		5.91	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2020 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, 2020¹
Texas A&M AgriLife Research and Extension Center, Snook, Texas
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
ST 4550 GLTP	2000	a	45.8	a	4.73	a	1.16	de	32.3	ab	83.6		54.08	b	1081	a
ST 5707 B2XF	1871	ab	41.7	bc	4.53	b	1.19	bc	29.0	de	82.8		53.74	c	1006	a
DP 1646 B2XF	1837	ab	44.7	a	4.44	bc	1.23	a	29.5	cde	82.8		53.85	c	989	a
ST 4990 B3XF	1710	bc	42.5	b	4.50	b	1.22	ab	30.8	bc	83.6		54.05	b	924	b
PHY 400 W3FE	1670	b-	42.2	b	4.18	d	1.21	ab	33.5	a	83.3		54.28	a	907	b
NG 4936 B3XF	1623	cd	42.7	b	4.26	cd	1.19	bc	28.6	e	83.2		53.80	c	873	c
DP 2020 B3XF	1530	de	42.4	b	4.38	bc	1.19	bc	29.4	cde	82.4		53.74	c	822	d
NG 4098 B3XF	1494	ef	40.8	c	4.42	bc	1.23	a	33.1	a	83.5		54.20	ab	809	d
PHY 480 W3FE	1470	ef	42.5	b	4.28	cd	1.13	e	30.2	cd	83.1		53.69	c	789	e
DG 3615 B3XF	1388	f	42.4	b	4.41	bc	1.18	cd	32.1	ab	82.2		54.09	b	751	f
Mean	1659		42.8		4.41		1.19		30.8		83.0		53.95		895	
P>F	0.0006		0.0001		0.0024		0.0001		0.0001		0.3315		0.0001		0.0007	
LSD (P=.10)	215.15		1.056		0.1891		0.0307		1.428		NS		0.1693		116.9	
STD DEV	178.63		0.88		0.16		0.03		1.19		0.91		0.14		97.10	
CV%	10.77		2.05		3.56		2.14		3.84		1.09		0.26		10.84	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 19. Medina County RACE Trial, 2020¹

