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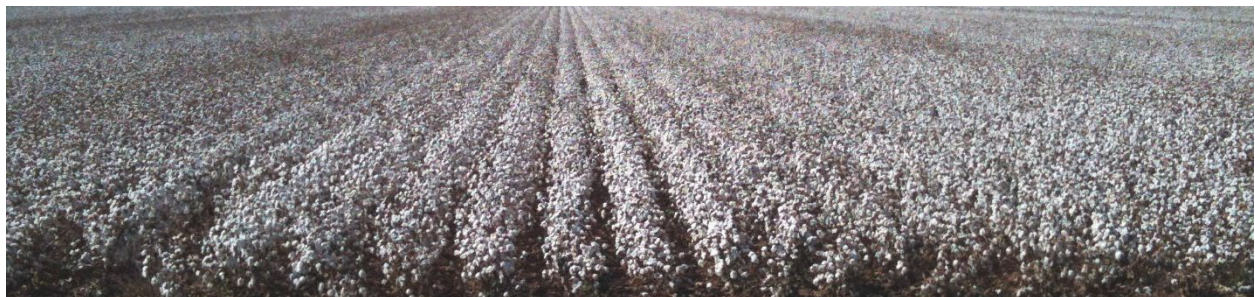
2023 REPLICATED AGRONOMIC COTTON EVALUATION (RACE) SOUTH, EAST AND CENTRAL REGIONS OF TEXAS

REPLICATED AGRONOMIC COTTON EVALUATION (RACE)

SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2023

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2023 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.

Fifteen Replicated Agronomic Cotton Evaluation (RACE) Trials and four Monster trials were harvested in 2023 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 2023 RACE Trials ranged from 1253 lbs/ac to 349 lbs/ac for Colorado County and Hildago County locations, respectively. Mean irrigated location yields ranged from 2295 lbs/ac to 839 lbs/ac for Hildago and Fort Bend County locations, respectively.

All the major cotton seed companies with GlyTol®, LibertyLink®, XtendFlex®, Enlist® or Thryvon® 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 7-9.

Table 1 also provides a list of cooperators, planting and harvest dates, row spacing and plot area for each location. Tables 2-5 show numerical rankings based upon lint yield for the varieties across all locations within a production region.

Tables 6 to 25 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, multiple Monster cotton variety trials (Tables 26-31) were conducted in 2023 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.

COTTON PRODUCTION REGIONS - TEXAS

High Plains
Rolling Plains
Central Blacklands
South Texas
Coastal Bend
Rio Grande Valley
Winter Garden
El Paso - Pecos Valley

Variety Characteristics/Highlights

Below are the cotton variety characteristics and highlights that were included in the 2023 RACE trials. <u>These cotton variety descriptions were provided by individual seed company representatives or publicly available information.</u>

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 2131 B3TXF
- Smooth leaf, mid maturity variety
- Moderate resistance to bacterial blight
- Excellent fiber quality
- Medium-tall plant type that may require aggressive 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 3519 B3XF
- Medium maturity
- Good storm tolerance
- Bacterial blight resistant
- Reniform nematode tolerance

Dyna-Gro 3528 B3XF
- Medium maturity, medium plant height
- Smooth leaf
- Bacterial blight resistant
- High yield potential

Dyna-Gro 4497 B3XF
- Early-medium-early maturity, medium plant height
- Semi-smooth leaf
- Bacterial blight susceptible
- Above average fiber quality
- Responds 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 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

Phytogen 415 W3FE
- Mid-maturity; semi-smooth leaf
- Resistant to bacterial blight and root-knot nematodes
- High-end yield potential with excellent quality
- 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

Table 1. Trial location, cooperator, planting date, harvest date, row spacing, plot dimensions and area of 2023 Texas A&M AgriLife Extension RACE Trials harvested.

County	Hidalgo	Hidalgo	Nueces	Nueces
Location (Nearest town)	Mercedes	Lyford	Bishop	Petronila
Latitude, Longitude	26.22354, -98.43517	26.35171, -97.89925	27.58862, -97.70868	27.69617, -97.54785
Cooperator	Vos Brothers	TX AgriScience	Darrell Lawhon	Jim Massey
Soil Type	Reynosa silty clay loam, 0 to 1% slopes	Raymondville clay loam, 0 to 1% slopes	Victoria Clay, 0 to 1% slopes	Victoria Clay, 0 to1% slopes
Irrigation	none	furrow	none	none
Precipitation (Estimated)	13.2"	10.8"	7.4"	7.1"
Previous Crop	corn	sorghum	sorghum	sorghum
Row Spacing (in)	32"	40	38	30"
Plot Dimensions	6 rows x 1,084 ft	2 rows x 48 ft	6 rows x 3,500 ft	6 rows x 3,000 ft
Area harvested/plot	0.40 acre	0.007 acre	1.52 acre	1.03 acre
Plant Population (/Ac)	42,000	45,000	40,000	38,000
Planting Date	3/22/23	3/31/23	3/31/23	3/24/23
Harvest Date	9/6/23	8/30/23	8/4/23	8/11/23
Yield Limiting Factor(s)	drought		drought	drought

Table 1. Continued.

County	Nueces	San Patricio	Refugio	DeWitt
Location (Nearest town)	Robstown	Edroy	Bonnie View	Yorktown
Latitude, Longitude	27.77440, -97.56226	28.07691, -97.70411	28.16263, -97.26578	28.98302, -97.62994
Cooperator	Texas A&M AgriLife Research	Robert Rieder	Richard Niemann	Tracy Metting
Soil Type	Orelia fine sandy loam, 0 to 1% slopes	Calallen sandy clay loam, 0 to 1% slopes	Victoria clay, 0 to 1% slopes	Runge fine sandy loam, 2 to 5% slopes
Irrigation	none	none	none	none
Precipitation (Estimated)	10.6"	11.1"	10.7"	19.2"
Previous Crop	sorghum	sorghum	sorghum	corn
Row Spacing (in)	38"	38"	38"	38"
Plot Dimensions	2 rows x 35 ft	6 rows x 2,445 ft	6 rows x 2,500 ft	6 rows x 1,000 ft
Area harvested/plot	0.005 acre	1.06 acre	1.09 acre	0.43 acre
Plant Population (/Ac)	62,400	45,000	45,000	38,000
Planting Date	3/27/23	3/28/23	3/11/23	4/13/23
Harvest Date	8/16/23	8/21/23	8/19/23	8/31/23
Yield Limiting Factor(s)	drought	drought	drought	drought

Table 1. Continued.

County	Calhoun	Jackson	Matagorda	Wharton
Location (Nearest town)	Port Lavaca	Palacios	Tin Top	El Campo
Latitude, Longitude	28.60901, -96.65948	28.70211 -96.32442	28.78630 -96.10603	29.20545 -96.22355
Cooperator	Danny May	Brent & Lisa Batchelder	Bill Hansen	Pflughaupt Farms
Soil Type	Laewest clay, 0 to 1% slopes	Laewest clay, 0 to 1 percent slopes	Laewest clay, 0 to 1 percent slopes	Lake Charles clay, 0 to 1 percent slopes
Irrigation	none	none	none	none
Precipitation (Estimated)	13"	16.8"	15.7	12.8"
Previous Crop	sorghum	corn	sorghum	corn
Row Spacing (in)	38"	40"	40	40
Plot Dimensions	2 rows x 30 ft	6 rows x 2200 ft	6 rows x 1350 ft	6 rows x 1500 ft
Area harvested/plot	0.004 acre	1 acre	0.62 acre	0.7 acre
Plant Population (/Ac)	55,000	42,000	42,000	35,000
Planting Date	3/27/23	3/29/23	3/27/23	3/23/23
Harvest Date	8/10/23	8/27/23	8/17/23	8/16/23
Yield Limiting Factor(s)	drought	drought	drought	drought

Table 1. Continued.

County	Fort Bend	Colorado	Burleson	Falls
Location (Nearest town)	Beasley	Eagle Lake	Snook	Rosebud
Latitude, Longitude	29.48905 -95.99697	29.44918 -96.34557	30.5361 -96.42142	31.12166 -96.81177
Cooperator	Alan & Lisa Stasney	Mahalitc Farms	AgriLife Research Farm	Rodney Stepehens
Soil Type	Lake Charles clay and Bernard clay loam, 0 to 1 percent slopes	Norwood silty clay loam, 0 to 1 percent slopes, occasionally flooded	Belk clay, 0 to 1 percent slopes, rarely flooded	Highbank silty clay loam, rarely flooded
Irrigation	furrow	none	furrow	pivot
Precipitation (Estimated)	13.6"	17.4"	11.9"	13.6"
Previous Crop	corn	cotton	corn	corn
Row Spacing (in)	36	36	40	36"
Plot Dimensions	6 rows x 1660 ft	6 row x 2970 ft	2 rows x 16 ft	6 rows x 530 ft
Area harvested/plot	0.76 acre	1.2 acre	0.024 acre	0.25 acre
Plant Population (/Ac)	33,700	31,770	36,190	42,000
Planting Date	4/18/23	3/30/23	4/18/23	4/14/23
Harvest Date	9/11/23	8/29/23	9128/23	10/3/23
Yield Limiting Factor(s)	drought	drought	high temps	drought

Table 1. Continued.

County	Williamson	Milam	Navarro	Delta
Location (Nearest town)	Hutto	Buckholts	Corsicana	
Latitude, Longitude	30.58934 -97.56958	30.7091 -97.14939	32.05992 -96.60804	
Cooperator	Kruger Farms	Justin 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)	3.5"	6.7"	12.7"	
Previous Crop	corn	corn	corn	
Row Spacing (in)	38	30	30	
Plot Dimensions	6 rows x 1050 ft	8 rows x 325 ft	12 rows x 175 ft	
Area harvested/plot	0.46 acre	0.11 acre	0.12 acre	
Plant Population (/Ac)	35,270	47,000	42,000	
Planting Date	5/5/23	5/8/23	4/17/23	
Harvest Date	9/22/23	10/3/23	9/8/23	
Yield Limiting Factor(s)	drought	drought	drought	

Table 1. Continued.

County	LRGV Monster	Corpus Christi Monster	Mid-Coast Monster	Upper Coast Monster
Location (Nearest town)	Lyford	Robstown	Port Lavaca	El Maton
Latitude, Longitude	26.35169, -97.89839	27.78254, -97.56135	28.60901, -96.65948	28.85728, -96.13915
Cooperator	TX AgriScience	AgriLife Research	Danny May	Dean Hansen
Soil Type	Raymondville clay loam, 0 to 1% slopes	Victoria clay, 0 to 1% slopes	Laewest clay, 0 to 1 percent slopes	Laewest clay, 0 to 1% slopes
Irrigation	prewatered only	none	none	none
Precipitation (Estimated)	10.8”	10.6”	13”	14”
Previous Crop	sorghum	corn	sorghum	corn
Row Spacing (in)	40”	38”	38”	38”
Plot Dimensions	2 rows x 48 ft	2 row x 34 ft	2 row x 30 ft	2 rows x 37 ft
Area harvested/plot	0.007 acre	0.005 acre	0.004 acre	0.005 acre
Plant Population (/Ac)	45,000	62,400	55,000	52,000
Planting Date	3/31/23	3/22/23	3/27/23	4/13/23
Harvest Date	8/30/23	8/15/23	8/10/23	8/29/23
Yield Limiting Factor(s)	drought	drought	drought	drought

Table 1. Continued.

