

# COTTON PERFORMANCE TESTS

*In the Texas High Plains*

♦ 2018 ♦

*The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos - 2019*



♦ Technical Report ♦  
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# **Cotton Performance Tests in the Texas High Plains 2018<sup>1/</sup>**

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## INTRODUCTION

Cotton performance trials were conducted during 2018 at the Texas A&M Agricultural Research and Extension Center at Lubbock, Halfway, and the AG-CARES research farm at Lamesa. Trials were also conducted in the presence of root-knot nematode at Lamesa, Verticillium wilt in Halfway, and bacterial blight in Lubbock. Response to bacterial blight infection is reported for the bacterial blight trial. The Uniform Variety Trial includes the same entries at 4 locations. The entries are mostly commercially or soon to be commercially available varieties. New varieties and strains, including potential new commercial varieties or breeding lines, are tested at an irrigated location in Lubbock. A late-planted trial was also conducted in Lubbock under irrigated conditions including commercial varieties. The Regional High Quality trial was grown in several locations across the cotton belt; the Lubbock location is presented. This trial includes breeder material as well as commercially available varieties that meet higher fiber quality standards. Soil types, planting dates, harvest dates, irrigation, and cultural practices for each trial can be found in Table 1. All trials were planted in a randomized complete block design with four replications, in 2-row, 30-40 ft x 40in. plots.

Cotton crop establishment was a challenge in 2018 as many areas struggled to find good planting conditions due to spells of dry and windy conditions. Early replants were common across the region, due to the lack of stand establishment because of inadequate moisture for emergence, or cotton dried out shortly after emergence. Planting activity stretched into late June, or even early July, when some areas received their first rain since late April-May. Soil moisture remained fairly low throughout the season. As a result, we lost many (>50%) of the dryland acres across the Southern High Plains region, and even irrigated fields ended up with less than desired plant population. The impact of drought was more severe in areas south of Lubbock where almost all the dryland acres were failed. Some of the precipitation received during mid to late September did some good in the irrigated crop but was too late to be of any benefit to dryland cotton for the most part. Conditions during harvest were less than favorable due to widespread, sporadic rain across the region which delayed harvesting for the most part of October. Cotton production on the Texas High Plains fell below the 5 million bale mark for the first time since 2015. While production on a pounds per acre basis in 2017 was good, in many areas crop maturity was a concern which manifested into low micronaire. In 2018, however, timely growing conditions favorable for fiber development resulted in better quality compared to 2017. Micronaire, color and leaf grade values remained at acceptable to excellent levels.

## ACKNOWLEDGMENTS

Fiber properties were measured at the Fiber and Biopolymer Research Institute, Texas Tech University. Plains Cotton Improvement Program and CSREES Hatch project 09297TX contributed additional financial support to the variety testing effort. The Plains Cotton Improvement Committee is important to the independent variety testing service and to the variety testing strategy of the Texas A&M AgriLife Research breeding program in Lubbock as the High Plains continues to be relied upon as a consistent supplier of high quality cotton. Planting, seed and field preparation, plot maintenance, harvest, sample ginning, and data collection were performed by: Trevor Abbo, Kylie Adams, Addissu Ayele, Reid Barker, Bryson Batila, Makenzie Bradley, Tyler Clark, Jayce Guess, Barrett Hall, William Pettit, Cameron Price, Monica Sheehan, Leslie Wells, Nathan Wood, Zane Wyatt, and John Zwonitzer. Bacterial blight, Verticillium wilt, and root-knot nematode ratings were performed by Dr. Terry Wheeler. The assistance of all of these people is gratefully acknowledged and appreciated.

## GLOSSARY OF TABLE HEADINGS

### Yield and Turnout

Yield - Pounds of lint harvested per acre.

#### Gin Turnout

Lint - Percentage of lint of the stripper-harvested cotton.

Seed - Percentage of seed of the stripper-harvested cotton.

### Agronomic Properties - Determined from hand-snapped samples.

#### Percent Lint

Picked - Lint fraction of seed cotton.

Pulled - Lint fraction of burr cotton.

Boll Size - Weight, in grams, of seed cotton per boll.