Cooperator: David Kriewald

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
DG 3615 B3XF	1452	a	43.8		5.14		1.14		32.6	bcd	83.5	ab	51.62		750	a
DP 2020 B3XF	1444	a	45.0		5.15		1.15		31.5	d	84.4	a	51.80		745	a
ST 5707 B2XF	1442	ab	43.2		5.29		1.14		33.4	bcd	83.5	ab	50.70		732	ab
ST 4990 B3XF	1365	abc	40.0		5.25		1.18		36.0	a	84.0	a	52.17		713	ab
NG 4936 B3XF	1385	abc	42.7		5.26		1.15		34.6	ab	83.6	ab	51.32		710	abc
PHY 400 W3FE	1307	abc	41.5		5.16		1.16		33.6	bcd	84.3	a	52.12		682	abc
DP 1646 B2XF	1267	a-d	42.0		5.16		1.16		33.6	bcd	82.7	c	52.20		659	a-d
NG 4098 B3XF	1235	bcd	40.3		5.44		1.15		33.9	abc	83.5	ab	51.55		636	bcd
ST 4550 GLTP	1186	cd	42.1		5.21		1.17		32.4	cd	83.0	bc	51.25		607	cd
PHY 480 W3FE	1099	d	39.5		5.12		1.17		32.0	cd	83.8	ab	51.82		569	d
Mean	1318		42.0		5.22		1.16		33.4		83.6		51.65		680	
P>F	0.0965		0.4826		0.977		0.9567		0.0654		0.0682		0.9882		0.0854	
LSD (P=.10)	207.05		NS		NS		NS		2.163		0.87		NS		103.11	
STD DEV	145.77		3.05		0.33		0.04		1.52		0.61		1.77		72.59	
CV%	11.06		7.27		6.32		3.45		4.56		0.73		3.43		10.67	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 20. Williamson County RACE Trial, 2020
Cooperator: Rick, Tim and Adam Kruger
Gary Pastushok, County Extension Agent
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 480 W3FE	1171	a	49.8	ab	4.85	ab	1.03	c	26.5	b	81.9	abc	48.82	ab	571	a
PHY 400 W3FE	1158	a	50.7	a	4.86	a	1.04	bc	25.6	bcd	80.9	cd	47.77	b	552	a
NG 4098 B3XF	1009	b	48.2	bc	4.59	bc	1.10	a	26.8	b	80.9	cd	51.75	a	523	ab
ST 5707 B2XF	1002	b	46.3	c	4.84	ab	1.10	a	28.9	a	82.6	a	52.15	a	522	ab
NG 4936 B3XF	964	bc	48.4	b	4.82	ab	1.08	a	24.5	de	81.9	abc	49.38	ab	476	bc
DP 1646 B2XF	946	bc	50.6	a	4.98	a	1.07	ab	25.5	bcd	80.3	d	49.13	ab	466	c
ST 4550 GLTP	969	bc	51.1	a	4.85	ab	1.02	c	26.0	bc	81.5	abc	47.63	b	461	c
DP 2020 B3XF	931	bc	46.4	c	4.50	c	1.08	a	23.9	e	81.4	bcd	49.38	ab	460	c
DG 3421 B3XF	940	bc	48.5	b	4.89	a	1.05	bc	24.7	cde	82.0	abc	48.83	ab	460	c
ST 4990 B3XF	909	c	46.3	c	5.01	a	1.07	ab	24.8	cde	82.4	ab	47.90	b	436	c
Mean	1000		48.6		4.82		1.06		25.7		81.6		49.28		493	
P>F	0.0007		0.0008		0.0941		0.0029		0.0006		0.0572		0.4384		0.0054	
LSD (P=.10)	92.56		1.893		0.2699		0.0317		1.44		1.142		3.7086		55.53	
STD DEV	65.38		1.34		0.19		0.02		1.02		0.81		2.62		39.22	
CV%	6.54		2.75		3.96		2.10		3.95		0.99		5.32		7.96	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 21. Milam County RACE Trial, 2020
Cooperator: Jay Beckhusen
Floyd Ingram, County Extension Agent
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 1646 B2XF	701		48.5		4.53	bcd	1.09	abc	25.5	abc	81.1		50.87	abc	355	
NG 4936 B3XF	689		48.1		4.47	cd	1.08	bcd	24.3	bcd	81.6		50.20	bcd	346	
DP 2020 B3XF	650		48.0		4.77	ab	1.10	ab	24.0	cd	80.8		52.93	a	344	
ST 5707 B2XF	692		47.4		4.80	a	1.07	cd	25.2	bcd	80.6		49.30	cd	342	
NG 4098 B3XF	660		47.6		4.43	cd	1.11	a	25.8	ab	81.3		51.18	abc	338	
DG 3421 B3XF	665		47.7		4.30	d	1.06	d	24.9	bcd	80.6		49.87	cd	331	
PHY 400 W3FE	618		45.3		4.60	abc	1.09	abc	27.0	a	80.8		52.87	ab	327	
PHY 480 W3FE	661		47.2		4.57	abc	1.06	d	23.6	d	81.5		47.95	d	318	
ST 4550 GLTP	618		49.2		4.40	cd	1.07	cd	25.9	ab	81.5		51.32	abc	317	
ST 4990 B3XF	603		48.9		4.30	d	1.05	d	25.3	bcd	80.8		49.22	cd	298	
Mean	656		47.8		4.52		1.08		25.2		81.0		50.57		332	
P>F	0.1119		0.164		0.0164		0.0087		0.0766		0.7887		0.0935		0.363	
LSD (P=.10)	NS		NS		0.236		0.024		1.677		NS		2.7291		NS	
STD DEV	41.99		1.44		0.17		0.02		1.18		0.89		1.93		27.25	
CV%	6.40		3.01		3.69		1.57		4.71		1.09		3.81		8.22	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 22. Falls County RACE Trial, 2020^{1,2}
Cooperator: Rodney Stephens
Pasquale Swaner, County Extension Agent
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ³	
ST 4990 B3XF	2159	a	44.7	def	4.53	de	1.21	bc	30.1	e	83.8	bc	53.96	d	1165	a
ST 4550 GLTP	2129	ab	47.8	a	4.81	b	1.18	d	32.4	b	84.9	a	54.30	a	1156	ab
DP 2020 B3XF	2082	ab	45.1	cde	4.56	de	1.23	ab	30.6	de	83.6	bc	54.10	bcd	1126	abc
DG 3615 B3XF	2056	bc	46.1	bc	4.86	b	1.18	d	30.8	cde	82.5	d	53.92	d	1108	bcd
DP 1646 B2XF	2001	cd	46.7	ab	4.78	bc	1.24	a	29.9	e	83.8	bc	54.00	cd	1081	cde
ST 5707 B2XF	2046	bc	43.6	fg	5.12	a	1.19	cd	34.0	a	84.2	ab	52.00	e	1064	de
NG 4936 B3XF	1909	d	44.2	efg	4.63	cd	1.21	bc	30.2	e	83.9	bc	53.96	d	1030	ef
NG 4098 B3XF	1802	e	43.0	g	4.44	e	1.24	a	34.2	a	83.2	cd	54.28	ab	978	fg
Mean	1975		45.3		4.67		1.21		31.6		83.7		53.89		1064	
P>F	0.0001		0.0006		0.0001		0.0005		0.0003		0.0226		0.0001		0.0001	
LSD (P=.10)	101.91		1.427		0.173		0.0226		1.438		0.921		0.1943		53.64	
STD DEV	71.49		1.00		0.12		0.02		1.01		0.65		0.14		37.63	
CV%	3.62		2.21		2.60		1.31		3.19		0.77		0.25		3.54	

