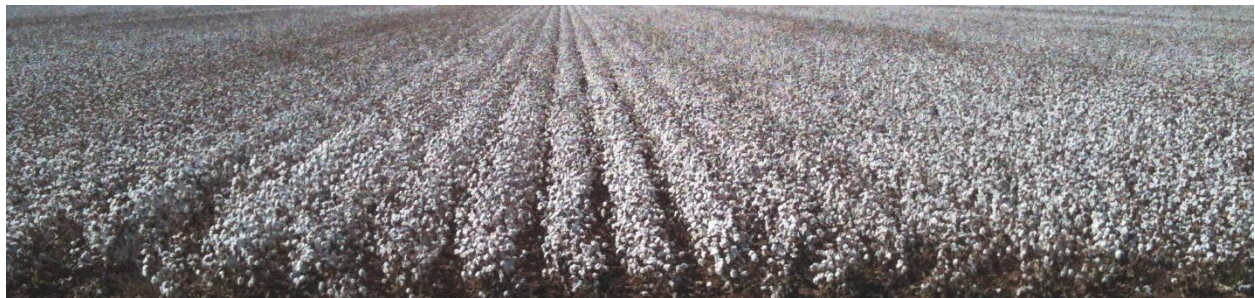


**2022 REPLICATED AGRONOMIC COTTON
EVALUATION (RACE) SOUTH, EAST AND
CENTRAL REGIONS OF TEXAS**



<http://cotton.tamu.edu/>

REPLICATED AGRONOMIC COTTON EVALUATION (RACE)

SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2022

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ACKNOWLEDGMENTS

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

2022 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.

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 can participate. These trials occur on producer's farms and are managed by the producers.

Eighteen Replicated Agronomic Cotton Evaluation (RACE) Trials and four Monster trials were harvested in 2022 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 2022 RACE Trials ranged from 2204 lbs/ac to 398 lbs/ac for Falls County and Navarro County locations, respectively. Mean irrigated location yields ranged from 2204 lbs/ac to 738 lbs/ac for Burleson and Hildago county 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 premium seed treatment packages. Included in this publication are the cotton variety descriptions provided by the companies. See descriptions on pages 6-8.

Table 1 also 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 6 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 25-28) were conducted in 2022 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 2022 RACE trials. These cotton variety descriptions were provided by individual seed company representatives or publicly available information.

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

DeltaPine 2239 B3XF

- Mid-maturity, medium plant type that is responsive to PGRs
- Smooth leaf
- Good fiber quality package, especially fiber staple

Dyna-Gro 3456 B3XF

- Mid- early maturity
- Medium plant height
- Smooth leaf
- Bacterial blight susceptible
- Manage aggressively with PGR

Dyna-Gro 3528 B3XF

- Medium maturity, medium plant height
- Smooth leaf
- Bacterial blight resistant
- High yield potential

Dyna-Gro 3555 B3XF

- Medium maturity, medium plant height
- Semi-smooth leaf
- Bacterial blight resistant
- Excellent fiber quality
- Responds well to PGR management

NexGen 4190 B3XF

- Mid-maturing, smooth leaf variety
- Medium-tall plant height
- Broadly adapted to Central and South Texas that performs on both dryland and irrigated acres
- Possesses an excellent fiber package

PhytoGen 332 W3FE

- Early-mid maturity; semi-smooth leaf
- Resistant to bacterial blight, root-knot and reniform nematodes
- Exceptional yield, fiber length and overall quality
- Medium-tall plant that responds well to PGR management
- Tolerance to Enlist, glyphosate and glufosinate with WideStrike 3 lep control

PhytoGen 400 W3FE

- Early-mid maturity; semi-smooth leaf
- Resistant to bacterial blight and root-knot nematodes
- Very broadly adapted with excellent yield and quality
- Short-medium height plant; easy to manage with PGRs
- Tolerance to Enlist, glyphosate, and glufosinate herbicides with Widestrike 3 lep control

PhytoGen 411 W3FE

- Mid-maturity; semi-smooth leaf
- Resistant to bacterial blight, root-knot nematodes, and reniform nematodes
- High-end yield potential
- Medium-tall plant that responds well to PGR management
- Tolerance to Enlist, glyphosate, and glufosinate herbicides with Widestrike 3 lep control

Stoneville 4595 B3XF

- Good emergence and early season vigor
- Semi-hairy, early maturity
- Moderate plant growth with less PGR requirement
- Excellent, stable yield and fiber potential across environments

Stoneville 4990 B3XF

- Good emergence and early season vigor
- Semi-smooth early-mid maturity
- Moderate plant growth with less PGR requirement
- Easy defoliation
- Good, stable yield with excellent fiber package across environments

Stoneville 4993 B3XF

- Semi-smooth leaf
- Early-mid maturity with medium growth
- Easy to manage growth, responds well to PGRs
- Resistant to bacterial blight
- Easy to management (PGR)
- Good storm tolerance

Stoneville 5091 B3XF

- Good emergence and early season vigor
- Semi-smooth early-mid maturity
- Outstanding yield potential on good soil type and irrigation
- Requires management, but very responsive to PGRs

Table 1. Trial location, cooperators, planting date, harvest date, row spacing, plot dimensions and area of 2022 Texas A&M AgriLife Extension RACE Trials harvested.

County	Hidalgo	Hidalgo (TX AgriScience)	Nueces (Lawhon)	Calhoun
Location (Nearest town)	Mercedes	Lyford	Driscoll	Port Lavaca
Latitude, Longitude	26.17039 -97.87167	26.35489 -97.70191	27.62799 -97.70674	28.60934 -96.65958
Cooperator	Charles McCutcheon	TX AgriScience	Darrell Lawhon	Danny May
Soil Type	Mercedes clay, 0 to 1 % slopes	Raymondville clay loam, 0 to 1% slopes	Victoria Clay, 0 to 1% slopes	Laewest clay, 0 to 1% slopes
Irrigation	furrow	furrow	none	none
Precipitation (Estimated)	14.7"	15"	5.1"	5.8"
Previous Crop	sorghum	sorghum	sorghum	cotton
Row Spacing (in)	40	40	38	38
Plot Dimensions	6 rows x 1,220 ft	2 rows x 40 ft	6 rows x 2,979 ft	2 row x 30 ft
Area harvested/plot	0.56 acre	.006 acre	1.29 acre	.004 acre
Plant Population (/Ac)	36,120	45,000	40,000	55,000
Planting Date	3/25/22	3/30/22	3/21/22	3/31/22
Harvest Date	8/26/22	9/9/22	8/9/22	8/12/22
Yield Limiting Factor(s)			Drought	Drought

Table 1. Continued.

County	Jackson	Matagorda	Wharton	Fort Bend
Location (Nearest town)	Palacios	Tin Top	Crescent	Beasley
Latitude, Longitude	28.993359 -96.747919	28.786593 -96.115461	29.24981 -96.21875	29.48905 -95.99697
Cooperator	Albert and Jonathan Andel	Bill Hansen	Michael Beard	Alan & Lisa Stasney
Soil Type	Laewest clay, 0 to 1 percent slopes	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)	6.2"	4.4"	5"	
Previous Crop		Sorghum	Corn	Corn
Row Spacing (in)	38"	40	40	36
Plot Dimensions	12 rows x 1600 ft	6 rows x 1425 ft	6 rows x 1100 ft	6 rows x 1700 ft
Area harvested/plot	1.4 acre	0.65 acre	0.48 acre	0.78 acre
Plant Population (/Ac)	42,000	42,000	35,000	33,700
Planting Date	3/28/22	4/1/22	3/28/22	4/27/22
Harvest Date	8/8/22	8/8/22	8/4/22	10/22/22
Yield Limiting Factor(s)	Drought	Drought	Drought	Drought

Table 1. Continued.

County	Colorado	Burleson	Medina	Williamson - Kruger
Location (Nearest town)	Eagle Lake	Snook	Lytle	Hutto
Latitude, Longitude	29.472431 -96.346658	30.5361, -96.42142	29.269490 -98.811215	30.557858 -97.538736
Cooperator	Mahalite 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	none
Precipitation (Estimated)	4.4"	5"	6.9"	4.2"
Previous Crop	Cotton	Corn	Corn	Corn
Row Spacing (in)	36	40	36	38
Plot Dimensions	6 row x 1600 ft	2 rows x 675 ft	6 rows x 1205 ft	6 rows x 1050 ft
Area harvested/plot	0.65 acre	0.08 acre	0.50 acre	0.46 acre
Plant Population (/Ac)	31,770	36,190	41,000	35,270
Planting Date	4/7/22	4/29/22	4/18/22	4/13/22
Harvest Date	8/24/22	9/28/22	10/3/22	9/30/22
Yield Limiting Factor(s)	Drought		Dicamba injury to susceptible varieties	Drought

Table 1. Continued.

County	Williamson- Shirocky	Milam	Navarro	Delta
Location (Nearest town)	Buckholts	Buckholts	Corsicana	
Latitude, Longitude	30.91827 -97.09923	30.91827 -97.09923	32.06019 -96.60793	
Cooperator	Greg Shirocky	Buddy Johnson	Reed Farms	
Soil Type	Houston Black clay, 1 to 3 percent slopes	Houston Black clay, 1 to 3 percent slopes	Houston Black clay, 1 to 3 percent slopes	
Irrigation	none	none	none	
Precipitation (Estimated)	8.3"	8.1"	4.4"	
Previous Crop	Corn	Corn	Corn	
Row Spacing (in)	30	30	30	
Plot Dimensions	8 rows x 4385 ft	8 rows x 700 ft	12 rows x 1150 ft	
Area harvested/plot	2.0 acre	0.32 acre	0.80 acre	
Plant Population (/Ac)	52,000	47,000	42,000	
Planting Date	4/12/22	4/11/22	5/19/22	
Harvest Date	8/25/22	9/23/22	9/28/22	
Yield Limiting Factor(s)	Drought	Drought	Drought	Drought

Table 1. Continued.