Seed Index - Weight, in grams, of 100 fuzzy seed.

Lint Index - Weight, in grams, of lint from 100 seed (calculated).

Seed Per Boll - Average number of seed per boll (calculated).

### Visual Properties

Maturity - Visual assessment of relative open bolls on a given date.

Storm Resistance - Visual rating from 1 (very loose boll type, considerable seed cotton loss) to 9 (very tight boll type, no seed cotton loss).

Height – Measured average plant height, in inches.

### Disease

Rk- Number of root-knot nematodes in 500cc of soil.

LRK- Log transformation +1 of the Rk number, which is done to account for pressure in the field.

Wilt%- The percentage of plants with Verticillium wilt symptoms on a given day.

### Statistical Analysis

Mean - The average value for the trait being observed.

c.v.% - Coefficient of variation. A relative measure of variation within a test, defined as the sample standard deviation expressed as a percentage of the sample mean.

LSD - Least significant difference. If the difference between two means exceeds this value, the two means are significantly different at the 0.05 probability level.

## GLOSSARY OF TABLE HEADINGS

### Fiber Properties - Measured by High Volume Instrument (HVI®)

Micronaire - A relative measure of fiber linear density (mass per unit length) determined by air permeability.

Length - An instrument measurement of fiber length, expressed in hundredths of an inch, approximates the classer's staple length.

Uniformity - A measure of the uniformity of fiber length in a sample, measured as the ratio of mean length to upper half mean length, expressed as a percentage.

Strength - The force required to rupture (or break) a fiber sample, expressed in grams per tex.

Elongation - The amount that a fiber sample will stretch prior to breakage. This is a measure of the deformation of fiber at rupture expressed as percent change in length based on the original fiber length.

Leaf Index <sup>1/</sup>- The visual estimate of the amount of cotton plant leaf material that remains in the lint after the ginning process, ranging from 1(low) to 7(high).

Rd - Degree of reflectance. This measures how light or dark the fiber sample is, expressed as a percentage. Lower Rd values indicate a grayer sample.

+b - yellowness. This measures the degree of color pigmentation. Higher +b values indicate yellower samples.

Color Grade - A function of the Rd and +b of the fiber sample. The color grade indicates the quadrant of the Nickerson-Hunter cotton colorimeter diagram in which Rd and +b values intersect.<sup>2/</sup>

<sup>1/</sup>*Plot stripper used to harvest these tests is not equipped with a field cleaner. Experimental gin set-up may not always approximate Leaf Index values obtained at commercial gins.*

<sup>2/</sup>*Fiber quality determinations are made on samples from two reps. If the color grade from these two samples are identical, only one color grade is reported.*

# Notes

Table 1. Locations, soil types, planting dates, harvest dates, and production information for the cotton performance tests in the Texas High Plains, 2018.

<b>Soil Type</b>	<b>Date Planted</b>	<b>Date Harvested</b>	<b>Production Information</b>
<b>Lubbock Uniform Irrigated</b>			
Acuff Loam	May 10	November 14	fertilizer 80-20-0 lbs/A 3 herbicide applications (1PPI, 1 pre, 1 post) 5 furrow irrigations 16.10 acre inches un, lt drip irrigation 17.6 acre inches (nvst) drip irrigation 17.76 acre inches (rhq) 2 defoliation applications (un, lt) 1 defoliation application (nvst, rhq)
<b>Lubbock Late Planted Irrigated</b>			
Olton Clay Loam	June 12	November 16	
<b>Lubbock New Varieties and Strains</b>			
Olton Clay Loam	May 29	November 28	
<b>Lubbock Regional High Quality</b>			
Acuff Loam	May 29	November 29	
<b>Lubbock Uniform Dryland</b>			
Olton Clay Loam	May 11	November 6	fertilizer 80-20-0 lbs/A 3 herbicide application (1PPI, 1 pre, 1 post) 1 defoliant applications 5.29 pre-irrigation for rain simulation 10.41 inches rainfall in season
<b>Halfway Uniform Irrigated</b>			
Pullman Clay Loam	May 17	November 20	fertilizer 32-0-0 and 10-34-0 lbs/A 4 herbicide applications (1pre, 3 post) 1 insecticide application 1 PGR applications 1 defoliant application
<b>Halfway Verticillium Wilt</b>			
Pullman Clay Loam	May 16	November 20	17.2 acre inches in season (uniform) 16.9 acre inches in season (vert)
<b>Lamesa AG-CARES Nematode Irrigated</b>			
Amarillo Fine Sandy Loam	May 14	December 3	130-35-0 lbs/A 32-0-0 lbs/A fertigation 2 herbicide application (1 PPI, 1 pre) 9.6 acre inches in season (pivot) rkn
<b>Lamesa AG-CARES Uniform Irrigated</b>			
Amarillo Fine Sandy Loam	June 6	December 4	9.1 acre inches in season (drip) uni 1 defoliant + boll opener (rkn) 1 defoliant + crop oil (rkn)