¹ Indicates the location was irrigated

² Trial did include 2 varieties that had the Enlist technology, but due to dicamba herbicide injury and reduced performance, these entries were removed from the published table

³ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 23. Navarro County RACE Trial, 2020
Cooperator: Reed Farms
Andrew Lewis, County Extension Agent
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PHY 480 W3FE	1075		46.3	abc	4.67		1.07		28.0	ab	81.6		50.82		548	
ST 5707 B2XF	1008		45.3	c	4.67		1.09		29.8	a	81.4		52.07		525	
PHY 400 W3FE	982		45.0	c	4.33		1.07		25.9	bc	81.0		51.00		501	
NG 4098 B3XF	939		45.6	bc	4.30		1.10		27.6	ab	79.5		51.68		486	
NG 4936 B3XF	909		45.2	c	4.43		1.10		26.2	bc	81.0		51.83		471	
ST 4990 B3XF	927		44.6	c	4.37		1.09		25.8	bc	80.3		50.67		469	
ST 4550 GLTP	879		47.5	ab	4.13		1.09		27.3	b	81.1		52.68		463	
DG 3615 B3XF	937		45.3	c	4.67		1.05		26.4	bc	80.4		48.95		462	
DP 1646 B2XF	862		48.3	a	4.40		1.09		26.6	bc	79.9		52.33		451	
DP 2020 B3XF	879		44.6	c	4.50		1.09		24.9	c	79.7		49.73		438	
Mean	940		45.8		4.45		1.08		26.9		80.6		51.18		482	
P>F	0.314		0.0896		0.7752		0.6278		0.0931		0.1309		0.5275		0.6082	
LSD (P=.10)	NS		2.117		NS		NS		2.361		NS		NS		NS	
STD DEV	101.50		1.50		0.40		0.03		1.67		0.96		2.13		65.50	
CV%	10.80		3.27		8.96		2.74		6.21		1.19		4.16		13.60	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Table 24. Comanche County RACE Trial, 2020^{1,2}

Cooperator: Rodney Stephens

Michael Berry, County Extension Agent

Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ²	
DP 2020 B3XF	2421	a	41.7	cd	3.90	bcd	1.23	b	29.7	d	83.3		53.92	a	1306	a
NG 4936 B3XF	2232	b	41.3	de	4.00	abc	1.24	b	29.5	d	83.3		53.92	a	1203	ab
NG 4098 B3XF	2120	bcd	39.7	efg	3.80	cd	1.27	a	32.7	ab	82.9		54.25	a	1150	bc
DP 1646 B2XF	2074	b-e	43.5	ab	3.90	bcd	1.28	a	30.0	cd	83.1		54.00	a	1120	bcd
PHY 480 W3FE ²	2172	bc	43.0	bc	3.53	d	1.22	b	32.7	ab	83.0		50.55	b	1104	bcd
ST 4990 B3XF	2005	cde	40.5	def	4.03	abc	1.22	b	30.6	cd	83.6		54.10	a	1085	cd
ST 4550 GLTP	1954	def	44.8	a	4.27	ab	1.17	c	31.0	cd	83.0		54.03	a	1056	cde
ST 5707 B2XF	1928	ef	38.4	g	4.23	ab	1.24	b	33.4	a	83.8		54.33	a	1048	cde
DG 3615 B3XF	1902	ef	44.1	ab	4.30	a	1.17	c	30.7	cd	82.2		54.05	a	1028	de
PHY 400 WRF ²	1820	f	39.7	fg	3.53	d	1.21	b	31.5	bc	84.1		52.60	a	959	e
Mean	2063		41.7		3.95		1.22		31.2		83.2		53.58		1106	
P>F	0.0004		0.0001		0.0128		0.0001		0.0064		0.2659		0.0575		0.0049	
LSD (P=.10)	174.4		1.554		0.367		0.0284		1.688		NS		1.8613		117.11	
STD DEV	123.18		1.097		0.259		0.0201		1.192		0.808		1.3146		82.72	
CV%	5.97		2.63		6.56		1.64		3.82		0.97		2.45		7.48	

¹ Indicates the location was irrigated

² Did suffer some early season Dicamba herbicide injury on the Enlist varieties which most likely had a negative effect on yield.

³ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 25. Corpus Christi Center Monster Cotton Variety Trial, 2020
Texas A&M AgriLife Research and Extension Center, Corpus Christi, Texas
Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DGX 197312 GLTP	1472	a	43.7	a	4.3	abc	1.18	f-j	31.5	e-n	82.6	qrs	54.10	ab	797	a
NG 4936 B3XF	1393	abc	39.6	l-p	4.0	d-h	1.19	c-f	30.3	m-s	84.5	b-e	54.18	ab	755	ab
DG 3402 B3XF	1387	a-d	39.9	k-n	3.8	h-p	1.18	e-i	30.7	k-q	84.6	a-d	54.14	ab	751	abc
AMX19B003 B3XF	1396	ab	41.1	f-i	4.0	d-i	1.15	m-p	29.9	o-s	83.2	l-r	53.79	abc	751	a-d
DGX 19731 GLTP	1375	a-e	41.0	g-j	4.3	abc	1.19	d-h	31.2	g-o	83.3	k-r	54.13	ab	744	a-d
DP 19R228 B3XF	1380	a-d	42.5	bcd	4.3	abc	1.11	u	28.6	tuv	83.9	d-l	53.35	a-d	736	a-e
PHY 350 W3FE	1338	a-f	40.0	f-m	3.9	e-l	1.15	n-q	31.6	e-m	83.8	d-n	54.06	ab	723	a-f
AMX19A016 B3XF	1372	a-e	38.1	qrs	3.7	o-t	1.12	stu	28.9	s-v	81.7	t	52.08	de	715	a-g
DP 19R227 B3XF	1290	b-g	37.7	rst	4.5	a	1.15	n-q	31.2	g-o	83.9	d-l	53.89	ab	695	b-h
FM 2398 GLTP	1289	b-g	41.7	c-h	4.5	a	1.15	m-p	30.7	k-q	83.0	o-s	53.81	abc	693	b-i
DP 2020 B3XF	1277	b-h	39.4	m-p	3.9	e-l	1.19	c-g	31.3	f-n	84.3	c-g	54.30	a	693	b-i
BX 2192 B3XF	1271	b-h	40.8	h-k	4.2	bcd	1.25	a	31.1	i-p	84.4	b-f	54.24	a	689	b-i
ST 4550 GLTP	1254	b-h	43.1	ab	4.1	b-e	1.12	tu	30.5	l-r	83.5	h-p	53.84	ab	676	b-j
DP 19R237 B3XF	1238	b-j	39.8	l-o	4.1	b-f	1.26	a	32.6	b-f	85.3	a	54.40	a	674	b-k
PHY 400 W3FE	1243	b-i	40.8	h-k	3.8	h-q	1.16	j-o	32.4	c-h	83.0	o-s	54.09	ab	673	b-k
BX 2141 GLTP	1234	b-k	39.9	k-o	4.0	d-h	1.19	d-h	33.6	abc	84.3	c-i	54.33	a	670	b-l
PX3D32 W3FE	1255	b-h	38.9	n-q	3.6	r-u	1.19	c-g	32.0	d-k	83.5	g-p	53.08	a-e	668	b-l
DP 2012 B3XF	1229	b-l	39.7	l-o	3.9	e-m	1.16	i-n	29.4	q-u	84.1	c-k	53.90	ab	662	b-l
BX 2191 B3XF	1221	b-l	41.0	g-j	3.7	l-t	1.14	o-s	29.8	p-u	82.3	st	53.59	abc	654	c-m
AMX19B001 B3XF	1211	d-l	41.9	c-g	4.0	d-k	1.15	l-p	30.1	n-s	84.2	c-i	53.94	ab	653	c-m
PX3D43 W3FE	1217	c-l	41.4	e-i	3.9	f-n	1.12	stu	31.8	e-l	83.7	e-o	53.58	abc	652	c-m
NG 4098 B3XF	1199	e-l	37.6	st	3.8	k-s	1.21	bc	34.3	a	83.3	f-q	54.33	a	651	d-m
AMX19A015 B3XF	1227	b-l	35.2	v	3.5	tu	1.20	b-e	30.3	m-s	83.5	h-p	51.74	e	637	e-n
PX4B08 W3FE	1259	b-h	43.8	a	4.2	bcd	1.05	v	31.1	h-p	82.7	p-s	50.29	f	635	f-n
PHY 500 W3FE	1187	f-m	41.7	c-h	3.6	p-t	1.12	r-u	32.2	d-j	84.1	c-k	52.85	b-e	627	f-n
DP 1820 B3XF	1154	g-o	42.4	b-e	4.5	a	1.21	bcd	32.8	b-e	83.6	f-o	54.30	a	627	f-o
UA 114	1155	g-o	35.5	v	4.0	d-h	1.15	m-p	31.0	j-p	85.2	ab	54.13	ab	625	f-o