County	Stiles Farm Monster	Bell County Monster
Location (Nearest town)	Thrall	Temple
Latitude, Longitude	30.59759 -97. 30671	31.05766 -97.35808
Cooperator	Ryan Collett	Chad Hajda
Soil Type	Burleson clay, 0 to 1 percent slopes	Houston Black clay, 1 to 3 percent slopes
Irrigation	none	none
Precipitation (Estimated)	5.3"	7.2"
Previous Crop	corn	corn
Row Spacing (in)	30"	30"
Plot Dimensions	1 row x 40 ft	2 rows x 160 ft
Area harvested/plot	.003 acre	0.018 acre
Plant Population (/Ac)	52,000	47,000
Planting Date	4/13/23	4/17/23
Harvest Date	8/27/23	9/6/23
Yield Limiting Factor(s)	drought	drought

Table 2. Variety rankings based on lint value, Lower Rio Grande Valley, 2023.

Location	Hidalgo (Vos Bros.)	Hidalgo (Texas AgriScience)	Mean Ranking
Mean Yield (lbs/acre)	536	2295	
Variety			
ST 4990 B3XF	1	4	2.5
NG 4190 B3XF	7	2	4.5
DG 3528 B3XF	5	5	5
DP 2012 B3XF	3	7	5
PHY 400 W3FE	4	6	5
PHY 415 W3FE	9	1	5
DP 2239 B3XF	2	9	5.5
DG 3519 B3XF	10	3	6.5
DP 2131 B3TXF	6	10	8
PHY 332 W3FE	8	8	8

Table 3. Variety rankings based on lint value, Coastal Bend, 2023.

Location	Nueces (Lawhon)	Nueces (CCAREC)	San Patricio	DeWitt	
Mean Yield (lbs/acre)	470	675	349	542	Mean Ranking
Variety					
PHY 332 W3FE	4	3	3	2	3
DP 2012 B3XF	1	4	5	4	3.5
PHY 415 W3FE	2	9	2	1	3.5
PHY 400 W3FE	3	8	1	3	3.75
NG 4190 B3XF	5	1	6	5	4.25
FM 2498 GLT	6	2	9	9	6.5
DG 3519 B3XF	7	5	7	8	6.75
DG 3528 B3XF	9	6	8	7	7.5
DP 2239 B3XF	8	7	10	6	7.75

Table 4. Variety ranking based on lint value, Upper Gulf Coast Counties, 2023.

Location	Jackson	Matagorda	Wharton	Fort Bend	Colorado	Calhoun	Mean Rank
Mean Yield (lbs/A)	588	1100	803	839	1253	803	
Variety							
PHY 415 W3FE	2	4	3	4	2	1	2.7
PHY 400 W3FE	1	3	5	3	3	4	3.2
ST 4595 B3XF	3	2	6	6	1	3	3.5
NG 4190 B3XF	4	1	9	1	4	6	4.2
DP 2239 B3XF	6	8	1	7	8	5	5.8
DP 2012 B3XF	7	5	8	2	9	7	6.3
DP 2131 B3TXF	9	6	4	5	5	9	6.3
DG 3519 B3XF	5	9	7	9	6	2	6.3
DG 3528 B3XF	8	7	2	8	7	8	6.7

Table 5. Mean location lint yield and variety ranking based on lint value, Non-irrigated Cen-Tex trials 2023.

Location	Williamson	Milam	Navarro	Mean
Mean Yield (lbs/A)	469	399	819	
Variety				
NG 4190 B3XF	1	3	3	2.3
PHY 415 W3FE	3	4	1	2.7
DG 3519B3XF	4	5	2	3.7
PHY 400 W3FE	7	1	8	5.3
DP 2012 B3XF	9	2	5	5.3
DP 2131 B3TXF	6	7	4	5.7
DP 2239 B3XF	2	8	7	5.7
DG 4497 B3TXF	8	6	6	6.7
DG 3528B3XF	5	9	9	7.7

Table 6. Hidalgo County RACE Trial, 2023
Cooperator: Vos Brothers
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]	
ST 4990 B3XF	839	a	37.9	de	4.3	a	1.17	ab	28.9	e	83.3		53.18		446	a
DP 2239 B3XF	627	b	41.1	ab	3.9	bc	1.18	a	29.7	cde	82.7		53.30		334	b
DP 2012 B3XF	577	bc	38.1	de	4.0	abc	1.15	bc	29.6	de	82.1		53.13		306	bc
PHY 400 W3FE	561	bc	41.1	ab	4.2	ab	1.12	d	32.0	ab	83.1		52.97		297	bc
DG 3528 B3XF	547	bc	39.9	bc	4.3	a	1.16	b	31.3	abc	83.3		53.15		291	bc
DP 2131 B3TXF	529	bcd	40.1	abc	3.8	c	1.17	ab	30.4	b-e	82.5		51.18		274	bcd
NG 4190 B3XF	468	cd	41.7	a	4.0	abc	1.13	cd	29.4	de	82.5		53.07		249	cde
PHY 332 W3FE	472	cd	37.5	e	3.3	d	1.19	a	32.9	a	83.4		49.63		237	cde
PHY 415 W3FE	409	de	39.3	cd	3.8	bc	1.11	d	31.0	bcd	82.4		52.65		215	de
DG 3519 B3XF	333	e	39.4	cd	3.9	bc	1.13	d	29.7	cde	82.5		53.10		177	e
Mean	**536**		**39.6**		**4.0**		**1.15**		**30.5**		**82.8**		**52.54**		**283**	
P>F	0.0003		0.0025		0.0094		0.0001		0.0092		0.6614		0.1324		0.0004	
LSD (P=.10)	128.8		1.63		0.38		0.02		1.63		NS		NS		71.9	
STD DEV	156.84		1.67		0.37		0.03		1.56		0.87		1.75		85.85	
CV%	29.25		4.22		9.46		2.63		5.13		1.05		3.32		30.38	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 7. Hidalgo County RACE Trial, 2023
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 415 W3FE	2505	a	42.6	ab	4.9	ab	1.20	bc	35.5	a	85.6	52.75	1322
NG 4190 B3XF	2460	a	41.6	bcd	5.0	ab	1.19	c	32.0	d	85.7	53.21	1311
DG 3519 B3XF	2376	ab	40.9	cd	4.8	b-e	1.21	bc	33.7	bc	85.9	53.94	1280
ST 4990 B3XF	2366	ab	40.5	d	4.8	abc	1.19	c	32.1	d	85.4	53.24	1260
DG 3528 B3XF	2284	abc	42.7	ab	4.5	e	1.20	bc	32.7	cd	86.1	54.46	1244
PHY 400 W3FE	2371	ab	42.5	ab	5.1	a	1.21	bc	35.3	a	85.8	52.35	1241
DP 2012 B3XF	2166	bc	41.3	cd	4.8	a-d	1.20	bc	32.3	d	85.0	54.41	1179
PHY 332 W3FE	2160	bc	40.8	cd	4.5	de	1.22	b	34.8	ab	85.5	53.99	1166
DP 2239 B3XF	2165	bc	43.1	a	4.8	abc	1.26	a	32.0	d	85.1	53.75	1162
DP 2131 B3TXF	2097	c	41.8	bc	4.6	cde	1.24	a	32.9	cd	85.6	54.49	1142
Mean	2295		41.8		4.8		1.21		33.3		85.6	53.66	1231
P>F	0.0576		0.0059		0.0363		0.0002		<0.0001		0.1831	0.1396	0.1855
LSD (P=.10)	230.89		1.167		0.294		0.024		1.319		NS	NS	NS
STD DEV	240.98		1.23		0.28		0.03		1.66		0.57	1.22	126.06
CV%	10.50		2.95		5.81		2.36		4.97		0.67	2.28	10.24