Table 2. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	Agronomic Properties								% Open Bolls 25-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
FiberMax FM 2498GLT	1578	29.2	38.7	38.4	31.9	6.7	10.3	7.5	34.7	40	5	32
Seed Source Genetics SSG UA 222X	1530	29.1	39.2	38.8	32.1	5.7	10.4	7.5	29.5	44	4	30
Deltapine DP 1612 B2XF	1481	30.4	37.0	39.3	31.9	5.2	9.4	6.9	29.1	50	4	31
PhytoGen PHY 350 W3FE	1422	26.3	36.5	39.1	32.3	5.3	10.3	7.4	28.2	51	4	32
FiberMax FM 1911GLT	1415	28.2	37.2	39.9	32.8	6.3	12.1	9.0	27.7	51	6	29
International Seed Technology BRS 335	1415	25.9	37.2	37.0	31.0	5.3	9.7	6.6	30.1	39	5	34
PhytoGen PHY 490 W3FE	1394	28.3	37.3	38.0	30.2	5.0	9.2	6.6	28.9	51	4	32
FiberMax FM 1888GL	1383	29.2	37.3	38.5	31.9	6.4	10.6	7.8	31.6	55	5	31
FiberMax FM 2574GLT	1376	28.6	29.6	42.4	35.1	5.4	8.5	7.5	30.7	53	5	33
PhytoGen PHY 480 W3FE	1364	27.2	34.3	37.1	29.9	5.3	9.4	6.8	28.8	46	5	31
Deltapine DP 1845 B3XF	1338	27.0	31.9	40.6	33.2	4.6	8.3	6.9	27.1	45	5	33
Deltapine DP 1822 XF	1331	28.2	38.4	39.0	32.6	4.7	9.2	6.9	26.3	51	5	31
PhytoGen PHY 340 W3FE	1330	29.8	36.1	39.2	31.6	5.2	8.5	6.6	30.4	58	4	32
PhytoGen PHY 440 W3FE	1314	28.1	37.0	39.3	32.1	5.3	9.6	7.0	29.5	51	4	26
PhytoGen PHY 320 W3FE	1313	24.6	33.6	38.9	30.8	5.2	9.4	7.0	28.8	60	5	31
International Seed Technology BRS 372	1290	28.3	39.6	36.4	29.9	5.3	10.2	6.9	28.2	36	5	34
PhytoGen PHY 499 WRF	1285	26.9	36.8	39.1	32.1	4.7	9.0	6.7	27.0	48	5	33
NexGen NG 4777 B2XF	1281	26.4	35.7	37.5	31.6	5.6	9.8	7.0	29.9	60	5	36
Tamcot 73	1280	27.4	38.4	35.5	28.8	5.4	9.7	6.3	30.3	49	5	29
PhytoGen PHY 430 W3FE	1278	26.7	33.5	35.9	29.3	5.1	9.8	6.9	26.6	56	5	30
International Seed Technology BRS 286	1265	27.5	40.9	36.8	30.8	4.8	9.4	6.2	28.7	58	4	33
PhytoGen PHY 250 W3FE	1246	26.8	36.8	37.1	30.1	5.5	10.2	7.2	28.5	56	6	28
NexGen NG 4689 B2XF	1205	26.8	35.7	39.4	32.5	6.0	9.9	7.3	32.1	54	4	35
Deltapine DP 1646 B2XF	1200	29.0	32.9	41.8	34.2	4.7	7.9	6.6	29.8	49	5	34
International Seed Technology BRS 416	1199	27.4	39.5	36.5	30.8	4.4	9.3	6.0	27.1	39	4	35
NexGen NG 4545 B2XF	1196	27.2	37.4	39.5	32.8	5.3	9.5	7.0	30.2	54	5	33
Seed Source Genetics SSG UA 222	1179	24.0	36.0	37.2	30.7	5.5	10.3	7.1	28.8	43	5	29
NexGen NG 3517 B2XF	1177	25.4	36.0	35.7	29.5	5.4	9.8	6.5	29.7	51	5	33
PCG 713	1166	26.5	38.4	33.5	27.1	5.0	9.6	5.7	29.4	49	4	32
NexGen NG 3780 B2XF	1151	25.3	35.9	36.9	30.0	5.1	9.5	6.6	28.7	53	5	35