Table 25 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 1646 B2XF	1140	g-p	42.7	bc	4.0	d-j	1.21	bcd	31.0	j-p	83.7	e-o	54.18	ab	618	g-p
PHY 580 W3FE	1137	g-p	42.3	b-e	4.0	d-j	1.15	m-p	33.8	ab	84.3	c-g	54.15	ab	616	g-p
DGX 19008 B3XF	1143	g-p	42.1	c-f	3.8	h-p	1.19	d-h	28.5	uv	83.2	l-r	53.79	abc	615	h-q
AMX19A014 B3XF	1144	g-p	38.1	qrs	3.7	m-t	1.14	n-r	27.7	v	82.5	rst	53.55	abc	613	h-r
ST 4990 B3XF	1125	g-q	38.9	opq	4.1	b-e	1.17	h-m	30.4	l-r	84.1	c0j	54.01	ab	608	h-r
BX 2116 GLTP	1125	g-q	36.2	uv	3.7	l-t	1.15	m-p	31.0	j-p	83.8	d-o	53.98	ab	607	h-r
PHY 360 W3FE	1106	h-r	41.0	g-j	4.0	d-h	1.14	n-r	29.9	o-t	83.1	m-s	53.71	abc	594	i-s
PX5E28 W3FE	1180	f-n	38.1	qrs	3.3	u	1.17	h-m	32.2	d-j	83.9	d-m	49.10	fg	580	j-s
BX 2194 B3XF	1175	f-n	38.7	pqr	3.3	v	1.19	d-h	29.2	r-u	83.0	n-s	48.83	g	576	j-s
BX 2193 B3XF	1066	i-r	42.3	b-e	4.3	ab	1.12	stu	32.5	b-g	83.8	d-o	54.00	ab	576	j-s
PHY 390 W3FE	1101	h-r	40.4	i-l	3.7	n-t	1.16	k-p	31.6	e-m	83.4	i-p	52.45	cde	575	k-s
PX5C45 W3FE	1067	i-r	42.4	bcd	3.8	j-s	1.11	u	32.4	c-i	84.1	c0k	53.86	ab	575	k-s
DP 1948 B3XF	1058	k-r	41.4	d-h	3.8	h-p	1.22	b	33.3	a-d	83.9	d-l	54.34	a	575	k-s
DGX 19052 B3XF	1063	j-r	39.5	l-p	3.7	n-t	1.14	p-t	30.4	l-r	83.9	d-m	53.84	ab	572	l-s
PX5E34 W3FE	1157	g-o	37.8	rst	3.3	v	1.16	i-n	32.1	d-j	84.2	c-i	48.21	g	557	m-s
PHY 480 W3FE	1054	l-r	39.8	l-o	3.6	stu	1.13	q-u	30.9	j-p	84.3	b-g	52.06	de	547	n-s
DG 3421 B3XF	1015	m-r	41.8	c-h	4.5	a	1.13	q-u	31.5	e-n	84.3	c-h	53.73	abc	545	n-s
PHY 340 W3FE	1003	n-r	42.1	cde	3.8	i-r	1.12	stu	30.2	n-s	83.1	m-s	53.48	abc	537	n-s
DP 1845 B3XF	982	o-r	41.9	c-g	3.6	q-t	1.25	a	32.6	b-f	84.8	abc	54.31	a	533	o-s
UA 107	970	p-r	38.2	qrs	3.9	g-o	1.17	f-k	31.2	g-o	84.8	abc	54.18	ab	526	p-s
ST 5610 B3XF	957	qr	43.7	a	4.1	c-g	1.13	q-u	30.7	k-q	83.8	d-o	53.88	ab	516	qrs
UA 222	950	qr	36.8	tu	4.0	e-k	1.17	g-l	31.5	e-n	83.7	e-o	54.11	ab	514	rs
AMX19A018 B3XF	928	r	42.1	c-f	4.4	a	1.12	stu	30.7	k-q	83.8	d-o	53.74	abc	499	s
DGX 19003 B3XF	931	r	41.6	d-h	4.5	a	1.11	u	30.3	m-s	83.3	f-r	53.25	a-d	497	s
Mean	1178		40.4		3.9		1.16		31.1		83.7		53.39		629	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
LSD (P=.05)	178.77		1.015		0.225		0.021		1.355		0.838		1.375		99.78	
STD DEV	194.42		2.25		0.36		0.04		1.69		0.94		1.74		107.04	
CV%	16.50		5.59		9.05		3.69		5.43		1.13		3.26		17.01	