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 8. Nueces County RACE Trial, 2023
Cooperator: Darrell Lawhon
Jaime Lopez, 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]	
DP 2012 B3XF	530	a	41.8	4.5	cde	1.10	ab	29.9	cd	82.8	53.07	281	a
PHY 415 W3FE	514	ab	43.5	4.5	cde	1.10	ab	33.0	ab	83.1	53.35	274	a
PHY 400 W3FE	508	ab	42.0	4.3	e	1.07	bc	33.0	ab	82.6	52.03	265	ab
PHY 332 W3FE	487	bc	42.3	4.4	de	1.11	ab	32.9	ab	82.6	53.35	260	ab
NG 4190 B3XF	466	c	44.3	4.5	b-e	1.09	ab	29.6	cd	82.8	52.98	247	bc
FM 2498 GLT	494	abc	42.9	5.0	a	1.04	c	29.0	d	81.7	49.13	243	bc
DG 3519 B3XF	422	d	43.2	4.7	a-d	1.11	ab	33.9	a	83.8	52.82	223	cd
DP 2239 B3XF	409	d	45.2	4.8	abc	1.12	a	31.0	c	82.8	53.07	217	d
DG 3528 B3XF	401	d	42.6	4.9	ab	1.08	ab	31.3	bc	82.9	51.95	208	d
Mean	**470**		**43.1**	**4.6**		**1.09**		**31.5**		**82.8**	**52.42**	**246**	
P>F	0.0001		0.2516	0.0533		0.056		0.0016		0.309	0.1212	0.0007	
LSD (P=.10)	40.5		NS	0.35		0.036		1.83		NS	NS	25.0	
STD DEV	51.77		1.69	0.29		0.03		2.00		0.87	1.83	28.71	
CV%	11.01		3.93	6.33		2.75		6.36		1.05	3.50	11.65	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 9. Nueces County RACE Trial, 2023
Cooperator: Jim Massey
Jaime Lopez, 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]	
DP 2012 B3XF	841	a	44.4		4.7	c	1.06	cd	27.4	d	81.0	c	52.00		437	a
DP 1646 B2XF	775	a	45.0		4.9	b	1.11	a	30.7	ab	81.6	bc	52.67		408	ab
FM 2498 GLT	841	a	43.1		5.0	b	1.04	d	27.9	d	81.1	c	48.30		407	ab
NG 4190 B3XF	781	a	44.7		5.0	b	1.09	ab	29.4	c	83.0	a	51.10		399	ab
DP 2239 B3XF	766	a	43.9		5.2	a	1.10	a	29.8	bc	82.1	abc	49.75		381	b
DG 3528 B3XF	757	a	44.9		5.0	ab	1.08	bc	29.3	c	83.1	a	49.95		378	b
DG 3519 B3XF	630	b	41.4		4.9	b	1.10	ab	31.7	a	82.9	a	51.63		326	c
Mean	**770**		**43.9**		**5.0**		**1.09**		**29.5**		**82.1**		**50.77**		**391**	
P>F	0.0155		0.8037		0.0031		0.0046		0.0004		0.071		0.1103		0.0541	
LSD (P=.10)	86.1		NS		0.17		0.026		1.18		1.42		NS		51.4	
STD DEV	82.71		2.88		0.19		0.00		1.58		1.16		1.98		43.72	
CV%	10.74		6.57		3.86		0.26		5.36		1.41		3.90		11.18	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 10. Nueces County RACE Trial, 2023
Cooperator: Texas A&M AgriLife Research
Jaime Lopez, 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]	
NG 4190 B3XF	775	ab	44.0	ab	4.6	bc	1.08	a	29.9	de	83.2		51.85	a	402	a
FM 2498 GLT	838	a	43.9	b	5.0	a	1.03	c	27.4	f	81.5		47.88	b	401	a
PHY 332 W3FE	722	abc	42.4	c	4.1	f	1.08	a	31.4	abc	82.9		52.74	a	381	ab
DP 2012 B3XF	722	abc	41.5	d	4.2	ef	1.07	ab	28.8	ef	82.7		52.34	a	378	ab
DG 3519 B3XF	649	bcd	42.4	c	4.2	ef	1.07	a	31.6	ab	82.7		51.35	a	335	abc
DG 3528 B3XF	618	cd	42.6	c	4.5	cd	1.08	a	30.6	bcd	83.3		52.60	a	325	bc
DP 2239 B3XF	598	cd	44.8	a	4.7	b	1.09	a	30.0	cde	82.4		52.13	a	313	bc
PHY 400 W3FE	579	cd	44.4	ab	4.3	de	1.05	c	31.4	abc	81.8		51.46	a	300	c
PHY 415 W3FE	578	d	42.9	c	4.1	f	1.05	bc	32.3	a	82.6		50.89	a	293	c
Mean	**675**		**43.2**		**4.4**		**1.07**		**30.4**		**82.6**		**51.47**		**347**	
P>F	0.0432		<0.0001		<0.0001		0.0035		0.0001		0.1119		0.0085		0.0924	
LSD (P=.10)	144.4		0.845		0.19		0.023		1.43		NS		1.921		74.3	
STD DEV	143.53		1.28		0.43		0.03		1.81		0.98		2.19		73.76	
CV%	21.25		2.96		9.70		2.76		5.95		1.19		4.25		21.23	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 11. San Patricio County RACE Trial, 2023
Cooperator: Robert Rieder
Bobby McCool, San Patricio 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	407	a	42.6		4.6	c	1.10	bc	32.6	ab	82.5	ab	53.42	ab	218	a
PHY 415 W3FE	403	ab	41.4		4.5	cd	1.11	b	34.1	a	83.3	a	53.42	ab	215	a
PHY 332 W3FE	379	bc	40.5		4.4	d	1.12	ab	32.6	ab	82.9	a	53.92	a	204	ab
DP 2020 B3XF	385	abc	40.7		4.4	d	1.10	bc	28.8	def	81.9	bc	52.90	abc	204	ab
DP 2012 B3XF	375	cd	40.8		4.4	d	1.08	c	28.3	ef	81.2	c	52.72	bc	198	b
NG 4190 B3XF	348	de	42.9		4.8	b	1.10	bc	27.7	f	82.5	ab	52.12	c	182	c
DG 3519 B3XF	321	ef	40.3		4.5	cd	1.11	b	31.4	bc	82.7	ab	53.53	ab	172	c
DG 3528 B3XF	293	g	41.1		4.8	b	1.10	bc	29.9	cde	82.9	a	53.07	abc	156	d
FM 2498 GLT	300	fg	41.5		5.2	a	1.11	bc	30.3	cd	82.7	ab	50.68	d	152	d
DP 2239 B3XF	274	g	42.0		4.5	cd	1.14	a	29.2	def	81.5	c	53.72	ab	147	d
Mean	**349**		**41.4**		**4.6**		**1.11**		**30.5**		**82.4**		**52.95**		**185**	
P>F	<0.0001		0.4176		<0.0001		0.0599		<0.0001		0.0272		0.0037		<0.0001	
LSD (P=.10)	27.4		NS		0.20		0.024		1.63		0.95		1.117		14.2	
STD DEV	51.24		1.42		0.28		0.02		2.27		0.86		1.14		28.30	
CV%	14.69		3.44		6.13		1.86		7.44		1.04		2.16		15.31	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 12. Refugio County RACE Trial, 2023
Cooperator: Richard Niemann
Bobby McCool, San Patricio 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]	
NG 4190 B3XF	1067	a	43.1	a	4.9	a	1.13	bc	30.1	c	83.5	a	52.10		556	a
DP 2020 B3XF	954	b	39.8	de	4.6	b	1.12	bc	29.9	c	83.4	a	52.90		505	b
DP 2239 B3XF	956	b	43.0	ab	4.9	a	1.17	a	31.8	ab	83.6	a	52.35		500	b
DP 2012 B3XF	941	b	39.2	e	4.6	b	1.10	c	30.2	c	82.3	b	52.27		492	b
DG 3528 B3XF	876	c	40.8	cd	4.8	a	1.12	bc	30.7	bc	83.3	a	52.90		463	c
DG 3519 B3XF	849	c	41.6	bc	4.8	a	1.13	b	32.9	a	83.8	a	52.65		447	c
Mean	**940**		**41.3**		**4.8**		**1.13**		**30.9**		**83.3**		**52.53**		**494**	
P>F	<0.0001		0.0021		0.002		0.0146		0.0299		0.0867		0.8529		0.0006	
LSD (P=.10)	44.7		1.44		0.13		0.027		1.52		0.81		NS		28.2	
STD DEV	76.07		1.72		0.15		0.03		1.37		0.72		0.80		38.60	
CV%	8.09		4.17		3.25		2.33		4.42		0.87		1.53		7.82	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 13. DeWitt County RACE Trial, 2023
Cooperator: Tracy Metting
Anthony Netardus, DeWitt 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 415 W3FE	605	a	46.2		4.8	ab	1.09	bc	30.1	a	82.2		52.07		315	a
PHY 332 W3FE	559	abc	47.9		4.3	cd	1.11	a	30.0	a	82.3		53.72		300	ab
PHY 400 W3FE	575	ab	44.6		4.6	bc	1.06	de	29.7	a	80.3		51.30		295	abc
DP 2012 B3XF	571	ab	45.2		4.2	d	1.07	cd	26.0	b	81.5		50.72		290	abc
NG 4190 B3XF	558	abc	45.9		4.5	bcd	1.08	c	26.3	b	82.3		50.82		284	bc
DP 2239 B3XF	528	bc	47.1		4.5	bc	1.11	ab	27.0	b	81.7		51.18		271	bc
DG 3528 B3XF	535	bc	48.2		4.5	bcd	1.09	bc	27.2	b	81.0		50.65		270	c
DG 3519 B3XF	509	c	45.7		4.7	ab	1.08	cd	29.3	a	82.1		52.52		267	c
FM 2498 GLT	435	d	42.8		5.1	a	1.05	e	27.3	b	81.4		49.60		216	d
Mean	**542**		**45.9**		**4.6**		**1.08**		**28.1**		**81.6**		**51.40**		**279**	
P>F	0.0062		0.5679		0.0145		0.0049		0.0022		0.1286		0.5754		0.0022	
LSD (P=.10)	58.38		NS		0.332		0.023		1.768		NS		NS		30.15	
STD DEV	69.66		3.25		0.33		0.03		1.96		1.00		2.37		38.87	
CV%	12.86		7.08		7.11		2.31		6.99		1.23		4.61		13.96	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 14. Calhoun County RACE Trial, 2023
Cooperator: Danny May
Stephen Biles - Victoria, Calhoun, and Refugio County IPM Agent, Port Lavaca
Hailey Hayes – Calhoun 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	Yield (lbs/acre)	Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)	Lint Value ($/Ac)[1]
PHY 415 W3FE	843	44.7	cd	4.9	cde	1.06	bcd	32.0	a	82.7	a	50.85	429
DG 3519 B3XF	827	44.8	bcd	4.9	cd	1.06	bcd	29.4	b	82.8	a	49.43	409
ST 4595 B3XF	857	47.8	a	5.4	a	1.05	b-e	27.3	cd	82.2	ab	47.58	408
PHY 400 W3FE	847	43.3	de	4.8	cde	1.02	e	28.4	bcd	80.9	c	47.80	405
PHY 332 W3FE	823	45.0	bc	5.0	cd	1.04	cde	28.7	bc	81.5	bc	48.87	402
DP 2239 B3XF	804	46.9	a	5.3	ab	1.10	a	29.7	b	82.7	a	49.62	399
NG 4190 B3XF	846	46.4	ab	5.1	bc	1.06	bcd	26.9	d	82.4	ab	47.18	398
DP 2012 B3XF	740	43.0	e	4.7	de	1.07	bc	28.4	bcd	82.6	a	51.20	379
DG 3528 B3XF	761	46.2	abc	5.1	bc	1.03	de	28.2	bcd	81.1	c	47.52	363
DP 2131 B3TXF	705	46.2	abc	4.7	e	1.07	ab	27.7	cd	82.1	ab	51.37	362
Mean	**805**	**45.4**		**5.0**		**1.06**		**28.7**		**82.1**		**49.14**	**395**
P>F	0.1241	0.001		0.0033		0.0133		0.0018		0.0241		0.1766	0.5898
LSD (P=.10)	NS	1.605		0.272		0.031		1.586		0.99793		NS	NS
STD DEV	77.92	1.74		0.27		0.03		1.65		0.88		2.32	40.59
CV%	9.68	3.83		5.46		2.80		5.77		1.08		4.72	10.26

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 15. Jackson County RACE Trial, 2023
Cooperator: Brent & Lisa 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]
PHY 400 W3FE	624	a	46.4	5.1	bc	1.04	bcd	28.7	ab	81.4	48.40	302
PHY 415 W3FE	630	a	48.0	5.1	bc	1.05	bcd	29.5	a	82.6	47.62	300
ST 4595 B3XF	626	a	46.9	5.6	a	1.06	bc	27.2	cd	82.2	47.08	296
NG 4190 B3XF	638	a	46.7	5.3	b	1.07	ab	26.1	d	83.4	44.58	282
PHY 332 W3FE	561	c	45.2	4.9	c	1.06	abc	29.0	a	82.4	50.23	281
DG 3519 B3XF	608	a	48.4	5.2	b	1.02	d	28.7	ab	82.4	45.72	278
DP 2239 B3XF	548	d	45.9	5.2	b	1.09	a	26.9	d	82.3	49.70	273
DP 2012 B3XF	566	c	43.2	5.1	bc	1.03	cd	26.0	d	82.1	46.43	264
DG 3528 B3XF	578	b	44.1	5.2	b	1.04	bcd	26.6	d	82.3	45.32	262
DP 2131 B3TXF	505	e	46.2	5.2	b	1.09	a	27.4	bc	82.3	50.13	253
Mean	**588**		**46.1**	**5.2**		**1.05**		**27.6**		**82.3**	**47.52**	**279**
P>F	0.0072		0.2	0.0		0.01		0.0		0.4	0.16	0.14
LSD (P=.10)	54.72		3.3	0.2		0.03		1.5		1.2	3.85	30.40
STD DEV	38.65		2.3	0.1		0.02		1.0		0.8	2.72	21.50
CV%	6.57		5.1	2.8		2.08		3.8		1.0	5.73	7.69