Table 2. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	Agronomic Properties								% Open Bolls 25-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
Deltapine DP 1820 B3XF	1124	28.3	32.9	41.3	34.0	4.5	8.2	6.5	28.2	56	5	31
PhytoGen PHY 330 W3FE	1115	26.4	33.6	37.6	29.6	4.8	9.0	6.5	27.5	63	4	30
Brownfield Seed and Delinting BSD 224	1102	29.0	41.1	35.9	29.4	5.4	10.6	6.7	28.8	54	5	29
PhytoGen PHY 300 W3FE	1095	27.7	31.0	39.7	31.8	4.9	8.4	6.6	29.4	58	5	29
Tamcot G11	1076	25.4	38.5	36.5	29.8	6.2	11.2	7.3	30.8	45	5	33
FiberMax FM 1830GLT	1064	26.2	33.8	39.3	31.6	5.2	8.8	6.7	30.3	65	4	30
Seed Source Genetics SSG UA 107	1064	27.3	38.9	37.6	31.1	5.7	11.1	7.3	29.3	64	4	30
Seed Source Genetics SSG UA 114X	1043	25.7	38.9	35.8	28.9	5.5	10.2	6.5	30.6	61	3	32
International Seed Technology BRS 293	1041	25.8	36.8	36.9	30.5	5.5	9.8	6.4	31.4	44	4	31
Brownfield Seed and Delinting BSD 9X	1021	25.6	36.0	36.2	29.2	5.3	10.1	6.5	29.4	56	5	29
PhytoGen PHY 210 W3FE	1002	27.0	37.5	36.5	29.7	5.1	10.2	7.2	26.0	69	6	28
PhytoGen PHY 764 WRF	987	24.2	35.0	37.2	30.0	5.1	10.7	7.3	26.0	49	3	32
PCG 700	955	25.6	38.5	34.0	27.3	5.2	10.7	6.7	26.4	48	4	29
BS&D TonBuster Elite	871	21.7	35.7	36.5	29.5	5.2	10.2	6.4	29.6	50	4	30
Mean	1226	27.0	36.4	37.8	30.9	5.3	9.7	6.9	29.0	52	4	31
c.v.%	14.4	5.2	5.6	2.0	2.1	6.2	4.1	5.0	6.4	16.0	13.8	6.1
LSD 0.05	206	1.6	2.4	1.3	1.1	0.6	0.7	0.6	3.1	10	1	2