¹ Lint values were calculated using the 2020 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. Upper Gulf Coast Monster Cotton Variety Trial, 2020
Texas A&M AgriLife Research and Extension Center, Corpus Christi, Texas
Dr. Josh McGinty, Clinton Livingston, and Rudy Alaniz, Texas A&M AgriLife Extension Service - Corpus Christi

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DGX 197312 GLTP	1779	a	44.8	e-j	4.5	j-r	1.19	def	32.5	i-q	82.4	qr	54.15	a-d	964	a
DP 2020 B3XF	1763	a	42.6	q-t	4.6	f-n	1.19	def	31.6	p-t	83.8	d-m	54.15	a-d	955	ab
PX5C45 W3FE	1681	ab	44.9	e-j	4.6	g-p	1.11	rs	33.6	e-m	83.8	d-m	53.98	a-e	907	abc
PHY 480 W3FE	1648	abc	44.1	h-m	4.6	g-o	1.13	o-r	32.3	j-r	84.4	b-h	54.06	a-e	891	a-d
PHY 400 W3FE	1640	abc	45.3	d-g	4.6	f-n	1.17	f-l	33.3	g-o	83.5	g	54.23	a-d	889	a-d
PHY 350 W3FE	1626	a-d	43.7	k-q	4.5	k-s	1.15	l-p	32.2	k-r	84.2	c-k	54.10	a-e	880	a-e
AMX19B001 B3XF	1603	a-e	45.4	d-g	4.8	c-h	1.15	l-p	32.2	l-r	83.4	i-p	54.05	a-e	866	a-f
BX 2191 B3XF	1607	a-e	45.4	d-g	4.6	f-n	1.13	pqr	30.2	t-w	82.6	o-r	53.50	d-g	859	a-f
NG 4098 B3XF	1564	a-f	41.6	tu	4.5	i-q	1.23	ab	38.8	a	83.7	d-n	54.34	ab	850	a-g
19R227 B3XF	1564	a-f	38.9	w	4.8	c-h	1.16	g-l	33.7	d-k	83.6	f-n	54.14	a-d	847	a-h
DGX 19731 GLTP	1568	a-f	44.1	i-o	4.9	a-f	1.19	def	31.9	n-r	83.5	g-o	53.05	f-i	832	b-i
DGX 19052 B3XF	1515	b-g	43.2	m-r	4.3	qrs	1.16	h-l	32.2	l-r	83.2	l-r	54.05	a-e	818	c-j
AMX19B003 B3XF	1510	b-g	44.5	g-l	4.9	b-f	1.17	f-j	32.5	i-q	84.1	c-k	53.54	c-g	809	c-j
DGX 19008 B3XF	1479	b-h	44.1	h-m	4.8	c-j	1.18	e-h	30.0	uvw	83.3	k-q	53.93	a-e	798	c-j
PX3D43 W3FE	1469	b-h	45.0	e-i	4.4	m-s	1.13	pqr	35.0	b-e	84.5	a-e	54.08	a-e	794	c-j
PHY 500 W3FE	1465	b-h	43.6	k-q	4.4	o-s	1.14	m-q	34.2	c-h	84.0	c-l	54.05	a-e	792	c-j
PHY 360 W3FE	1449	b-j	43.4	l-q	4.7	d-l	1.15	k-o	31.8	o-s	83.1	m-r	53.94	a-e	781	c-k
DP 1646 B2XF	1458	b-i	45.8	b-e	4.9	a-f	1.23	ab	31.4	p-u	84.1	c-k	53.65	a-f	781	c-k
PX5E28 W3FE	1417	c-k	40.4	v	3.9	t	1.17	f-l	35.4	bc	84.2	c-k	54.31	abc	770	d-l
AMX19A014 B3XF	1428	c-j	41.5	tuv	4.6	f-m	1.16	g-l	30.3	s-w	82.5	pqr	53.90	a-e	770	d-l
DGX 3615 B3XF	1429	c-j	43.5	k-q	5.0	abc	1.17	f-k	33.9	c-i	83.7	e-n	53.04	f-i	759	e-l
BX 2193 B3XF	1443	b-j	43.9	j-p	5.1	ab	1.15	k-o	34.7	b-g	84.6	a-d	52.45	i	757	e-l
NG 4936 B3XF	1387	d-k	43.3	m-r	4.8	c-h	1.18	f-i	31.4	p-u	84.4	a-h	54.18	a-d	751	e-m
BX 2116 GLTP	1381	e-l	40.4	v	4.2	s	1.18	d-g	33.9	c-j	84.1	c-k	54.29	a-d	750	f-m
BX 2192 B3XF	1377	e-l	42.9	p-s	4.9	b-f	1.24	a	33.4	f-n	84.0	c-l	54.30	abc	748	f-m
PHY 390 W3FE	1371	e-l	44.6	f-k	4.7	f-m	1.16	h-l	33.6	e-m	83.8	d-m	54.18	a-d	743	f-m
ST 4550 GLTP	1381	e-l	45.7	c-f	4.6	g-p	1.12	qr	32.5	i-q	83.3	k-q	53.76	a-f	742	f-m