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 16. Matagorda County RACE Trial, 2023
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]	
NG 4190 B3XF	1292	a	46.9	5.5	b	1.12	29.0	cd	84.4	49.47	639	a
ST 4595 B3XF	1155	b	47.2	5.8	a	1.11	30.1	bc	83.1	49.48	571	b
PHY 400 W3FE	1131	b	46.6	5.4	b-e	1.09	31.2	ab	83.2	49.82	564	b
PHY 415 W3FE	1129	b	47.7	5.4	bc	1.11	32.8	a	83.6	49.83	563	b
DP 2012 B3XF	1125	b	45.3	5.3	de	1.11	28.3	d	83.1	49.92	562	b
DP 2131 B3TXF	1052	b	46.9	5.3	e	1.15	29.6	cd	83.9	50.48	531	b
DG 3528 B3XF	1048	b	44.1	5.3	cde	1.13	30.0	bc	82.8	50.47	529	b
PHY 332 W3FE	1050	b	44.7	5.5	b	1.13	32.1	ab	83.8	50.20	527	b
DP 2239 B3XF	1050	b	46.8	5.4	b-e	1.15	31.0	ab	83.5	49.80	523	bc
DG 3519 B3XF	963	c	42.0	5.4	bcd	1.09	29.4	cd	83.3	48.78	470	c
Mean	**1100**		**45.8**	**5.4**		**1.12**	**30.3**		**83.5**	**49.83**	**548**	
P>F	0.009		0.4	0.0		0.36	0.1		0.1	0.13	0.0099	
LSD (P=.10)	113.55		4.1	0.1		0.04	2.3		0.8	0.92	56.7	
STD DEV	80.2		2.9	0.1		0.03	1.6		0.6	0.65	40	
CV%	7.29		7.29	6.38		1.92	2.8		5.3	0.72	7.31	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 17. Wharton County RACE Trial - 2023
Cooperator: Pflughaupt Farms
Corrie Bowen, County Extension Agent, Sarah Marsh, 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]
DP 2239 B3XF	883	46.9	4.7	1.13	28.8	83.7	53.73	475
DG 3528 B3XF	861	45.6	4.5	1.13	28.8	83.3	52.70	453
PHY 415 W3FE	835	44.4	4.7	1.13	29.9	83.1	53.80	449
DP 2131 B3TXF	828	43.1	4.5	1.10	27.8	83.2	52.97	438
PHY 400 W3FE	790	43.6	4.4	1.12	29.6	82.8	53.68	424
ST 4595 B3XF	779	43.8	4.7	1.14	30.8	83.5	53.12	414
DG 3519 B3XF	773	46.7	4.8	1.14	30.6	82.9	53.20	412
DP 2012 B3XF	761	43.8	4.7	1.13	29.7	82.9	53.83	410
PHY 332 W3FE	786	42.4	4.5	1.10	29.1	82.9	51.00	400
NG 4190 B3XF	730	45.5	4.8	1.14	30.3	83.7	53.17	388
Mean	803	44.6	4.6	1.13	29.5	83.2	53.12	426
P>F	0.1566	0.5206	0.6161	0.1351	0.7636	0.7415	0.4937	0.1156
LSD (P=.10)	89.31	3.877	0.3865	0.0288	2.891	1.083	2.0929	47.7
STD DEV	63.08	2.738	0.273	0.0203	2.042	0.765	1.4782	33.7
CV%	7.86	6.14	5.89	1.8	6.91	0.92	2.78	7.91

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 18. Fort Bent County RACE Trial, 2023
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]	
NG 4190 B3XF	955	a	43.5	c	4.6	b	1.12	d	26.8	c	82.7		53.32	ab	509	a
PHY 411 W3FE	952	a	47.2	a	4.9	a	1.10	e	30.5	b	83.2		52.48	b	500	a
DP 2012 B3XF	907	a	42.0	d	4.6	b	1.14	cd	27.1	c	82.8		53.70	a	487	ab
PHY 400 W3FE	893	a	44.9	b	4.6	bc	1.15	bcd	30.8	b	84.1		54.08	a	483	ab
PHY 415 W3FE	829	c	43.6	c	4.4	bc	1.18	a	32.4	a	84.5		54.37	a	451	bc
DP 2131 B3TXF	814	d	41.9	d	4.4	bcd	1.17	ab	27.9	c	81.8		53.78	a	438	cd
ST 4595 B3XF	844	b	44.9	b	5.1	a	1.09	e	30.1	b	83.2		50.40	c	425	cde
DP 2239 B3XF	747	ef	44.9	b	4.6	bc	1.17	ab	27.9	c	82.5		53.80	a	402	def
DG 3528 B3XF	740	f	41.4	d	4.2	d	1.15	bc	29.9	b	83.0		54.00	a	399	ef
DG 3519 B3XF	708	f	41.3	d	4.3	cd	1.18	a	30.4	b	83.9		54.18	a	383	f
Mean	**839**		**43.6**		**4.6**		**1.14**		**29.4**		**83.2**		**53.41**		**448**	
P>F	0.0001		0.0001		0.0005		0.0001		0.0001		.127		.0002		0.0001	
LSD (P=.10)	69.58		1.2		0.3		0.03		1.6		1.4		1.09		36.6	
STD DEV	49.14		0.8		0.2		0.02		1.1		1.0		0.77		25.9	
CV%	5.86		1.9		4.1		1.61		3.9		1.2		1.44		5.78	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 19. Colorado County RACE Trial, 2023
Cooperator: Mahalitc 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	1525	a	44.9	a	4.3	a	1.11	e	29.7	bc	83.6	abc	53.45	a	816	a
ST 4595 B3XF	1374	b	43.1	b	4.1	ab	1.19	abc	28.9	cd	83.5	abc	54.02	a	742	b
PHY 415 W3FE	1330	b	40.7	cd	3.9	bc	1.21	a	31.5	a	84.6	a	54.40	a	724	b
PHY 400 W3FE	1328	b	41.7	c	3.8	c	1.21	ab	30.9	ab	83.9	a	54.33	a	721	b
NG 4190 B3XF	1314	b	41.5	cd	3.9	bc	1.18	cd	27.9	de	82.4	c	53.93	a	708	b
DP 2131 B3TXF	1169	c	41.4	cd	3.8	c	1.18	bcd	29.1	cd	82.4	c	53.97	a	631	c
DG 3519 B3XF	1121	c	40.9	cd	3.8	c	1.22	a	30.7	ab	84.6	a	54.30	a	609	cd
DG 3528 B3XF	1121	c	40.4	cd	3.8	c	1.20	abc	27.5	de	83.7	ab	54.07	a	606	cd
DP 2239 B3XF	1108	c	43.7	ab	4.0	b	1.20	abc	28.9	cd	82.5	bc	54.07	a	599	cd
DP 2012 B3XF	1142	c	40.3	d	3.5	d	1.15	d	27.0	e	82.4	c	50.53	b	578	d
Mean	**1253**		**41.9**		**3.9**		**1.19**		**29.2**		**83.4**		**53.71**		**673**	
P>F	0.0001		0.0001		0.0006		0.0002		0.0013		0.0326		0.003		0.0001	
LSD (P=.10)	89.64		1.322		0.2117		0.0286		1.604		1.299		1.3147		45.9	
STD DEV	63.31		0.934		0.1495		0.0202		1.133		0.917		0.9286		32.4	
CV%	5.05		2.23		3.83		1.7		3.88		1.1		1.73		5	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 20. Burleson County RACE Trial, 2023[1]
Texas A&M AgriLife Research and Extension Center, Snook, Texas
Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station
David Groschke, Chadd Caperton, John Grange - Texas A&M AgriLife Extension,
Franklin, Bryan, and Caldwell, respectively

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[2]	
PHY 415 W3FE	2213	a	42.3		4.0	bcd	1.24	abc	33.5	a	85.0		53.35		1180	a
DP 2012 B3XF	1931	b	40.8		4.0	bcd	1.22	bc	28.5	d	83.4		54.06		1044	b
NG 4190 B3XF	1912	b	42.9		3.9	cd	1.20	cd	30.2	bc	83.6		54.24		1037	b
DG 3519 B3XF	1858	b	42.1		4.0	bcd	1.25	a	31.5	b	84.1		54.36		1010	b
PHY 400 W3FE	1839	b	42.8		3.8	d	1.21	bc	30.1	bc	83.6		54.16		996	b
DP 2131 B3TXF	1751	bc	42.6		4.1	abc	1.25	a	30.1	bcd	83.9		54.2		951	b
ST 4990 B3XF	1736	bc	41.7		4.4	a	1.21	bc	29.4	cd	83.6		54.09		939	b
DP 2239 B3XF	1703	bc	42.5		4.2	ab	1.24	ab	29.2	cd	83.9		54.11		922	b
DG 4497 B3TXF	1576	cd	44.6		4.0	bcd	1.17	d	29.6	cd	83.5		54.04		852	c
DG 3528 B3XF	1401	d	41.9		3.8	cd	1.21	bc	28.8	cd	83.2		54.03		757	d
Mean	**1795**		**42.4**		**4**		**1.22**		**30.1**		**83.7**		**54.06**		**970**	
P>F	0.0004		0.7227		0.0723		0.0216		0.0006		0.2463		0.8856		0.0009	
LSD (P=.10)	229.5		2.89		0.31		0.037		1.58		1.08		0.959		127.9	
STD DEV	190.3		2.4		0.26		0.031		1.31		0.9		0.796		106	
CV%	10.6		5.65		6.38		2.53		4.36		1.07		1.47		10.92	