Table 2A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
FiberMax FM 2498GLT	5.0	1.18	82.2	31.6	5.9	76.3	7.1	4	41-1
Seed Source Genetics SSG UA 222X	5.0	1.14	81.3	31.1	7.1	73.6	7.3	4	41-1,41-2
Deltapine DP 1612 B2XF	4.8	1.15	81.9	30.9	7.8	72.2	7.3	5	41-2,51-1
PhytoGen PHY 350 W3FE	4.7	1.14	81.8	30.3	7.6	74.1	7.6	4	41-2
FiberMax FM 1911GLT	4.8	1.17	82.3	31.2	6.5	75.0	6.6	5	41-2
International Seed Technology BRS 335	4.7	1.16	82.5	32.0	6.6	74.5	7.2	5	41-2
PhytoGen PHY 490 W3FE	4.7	1.13	82.6	32.6	8.2	73.6	6.8	5	41-2,51-1
FiberMax FM 1888GL	4.7	1.15	82.6	32.4	4.8	74.8	6.6	4	41-2
FiberMax FM 2574GLT	5.1	1.18	81.6	32.1	6.5	74.3	6.4	4	51-1,51-1
PhytoGen PHY 480 W3FE	4.7	1.11	81.9	29.9	8.0	73.7	7.7	3	41-1,41-2
Deltapine DP 1845 B3XF	4.5	1.21	81.9	30.5	8.0	74.5	6.5	6	41-2,51-1
Deltapine DP 1822 XF	4.7	1.18	81.5	33.2	6.5	74.9	7.5	3	41-1
PhytoGen PHY 340 W3FE	4.6	1.11	81.2	29.5	6.6	72.1	7.2	6	41-2
PhytoGen PHY 440 W3FE	4.4	1.18	81.0	32.6	6.8	74.2	7.5	6	41-1,41-2
PhytoGen PHY 320 W3FE	4.6	1.13	83.9	30.9	7.5	73.9	7.5	3	41-1,41-2
International Seed Technology BRS 372	4.9	1.15	82.0	32.7	6.3	76.6	7.3	5	41-1
PhytoGen PHY 499 WRF	4.6	1.13	81.3	31.0	8.3	73.0	7.1	5	41-1,51-1
NexGen NG 4777 B2XF	5.2	1.11	81.6	31.6	5.1	73.5	8.4	3	41-1,41-3
Tamcot 73	4.8	1.14	82.2	33.0	7.0	71.9	7.1	6	41-2,51-1
PhytoGen PHY 430 W3FE	4.9	1.09	80.9	30.0	7.8	72.6	7.7	4	41-1,51-1
International Seed Technology BRS 286	4.6	1.07	81.4	30.4	6.9	75.4	7.2	4	41-1,41-2
PhytoGen PHY 250 W3FE	4.8	1.16	82.7	30.9	6.2	73.0	6.8	4	41-2,51-1
NexGen NG 4689 B2XF	5.5	1.08	82.4	30.2	5.3	73.4	8.4	3	41-1,41-3
Deltapine DP 1646 B2XF	4.6	1.19	81.4	30.4	7.9	76.0	7.1	3	41-1,41-2
International Seed Technology BRS 416	4.8	1.14	82.3	31.2	5.8	74.6	7.6	3	41-1,41-2
NexGen NG 4545 B2XF	5.0	1.12	82.2	31.4	5.0	75.0	7.8	2	41-1
Seed Source Genetics SSG UA 222	4.6	1.19	82.1	30.8	7.5	75.4	7.8	4	41-1
NexGen NG 3517 B2XF	4.8	1.16	82.4	32.6	7.0	75.0	7.4	4	41-1,41-2
PCG 713	4.8	1.15	81.8	30.7	7.0	75.7	7.0	3	41-1,41-2
NexGen NG 3780 B2XF	4.9	1.12	81.2	30.3	7.2	74.4	7.7	3	41-1

Table 2A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Deltapine DP 1820 B3XF	4.8	1.17	81.7	32.1	5.9	75.4	6.8	4	41-2
PhytoGen PHY 330 W3FE	4.7	1.12	82.6	30.3	6.9	74.5	7.7	4	41-1,41-2
Brownfield Seed and Delinting BSD 224	4.9	1.12	80.8	30.7	5.8	71.8	6.8	6	51-1
PhytoGen PHY 300 W3FE	4.9	1.09	81.3	29.9	7.3	72.9	7.7	4	41-2
Tamcot G11	4.6	1.25	81.2	30.4	6.3	75.6	7.3	4	41-1,41-2
FiberMax FM 1830GLT	5.0	1.18	81.7	32.1	5.9	72.7	6.6	5	41-1,51-2
Seed Source Genetics SSG UA 107	4.8	1.16	80.9	30.9	6.2	75.0	7.9	3	41-1
Seed Source Genetics SSG UA 114X	4.9	1.14	82.3	30.0	7.2	73.1	7.7	3	41-1,41-2
International Seed Technology BRS 293	5.0	1.13	81.1	31.5	7.0	71.8	6.7	4	41-2,51-2
Brownfield Seed and Delinting BSD 9X	4.8	1.11	81.0	30.6	5.8	74.4	7.1	5	41-2
PhytoGen PHY 210 W3FE	4.8	1.11	81.3	30.3	5.5	75.8	6.8	4	41-1,41-2
PhytoGen PHY 764 WRF	4.4	1.16	83.2	33.6	6.7	73.0	7.8	5	41-1,41-2
PCG 700	4.7	1.17	81.1	31.6	6.4	74.7	7.1	4	41-2
BS&D TonBuster Elite	4.9	1.08	81.6	28.4	7.9	74.0	7.4	4	41-1,41-2
Mean	4.8	1.14	81.8	31.1	6.7	74.1	7.3	4	
c.v.%	4.4	2.1	1.1	3.3	7.9	1.8	5.4	28.9	
LSD 0.05	0.4	0.04	1.5	1.7	0.9	2.2	0.7	2	