County	Falls	Bell	Comanche
Location (Nearest town)	Rosebud	Temple	Gustine
Latitude, Longitude	31.15688 -96.807218	31.058374 -97.348083	31.865083 -98.421999
Cooperator	Rodney Stephens	Chad Hajda	Rodney Stephens
Soil Type	Highbank silty clay loam, rarely flooded	Houston Black clay, 1 to 3 percent slopes	Hassee loam, 0 to 1 percent slopes
Irrigation	pivot	none	pivot
Precipitation (Estimated)	4.8"	7.2"	8.7'
Previous Crop	Corn	Corn	Cotton
Row Spacing (in)	36"	30"	36'
Plot Dimensions	6 rows x 1600 ft	6 rows x 1025 ft	6 rows x 2542 ft
Area harvested/plot	0.66 acre	0.35 acre	1.05
Plant Population (/Ac)	42,000	47,000	42,000
Planting Date	4/15/22	3/29/22	5/3/22
Harvest Date	9/22/22	9/16/22	11/18/22
Yield Limiting Factor(s)		Drought	

Table 1. Continued.

County	LRGV Monster	Corpus Christi Monster	Mid-Coast Monster	Stiles Farm Monster
Location (Nearest town)	Lyford	Robstown	Port Lavaca	Thrall
Latitude, Longitude	26.35489 -97.70191	27.78296 -97.56102	28.608223 -96.659659	30.600451 -97.299247
Cooperator	TX AgriScience	AgriLife Research	Dannie May	Ryan Collett
Soil Type	Raymondville clay loam, 0 to 1% slopes	Victoria clay, 0 to 1% slopes	Laewest clay, 0 to 1 percent slopes	Burleson clay, 0 to 1 percent slopes
Irrigation	furrow	none	none	none
Precipitation (Estimated)	15"	4.5" through defoliation	5.8"	5.3"
Previous Crop	sorghum	corn	sorghum	corn
Row Spacing (in)	40	38	38	30"
Plot Dimensions	2 rows x 40 ft	2 row x 35 ft	2 row x 30 ft	1 row x 40 ft
Area harvested/plot	.006 acre	.005 acre	.004 acre	.003 acre
Plant Population (/Ac)	45,000	55,000	55,000	52,000
Planting Date	3/30/22	3/22/22	3/31/22	4/28/22
Harvest Date	9/9/22	9/12/22	8/12/22	8/29/22
Yield Limiting Factor(s)		Drought	Drought	Drought

Table 2. Variety rankings based on lint value, Lower Rio Grande Valley, 2022.

Location	Hidalgo (TX AgriScience)	Hidalgo (Ybarra)	Mean Ranking
Mean Yield (lbs/acre)	1201	873	
Variety			
PHY 332 W3FE	2	1	1.5
PHY 400 W3FE	1	2	1.5
DP 2020 B3XF	3	5	4.0
DP 2239 B3XF	6	3	4.5
ST 4595 B3XF	4	6	5.0
DP 2012 B3XF	7	4	5.5
ST 4990 B3XF	5	7	6.0
NG 4190 B3XF	8	8	8.0
DG 3555 B3XF	9	9	9.0
DG 3456 B3XF	10	10	10.0

Table 3. Variety ranking based on lint value, Upper Gulf Coast Counties, 2022.

Location	Jackson	Matagorda	Wharton	Fort Bend	Colorado	Mean Rank
Mean Yield (lbs/A)	943	923	878	1098	1190	
Variety						
PHY 411 W3FE		3		1	1	1.7
PHY 332 W3FE	2	1	1	8	4	3.2
NG 4190 B3XF	1	2	8	4	3	3.6
PHY 400 W3FE	5	4	6	2	2	3.8
DG 3555 B3XF	6	5	5	5	5	5.2
ST 4595B3XF	3	6	4	7	10	6.0
ST 4990B3XF	4	7	2	10	9	6.4
DP 2020 B3XF	7	9	3	6	7	6.4
DG 3456 B3XF	10	10	9	3	6	7.6
DP 2012 B3XF	8	8	7	9	8	8.0
ST 5091 B3XF	9		10			9.5

Table 4. Variety ranking based on lint value, Cen-Tex Irrigated Counties, 2022.

Location¹	Burleson	Medina	Falls	Comanche	Mean
Mean Yield (lbs/A)	1559	1160	2204	1507	
Variety					
ST 4595 B3XF	4	5	1	1	2.8
NG 4190 B3XF	1	6	5	2	3.5
ST 5091 B3XF	6	3	2	4	3.8
PHY 411 W3FE	2	4		8	4.7
DP 2012 B3XF	7	2	7	6	5.5
DP 2020 B3XF	8	1	10	3	5.5
PHY 400 W3FE	5	7		5	5.7
PHY 332 W3FE	3	9		10	7.3
DG 3555 B3XF		8	8	7	7.7
DG 3456 B3XF	9	10	4	9	8.0

¹ All locations were irrigated

Table 5. Mean location lint yield and variety ranking based on lint value, Non-irrigated Cen-Tex trials 2022.

Location	Williamson	Milam	Navarro	Bell	Mean
Mean Yield (lbs/A)	485	468	398	432	
Variety					
PHY 332 W3FE	1	1	1		1.0
NG 4190 B3XF	4	3	2	5	3.5
ST 4990B3XF	3	6	4	4	4.3
PHY 400 W3FE	2	2	10		4.7
DG 3528 B3XF	7	8	3		6.0
ST 4993B3XF	8	5	6		6.3
DP 2020 B3XF	6	4	8	10	7.0
DP 2012 B3XF	5	7	9	9	7.5
ST 4595B3XF	9	9	5	7	7.5
DG 3456 B3XF	10	10	7	8	8.8

Table 6. Hidalgo County RACE Trial, 2022

Cooperator: Texas AgriScience, LLC

Vidal Saenz - Hidalgo County Extension Agent, Agriculture and Natural Resources

Dr. Josh McGinty, Jonathan Ramirez, 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	1364	a	40.5	de	4.4	a	1.12	d	29.6	ab	82.5		53.33		728	a
PHY 332 W3FE	1342	ab	38.6	g	3.9	c	1.19	a	29.9	a	83.2		52.58		706	ab
DP 2020 B3XF	1282	abc	39.4	f	3.9	c	1.18	ab	27.1	d	82.8		53.63		688	abc
ST 4595 B3XF	1268	abc	41.5	bc	4.4	a	1.17	abc	27.3	cd	83.2		53.56		679	abc
ST 4990 B3XF	1239	abc	39.7	ef	4.3	ab	1.16	c	27.7	cd	83.4		53.58		664	abc
DP 2239 B3XF	1234	abc	42.8	a	4.6	a	1.17	abc	28.5	bc	83.3		53.61		662	abc
DP 2012 B3XF	1181	bcd	39.9	ef	4.0	c	1.15	c	27.6	cd	83.4		53.58		633	cde
NG 4190 B3XF	1157	cd	40.9	cd	4.1	bc	1.16	abc	27.1	d	83.1		52.58		609	cde
DG 3555 B3XF	1012	de	37.9	g	4.0	c	1.16	bc	29.8	a	84.3		53.71		543	de
DG 3456 B3XF	926	e	41.8	b	4.5	a	1.11	d	27.0	d	81.8		52.94		490	e
Mean	1201		40.3		4.2		1.16		28.1		83.1		53.31		640	
P>F	0.0031		<0.0001		0.0002		0.0004		0.0003		0.142		0.7197		0.0045	
LSD (P=.10)	170.8		0.839		0.270		0.027		1.234		NS		NS		94.28	
STD DEV	190.57		1.60		0.33		0.03		1.45		1.06		1.03		103.57	
CV%	15.87		3.96		7.81		2.77		5.14		1.27		1.93		16.18	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 7. Hidalgo County RACE Trial, 2022

Cooperator: Charles McCutcheon

Vidal Saenz - Hidalgo County Extension Agent, Agriculture and Natural Resources

Dr. Josh McGinty, Jonathan Ramirez, 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 332 W3FE	1227	a	43.7	c	5.0	bc	1.16	a	31.1	a	83.2	ab	53.03	a	651	a
PHY 400 W3FE	1192	a	44.2	bc	4.9	c	1.12	c	30.3	ab	81.6	d	52.70	ab	627	a
DP 2239 B3XF	940	b	45.7	a	5.1	b	1.16	a	29.9	abc	83.3	ab	51.33	b	482	b
DP 2012 B3XF	899	bc	43.1	d	4.8	c	1.13	bc	27.5	ef	82.5	a-d	53.40	a	480	b
DP 2020 B3XF	862	bcd	42.3	e	4.9	c	1.14	ab	27.6	ef	82.2	bc	52.70	ab	455	bc
ST 4595 B3XF	829	cde	45.6	a	5.4	a	1.11	c	28.8	cde	81.8	d	49.95	c	414	cd
ST 4990 B3XF	772	de	41.3	f	5.0	bc	1.12	c	27.9	def	83.0	ab	52.37	ab	404	cd
DG 3555 B3XF	727	e	40.9	f	4.5	d	1.13	bc	30.7	a	83.0	ab	53.65	a	390	d
NG 4190 B3XF	728	e	44.4	b	4.9	bc	1.13	bc	29.2	bcd	83.6	a	53.53	a	390	d
DG 3456 B3XF	552	f	43.7	c	4.8	c	1.09	d	27.3	f	82.0	cd	52.62	ab	291	e
Mean	873		43.5		4.9		1.13		29.0		82.6		52.53		458	
P>F	<0.0001		<0.0001		<0.0001		0.0003		0.0004		0.0708		0.0054		<0.0001	
LSD (P=.10)	110.79		0.58		0.17		0.02		1.37		1.12		1.37		60.36	
STD DEV	211.33		1.61		0.23		0.02		1.57		0.92		1.34		111.98	
CV%	24.21		3.70		4.60		2.21		5.42		1.12		2.55		24.43	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 8. Nueces County RACE Trial, 2022