[1] Indicates the location was irrigated
[2] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 21. Falls County RACE Trial, 2023
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]	
DP 2131 B3TXF	2225	a	45.0	4.0	1.24	ab	28.6	82.8	54.03	1202	a
NG 4190 B3XF	2217	a	45.7	4.3	1.18	cd	28.5	83.8	53.93	1196	a
DP 2012 B3XF	2087	a	44.0	4.2	1.24	ab	29.0	83.4	54.08	1129	ab
DP 2239 B3XF	2086	a	44.9	4.1	1.26	a	29.0	82.7	54.02	1127	ab
DG 3528 B3XF	2074	a	46.9	4.3	1.20	bc	28.9	83.6	53.88	1117	ab
ST 4990 B3XF	2014	a	42.0	4.0	1.21	bc	28.4	83.3	54.10	1090	ab
DG 3519 B3XF	1906	b	44.1	4.0	1.26	a	31.6	85.0	54.42	1037	b
DG 4497 B3XTF	1688	c	47.1	4.1	1.14	d	27.5	82.3	52.05	883	c
Mean	**2037**		**45.0**	**4.1**	**1.22**		**28.9**	**83.4**	**53.82**	**1098**	
P>F	0.0518		0.1684	0.128	0.0059		0.1008	0.1263	0.3279	0.0342	
LSD (P=.10)	263		3.06	0.24	0.049		1.96	1.43	1.609	143.9	
STD DEV	182.9		2.13	0.17	0.034		1.36	1	1.119	100.1	
CV%	8.98		4.74	4.01	2.79		4.71	1.2	2.08	9.12	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
 DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 22. Williamson County RACE Trial, 2023
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]	
NG 4190 B3XF	519	a	46.4	abc	4.4	ab	1.01	cde	22.6	cd	81.0	ab	42.37	b	220	a
DP 2239 B3XF	486	abc	46.9	abc	4.5	a	1.04	b	23.3	bc	80.7	abc	44.78	a	217	ab
PHY 415 W3FE	512	ab	47.3	ab	4.4	abc	0.99	de	22.6	cd	80.0	cd	40.72	bc	209	abc
DG 3519 B3XF	451	cde	42.5	de	4.3	bc	1.03	bc	25.5	a	81.3	a	45.48	a	205	abc
DG 3528 B3XF	473	a-d	44.0	b-e	4.2	c	1.00	de	22.3	d	80.2	bcd	42.27	b	200	bcd
DP 2131 B3TXF	423	e	46.2	a-d	4.4	ab	1.08	a	25.4	a	80.9	abc	46.88	a	198	cd
PHY 400 W3FE	467	b-e	43.5	cde	4.3	abc	1.00	de	23.7	b	81.0	ab	41.20	bc	192	cde
DG 4497 B3TXF	459	cde	47.7	a	4.2	bc	0.98	e	23.1	bc	79.9	cd	39.82	c	183	de
DP 2012 B3XF	433	de	40.9	e	3.9	d	1.01	bcd	21.3	e	79.4	d	41.55	bc	180	e
Mean	**469**		**45.0**		**4.3**		**1.02**		**23.3**		**80.5**		**42.79**		**201**	
P>F	0.0425		0.1		0.0		0.00		0.0		0.1		0.00		0.0153	
LSD (P=.10)	48.85		3.7		0.2		0.03		0.9		1.0		2.24		18.4	
STD DEV	34.27		2.6		0.2		0.02		0.6		0.7		1.57		12.9	
CV%	7.3		5.8		3.5		2.01		2.7		0.9		3.68		6.43	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 23. Milam County RACE Trial, 2023
Cooperator: Justin Johnson
Joshua Evans, 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 400 W3FE	436	42.0	4.3	cd	1.00	24.3	80.3	41.58	181
DP 2012 B3XF	438	42.1	4.1	d	0.99	21.6	78.9	40.55	179
NG 4190 B3XF	431	43.9	4.5	abc	1.00	22.1	80.2	40.97	177
PHY 415 W3FE	401	44.1	4.3	cd	1.01	23.3	78.7	43.07	173
DG 3519B3XF	403	41.3	4.4	bc	1.01	23.9	80.5	42.43	171
DG 4497 B3TXF	432	46.5	4.5	ab	0.96	22.7	79.8	38.64	168
DP 2131 B3TXF	353	43.8	4.3	bc	1.02	23.3	79.5	42.73	160
DP 2239 B3XF	358	45.2	4.6	a	1.05	22.7	79.8	43.73	157
DG 3528B3XF	345	42.7	4.3	bc	1.00	22.9	80.1	41.00	141
Mean	**399**	**43.4**	**4.4**		**1.01**	**23.0**	**79.7**	**41.73**	**167**
DP>F	0.1181	0.5798	0.0367		0.5289	0.3758	0.4338	0.7377	0.5849
LSD (P=.10)	64.36	4.191	0.22		0.0561	1.936	1.505	4.5377	35.4
STD DEV	44.75	2.914	0.154		0.0392	1.352	1.051	3.1702	24.6
CV%	11.2	6.72	3.52		3.89	5.88	1.32	7.6	14.72

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 24. Navarro County RACE Trial, 2023
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 415 W3FE	922		42.5	cd	3.9	abc	1.06	cd	23.6	bcd	80.8		47.27		439	a
DG 3519 B3XF	855		43.0	bc	3.7	b-e	1.10	ab	24.6	ab	81.7		49.10		420	ab
NG 4190 B3XF	847		43.9	bc	4.0	ab	1.05	cd	21.3	f	79.6		44.77		401	ab
DP 2131 B3TXF	869		44.1	bc	3.7	b-e	1.11	a	24.8	a	80.5		46.66		399	ab
DP 2012 B3XF	821		39.9	e	3.7	bcd	1.06	cd	21.2	f	80.0		43.07		354	bc
DG 4497 B3TXF	793		46.2	a	4.1	a	1.04	d	23.3	cd	80.5		43.53		349	bc
DP 2239 B3XF	786		44.4	ab	3.6	cde	1.07	bcd	22.0	ef	79.7		44.27		348	bc
PHY 400 W3FE	763		39.5	e	3.4	e	1.09	abc	24.1	abc	80.5		43.25		332	c
DG 3528 B3XF	762		42.1	d	3.5	de	1.06	cd	22.9	de	80.2		42.87		329	c
Mean	824	42.8		3.7		1.07		23.1		80.4		44.98		375		
P>F	0.1444	0.0001		0.0332		0.0816		0.0001		0.6857		0.4542		0.0624		
LSD (P=.10)	96.54	1.609		0.331		0.0364		1.213		1.917		5.2603		64.9		
STD DEV	67.97	1.133		0.233		0.0256		0.854		1.35		3.7034		45.6		
CV%	8.3	2.65		6.23		2.39		3.73		1.68		8.23		12.26		

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 25. Cooper County RACE Trial, 2023
Cooperator: PPF Pat Pilgrim
David Drake, Extension Agent-IPM, Commerce
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	715	ab	43.9	ab	4.9	a	1.08	a	26.9	a	82.6	a	50.97	a	353	abc
PHY 400 W3FE	668	ab	42.2	ab	4.5	a	1.10	a	31.5	a	82.3	a	52.27	a	344	abc
PHY 332 W3FE	660	ab	42.4	ab	4.6	a	1.12	a	29.9	a	82.8	a	52.53	a	325	abc
PHY 415 W3FE	560	bc	40.8	ab	4.7	a	1.10	a	31.6	a	83.1	a	51.42	a	294	abc
DP 2131 B3TXF	555	bc	41.3	ab	4.6	a	1.09	a	27.9	a	81.2	a	51.10	a	282	abc
DG 3519 B3XF	518	bc	40.0	b	4.4	a	1.11	a	30.8	a	82.8	a	52.33	a	259	bc
DP 2239 B3XF	533	bc	41.8	ab	4.6	a	1.09	a	29	a	81.8	a	51.28	a	252	bc
DG 3528 B3XF	518	bc	41.0	ab	4.6	a	1.09	a	29.3	a	82.4	a	51.10	a	251	bc
DP 2012 B3XF	496	bc	40.0	b	4.6	a	1.06	a	27.2	a	81.5	a	51.58	a	227	c
DG 4497 B3TXF	431	c	43.9	ab	4.6	a	1.07	a	29.6	a	83.3	a	50.72	a	206	c
Mean	**565**		**41.7**		**4.6**		**1.09**		**29.4**		**82.4**		**51.53**		**279**	
P>F	0.0004		0.0097		0.4486		0.6088		0.0715		0.5844		0.8417		0.0009	
LSD (P=.10)	109.1		2.25		0.387		0.0596		3.288		2.259		2.61		61.55	
STD DEV	74.6		1.54		0.2258		0.0348		1.917		1.317		1.52		35.88	
CV%	13.19		3.69		4.91		3.19		6.53		1.6		2.96		12.84	

[1] Lint values were calculated using the 2023 Upland Cotton Loan Valuation Model from Cotton Incorporated.
DG= Dyna-Gro, DP=DeltaPine, NG=NexGen, PHY=Phytogen, ST=Stoneville.