Table 26 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
AMX19A016 B3XF	1383	e-l	42.0	st	4.7	c-k	1.13	pqr	29.1	w	82.3	r	53.56	b-f	740	f-m
PX3D32 W3FE	1356	f-m	43.0	o-s	4.5	l-s	1.22	bc	34.5	c-g	84.9	abc	54.39	a	737	f-n
BX 2141 GLTP	1341	f-n	42.3	rst	4.6	g-o	1.20	cd	35.2	bcd	85.3	a	54.36	a	729	g-o
19R228 B3XF	1348	f-m	46.9	ab	4.9	a-e	1.13	pqr	31.1	q-v	84.5	a-f	53.31	e-h	719	h-o
DG 3402 B3XF	1313	g-n	43.9	j-p	4.8	c-j	1.16	g-l	32.0	m-r	83.5	g-n	54.10	a-e	710	i-o
DGX 19003 B3XF	1380	e-l	45.2	d-h	5.1	a	1.12	qr	29.6	vw	82.8	n-r	51.28	j	706	i-o
DP 1948 B3XF	1270	h-o	43.8	j-p	4.3	qrs	1.25	a	36.2	b	85.3	ab	54.40	a	691	j-o
PX5E34 W3FE	1210	j-o	40.8	uv	4.3	qrs	1.17	f-k	33.9	c-i	84.5	a-e	54.31	abc	657	k-p
PX4B08 W3FE	1225	i-o	46.2	a-d	4.7	e-l	1.10	s	34.9	b-f	83.9	d-m	52.70	hi	645	l-p
PHY 340 W3FE	1184	k-o	44.9	e-j	4.4	o-s	1.15	j-n	33.6	d-l	84.4	a-g	54.16	a-d	642	l-p
DG 3421 B3XF	1214	j-o	44.8	e-j	5.0	a-d	1.13	pqr	31.3	p-u	84.2	c-j	52.76	ghi	642	l-p
AMX19A015 B3XF	1181	k-o	38.7	w	4.4	n-s	1.22	bc	32.4	i-q	83.9	d-m	54.28	a-d	641	l-p
ST 4990 B3XF	1154	l-o	41.9	st	4.7	e-l	1.17	f-k	31.9	n-r	84.5	a-e	54.20	a-d	626	m-p
DP 1845 B3XF	1150	l-o	44.2	h-m	4.3	p-s	1.24	a	35.0	b-e	84.3	c-i	54.35	ab	625	m-p
BX 2194 B3XF	1154	l-o	43.5	l-q	3.9	t	1.20	cde	30.8	r-v	83.3	j-p	54.09	a-e	624	m-p
ST 5610 B3XF	1123	m-p	46.5	abc	4.8	c-i	1.15	l-p	33.9	c-i	84.2	c-j	54.16	a-d	608	n-q
DP 2012 B3XF	1122	m-p	43.6	k-q	4.6	h-p	1.16	i-m	31.5	p-u	83.7	d-n	54.06	a-e	607	opq
ST 4480 B3XF	1106	nop	40.5	v	4.3	rs	1.22	bc	33.3	g-o	83.6	e-n	54.31	abc	601	opq
PHY 580 W3FE	1060	op	47.2	a	5.0	abc	1.15	l-p	34.7	b-g	84.6	a-d	52.99	f-i	559	pq
AMX19A018 B3XF	905	p	44.1	i-n	4.8	b-g	1.13	n-r	32.9	h-p	83.9	d-m	54.00	a-e	489	q
DGX 3799 B3XF ²	611	q	43.0	n-s	5.1	ab	1.16	h-l	33.8	d-j	83.9	d-m	52.43	i	323	r
Mean	1371		43.6		4.6		1.17		32.9		83.9		53.82		738	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
LSD (P=.05)	239.79		1.114		0.253		0.022		1.560		0.914		0.793		129.18	
STD DEV	289.31		2.09		0.33		0.04		2.17		0.95		0.87		156.59	
CV%	21.11		4.79		7.16		3.45		6.60		1.14		1.61		21.22	