Cooperator: Darrell Lawhon

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

Dr. Josh McGinty, Jonathan Ramirez, 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 332 W3FE	925	a	37.3	bc	4.4	bc	1.15	a	31.6	a	84.0	a	53.90	a	499	a
FM 2498 GLTP	943	a	38.2	ab	4.9	a	1.10	d	29.7	bc	83.0	a-d	52.65	c	496	a
PHY 400 W3FE	895	ab	37.8	ab	4.4	c	1.14	ab	30.6	ab	83.8	ab	53.72	ab	481	ab
ST 4595 B3XF	894	ab	38.6	a	4.8	a	1.12	bc	29.0	cd	82.9	a-d	53.42	abc	478	ab
DG 3555 B3XF	853	b	37.6	ab	4.2	d	1.13	ab	30.9	a	83.9	a	53.72	ab	458	bc
DP 2012 B3XF	847	bc	37.5	ab	4.4	bc	1.11	cd	28.4	de	82.6	bcd	52.90	bc	448	cd
DP 2020 B3XF	802	cd	36.2	cd	4.5	bc	1.14	ab	28.5	de	83.1	abc	53.52	abc	429	de
NG 4190 B3XF	775	d	37.7	ab	4.5	b	1.12	bc	28.8	cd	83.3	abc	53.45	abc	414	e
DG 3456 B3XF	713	e	38.3	ab	4.5	b	1.05	e	27.6	e	81.9	d	49.88	d	356	f
NG 4936 B3XF	637	f	36.1	d	4.4	c	1.10	cd	29.1	cd	82.4	cd	52.77	bc	336	f
Mean	828		37.5		4.5		1.12		29.4		83.1		52.99		439	
P>F	<0.0001		0.0245		<0.0001		0.0007		<0.0001		0.0993		<0.0001		<0.0001	
LSD (P=.10)	49.39		1.191		0.124		0.029		1.070		1.2004		0.996		26.13	
STD DEV	99.09		1.19		0.23		0.03		1.37		0.95		1.27		56.94	
CV%	11.96		3.18		5.05		2.90		4.64		1.15		2.39		12.96	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated. DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 9. Calhoun County RACE Trial, 2022

Cooperator: Danny May

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

Dr. Josh McGinty, Jonathan Ramirez, 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	
ST 4595 B3XF	910		46.4	a	4.7		1.09	bcd	28.7		83.3		52.92		482	
PHY 400 W3FE	899		43.9	b	4.8		1.08	cd	29.5		83.2		51.97		466	
NG 4190 B3XF	835		44.0	b	4.6		1.12	ab	30.7		83.4		53.57		447	
ST 4990 B3XF	848		41.5	c	4.8		1.11	abc	28.3		83.0		52.35		444	
PHY 332 W3FE	847		42.8	bc	5.0		1.11	abc	28.8		83.2		52.08		441	
DP 2020 B3XF	763		42.5	bc	4.8		1.13	a	29.8		84.0		52.55		401	
DG 3555 B3XF	787		43.9	b	4.9		1.07	d	28.4		82.4		50.63		398	
DP 2012 B3XF	777		42.9	bc	5.1		1.10	a-d	28.6		82.6		50.62		393	
DG 3456 B3XF	686		45.9	a	5.0		1.12	ab	30.3		82.8		52.50		360	
Mean	817		43.7		4.8		1.10		29.2		83.1		52.13		426	
P>F	0.3087		0.0038		0.3875		0.0635		0.2691		0.4053		0.3586		0.2118	
LSD (P=.10)	NS		1.765		NS		0.031		NS		NS		NS		NS	
STD DEV	108.66		1.83		0.25		0.03		1.48		0.90		1.76		57.35	
CV%	13.30		4.17		5.17		2.67		5.06		1.08		3.38		13.47	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 10. Jackson County RACE Trial, 2022
Cooperator: Albert and Jonathan Anel
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	
NG 4190 B3XF	1053	a	48.1	a	4.6	ab	1.07	a	27.2	bc	82.0		52.05	a	548	a
PHY 332 W3FE	983	b	44.4	de	4.2	cde	1.07	a	28.3	ab	81.2		52.30	a	514	ab
ST 4595B3XF	969	b	47.7	ab	4.7	a	1.08	a	27.2	bc	82.5		52.30	a	507	ab
ST 4990B3XF	972	b	43.5	e	4.4	bcd	1.07	a	26.1	c	80.8		52.00	a	505	ab
PHY 400 W3FE	955	b	46.0	bc	4.3	cd	1.06	a	28.5	a	81.4		52.05	a	497	b
DG 3555 B3XF	929	b	44.9	cd	4.0	e	1.07	a	28.5	ab	82.3		52.35	a	486	b
DP 2020 B3XF	909	c	44.8	de	4.3	cd	1.07	a	26.2	c	81.6		52.30	a	476	b
DP 2012 B3XF	911	c	46.1	bc	4.2	de	1.04	ab	24.8	d	80.9		45.88	b	418	c
ST 5091 B3XF	924	b	46.6	ab	4.6	ab	1.00	c	23.3	e	79.0		41.83	c	387	cd
DG 3456 B3XF	828	d	45.7	cd	4.5	abc	1.02	bc	24.6	d	80.5		43.60	bc	361	d
Mean	943		45.8		4.3		1.05		26.4		81.2		49.67		470	
P>F	0.0069		0.0151		0.0143		0.0639		0.0004		0.1289		0.0001		0.0007	
LSD (P=.10)	62.51		1.715		0.267		0.0409		1.305		1.784		2.5843		47.2	
STD DEV	34.1		0.935		0.145		0.0223		0.712		0.973		1.4098		25.8	
CV%	3.62		2.04		3.35		2.12		2.69		1.2		2.84		5.48	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 11. Matagorda County RACE Trial, 2022

Cooperator: Hansen Farms

Greg Baker - Matagorda 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	
PHY 332 W3FE	984	a	46.0	b	4.4	ef	1.10	c	29.4	bc	82.3		52.88	a	520	a
NG 4190 B3XF	984	a	46.8	ab	4.9	ab	1.12	ab	29.2	bc	83.8		52.70	a	519	ab
PHY 411 W3FE	1016	a	48.0	a	4.7	c	1.04	d	31.1	a	82.2		50.12	b	510	ab
PHY 400 W3FE	954	b	45.3	bc	4.4	f	1.10	c	31.2	a	82.9		53.10	a	507	abc
DG 3555 B3XF	912	c	43.3	d	4.2	g	1.11	bc	30.2	ab	82.8		53.00	a	483	bcd
ST 4595B3XF	906	c	45.4	bc	5.0	a	1.10	bc	28.9	bc	83.1		52.10	a	472	cde
ST 4990B3XF	897	d	43.0	d	4.7	cd	1.09	c	28.2	cd	82.7		52.57	a	471	cde
DP 2012 B3XF	873	d	43.7	cd	4.5	de	1.11	abc	27.3	e	82.5		52.87	a	461	de
DP 2020 B3XF	857	d	43.6	cd	4.6	cde	1.13	a	27.7	de	82.7		53.35	a	457	de
DG 3456 B3XF	846	e	45.1	bc	4.9	b	1.09	c	28.2	cd	83.0		52.68	a	446	e
Mean	923		45.0		4.6		1.10		29.1		82.8		52.54		485	
P>F	0.0003		0.0014		0.0001		0.0001		0.0004		0.4066		0.0438		0.0126	
LSD (P=.10)	55.03		1.741		0.1315		0.022		1.315		1.08		1.4051		36.3	
STD DEV	38.86		1.23		0.0929		0.0155		0.928		0.762		0.9924		25.6	
CV%	4.21		2.73		2.01		1.41		3.19		0.92		1.89		5.29	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 12. Wharton County RACE Trial - 2022
Cooperator: Pflughaupt Farms
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	
PHY 332 W3FE	900	-	44.4	bc	4.2	e	1.09	bc	29.6	a	82.4	ab	52.53	-	473	-
ST 4990 B3XF	892	-	42.2	e	4.3	cd	1.08	bc	26.6	cd	82.4	ab	52.38	-	468	-
NG 4190 B3XF	887	-	45.1	ab	4.4	bc	1.09	ab	27.6	bc	83.5	a	52.71	-	467	-
DG 3555 B3XF	883	-	43.4	cde	3.9	f	1.09	abc	29.1	a	83.2	ab	52.53	-	464	-
DP 2020 B3XF	871	-	42.6	de	4.2	de	1.11	a	26.9	cd	82.4	ab	53.11	-	463	-
ST 4595 B3XF	882	-	45.8	a	4.7	a	1.07	cd	28.6	ab	82.9	ab	52.26	-	461	-
PHY 400 W3FE	872	-	45.4	ab	4.1	e	1.06	d	29.8	a	81.8	bc	52.15	-	455	-
DP 2012 B3XF	863	-	42.9	de	4.2	cde	1.09	abc	26.6	cd	83.0	ab	52.61	-	454	-
DG 3456 B3XF	854	-	44.9	ab	4.5	ab	1.05	d	26.6	cd	80.6	d	51.85	-	443	-
ST 5091 B3XF	876	-	44.0	bcd	4.4	bc	1.06	d	26.1	d	81.4	cd	49.75	-	435	-
Mean	878.03		44.107		4.2977		1.0793		27.743		82.367		52.1917		458.2	
P>F	0.4321		0.0028		0.0001		0.0063		0.0004		0.0799		0.2997		0.1247	
LSD (P=.10)	32.37		1.409		0.177		0.023		1.352		1.501		1.9803		21.2	
STD DEV	22.87		0.995		0.125		0.0163		0.955		1.06		1.3986		15	
CV%	2.6		2.26		2.91		1.51		3.44		1.29		2.68		3.27	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 13. Fort Bent County RACE Trial, 2022