Table 26. Lower Rio Grande Valley Monster Cotton Variety Trial, 2023
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]	
PX 1140D328-04 W3FE	1780	a	43.5	e-k	4.8	n-s	1.14	b-h	34.2	ab	84.5	a-i	53.98	abc	962	a
NG 4190 B3XF	1706	ab	44.8	a-e	5.0	i-o	1.14	b-h	30.7	o-t	84.8	a-f	52.80	b-h	902	ab
PX 1130A317-03 W3E1	1611	a-d	41.6	lmn	4.5	stu	1.17	a	35.6	a	85.0	abc	53.89	abc	865	abc
PHY 136 W3E1	1626	abc	44.4	b-g	4.7	p-t	1.12	f-j	33.4	b-g	83.4	m-p	53.25	a-g	865	abc
DP 2012 B3XF	1619	a-d	43.0	g-k	4.7	p-t	1.14	b-f	30.3	p-u	84.2	c-m	53.38	a-f	863	a-d
PX 1150D490-04 W3FE	1525	b-g	45.0	a-d	4.7	q-t	1.12	e-j	33.5	b-g	83.7	i-o	53.26	a-f	812	b-e
PX 1130D303-04 W3FE	1550	a-f	42.8	jkl	4.9	j-q	1.09	j-m	32.0	h-o	84.9	a-d	52.14	e-i	807	b-e
PHY 400 W3FE	1560	a-e	44.3	b-i	4.8	m-r	1.11	i-l	31.8	h-o	83.5	l-p	51.90	f-j	805	b-f
DP 2131 B3TXF	1500	b-h	44.7	a-f	4.9	j-q	1.16	ab	31.0	m-	84.5	a-j	52.90	b-h	794	b-f
PHY 415 W3FE	1510	b-g	44.0	c-j	4.8	l-r	1.12	f-j	34.0	bcd	84.4	a-k	52.63	c-h	793	b-g
DP 1646 B2XF	1509	b-g	45.4	abc	5.1	g-m	1.15	abc	30.8	n-t	84.3	b-m	52.25	d-i	790	b-g
DP 2020 B3XF	1445	c-i	43.3	f-k	4.8	m-r	1.13	b-i	29.8	stu	83.6	k-p	53.66	a-e	776	b-g
FM 2498 GLT	1551	a-f	43.8	d-j	5.5	abc	1.11	hij	30.2	q-u	83.2	opq	49.74	nop	772	c-h
ST 4990 B3XF	1447	c-i	44.3	b-h	4.9	l-r	1.13	d-i	29.4	tu	84.3	b-l	53.19	a-g	770	c-h
DP 2317 B3TXF	1409	c-k	43.8	d-j	4.7	o-s	1.13	d-i	28.9	u	83.7	h-o	53.69	a-d	756	c-i
PHY 411 W3FE	1518	b-g	45.9	a	4.9	k-q	1.04	n	31.4	j-q	82.4	q	48.96	pq	745	c-j
PX 1130B333-04 W3FE	1431	c-j	42.9	h-l	4.9	l-r	1.08	lm	32.6	d-k	84.5	a-j	51.73	g-l	738	d-j
DG 3555 B3XF	1345	e-m	41.0	mn	4.4	u	1.13	d-i	33.2	b-h	84.7	a-g	54.16	ab	728	e-k
DG 3511 B3XF	1445	c-i	44.9	a-d	5.4	b-e	1.11	hij	33.6	b-f	84.3	b-m	50.15	m-p	724	e-l
DG 3425 B3XF	1362	e-l	44.8	a-e	5.1	f-l	1.13	c-i	32.3	f-m	84.6	a-h	51.88	f-k	705	e-m
DP 2143NR B3XF	1378	d-l	43.9	d-j	5.7	a	1.14	b-h	33.8	b-e	84.0	e-o	50.24	l-p	693	e-m
PX 1140A385-04 W3FE	1407	c-k	45.0	a-d	5.5	a-d	1.07	m	33.0	b-i	83.2	n-q	48.14	q	679	f-m
PHY 545 W3FE	1327	e-m	45.4	abc	5.1	e-k	1.08	lm	32.2	g-n	83.6	j-o	50.35	k-p	667	g-n
UA 222	1258	h-n	39.4	op	5.1	g-m	1.17	a	32.7	c-j	84.7	a-g	51.73	g-l	646	h-n
PX 1150B437-04 W3FE	1311	f-m	40.7	no	5.3	c-h	1.07	m	31.1	l-s	82.7	pq	49.08	opq	646	h-n
PX 1140B373-04 W3FE	1286	g-n	42.3	klm	5.0	h-n	1.07	m	33.6	b-g	83.9	f-o	49.90	nop	642	i-o
DG 3519 B3XF	1255	i-n	43.3	f-k	5.3	b-g	1.14	b-g	33.0	b-h	85.1	ab	50.73	i-n	637	i-o

Table 26 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
DG 3528 B3XF	1195	j-o	44.2	c-j	4.9	k-q	1.12	e-j	30.0	r-u	83.6	j-o	53.01	a-h	635	i-o
UA 248	1172	k-o	38.2	p	5.0	h-n	1.13	c-i	33.2	b-h	83.5	l-p	53.10	a-h	620	j-o
DP 2239 B3XF	1208	i-o	45.8	a	5.3	b-g	1.15	a-d	30.8	n-t	84.8	a-e	50.54	j-o	611	k-o
PHY 332 W3FE	1104	mno	42.9	h-l	4.5	tu	1.14	a-e	32.5	e-l	84.1	d-m	54.23	ab	599	l-p
DP 2349NR B3XF	1197	j-o	45.0	a-d	5.4	b-e	1.09	kl	30.3	p-u	84.0	e-o	49.26	n-q	590	m-
DP 2141NR B3XF	1147	l-o	42.9	i-l	5.5	ab	1.13	b-i	33.8	b-e	83.9	g-o	50.48	j-p	580	m-
AMX160030-B B3XF	1057	no	42.8	jkl	5.2	e-j	1.11	g-j	32.8	c-j	84.0	e-o	51.64	h-m	544	no
NG 4335 B3TXF	967	op	41.2	mn	4.6	r-u	1.15	a-d	31.6	i-p	84.5	a-j	53.46	a-e	519	op
AMX20T157 B3XF	971	op	43.0	g-k	5.3	b-f	1.11	hij	31.2	k-r	84.1	d-n	49.61	n-q	482	pq
AMX160030-A B3XF	783	pq	45.6	ab	5.0	j-p	1.13	b-i	30.3	p-t	84.6	a-g	52.14	e-i	408	qr
NG 4350 B3TXF	749	pq	40.2	no	4.4	u	1.17	a	34.1	bc	85.2	a	54.44	a	408	qr
AMX20T114 B3XF	681	q	42.8	jkl	5.2	d-i	1.11	h-k	30.3	p-u	84.1	d-m	50.41	j-p	344	r
AMX20T079 B3XF	619	q	43.7	d-j	4.9	k-q	1.12	f-j	30.9	n-s	84.3	b-l	52.28	d-h	323	r
Mean	**1313**		**43.4**		**5.0**		**1.12**		**32.0**		**84.1**		**51.86**		**681**	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
LSD (P=.10)	244.6		1.40		0.23		0.027		1.42		0.86		1.54		127.0	
STD DEV	364.49		2.09		0.38		0.04		1.92		0.92		2.04		162.41	
CV%	27.76		4.81		7.54		3.26		6.00		1.10		3.92		23.84	

[1] Lint values were calculated using the 2023 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. Corpus Christi Monster Cotton Variety Trial, 2023
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]	
PX 1140D328-04 W3FE	993	a	43.9	cd	4.5	klm	1.12	b-e	33.1	bcd	83.4	c-i	53.84	abc	535	a
PX 1130A317-04 W3E1	952	ab	42.0	hi	4.4	lmn	1.16	a	36.2	a	84.6	a	54.39	a	518	ab
PX 1150D490-04 W3FE	935	abc	46.6	a	4.6	jkl	1.06	jkl	29.8	hij	81.5	m	51.50	g-j	481	abc
PHY 415 W3FE	871	a-d	43.2	c-h	4.5	klm	1.13	bcd	33.8	bc	83.6	a-g	54.18	ab	472	a-d
PHY 400 W3FE	833	a-e	43.6	cde	4.4	mn	1.09	f-i	31.6	d-g	82.4	i-m	53.14	a-e	445	a-e
PX 1130B333-04 W3FE	789	a-f	42.9	d-h	4.8	d-j	1.09	cg-	34.3	b	83.9	abc	52.44	c-i	417	a-f
PHY 136 W3E1	771	a-f	43.6	cde	4.8	d-j	1.11	b-g	33.2	bcd	83.6	b-f	53.84	abc	415	a-f
PX 1140B373-04 W3FE	787	a-f	41.2	ij	4.7	h-k	1.05	kl	33.7	bc	83.2	c-j	51.66	f-j	409	a-g
PX 1130D303-04 W3FE	794	a-f	43.0	d-h	5.0	c-g	1.07	h-k	31.4	e-h	83.6	a-e	50.49	jkl	402	b-h
DP 2020 B3XF	730	b-g	42.5	e-h	4.7	ijk	1.09	e-h	28.1	k	81.7	lm	52.73	b-h	384	c-i
DP 2317 B3TXF	704	c-g	43.4	c-g	4.6	klm	1.10	c-g	28.1	k	82.6	g-l	52.95	b-f	372	c-i
PHY 545 W3FE	728	b-g	45.6	ab	4.9	d-h	1.06	kl	32.2	c-f	83.1	c-j	51.19	i-l	372	c-i
NG 4190 B3XF	707	c-g	44.0	cd	5.0	c-f	1.11	b-g	29.3	ijk	82.8	d-k	51.41	h-k	364	c-j
PHY 332 W3FE	665	d-h	42.4	e-i	4.6	jkl	1.13	bcd	32.7	b-e	83.5	c-h	53.46	a-e	355	d-j
DP 2143NR B3XF	698	c-g	43.4	c-g	5.5	a	1.11	b-g	33.3	bc	82.9	d-k	49.89	l	348	d-k
DG 3555 B3XF	639	d-h	40.5	j	4.3	n	1.13	bcd	33.6	bc	84.5	ab	54.00	ab	344	d-k
PHY 411 W3FE	700	c-g	45.5	ab	4.9	c-g	1.03	m	32.3	c-f	82.4	j-m	48.25	m	339	d-k
FM 2498 GLT	629	d-h	42.6	e-h	4.9	d-h	1.09	e-h	29.5	ijk	82.7	e-l	52.09	e-i	327	e-k
DG 3519 B3XF	593	f-i	42.2	ghi	4.7	g-k	1.13	ab	33.4	bc	83.6	a-e	53.58	a-d	318	f-l
DP 2012 B3XF	594	f-i	42.3	f-i	4.5	klm	1.11	c-g	29.0	jk	82.6	f-l	52.95	b-f	315	f-l
DP 1646 B2XF	584	e-j	44.6	bc	4.7	e-k	1.13	abc	30.9	f-i	82.7	e-l	53.58	a-e	313	e-
PX 1150B437-04 W3FE	641	d-h	40.4	j	5.1	bc	1.04	lm	30.0	g-j	82.2	j-m	47.66	m	307	f-
DG 3528 B3XF	560	f-j	43.3	c-h	5.0	cde	1.12	b-f	30.6	f-j	83.6	a-g	52.02	e-j	292	f-
DP 2141NR B3XF	585	f-j	43.4	c-g	5.4	a	1.10	d-g	33.3	bc	83.0	c-j	49.99	kl	292	f-
UA 248	531	g-j	35.9	l	4.8	fk	1.11	b-g	33.5	bc	82.4	i-m	53.74	a-d	286	g-
ST 4990 B3XF	521	g-j	40.5	j	4.6	jkl	1.12	b-f	29.1	jk	82.5	h-m	52.85	b-g	277	h-
DG 3511 B3XF	542	f-j	44.6	bc	5.3	ab	1.06	i-l	32.9	b-e	83.3	c-j	48.22	m	259	i-m

Table 27 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
DP 2131 B3TXF	449	hij	43.5	c-f	4.7	h-k	1.12	bcd	30.3	g-j	81.9	klm	53.74	a-d	241	j-m
DP 2239 B3XF	429	hij	45.7	ab	5.0	cd	1.12	bcd	30.4	g-j	83.1	c-j	52.41	c-i	224	klm
UA 222	342	ij	37.8	k	4.9	d-i	1.12	bcd	33.4	bc	82.8	d-k	54.08	ab	185	lm
DG 3425 B3XF	349	j	43.9	cd	4.8	d-j	1.10	c-g	33.1	bcd	83.8	a-d	52.33	d-i	183	m
Mean	**670**		**42.8**		**4.8**		**1.10**		**31.8**		**83.0**		**52.20**		**350**	
P>F	0.0006		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0.0003	
LSD (P=.10)	238.0		1.28		0.22		0.028		1.62		1.00		1.43		125.6	
STD DEV	237.09		2.36		0.33		0.04		2.36		1.05		2.08		126.43	
CV%	35.41		5.50		6.87		3.40		7.41		1.26		3.99		36.13	