¹ Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.

²Very thin stand.

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

APPENDIX A

Hidalgo County RACE Trial, 2020
Fiber Quality Samples Taken After Hurricane Hanna

Variety	Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)	
DG 3555 B3XF	4.5	de	1.20	cd	32.8	b	84.8		54.33	a
NG 4098 B3XF	4.2	e	1.23	abc	34.9	a	83.7		54.33	a
DP 1646 B2XF	4.7	bcd	1.25	a	32.6	b	84.6		54.32	a
DP 1845 B3XF	4.6	cd	1.24	ab	32.9	b	84.2		54.30	a
NG 4936 B3XF	4.7	bcd	1.21	bcd	31.7	bc	84.3		54.22	a
PHY 400 W3FE	4.5	de	1.16	ef	32.4	bc	83.5		54.18	a
PHY 480 W3FE	4.5	de	1.16	ef	31.4	bc	85.4		54.17	a
ST 4990 B3XF	4.8	bc	1.19	de	30.8	c	83.5		54.10	a
ST 4550 GLTP	4.9	b	1.13	f	32.4	bc	84.4		53.28	b
FM 2398 GLTP	5.5	a	1.16	ef	31.4	bc	83.9		50.27	c
Mean	4.7		1.19		32.3		84.2		53.75	
P>F	<0.0001		0.0003		0.0258		0.3017		<0.0001	
LSD (P=.10)	0.253		0.037		1.642		NS		0.682	
STD DEV	0.36		0.04		1.51		1.06		1.28	
CV%	7.76		3.70		4.66		1.25		2.39	

APPENDIX B

Willacy County RACE Trial, 2020
Fiber Quality Samples Taken After Hurricane Hanna

Variety	Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)	
DP 1845 B3XF	4.4	def	1.16	a	32.9	a	82.6		54.08	
DP 1646 B2XF	4.6	a-d	1.14	ab	30.5	bcd	81.6		53.77	
DG 3555 B3XF	4.1	f	1.11	bc	30.7	bc	82.7		53.50	
NG 4098 B3XF	4.5	b-e	1.12	abc	31.4	ab	81.7		53.18	
FM 2398 GLTP	4.8	a	1.08	cd	29.1	de	81.8		52.57	
PHY 400 W3FE	4.7	ab	1.08	cd	30.5	bcd	80.6		52.50	
ST 4990 B3XF	4.4	cde	1.07	d	29.6	cde	82.0		52.35	
NG 4936 B3XF	4.4	c-f	1.07	d	29.2	de	81.7		51.47	
ST 4550 GLTP	4.7	abc	1.06	d	29.8	cde	82.7		51.42	
PHY 480 W3FE	4.3	ef	1.06	d	28.8	e	81.7		51.32	
Mean	4.5		1.09		30.3		81.9		52.62	
P>F	0.0099		0.0024		0.0059		0.4564		0.2532	
LSD (P=.10)	0.272		0.041		1.517		NS		NS	
STD DEV	0.27		0.04		1.49		1.08		1.51	
CV%	5.93		3.90		4.92		1.32		2.88	



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Issued in furtherance of Cooperative Extension Work in Agriculture and Home Economics, Acts of Congress of May 8, 1914, as amended, and June 30, 1914, in cooperation with the United States Department of Agriculture. Douglas L. Steele, Director, Texas A&M AgriLife Extension Service, The Texas A&M University System.