Cooperator: Lisa and Alan Stasney

John Few – Fort Bend 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	
PHY 411 W3FE	1327	a	43.7		4.7		1.12		29.1		83.2		52.05		691	a
PHY 400 W3FE	1255	a	44.8		4.7		1.11		30.1		83.1		53.18		668	ab
DG 3456 B3XF	1117	b	45.9		4.8		1.15		30.9		83.9		52.93		591	bc
NG 4190 B3XF	1069	c	44.0		4.8		1.14		30.1		82.6		53.57		573	cd
DG 3555 B3XF	1072	c	44.1		4.7		1.13		29.1		82.2		53.28		571	cd
DP 2020 B3XF	1059	c	42.9		4.5		1.16		31.6		84.1		53.87		570	cd
ST 4595B3XF	1056	c	44.5		4.6		1.10		32.4		83.7		53.03		559	cd
PHY 332 W3FE	1061	c	45.6		4.7		1.13		29.1		82.5		52.75		559	cd
DP 2012 B3XF	1040	c	44.6		4.8		1.10		29.3		82.6		52.93		551	cd
ST 4990B3XF	930	d	45.0		4.8		1.10		29.7		82.5		52.97		493	d
Mean	1099		44.5		4.7		1.12		30.1		83.0		53.06		583	
P>F	0.0272		0.5464		0.8377		0.4876		0.663		0.2194		0.9049		0.0426	
LSD (P=.10)	164.01		2.303		0.34		0.052		3.208		1.308		1.8314		88	
STD DEV	115.84		1.627		0.24		0.0368		2.265		0.924		1.2935		62.1	
CV%	10.54		3.66		5.11		3.27		7.52		1.11		2.44		10.66	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated. DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 14. Colorado County RACE Trial, 2022
Cooperator: Mahalite 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) ¹	
PHY 411 W3FE	1434	a	45.3	a	4.5		1.02	f	27.7	ab	81.5	ab	48.40	c	694	a
PHY 400 W3FE	1299	b	45.2	a	4.1		1.10	ab	28.6	a	81.1	ab	52.98	a	688	ab
NG 4190 B3XF	1240	bc	44.4	a	4.4		1.10	ab	25.4	c	82.1	a	50.25	b	624	bc
PHY 332 W3FE	1124	de	42.7	bc	4.1		1.11	a	27.9	ab	81.8	a	52.95	a	595	cd
DG 3555 B3XF	1112	de	42.4	cd	4.0		1.09	bc	27.5	b	81.9	a	52.58	a	585	cd
DG 3456 B3XF	1203	bc	44.1	ab	4.3		1.06	e	25.4	c	81.0	a-	47.93	c	577	cd
DP 2020 B3XF	1176	cd	42.3	cd	3.8		1.08	cd	25.3	c	80.1	cd	47.93	c	563	cd
DP 2012 B3XF	1141	cd	40.8	de	4.0		1.11	a	25.1	c	81.2	ab	48.60	bc	555	de
ST 4990B3XF	1116	de	39.9	e	4.2		1.07	d	25.5	c	80.6	bc	48.20	c	538	de
ST 4595B3XF	1066	e	44.6	a	4.5		1.05	e	26.0	c	79.9	d	48.13	c	513	e
Mean	1191		43.2		4.2		1.08		26.4		81.1		49.79		593	
P>F	0.0038		0.0017		0.1815		0.0001		0.0008		0.0536		0.001		0.009	
LSD (P=.10)	106.73		1.622		0.445		0.0143		1.058		1.104		1.8021		66.2	
STD DEV	58.22		0.885		0.243		0.0078		0.577		0.602		0.9831		36.1	
CV%	4.89		2.05		5.84		0.72		2.19		0.74		1.97		6.09	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 15. Burleson County RACE Trial, 2022¹
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	
NG 4190 B3XF	1824	a	43.9	b	4.5	c	1.10	b	27.1	cd	83	a	50.87	cd	928	a
PHY 411 W3FE	1756	ab	44.8	ab	4.7	ab	1.05	c	28.2	abc	81	cde	51.04	bcd	899	a
PHY 332 W3FE	1657	ab	42.1	c	4.4	cd	1.14	a	29.0	a	83	ab	53.31	ab	883	a
ST 4595 B3XF	1576	bc	44.8	ab	4.8	a	1.12	a	27.4	bcd	82	abc	53.16	abc	838	a
PHY 400 W3FE	1559	bc	43.9	b	4.2	e	1.10	b	28.1	abc	81	de	52.84	abc	823	a
ST 5091 B3XF	1612	bc	44.9	ab	4.5	bc	1.06	c	25.5	e	80	e	49.81	de	807	a
DP 2012 B3XF	1471	cd	42.7	c	4.3	de	1.12	a	27.3	bcd	82	abc	52.00	a-d	766	b
DP 2020 B3XF	1406	de	41.9	c	4.2	de	1.12	a	26.2	de	82	bcd	51.11	bcd	721	c
DG 3456 B3XF	1488	cd	45.3	a	4.5	c	1.06	c	25.0	e	81	cde	48.02	e	716	c
DG 3528 B3XF	1244	e	40.7	d	4.1	e	1.14	a	28.8	ab	83	ab	53.58	a	666	d
Mean	1559		43.5		4.4		1.10		27.3		81.7		51.58		805	
P>F	0.0026		0.0001		0.0001		0.0001		0.001		0.0039		0.011		0.0244	
LSD (P=.10)	204.85		1.108		0.162		0.0272		1.507		1.057		2.4161		127.9	
STD DEV	170.09		0.92		0.134		0.0226		1.251		0.878		2.006		106.2	
CV%	10.91		2.11		3.05		2.06		4.58		1.07		3.89		13.2	

¹ Indicates the location was irrigated

² Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 16. Medina County RACE Trial, 2022¹
Cooperator: David Kriewald
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station

Variety	Yield (lbs/acre) ²		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ³	
DP 2020 B3XF	1262		42.1	cd	4.43	d	1.19	ab	30.0	de	82.8	ab	53.70	a	677	
DP 2012 B3XF	1238		42.5	cd	4.5	cd	1.16	cd	31.4	b	81.0	cd	53.72	a	665	
ST 5091 B3XF	1209		44.6	ab	4.57	cd	1.14	d	28.1	g	80.8	d	53.40	a	646	
PHY 411 W3FE	1187		44.4	ab	4.7	bc	1.17	bcd	31.4	bc	82.8	ab	53.85	a	639	
ST 4595 B3XF	1206		45.0	a	4.93	a	1.17	bc	30.9	b-e	82.3	bc	52.17	b	629	
NG 4190 B3XF	1168		44.0	ab	4.43	d	1.16	cd	30.1	cde	82.3	bc	53.65	a	627	
PHY 400 W3FE	1117		44.6	ab	4.8	ab	1.20	a	29.7	ef	83.3	ab	53.75	a	601	
DG 3555 B3XF	1091		41.9	d	4.47	d	1.18	abc	33.7	a	83.9	a	54.03	a	590	
PHY 332 W3FE	1072		43.5	bc	4.5	cd	1.19	ab	31.1	bcd	83.3	ab	53.90	a	578	
DG 3456 B3XF	1055		44.6	ab	4.7	bc	1.14	d	28.4	fg	81.9	cd	53.38	a	563	
Mean	1161		43.7		4.6		1.18		30.4		82.5		53.56		621	
P>F	0.2345		0.0051		0.0036		0.0193		0.0001		0.0089		0.0214		0.2942	
LSD (P=.10)	146.67		1.401		0.2		0.0289		1.292		1.158		0.7429		80.4	
STD DEV	103.59		0.99		0.142		0.0204		0.912		0.818		0.5247		56.8	
CV%	8.93		2.26		3.07		1.74		2.99		0.99		0.98		9.14	

¹ Indicates the location was irrigated

² This location did appear to express a noticeable, possible yield-affecting degree of dicamba-type herbicide symptoms during the fruit set portion of the season

³ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=Fibroma, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 17. Falls County RACE Trial, 2022
Cooperator: Rodney Stevens
Pasquale Swaner - Falls 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 4595 B3XF	2403	a	43.9	a	4.9	a	1.17		29.7	b	82.9		52.87		1271	a
ST 5091 B3XF	2333	a	43.7	a	4.5	cd	1.14		28.5	d	82.3		53.48		1248	ab
DP 2239 B3XF	2318	a	43.7	a	4.7	b	1.21		30	b	83.3		53.77		1246	ab
DG 3456 B3XF	2311	a	43.3	a	4.5	cd	1.15		28.6	cd	82.9		53.53		1237	ab
NG 4190 B3XF	2282	a	43.6	a	4.3	ef	1.17		29.7	b	83.3		53.63		1224	abc
ST 4990 B3XF	2199	b	39.9	bc	4.6	bc	1.20		29.6	bc	83.9		53.77		1182	bcd
DP 2012 B3XF	2147	c	41.8	ab	4.5	cd	1.20		29.2	bc	82.9		53.63		1152	cde
DG 3555 B3XF	2101	d	40.5	b	4.1	f	1.20		31.4	a	84.4		54.00		1134	de
DG 3615 B3XF	2004	ef	40.3	b	4.5	cd	1.18		31.4	a	82.8		53.88		1080	ef
DP 2020 B3XF	1944	f	38	c	4.4	de	1.22		29.7	b	83.7		53.75		1045	f
Mean	2204		41.9		4.5		1.15		29.8		83.2		53.63		1182	
P>F	0.0002		0.0017		0.0001		0.5145		0.0009		0.2546		0.2477		0.001	
LSD (P=.10)	140.5		2.27		0.15		0.312		1.01		1.31		0.637		80.5	
STD DEV	99.2		1.6		0.11		0.221		0.71		0.93		0.45		56.8	
CV%	4.5		3.82		2.38		19.26		2.38		1.11		0.84		4.81	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 18. Williamson County RACE Trial, 2022
Cooperator: Rick and Tim 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 332 W3FE	557	ab	43.0	de	4.4	c	1.0	a	25.30	a	78	abc	43.35		250	a
PHY 400 W3FE	622	a	45.0	bc	4.7	bc	1.0	b	23.43	b	77	abc	39.70		246	a
ST 4990B3XF	532	bc	46.8	a	5.0	a	1.0	ab	22.40	bc	76	c	40.72		212	b
NG 4190 B3XF	504	bcd	46.4	ab	5.0	a	1.0	a	23.57	b	80	a	41.00		208	b
DP 2012 B3XF	491	bcd	42.4	ef	4.6	bc	1.0	ab	20.77	c	78	abc	42.02		207	b
DP 2020 B3XF	475	cde	42.0	ef	4.7	bc	1.0	ab	21.13	c	77	bc	41.17		199	b
DG 3528 B3XF	409	ef	43.7	cde	4.6	bc	1.0	a	26.30	a	79	ab	45.65		192	b
ST 4993B3XF	450	de	44.8	bc	5.0	a	1.0	b	25.80	a	79	ab	43.02		185	b
ST 4595B3XF	468	cde	40.9	f	4.7	bc	1.0	b	22.37	bc	76	c	39.37		184	b
DG 3456 B3XF	345	f	43.6	cde	4.8	ab	1.0	b	22.03	bc	77	bc	38.12		132	c
Mean	485		43.9		4.8		0.99		23.3		77.5		41.42		201	
P>F	0.0001		0.0001		0.0004		0.0218		0.0001		0.0499		0.3334		0.0001	
LSD (P=.10)	70.23		1.773		0.243		0.0348		1.66		2.575		6.0516		34	
STD DEV	40.94		1.034		0.142		0.0203		0.968		1.501		2.6751		19.8	
CV%	8.43		2.36		2.98		2.04		4.15		1.94		6.46		9.85	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 19. Williamson County RACE Trial - Shirocky, 2022
Cooperator: Greg 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
DP 2012 B3XF	484	44.00	4.1	1.1	28.20	82	52.1	252
DP 2239 B3XF	429	39.20	4.2	1.1	29.50	82	52.6	226
ST 4595 B3XF	457	42.60	3.9	1.1	22.10	81	47.25	216
NG 4190 B3XF	450	44.10	4.3	1.1	24.30	80	47.45	214
ST 4990 B3XF	456	42.60	3.9	1.0	25.00	81	44.75	204
ST 4993 B3XF	427	38.40	3.7	1.1	22.20	80	46.75	200
DG 3456 B3XF	443	39.50	3.9	1.0	22.70	79	43.45	192
DP 2020 B3XF	417	46.00	4.4	1.0	23.90	80	43.65	182
DG 3615 B3XF	407	40.70	3.5	1.0	22.60	79	38.75	158
DG 3555 B3XF	330	38.10	3.7	1.1	24.10	81	47.5	157
Trial Mean	430	41.5	3.96	1.05	24.5	80.4	46.4	200

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 20. Milam County RACE Trial, 2022
Cooperator: Buddy Johnson
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	
PHY 332 W3FE	550		37.5		4.7	d	1.00	ab	24.0	ab	77.8		42.43		235	
PHY 400 W3FE	525		41.5		4.7	cd	0.93	d	22.9	abc	76.0		39.40		207	
NG 4190 B3XF	501		39.8		5.1	ab	0.98	ab	21.4	bc	77.3		39.82		199	
DP 2020 B3XF	480		38.9		4.7	cd	0.99	ab	20.7	c	76.0		40.33		193	
ST 4993B3XF	461		38.2		5.0	abc	0.97	bcd	24.8	a	77.7		40.90		190	
ST 4990B3XF	492		42.1		5.3	a	0.97	abc	21.4	bc	75.9		37.63		185	
DP 2012 B3XF	468		38.7		4.7	d	0.94	cd	20.6	c	75.5		39.10		183	
DG 3528 B3XF	410		39.8		4.6	d	1.01	a	25.2	a	78.3		43.35		177	
ST 4595B3XF	416		35.8		4.9	bcd	1.00	ab	21.9	bc	77.6		40.55		169	
DG 3456 B3XF	376		36.3		4.8	bcd	0.97	a-d	21.7	bc	75.8		40.27		151	
Mean	468		38.9		4.9		0.98		22.5		76.8		40.38		189	
DP>F	0.1128		0.1364		0.003		0.0098		0.0146		0.1162		0.0988		0.1307	
LSD (P=.10)	115.69		4.481		0.31		0.0368		2.729		2.223		3.407		49.5	
STD DEV	67.44		2.612		0.18		0.0214		1.591		1.296		1.9861		28.8	
CV%	14.42		6.72		3.72		2.2		7.08		1.69		4.92		15.26	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 21. Navarro County RACE Trial, 2022
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 332 W3FE	414	bc	41.9	b	5.2	ab	1.053	a	27.2	b	79.8	ab	47.8	b	197	a
NG 4190 B3XF	428	ab	41.5	bc	4.9	ef	0.997	bc	23.9	cd	78.3	bcd	42.0	cd	179	ab
DG 3528 B3XF	354	d	40.2	bc	4.8	f	1.047	a	28.2	ab	80.2	a	50.6	a	179	ab
ST 4990B3XF	469	a	45.4	a	5.3	a	0.97	d	24.2	c	76.2	e	37.8	ef	177	ab
ST 4595B3XF	413	bc	40.8	bc	5.0	c-f	1.01	b	24.2	c	78.4	bc	42.3	c	175	ab
ST 4993B3XF	374	cd	41.8	bc	5.2	abc	0.973	d	28.5	a	79.6	ab	42.6	c	159	bc
DG 3456 B3XF	382	bcd	42.1	b	5.0	b-e	0.997	bc	24.3	c	76.6	de	40.9	cd	156	bc
DP 2020 B3XF	375	cd	39.4	c	4.9	def	0.973	d	23.5	cde	76.5	e	39.8	de	149	c
DP 2012 B3XF	373	cd	41.8	bc	4.9	ef	0.98	cd	22.4	e	76.9	cde	39.7	de	148	c
PHY 400 W3FE	403	bcd	42.4	b	5.2	a-d	0.933	e	22.9	de	76.4	e	36.6	f	147	c
Mean	398		41.7		5.0		0.99		24.9		77.9		42.01		167	
P>F	2.662		2.488		3.325		17.033		18.938		4.951		20.666		3.114	
LSD (P=.10)	36.06		1.748		0.1705		0.0152		0.881		1.215		1.635		16.7	
STD DEV	9.05		4.19		3.39		1.53		3.53		1.56		3.89		10.03	
CV%	398.4		41.707		5.024		0.9933		24.93		77.887		42.017		166.7	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 22. Comanche County RACE Trial, 2022
Cooperator: Rodney Stevens
Mike Berry - Comanche 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 4595 B3XF	1627	a	45.3	ab	4.9	ab	1.18	ab	31	bc	83.6	bc	53.02	abc	862	a
NG 4190 B3XF	1583	a	43.9	bc	4.5	c	1.17	abc	30.4	c	84	ab	53.73	a	851	ab
DP 2020 B3XF	1558	a	43.3	c	4.7	abc	1.17	abc	29.8	cd	83.2	bc	53.65	a	836	ab
ST 5091 B3XF	1579	a	45.3	ab	4.9	ab	1.13	cde	28.8	d	81.2	e	52.17	c	824	abc
PHY 400 W3FE	1507	b	45	ab	4.5	c	1.15	bcd	32.5	ab	82.5	b-e	53.85	a	812	abc
DP 2012 B3XF	1482	b	42.9	c	4.7	abc	1.16	abc	30.3	cd	83.1	bcd	53.48	a	793	bcd
DG 3555 B3XF	1457	c	42.8	c	4.6	bc	1.2	a	33.4	a	85.2	a	54.1	a	788	bcd
PHY 411 W3FE	1440	c	45	ab	4.5	c	1.1	e	32.1	ab	81.5	de	53.28	ab	768	cd
DG 3456 B3XF	1455	c	45.9	a	4.9	a	1.11	de	29.6	cd	82.5	b-e	52.35	bc	761	cd
PHY 332 W3FE	1376	d	43.4	c	4.5	c	1.15	bcd	32.9	a	82.2	cde	53.85	a	741	d
Mean	1507		44.3		4.7		1.15		31.1		82.9		53.39		804	
P>F	0.0369		0.0114		0.0975		0.0526		0.0005		0.0186		0.0844		0.0822	
LSD (P=.10)	118.3		1.48		0.34		0.049		1.53		1.66		1.101		67.5	
STD DEV	83.5		1.05		0.24		0.034		1.08		1.17		0.777		47.7	
CV%	5.54		2.37		5.2		2.98		3.47		1.42		1.46		5.94	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