[1] Lint values were calculated using the 2023 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. Mid-Coast Monster Cotton Variety Trial, 2023
Cooperator: Danny May
Stephen Biles - Victoria, Calhoun, and Refugio County IPM Agent, Port Lavaca
Hailey Hayes – Calhoun 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	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)	Strength (g/tex)	Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
PHY 415 W3FE	948	a	43.9	abc	5.0	d-i	1.07	31.3	82.9	ab	49.74	a-f	472	a
PX 1130A317-03 W3E1	860	ab	43.3	a-e	4.4	lm	1.06	31.4	82.7	abc	51.83	a	447	ab
NG 4190 B3XF	851	abc	44.0	abc	5.1	b-h	1.07	28.7	82.9	ab	49.44	a-g	420	abc
DP 2012 B3XF	806	a-e	43.7	a-e	5.0	d-j	1.06	28.9	82.7	abc	49.77	a-f	399	a-d
PX 1140D328-04 W3FE	812	a-d	42.7	a-g	5.0	d-i	1.03	29.6	82.5	a-f	48.28	a-i	394	a-e
PHY 400 W3FE	739	b-i	43.3	a-e	4.8	i-l	1.05	28.9	81.8	b-i	49.86	a-f	370	c-f
PHY 136 W3E1	728	b-j	43.2	a-e	4.8	i-l	1.05	29.5	81.8	b-i	50.69	a-d	368	c-f
PX 1130B333-04 W3FE	761	b-h	42.2	a-g	4.9	d-k	1.02	30.3	82.9	ab	48.05	a-i	368	c-g
DG 3519 B3XF	791	b-f	44.2	a	5.1	c-i	1.02	29.6	81.7	b-i	46.30	f-j	367	c-g
DP 2131 B3TXF	714	d-j	42.9	a-e	4.6	jkl	1.05	29.2	81.3	e-i	50.75	a-d	364	c-g
PHY 332 W3FE	727	b-j	42.2	b-g	4.9	d-k	1.04	29.5	82.4	a-f	49.69	a-f	363	c-g
DP 2317 B3TXF	765	b-h	40.6	gh	4.9	e-k	1.02	26.6	81.7	b-i	46.85	b-j	361	c-h
AMX 160030-B B3XF	725	c-j	43.0	a-e	4.9	d-k	1.04	28.5	81.6	b-i	49.65	a-f	360	c-h
PHY 545 W3FE	729	b-j	43.4	a-e	4.9	e-k	1.04	29.3	81.9	b-h	49.27	a-h	359	c-h
22R2140 B3TXF	759	b-h	44.0	abc	4.6	kl	1.03	26.5	81.1	ghi	46.81	c-j	357	c-h
DG 3511 B3XF	782	b-f	44.3	a	5.2	b-h	1.01	28.9	81.5	b-i	45.47	g-j	355	c-i
PX 1140B373-04 W3FE	724	c-j	41.0	fgh	4.8	g-k	1.01	30.3	81.5	b-i	47.89	b-i	348	c-i
AMX160030-A B3XF	692	d-k	44.0	abc	4.8	g-k	1.03	27.9	81.2	f-i	49.28	a-g	342	d-i
NG 4335 B3TXF	661	e-l	42.5	a-g	4.6	jkl	1.05	29.3	81.4	d-i	50.50	a-e	334	d-j
PX 1140A385-04 W3FE	703	d-k	44.0	a-d	5.1	c-i	1.02	28.2	81.5	b-i	47.57	b-j	333	d-j
PHY 411 W3FE	728	b-j	44.2	a	4.9	e-k	0.99	29.4	80.9	hi	45.25	hij	332	d-j
PX 1150D490-04 W3FE	720	c-k	44.1	abc	4.9	d-k	1.00	27.6	80.4	i	46.13	f-j	332	d-j
PX 1130D303-04 W3FE	740	b-j	42.5	a-g	5.6	a	1.02	28.2	80.8	hi	44.53	ij	330	d-j
DP 2020 B3XF	673	d-l	42.7	a-f	5.0	d-i	1.02	28.5	81.8	b-i	47.35	b-j	318	d-j
PX 1150B437-04 W3FE	707	c-k	41.9	c-h	5.2	a-f	1.00	28.5	81.2	e-i	44.47	ij	314	d-j
DP 2239 B3XF	657	f-l	43.8	a-d	5.3	a-e	1.07	30.0	83.4	a	47.48	b-j	313	e-j
AMX20T079 B3XF	602	jkl	42.2	b-g	5.1	b-i	1.05	28.9	82.3	a-g	50.56	a-e	304	f-j

Table 28 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
DG 3425 B3XF	614	i-l	43.2	a-e	4.9	e-k	1.03		30.0		81.3	e-i	48.50	a-i	300	f-j
NG 4350 B3TXF	579	klm	39.9	h	4.2	m	1.08		30.3		82.5	a-f	50.84	abc	297	f-j
AMX20T157 B3XF	615	i-l	43.1	a-e	5.3	a-d	1.03		28.1		81.4	d-i	47.18	b-j	290	f-k
DG 3528 B3XF	618	g-l	41.6	e-h	4.9	e-k	1.01		29.4		81.3	d-i	46.85	b-j	290	f-k
22R2136NR B3TXF	554	lm	43.8	a-d	4.8	h-l	1.06		30.3		82.1	a-h	50.96	ab	282	h-k
DP 2349NR B3XF	622	g-l	43.1	a-e	5.4	abc	1.01		28.8		80.9	hi	43.74	j	274	ijk
DP 2143NR B3XF	539	lm	41.6	e-h	5.1	c-i	1.04		29.4		81.4	d-i	48.85	a-h	263	jk
DP 2141NR B3XF	536	lm	42.4	a-g	5.5	abc	1.03		28.8		80.8	hi	46.73	c-j	253	jk
AMX20T114 B3XF	455	m	41.9	d-g	5.2	b-g	1.03		27.8		82.6	a-d	46.94	b-j	214	k
Mean	699		42.9		4.9		1.04		29.1		81.8		48.27		338	
P>F	<0.0001		0.0413		<0.0001		0.1572		0.1932		0.0406		0.0759		0.0002	
LSD (P=.10)	134.6		2.24		0.42		NS		NS		1.29		3.867		76.1	
STD DEV	141.41		1.78		0.39		0.04		1.92		1.78		3.49		76.66	
CV%	20.23		4.14		7.91		3.82		6.58		2.17		7.23		22.66	

[1] Lint values were calculated using the 2023 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 29. Upper Coast Monster Cotton Variety Trial, 2023
Cooperator: Dean Hansen
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 1150D490-04 W3FE	1419	ab	50.5	a	5.0	h-k	1.11	iik	31.6	h-k	82.4	l	52.23	c-g	744	a
NG 4190 B3XF	1439	a	48.4	bc	5.4	c-g	1.15	def	31.0	j-m	83.5	c-k	50.93	f-k	733	ab
PHY 545 W3FE	1406	ab	48.7	b	5.5	a-d	1.07	mn	32.5	ghi	83.2	h-l	48.85	m	687	abc
DP 2020 B3XF	1256	a-d	43.3	kl	4.9	ijk	1.16	cde	30.0	mn	83.5	d-k	52.19	c-h	655	a-d
PHY 400 W3FE	1242	b-e	46.6	def	5.2	e-j	1.13	f-i	33.6	def	83.7	b-j	51.70	d-i	642	b-e
DP 2239 B3XF	1191	c-f	47.0	de	5.1	g-k	1.19	a	31.1	jkl	84.0	a-h	52.69	b-e	626	c-f
PHY 415 W3FE	1241	b-e	46.8	de	5.4	b-f	1.14	e-h	34.4	cd	84.1	a-g	50.34	i-l	625	c-f
PX 1130D303-04 W3FE	1314	abc	46.9	de	5.7	ab	1.05	o	31.5	ijk	83.1	i-l	47.09	n	618	c-f
DP 2012 B3XF	1178	c-f	43.3	kl	5.0	ijk	1.15	def	30.0	lm	83.1	h-l	52.13	c-h	614	c-g
DP 2317 B3TXF	1173	c-f	44.0	jk	4.8	klm	1.15	d-g	28.7	o	82.9	jkl	52.33	c-f	613	c-g
DP 22R2140 B3TXF	1166	c-f	45.7	fgh	5.2	d-i	1.14	e-h	27.8	o	83.3	f-k	51.20	f-j	597	c-g
PX 1130A317-03 W3E1	1154	c-f	47.7	bcd	5.2	e-j	1.17	bcd	36.3	a	84.5	ab	51.65	d-i	596	c-g
DP 2349NR B3XF	1178	c-f	47.4	cd	5.5	a-d	1.12	g-j	31.7	hij	83.4	e-k	50.05	j-m	590	d-h
PX 1140D328-04 W3FE	1142	c-g	46.6	def	5.4	b-f	1.14	d-g	34.5	cd	83.7	b-j	50.74	h-k	580	d-i
PHY 136 W3E1	1126	d-h	47.1	de	5.1	e-j	1.15	def	34.4	cd	83.9	a-i	51.35	e-j	578	d-i
PHY 411 W3FE	1149	c-f	48.2	bc	5.4	b-e	1.07	no	33.2	efg	83.3	g-l	48.75	m	560	d-j
PHY 332 W3FE	1069	e-i	46.1	efg	5.0	ijk	1.16	cde	33.8	cde	84.0	a-i	52.11	c-h	559	e-k
DP 2131 B3TXF	1017	f-j	46.2	efg	4.9	jkl	1.16	cde	30.5	k-n	83.1	i-l	52.39	c-f	531	f-l
DG 3511 B3XF	1043	f-i	44.6	ij	5.3	c-h	1.11	ijk	34.5	cd	84.0	a-i	50.13	j-m	521	g-m
PX 1140A385-04 W3FE	1017	f-j	47.5	cd	5.5	a-d	1.08	lm	35.6	ab	84.3	a-e	49.01	lm	499	h-n
DG 3528 B3XF	960	g-k	44.5	ij	5.2	e-j	1.14	e-h	31.1	jk	83.6	c-k	51.29	e-j	492	i-n
PX 1140B373-04 W3FE	952	h-k	44.9	hij	5.5	a-d	1.09	kl	34.8	bc	83.7	b-j	49.51	kl	471	j-n
PX 1130B333-04 W3FE	941	ijk	45.7	fgh	5.5	a-d	1.09	kl	33.7	c-f	84.2	a-f	49.24	lm	463	k-o
PX 1150B437-04 W3FE	920	ijk	43.2	kl	5.8	a	1.09	k-n	32.4	ghi	82.9	jkl	48.96	lm	451	l-p
DG 3519 B3XF	841	jkl	43.2	kl	5.0	ijk	1.16	cde	32.9	efg	84.3	a-d	53.29	abc	449	l-q
DG 3425 B3XF	818	kl	44.7	hij	4.6	lm	1.14	e-h	32.7	fgh	83.6	c-k	54.10	ab	442	l-q
AMX20T079 B3XF	846	jkl	44.6	ij	5.0	ijk	1.15	def	30.8	j-n	83.6	c-k	52.24	c-f	441	l-q

Table 29 continued.