Table 23. Bell County RACE Trial, 2022

Cooperator: Chad Hajda

Lyle Zoeller - Bell 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	
DP 2239 B3XF	473.3	a	45.63	a	4.337	-	0.963	-	20.2	b	75.53	-	40.08	b	191	a
DG 3555 B3XF	426	a	43.47	ab	4.14	-	1.01	-	24.9	a	78.97	-	44.18	a	190	a
ST 5091 B3XF	460.7	a	42.57	a-	4.23	-	0.98	-	20.53	b	76.1	-	40.2	b	185	ab
ST 4990 B3XF	467.3	a	41.93	bc	4.107	-	0.967	-	20	b	76.13	-	39.11	b	183	abc
NG 4190 B3XF	448.3	a	42.97	ab	4.207	-	0.947	-	21.1	b	75.93	-	40.15	b	180	abc
DG 3615 B3XF	431.7	a	40.97	bc	4.17	-	0.957	-	20.57	b	75.73	-	39.2	b	169	abc
ST 4595 B3XF	425.3	b	39.8	d	3.92	-	0.96	-	20.7	b	75.67	-	39.2	b	167	a-d
DG 3456 B3XF	410.7	c	40.47	bc	4.09	-	0.927	-	19.77	b	75.23	-	39.11	b	161	bcd
DP 2012 B3XF	412	c	41	bc	3.887	-	0.947	-	19.03	b	76.27	-	38.83	b	160	cd
DP 2020 B3XF	365.7	d	39.93	cd	3.957	-	0.96	-	19.4	b	75.97	-	39.11	b	143	d
Mean	432		41.8		4.1		0.96		20.6		76.2		39.92		173	
P>F	0.0327		0.084		0.4294		0.1729		0.0246		0.2617		0.0592		0.0477	
LSD (P=.10)	47.81		3.077		0.344		0.0422		2.328		2.152		2.5318		24	
STD DEV	33.77		2.173		0.2429		0.0298		1.644		1.52		1.7882		16.9	
CV%	7.82		5.19		5.92		3.1		7.98		2		4.48		9.81	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

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

Table 24. Cooper County RACE Trial, 2022

Cooperator:

David Drake, 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 332 W3FE	417	a	45.0	PH												
DG 3456 B3XF	398	a	46.3	D												
NG 4190 B3XF	389	a	46.3	N												
ST 4595B3XF	381	a	48.1	ST												
PHY 400 W3FE	364	a	46.7	PH												
ST 4993B3XF	357	a	45.9	ST												
DP 2020 B3XF	344	a	44.6	DP												
DP 2012 B3XF	343	a	43.7	DP												
ST 4990B3XF	333	a	43.6	ST												
DG 3555 B3XF	278	a	41.9	D												
Mean	360		45.2													
P>F	1		0.0019													
LSD (P=.10)	156		2.43													
STD DEV	91		1.42													
CV%	25		3.14													

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=PhytoGen, ST= Stoneville.

*trial is late to be harvested and thus waiting on fiber grades.

Table 25. Lower Rio Grande Valley Monster Cotton Variety Trial, 2022
Cooperator: Texas AgriScience LLC

Dr. Josh McGinty, Jonathan Ramirez, 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 411 W3FE	1327	a	42.9	b	4.8	b	1.08	k-p	30.5	b-f	83.0	a-g	51.44	d-g	683	a
PX 1140A373-04	1247	ab	39.4	k-o	4.3	h-n	1.09	k-o	30.4	b-f	83.5	a-d	52.70	a-f	657	ab
PX 1130A336-04	1232	abc	41.0	d-h	4.6	b-f	1.10	g-	30.5	b-f	83.9	ab	53.03	a-d	654	ab
PX 1140A383-04	1180	bcd	39.8	i-n	4.4	f-k	1.13	b-f	31.3	bc	82.8	b-i	53.61	ab	633	abc
PHY 332 W3FE	1129	b-g	39.7	j-n	4.1	mn	1.14	bcd	29.5	e-k	82.6	c-i	53.58	ab	605	bcd
PX 1150A437-04	1152	b-e	40.9	e-i	4.1	lmn	1.08	k-p	28.6	i-o	81.7	hij	52.44	a-f	604	bcd
PHY 443 W3FE	1146	b-f	41.6	c-f	4.4	f-k	1.08	l-p	30.0	c-h	83.8	abc	52.00	b-g	597	b-e
PX 1130A333-04	1123	b-g	40.3	g-l	4.2	i-n	1.09	i-n	30.5	b-f	83.6	a-d	52.94	a-e	594	b-f
PX 1150A450-04	1113	c-g	40.6	f-j	4.5	c-g	1.10	h-n	31.0	bcd	83.8	abc	53.11	a-d	591	b-g
PHY 400 W3FE	1103	d-h	40.7	f-j	4.1	mn	1.13	b-h	30.1	c-h	83.0	a-g	53.44	ab	589	b-g
PX 1140A385-04	1106	c-g	41.4	d-g	4.7	bcd	1.08	k-o	31.3	abc	83.7	abc	52.24	a-g	578	c-g
DP 2020 B3XF	1078	d-k	39.2	l-p	4.1	n	1.16	ab	27.2	o-r	82.6	c-i	53.54	ab	577	c-g
PX 1150A434-04	1110	c-g	39.1	m-p	4.3	g-m	1.08	l-p	28.8	h-n	81.0	j	51.60	c-g	573	c-g
DP 1646 B2XF	1069	d-k	41.1	d-h	4.5	e-h	1.15	bc	28.4	i-p	82.2	e-j	53.45	ab	571	c-g
DG 3519 B3XF	1083	d-j	39.4	k-o	4.1	lmn	1.13	b-g	29.1	f-l	82.6	c-i	52.45	a-f	567	c-h
PX 1150A431-04	1094	d-i	39.3	k-o	4.3	g-l	1.07	no	29.7	d-i	82.0	e-j	51.69	c-g	565	c-h
DP 2115 B3XF	1042	e-l	42.1	bcd	4.6	b-f	1.10	f-m	28.1	k-q	82.8	b-i	52.85	a-e	551	d-i
PHY 545 W3FE	1066	d-k	41.9	b-e	4.4	e-i	1.06	op	28.2	k-q	82.9	a-h	51.29	efg	546	d-i
ST 4990 B3XF	1020	g-	39.0	nop	4.3	g-n	1.14	bcd	28.2	j-q	82.8	b-i	53.49	ab	546	d-i
FM 1953 GLTP	1022	f-m	37.9	q	4.3	g-l	1.12	c-i	28.9	g-m	83.0	a-g	53.26	abc	545	d-i
DGX 15156A B3XF	1072	d-k	45.4	a	4.2	j-n	1.07	m-	26.9	qr	82.0	e-j	50.56	gh	544	d-i
ST 4550 GLTP	1007	g-	41.7	c-f	4.4	f-j	1.09	j-o	30.2	c-g	82.9	a-g	52.78	a-f	531	e-j
ST 4595 B3XF	1023	f-m	41.3	d-g	4.7	b-e	1.11	e-l	26.9	qr	82.0	e-j	51.68	c-g	528	e-j
DP 1948 B3XF	976	i-m	40.4	g-k	4.5	d-h	1.18	a	32.7	a	83.7	abc	53.95	a	526	f-j
DG 3528 B3XF	1005	g-	41.1	d-h	4.3	g-m	1.12	c-j	27.1	pqr	83.6	a-d	52.25	a-g	526	f-j
DP 2012 B3XF	978	h-	39.8	i-n	4.1	lmn	1.14	bcd	27.4	n-r	83.2	a-e	53.48	ab	523	g-k
PX 1150A435-04	967	j-m	38.9	n-q	4.6	b-f	1.09	i-n	30.3	b-g	81.8	g-j	51.63	c-g	500	h-k

Table 24 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 2239 B3XF	928	lm	42.7	bc	4.6	b-f	1.15	abc	28.0	l-q	83.5	a-d	53.54	ab	497	h-l
DP 2141NR B3XF	954	kl	40.4	g-k	5.2	a	1.12	c-i	30.6	b-e	83.1	a-e	51.28	efg	489	i-m
ST 5091 B3XF	924	lm	41.0	e-h	4.3	g-n	1.10	g-	27.6	m-r	81.6	ij	52.81	a-f	488	i-m
DP 2143NR B3XF	906	mn	40.1	h-m	5.1	a	1.11	d-k	31.6	ab	82.3	d-i	51.10	fg	462	j-m
DP 2127 B3XF	926	lm	41.0	d-h	4.7	bc	1.05	p	26.2	r	81.8	f-j	49.18	h	455	klm
DGX 19737B B3XF	816	no	38.4	opq	3.7	o	1.15	bc	29.6	e-j	83.1	a-f	52.44	a-f	429	lnm
DP 1840 B3XF	788	op	39.0	nop	4.2	k-n	1.14	b-e	28.6	i-o	82.6	c-i	53.48	ab	421	mno
UA 222	684	p	35.8	r	4.2	i-n	1.13	b-f	30.3	b-g	83.2	a-e	53.43	ab	366	no
UA 114	663	p	38.1	pq	4.2	k-n	1.14	b-e	29.5	e-k	84.1	a	53.63	ab	355	o
Mean	1029		40.4		4.4		1.11		29.3		82.8		52.54		541	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0.0041		0.0023		<0.0001	
LSD (P=.10)	125.76		1.118		0.244		0.030		1.406		1.253		1.725		70.33	
STD DEV	172.06		1.89		0.38		0.04		1.87		1.19		1.69		92.42	
CV%	16.71		4.69		8.70		3.48		6.39		1.44		3.21		17.09	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AMX= Americot Experimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGro, DGX= DynaGro Experimental, FM=FiberMax, NG=NexGen, PHY=PhytoGen, PX = PhytoGen Experimental, SSG= Seed Source Genetics, ST= Stoneville

Table 26. Corpus Christi Monster Cotton Variety Trial, 2022
Cooperator: Texas A&M AgriLife Research and Extension Center, Corpus Christi, Texas