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
NG 4335 B3TXF	800	klm	42.7	l	4.8	klm	1.19	ab	33.9	cde	84.3	a-d	54.46	a	435	l-q
AMX20T114 B3XF	830	klm	44.6	ij	5.1	h-k	1.10	jk	29.8	n	83.8	b-j	51.43	e-j	428	m-q
DP 2141NR B3XF	817	klm	44.2	jk	5.4	c-g	1.15	cde	34.6	bcd	83.6	b-j	50.76	g-k	414	n-q
DP 2143NR B3XF	818	klm	44.7	hij	5.6	abc	1.15	c-f	33.8	c-f	83.1	i-l	50.34	i-l	412	n-q
AMX160030-B B3XF	709	lm	44.5	ij	5.0	ijk	1.12	hij	31.5	ijk	83.6	c-k	52.39	c-f	372	opq
AMX20T157 B3XF	702	lm	44.0	jk	5.1	f-j	1.16	cde	32.3	ghi	84.8	a	52.09	c-h	366	pq
NG 4350 B3TXF	648	mn	39.2	m	4.1	n	1.20	a	34.4	cd	84.4	abc	54.50	a	353	qr
AMX160030-A B3XF	506	no	46.7	def	4.6	m	1.17	bc	30.6	j-n	83.3	f-k	53.08	a-d	265	rs
DP 22R2136NR B3TXF	433	o	45.5	ghi	4.0	n	1.20	a	34.5	cd	82.7	kl	54.43	a	235	s
Mean	1013		45.5		5.1		1.13		32.5		83.6		51.39		518	
P>F	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0.0047		<0.0001		<0.0001	
LSD (P=.10)	185.5		1.08		0.29		0.02		1.12		0.92		1.47		96.3	
STD DEV	280.79		2.24		0.44		0.04		2.16		0.87		2.05		139.87	
CV%	27.72		4.93		8.52		3.55		6.63		1.04		3.99		26.99	

[1] Lint values were calculated using the 2023 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
*2,4-D damage occurred in June, however non-Enlist varieties recovered well after late June rains.

Table 30. Southern Blacklands Monster Cotton Variety Trial, 2023
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]	
NG 4190 B3XF	723	a	47.6	d-g	3.6	def	1.06	b-f	24.8	bc	81.3	a	44.88	bc	324	a
DP 2143NR B3XF	543	de	48.1	d-g	4.9	a	1.07	a-e	26.4	ab	80.6	a-g	49.61	a	303	ab
DP 2349NR B3XF	550	de	51.1	ab	4.3	b	1.00	i	21.7	e-h	79.6	gh	40.89	d-h	288	abc
NG 4335 B3TXF	588	cd	47.6	d-g	3.6	c-f	1.07	a-d	24.9	bc	81.3	a	46.05	ab	271	bcd
DG 3425 B3XF	656	b	52.1	a	4.0	bc	1.01	hi	20.7	gh	79.5	h	40.08	e-h	263	bcd
DG 3555 B3XF	637	bc	49.0	b-f	3.8	cd	1.02	ghi	23.2	c-f	80.7	a-f	40.79	d-h	260	b-e
AMX20T157 B3XF	565	d	49.4	a-e	3.8	cd	1.04	d-h	24.1	cd	80.1	b-h	43.95	bcd	249	c-f
DP 2141NR B3XF	461	fgh	47.7	d-g	4.3	b	1.05	c-g	24.2	cd	79.7	fgh	44.34	bcd	244	c-g
DP 2239 B3XF	438	gh	48.1	c-g	3.8	cd	1.05	c-h	22.5	d-g	79.8	e-h	44.09	bcd	244	c-g
DP 2317 B3TXF	638	b	47.6	d-g	3.6	cde	1.01	hi	20.6	gh	79.9	d-h	38.11	h	244	c-g
DG 3519 B3XF	485	fg	48.0	d-g	4.0	bc	1.04	d-h	24.0	cd	80.4	a-h	44.06	bcd	236	d-h
22R2140 B3TXF	637	b	46.4	f-i	3.6	def	1.04	d-h	20.8	gh	79.5	h	40.91	d-h	216	e-i
AMX160030-B	504	ef	45.5	ghi	3.5	def	1.04	d-h	23.7	cde	80.3	a-h	41.99	c-g	212	f-i
DP 2012 B3XF	684	ab	44.1	i	3.5	def	1.04	d-h	20.3	h	79.8	e-h	38.86	fgh	211	f-i
DP 2020 B3XF	577	d	47.1	e-h	3.6	c-f	1.07	a-d	20.0	h	79.9	d-h	43.15	b-e	209	f-i
AMX160030-A	481	fg	50.4	a-d	3.2	fg	1.09	ab	25.1	bc	80.8	a-d	43.34	b-e	209	f-i
DG 3528 B3XF	486	fg	47.5	d-g	3.7	cde	1.01	hi	21.4	fgh	79.4	h	38.34	gh	200	ghi
DP 2131 B3TXF	469	fgh	48.4	b-f	3.3	efg	1.07	a-e	24.3	cd	79.9	d-h	42.50	b-f	199	ghi
AMX20T114 B3XF	441	gh	50.9	abc	3.8	cd	1.03	e-i	25.0	bc	81.0	abc	45.13	bc	198	hi
22R2136NR B3TXF	586	d	48.7	b-f	3.3	efg	1.08	abc	27.3	a	80.0	c-h	45.96	ab	189	i
AMX20T079 B3XF	438	gh	48.0	d-g	3.5	def	1.03	f-i	23.4	cde	80.8	a-e	42.48	b-f	186	i
NG 4350 B3TXF	424	h	44.4	hi	3.0	g	1.10	a	25.0	bc	81.1	ab	41.45	c-h	176	i
Mean	**546**		**48.1**		**3.7**		**1.05**		**23.3**		**80.2**		**42.77**		**233**	
P>F	0.0001		0.0015		0.0001		0.0001		0.0001		0.0182		0.0004		0.0001	
LSD (P=.10)	48.48		2.864		0.415		0.0362		1.928		1.005		3.8055		45.163	
STD DEV	41.07		2.427		0.352		0.0306		1.633		0.851		3.2238		38.259	
CV%	7.52		5.05		9.54		2.93		7		1.06		7.54		16.4	

[1] Lint values were calculated using the 2023 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 31. Bell County Monster Cotton Variety Trial, 2023
Cooperator: Texas A&M AgriLife and USDA, Temple, TX
Dale Mott, Dr Ben McKnight, Matt Matocha, Floyd Ingram, and Chad Hajda
Texas A&M AgriLife Extension Service and USDA – College Station and Temple, Texas

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)[1]	
DP 2317 B3TXF	413	h	41.2	h	3.9	jk	1.02	h	21.7	k	79.7	ij	42.08	fg	171	i
NG 4350 B3TXF	420	gh	42.0	gh	3.2	l	1.08	abc	25.5	fgh	81.2	b-f	42.16	fg	177	hi
AMX20T079 B3XF	445	c-h	44.4	c-h	4.0	hij	1.04	d-h	23.9	j	80.3	ghi	44.39	c-f	197	gh
DP 2020 B3XF	437	e-h	43.6	e-h	3.9	jk	1.06	c-f	22.3	k	80.4	f-i	45.43	b-f	199	g
DP 2012 B3XF	470	b-e	46.9	b-e	3.8	k	1.02	h	21.9	k	79.4	j	42.64	fg	200	g
DG 3528 B3XF	474	b-e	47.3	b-e	4.3	f	1.04	e-h	24.7	hij	80.1	hij	43.71	def	207	fg
22R2140 B3TXF	482	ab	48.1	abc	4.3	fg	1.03	gh	22.6	k	80.6	e-i	43.24	efg	209	fg
DP 2349NR B3XF	465	b-f	46.4	b-f	4.7	bc	1.03	h	25.1	ghi	80.2	g-j	45.46	b-f	211	efg
AMX160030-B	467	b-f	46.6	b-f	4.4	def	1.03	h	26.5	def	81.6	bc	46.56	a-f	217	d-g
NG 4190 B3XF	482	a-d	48.1	a-d	4.3	fg	1.06	b-e	24.0	ij	81.5	bcd	46.44	a-f	223	c-f
DP 2143NR B3XF	450	c-h	44.9	c-h	5.0	a	1.08	abc	28.6	abc	80.4	f-i	50.03	a-d	225	c-f
DG 3519 B3XF	431	fgh	43.0	fgh	4.0	h-k	1.08	abc	28.4	bc	81.7	b	52.65	a	227	c-f
DP 2239 B3XF	489	ab	48.8	ab	4.5	de	1.07	a-d	24.4	hij	80.6	d-i	46.54	a-f	227	c-f
DP 2131 B3TXF	442	d-h	44.1	d-h	3.9	jk	1.09	a	26.5	ef	81.6	bc	51.48	ab	228	c-f
NG 4335 B3TXF	444	d-h	44.3	d-h	3.9	jk	1.09	ab	27.7	bcd	81.9	ab	51.74	ab	230	cde
AMX20T114 B3XF	488	ab	48.7	ab	4.5	cd	1.04	e-h	26.3	efg	81.4	b-e	48.36	a-f	235	cd
DG 3555 B3XF	461	b-g	46.0	b-g	4.1	hi	1.06	c-g	28.7	ab	82.8	a	50.90	abc	235	cd
AMX20T157 B3XF	478	a-d	47.7	a-d	4.6	cd	1.03	fgh	26.7	def	81.4	b-e	36.60	g	235	cd
DP 2141NR B3XF	475	bc	47.4	bcd	4.8	b	1.06	c-f	26.4	ef	80.4	f-i	49.46	a-e	235	cd
DG 3425 B3XF	498	ab	49.7	ab	4.0	ijk	1.04	d-h	26.2	fg	80.7	c-h	48.26	a-f	239	bc
AMX160030-A	498	ab	49.7	ab	4.4	ef	1.08	abc	27.5	cde	81.7	b	52.45	a	261	ab
22R2136NR B3TXF	514	a	51.3	a	4.1	gh	1.08	abc	29.8	a	81.1	b-g	51.83	ab	263	a
Mean	**464**		**46.3**		**4.2**		**1.05**		**25.7**		**80.9**		**46.93**		**220**	
P>F	0.0042		0.0042		0.0001		0.0001		0.0001		0.0001		0.0093		0.0001	
LSD (P=.10)	37.95		3.79		0.1716		0.0292		1.192		0.876		6.7467		20.38	
STD DEV	32.11		3.207		0.1453		0.0248		1.01		0.742		5.7154		17.24	
CV%	6.93		6.93		3.46		2.35		3.93		0.92		12.18		7.84	

[1] Lint values were calculated using the 2023 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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