Dr. Josh McGinty, Jonathan Ramirez, 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 545 W3FE	872	a	47.5	a	4.6	c-h	1.03	g-l	27.0	f-k	81.3	a-f	49.20	b-h	433	a
PX 1130A333-04	764	ab	41.3	e-j	4.6	d-i	1.05	d-h	28.8	bcd	82.0	a	50.46	a-e	390	ab
PX 1140A383-04	694	abc	42.8	b-g	4.4	j-o	1.08	cd	28.2	c-f	80.8	b-i	51.56	ab	358	abc
PHY 443 W3FE	651	bcd	42.6	c-g	4.5	e-j	1.05	e-i	28.6	b-e	81.6	ab	50.25	a-f	328	a-d
PX 1150A434-04	644	b-e	39.1	lm	4.6	d-i	1.02	i-m	28.1	c-g	79.9	h-k	48.13	d-k	310	b-e
PHY 332 W3FE	591	b-h	42.9	b-g	4.5	h-o	1.08	cd	27.4	e-k	80.1	g-k	50.20	a-f	302	b-f
PHY 411 W3FE	642	b-f	44.2	bc	4.5	g-n	0.98	n	27.6	d-i	79.9	h-k	46.16	h-k	299	b-g
PX 1140A373-04	607	b-g	41.2	f-l	4.7	c-f	1.01	j-m	29.3	abc	81.6	ab	47.75	e-k	289	b-h
DP 2143NR B3XF	551	b-j	42.5	c-g	5.2	a	1.11	a	30.1	a	81.4	a-d	50.69	a-e	280	b-i
FM 2022 GL	569	b-i	42.6	c-g	4.4	k-o	1.02	h-l	28.7	bcd	81.2	a-g	48.46	c-j	277	c-j
PX 1150A437-04	602	b-g	42.0	d-i	4.7	cde	0.99	mn	26.9	g-m	79.1	k	45.38	k	276	c-j
DP 2141NR B3XF	580	b-i	42.7	b-g	5.2	a	1.05	d-g	26.7	h-m	79.3	jk	46.23	h-k	273	c-j
DGX 19737B B3XF	528	c-k	40.2	h-m	4.3	o	1.07	cde	27.8	d-h	80.5	b-i	50.28	a-f	268	c-j
DP 2239 B3XF	508	c-k	44.0	bcd	4.6	c-h	1.09	abc	26.3	j-o	80.3	c-j	51.19	abc	262	c-k
DP 2020 B3XF	525	c-k	41.2	g-m	4.3	no	1.09	abc	25.4	n-q	80.5	b-i	49.16	b-h	260	c-k
PHY 400 W3FE	507	c-k	42.0	d-i	4.4	l-o	1.05	d-g	26.5	i-n	80.2	f-k	50.86	a-d	257	c-k
DG 3519 B3XF	484	c-k	41.7	e-j	4.3	no	1.09	abc	28.7	bcd	81.4	a-e	52.38	a	253	c-k
ST 4550 GLTP	463	d-l	42.6	c-g	4.6	e-j	1.06	c-f	29.3	abc	81.4	abc	51.34	abc	240	d-k
PX 1150A431-04	526	c-k	40.1	h-m	4.7	cd	0.98	n	26.9	f-m	79.1	k	45.15	k	238	d-k
DG 3528 B3XF	457	d-l	43.4	b-e	4.5	g-m	1.07	cde	26.5	i-n	80.5	b-i	50.30	a-f	232	d-l
ST 4595 B3XF	441	d-l	42.1	d-h	4.7	c-f	1.07	cde	26.2	k-o	80.3	e-j	50.16	a-g	222	d-l
PX 1130A336-04	461	d-l	41.8	e-j	4.5	g-n	1.01	j-m	27.4	e-j	80.9	a-h	47.14	g-k	220	d-l
FM 2498 GLT	429	f-l	40.2	h-m	4.8	bcd	1.03	g-l	25.7	m-p	80.6	b-i	46.76	h-k	209	e-l
DP 2012 B3XF	430	e-l	41.5	e-j	4.4	mno	1.07	cde	24.7	pq	80.5	b-i	46.86	h-k	204	e-l
PX 1150A435-04	432	e-l	39.2	klm	4.7	c-g	1.02	h-l	26.7	h-m	79.8	h-k	46.19	h-k	203	e-l
PX 1140A385-04	422	g-l	42.8	b-g	4.8	bc	1.00	lm	28.6	b-e	80.7	b-i	47.36	f-k	201	e-l
ST 5091 B3XF	419	g-l	41.3	f-k	4.5	j-o	1.04	f-j	24.4	q	79.3	jk	45.45	jk	192	f-l

Table 25 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
DP 2127 B3XF	412	g-l	44.8	b	4.9	b	1.03	g-l	25.1	opq	80.8	b-i	45.80	ijk	191	f-l
DP 2115 B3XF	374	i-l	42.4	c-g	4.5	e-k	1.03	f-k	27.3	f-k	79.7	ijk	48.78	b-i	187	g-l
ST 4990 B3XF	376	h-l	39.7	jm	4.4	j-o	1.08	cd	25.4	n-q	79.9	h-k	48.80	b-i	183	h-l
DP 1948 B3XF	337	jkl	39.9	i-m	4.4	j-o	1.11	ab	29.4	ab	81.1	a-g	52.94	a	178	h-l
FM 1953 GLTP	340	jkl	39.1	m	4.4	j-o	1.06	c-f	26.8	h-m	80.4	c-j	51.20	abc	174	i-l
DP 1646 B2XF	327	kl	43.3	b-f	4.5	h-o	1.08	bc	26.6	i-n	79.9	h-k	51.15	a-d	168	i-l
DP 1840 B3XF	325	kl	41.4	e-j	4.5	f-l	1.06	c-f	25.8	l-p	79.9	h-k	48.81	b-i	165	jkl
PX 1150A450-04	317	kl	41.6	e-j	4.6	e-j	1.00	lm	27.2	f-k	80.4	c-j	47.35	f-k	151	kl
DGX 15156A B3XF	258	l	44.4	bc	4.5	g-m	1.01	k-n	26.7	h-m	80.3	d-j	46.53	h-k	124	l
Mean	496		42.0		4.6		1.05		27.2		80.4		48.79		244	
P>F	0.0015		<0.0001		<0.0001		<0.0001		<0.0001		0.0005		<0.0001		0.0036	
LSD (P=.10)	215.42		2.118		0.169		0.028		1.229		1.133		3.046		111.89	
STD DEV	216.45		2.36		0.24		0.04		1.83		1.22		3.54		112.26	
CV%	43.61		5.61		5.31		4.16		6.74		1.52		7.26		45.94	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AMX= Americot Experimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGro, DGX= DynaGro Experimental, FM=FiberMax, NG=NexGen, PHY=PhytoGen, PX = PhytoGen Experimental, SSG= Seed Source Genetics, ST= Stoneville

Table 27. Mid-Coast Monster Cotton Variety Trial, 2022

Cooperator: Danny May

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

Dr. Josh McGinty, Jonathan Ramirez, 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	
PX 1140A383-04	1062	a	44.4	e-h	5.1	b-g	1.09	31.9	ab	83.7	abc	50.49	537	a	
PX 1130A336-04	1041	ab	44.2	e-h	4.9	g-j	1.08	29.1	h-l	82.9	b-g	51.24	536	a	
PHY 400 W3FE	998	a-e	44.5	e-h	4.9	f-j	1.10	29.9	b-k	82.9	b-g	52.19	521	ab	
DP 2127 B3XF	1013	abc	46.9	abc	5.3	ab	1.08	30.1	b-k	83.0	a-g	48.80	497	abc	
PX 1150A435-04	990	a-e	41.3	n	5.2	a-d	1.07	29.7	d-k	82.4	c-i	49.99	494	a-d	
PX 1150A437-04	1002	a-d	43.7	f-j	5.0	c-i	1.05	31.2	a-g	81.5	i	48.99	490	a-e	
PX 1150A434-04	964	a-g	42.4	i-n	5.0	c-h	1.09	31.6	a-d	82.5	c-i	50.81	489	a-e	
PX 1140A373-04	986	a-f	43.9	e-i	5.1	b-g	1.03	31.3	a-f	82.7	b-i	47.78	470	a-f	
ST 4595 B3XF	961	a-h	46.7	abc	5.3	abc	1.08	29.8	c-k	82.3	d-i	48.78	469	a-f	
PX 1130A333-04	931	a-j	45.6	a-e	5.1	b-g	1.09	31.4	a-e	82.8	b-h	49.28	463	a-g	
PHY 545 W3FE	956	a-i	45.5	b-e	5.1	b-g	1.04	30.0	b-k	82.2	e-i	48.00	460	a-g	
DP 1948 B3XF	907	a-k	43.4	g-l	5.2	b-f	1.11	31.3	a-g	84.2	a	50.85	460	a-g	
PHY 411 W3FE	928	a-j	46.3	a-d	5.1	b-g	1.05	31.0	a-h	82.7	b-i	49.09	455	a-h	
DP 1646 B2XF	880	b-l	44.2	e-h	4.9	f-j	1.12	29.3	f-l	83.0	b-g	51.84	454	a-i	
ST 4990 B3XF	858	c-	42.0	k-n	4.9	g-j	1.11	30.3	b-j	83.0	a-g	52.49	451	a-j	
PHY 443 W3FE	906	a-k	45.2	c-f	5.2	abc	1.08	31.9	ab	83.3	a-e	49.13	444	b-k	
DG 3528 B3XF	843	d-	44.2	e-h	4.7	ij	1.09	29.5	e-l	82.6	c-i	52.21	441	b-k	
DGX 19737B B3XF	817	f-m	42.0	k-n	4.7	j	1.07	30.7	b-i	83.3	a-f	49.04	436	b-k	
PX 1150A431-04	868	c-	41.8	lmn	5.0	b-h	1.06	31.4	a-e	81.6	hi	49.71	434	b-k	
DP 2012 B3XF	816	g-	43.0	h-n	4.8	hij	1.11	28.6	jkl	82.4	d-i	53.00	432	b-l	
DP 1840 B3XF	830	e-	42.1	j-n	5.0	d-j	1.09	30.7	b-i	82.7	b-i	50.75	421	c-l	
PHY 332 W3FE	816	f-m	44.1	e-i	5.1	b-g	1.09	29.5	e-l	82.1	f-i	51.26	417	c-l	
PX 1140A385-04	818	f-m	44.5	e-h	5.2	a-d	1.08	31.8	abc	83.9	ab	49.49	402	d-l	
DP 2239 B3XF	799	g-	47.0	ab	5.2	a-e	1.08	28.3	kl	82.0	ghi	49.76	398	e-l	
ST 5091 B3XF	793	h-	44.0	e-i	5.1	b-g	1.05	27.6	l	81.6	hi	48.53	389	f-l	
DP 2020 B3XF	750	l-n	41.7	mn	5.0	c-j	1.11	29.9	b-k	83.5	a-d	51.65	387	f-l	
DGX 15156A B3XF	788	i-m	47.2	a	5.1	b-g	1.08	29.7	d-k	82.2	e-i	50.18	383	f-l	

Table 26 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PX 1150A450-04	738	k-n	43.7	f-j	4.9	e-j	1.07		30.8	a-h	82.9	b-g	50.48		374	g-m
DP 2115 B3XF	771	j-m	45.5	a-e	5.2	a-d	1.04		29.6	e-l	83.3	a-f	47.44		366	h-m
DP 2141NR B3XF	731	lm	44.0	e-i	5.5	a	1.11		29.7	d-k	82.3	d-i	49.53		363	h-m
DG 3519 B3XF	716	lm	43.6	g-k	4.9	f-j	1.08		29.3	g-l	83.0	a-g	50.06		362	i-m
DGX 20P28B B3XF	720	lm	45.0	d-g	5.1	b-h	1.05		28.7	i-l	82.1	e-i	47.96		360	j-m
DP 2143NR B3XF	734	lm	43.2	h-m	5.2	b-f	1.09		32.7	a	83.1	a-g	48.95		356	klm
ST 4550 GLTP	700	mn	45.5	b-e	5.0	c-i	1.04		30.4	b-j	82.7	b-i	48.89		341	lm
DGX 20P28C B3XF	592	n	46.8	abc	5.2	a-d	1.12		29.7	d-k	81.6	hi	53.40		288	m
Mean	858		44.3		5.1		1.08		30.2		82.7		50.06		430	
P>F	0.0003		<0.0001		0.0057		0.2355		0.0147		0.0643		0.1071		0.0011	
LSD (P=.10)	169.85		1.674		0.289		NS		2.021		1.244		NS		92.22	
STD DEV	170.04		2.04		0.27		0.04		1.90		1.13		2.74		90.03	
CV%	19.82		4.62		5.38		4.14		6.29		1.37		5.47		20.95	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AMX= Americot Experimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGro, DGX= DynaGro Experimental, FM=FiberMax, NG=NexGen, PHY=PhytoGen, PX = PhytoGen Experimental, SSG= Seed Source Genetics, ST= Stoneville

Table 28. Southern Blacklands Monster Cotton Variety Trial, 2022
Cooperator: Stiles Farm

Dale Mott, Dr Ben McKnight, Matt Matocha, and Ryan Collett,
Texas A&M AgriLife Extension Service – College Station and Thrall, Texas

Variety	Yield (lbs/acre)	Turnout %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity	Loan Value (¢/lbs)	Lint Value (\$/Ac) ¹						
ST 4990 B3XF	469	45.7	a-d	4.0	ab	0.97	f-i	22.9	d-h	78.3	d-h	40.45	b-k	189
PX 1130A333-04	460	45.9	abc	3.6	c-i	0.96	f-i	24.4	bcd	79.5	abc	38.57	e-l	179
PHY 411 W3FE	428	45.9	abc	4.0	ab	0.97	c-i	22.7	d-h	79.3	a-e	41.56	a-h	177
PHY 545 W3FE	436	46.5	a	4	ab	0.96	f-i	23.4	b-g	78.8	c-h	39.85	b-l	174
PX 1140A383-04	392	44.0	c-h	3.6	c-i	1.01	bc	24.3	bcd	80.0	a	42.51	a-d	169
PX 1140A385-04	397	46.3	ab	3.9	a-e	0.95	hij	25.1	ab	80	ab	41.58	a-h	165
PX 1140A373-04	406	43.1	fgh	3.9	abc	0.96	f-i	24.2	bcd	77.9	ghi	40.85	b-j	165
PX 1150A450-04	393	44.6	a-h	3.6	c-i	0.97	d-i	24.2	bcd	79.2	a-f	40.21	b-k	161
DG 3519 B3XF	386	45.4	a-e	3.8	a-g	0.96	f-i	23.7	b-f	78.7	c-h	41.67	a-g	160
ST 4993 B3XF	353	44.6	a-h	4.0	ab	0.99	b-f	24.9	bc	79.4	a-d	44.7	a	157
BX 2394 B3XF	397	44.1	c-h	3.8	a-g	0.96	f-i	22.8	d-h	78.4	c-h	39.32	d-l	156
DP 1646 B2XF	352	45.9	abc	3.6	b-i	1.01	b	23.4	b-g	78.8	c-h	43.17	abc	152
BX 2392 B3XF	372	43.8	d-h	3.7	b-i	0.99	b-g	23.8	b-e	78.8	b-g	41.11	a-i	151
DP 2141NR B3XF	358	43.1	fgh	3.8	a-f	0.99	b-f	24.3	bcd	78.9	a-g	41.73	a-f	149
PHY 443 W3FE	381	44.4	b-h	3.7	b-i	0.92	j	23.4	b-g	78.1	f-i	38.11	g-l	147
PX 1150A434-04	361	44.3	b-h	3.9	a-d	0.95	hij	24.1	bcd	77.7	hi	41.53	a-h	147
DP 2127 B3XF	362	44.6	a-h	3.8	a-h	0.97	d-i	23.2	c-g	79.1	a-f	39.97	b-l	145
PHY 332 W3FE	376	43.0	gh	3.4	ij	1.00	b-e	24.1	bcd	79.1	a-f	38.16	f-l	144
PHY 400 W3FE	387	45.0	a-g	3.5	g-j	0.94	ij	23.0	d-h	78.4	c-h	36.55	l	144
DP 2012 B3XF	360	44.6	a-h	3.8	a-f	0.96	f-i	21.7	gh	78.3	d-h	39.82	b-l	143
DP 1948 B3XF	331	45.2	a-f	3.2	j	1.06	a	26.7	a	78.8	b-g	43.36	ab	143
DP 2239 B3XF	338	44.6	a-h	3.7	a-h	1.00	bcd	23.4	b-g	78.7	c-h	41.77	a-e	141
ST 4550 GLTP	357	45.5	a-d	3.5	e-j	0.97	c-i	22.7	d-h	78.5	c-h	39.37	d-l	141
PX 1150A431-04	341	44.5	a-h	3.7	a-h	0.95	g-j	24.1	bcd	78.8	c-g	40.58	b-k	138
DP 2143NR B3XF	325	43.6	d-h	4.0	a	0.98	b-h	24.0	bcd	78.3	d-h	41.37	a-h	133
BX 2396 B3XF	320	46.3	ab	4.0	a	0.98	b-h	23.8	b-e	79.0	a-g	41.47	a-h	133
ST 4595 B3XF	326	46.3	ab	4.0	ab	0.97	e-i	22.1	e-h	78.3	d-i	40.3	b-k	131

Table 27 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac) ¹	
PX 1150A435-04	318		42.6	h	3.8	a-h	0.97	d-i	24.9	bc	79.3	a-e	39.63	c-l	126	
DP 2115 B3XF	320		45.2	a-f	3.8	a-h	0.96	f-i	22.0	e-h	78.4	c-h	39.13	d-l	125	
BX 2398 B3XF	300		44.0	c-h	3.9	abc	0.98	b-h	22.6	d-h	78.2	e-i	39.95	b-l	120	
PX 1130A336-04	317		44.9	a-g	3.5	f-j	0.94	ij	23.6	b-f	79.3	a-e	37.28	jkl	119	
PX 1150A437-04	300		43.7	d-h	3.7	b-i	0.95	hij	22.6	d-h	77.1	i	38.30	e-l	116	
DG 3528 B3XF	302		45.3	a-e	3.4	ij	0.96	f-i	21.9	fgh	78.6	c-h	37.03	kl	112	
DP 2020 B3XF	265		43.4	e-h	3.4	hij	0.98	b-h	21.2	h	78.0	f-i	38.01	h-l	101	
DP 1840 B3XF	259		42.7	h	3.6	d-i	0.96	f-i	22.9	d-h	78.8	c-g	37.73	i-l	96	
Mean	358		44.7		3.8		0.98		23.5		78.7		40.20		144	
P>F	0.1068		0.0569		0.0026		0.0001		0.0034		0.0465		0.0523		0.1144	
LSD (P=.10)	97.93		2.093		0.3489		0.0343		1.802		1.139		3.5916		43.5	
STD DEV	83.43		1.783		0.2972		0.0292		1.535		0.97		3.06		37	
CV%	23.29		3.99		7.89		3		6.52		1.23		7.61		25.66	

¹ Lint values were calculated using the 2022 Upland Cotton Loan Valuation Model from Cotton Incorporated.

AMX= Americot Experimental, DP=DeltaPine, DPX = DeltaPine Experimental, DG= DynaGro, DGX= DynaGro Experimental, FM=FiberMax, NG=NexGen, PHY=PhytoGen, PX = PhytoGen Experimental, SSG= Seed Source Genetics, ST= Stoneville



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