Table 3. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Yield	Agronomic Properties								% Open bolls 2-Oct	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
Deltapine DP 1822 XF	1639	28.5	39.6	34.0	28.2	6.8	11.5	6.7	34.4	71	5	35
FiberMax FM 2574GLT	1602	30.5	34.5	39.7	34.0	7.4	10.1	7.2	40.5	40	5	38
PhytoGen PHY 250 W3FE	1556	28.1	37.3	35.3	29.2	7.0	12.0	7.3	34.0	70	6	32
PhytoGen PHY 350 W3FE	1544	27.0	38.5	32.1	28.2	8.0	11.6	6.3	41.0	64	5	37
FiberMax FM 2498GLT	1521	27.0	34.3	36.6	31.0	8.4	11.8	7.7	40.1	45	5	38
PhytoGen PHY 320 W3FE	1513	27.1	37.7	34.5	30.2	7.3	10.2	5.9	43.0	65	5	35
PhytoGen PHY 210 W3FE	1498	28.7	37.5	36.7	29.9	6.6	10.8	6.9	35.1	76	7	29
International Seed Technology BRS 286	1475	26.4	40.2	36.0	30.8	7.3	11.6	6.9	37.8	69	4	37
NexGen NG 4777 B2XF	1466	27.2	38.2	36.0	30.4	8.2	10.2	6.3	46.3	64	6	38
Brownfield Seed and Delinting BSD 9X	1443	27.6	39.8	35.8	29.4	7.2	11.6	7.0	36.8	83	6	32
NexGen NG 3517 B2XF	1413	26.7	38.2	35.2	29.5	6.6	10.9	6.5	35.8	81	5	37
PhytoGen PHY 430 W3FE	1398	27.5	34.6	37.3	29.9	6.6	9.9	6.3	39.4	74	6	33
FiberMax FM 1830GLT	1389	28.1	35.7	38.2	32.5	7.6	10.4	7.0	41.6	69	5	35
FiberMax FM 1888GL	1383	27.9	38.6	35.5	30.2	8.2	12.0	7.4	39.5	69	6	32
PCG 713	1364	27.8	41.5	32.7	27.8	6.8	10.5	5.7	39.7	71	3	35
Deltapine DP 1612 B2XF	1356	27.8	39.0	34.8	28.7	6.7	10.9	6.5	36.4	84	4	32
NexGen NG 4689 B2XF	1346	27.8	37.9	35.5	29.7	7.5	11.0	6.7	40.1	55	5	36
PhytoGen PHY 499 WRF	1343	25.8	35.5	34.0	28.6	7.3	10.9	6.3	39.9	65	4	39
Tamcot 73	1330	26.0	40.3	30.6	26.7	7.1	10.7	5.3	41.7	76	5	31
NexGen NG 3780 B2XF	1328	26.2	38.4	34.6	28.7	6.8	10.0	5.8	40.7	79	4	37
Deltapine DP 1845 B3XF	1327	29.3	35.3	33.7	28.6	7.3	9.6	5.8	42.7	49	5	35
Brownfield Seed and Delinting BSD 224	1322	27.2	39.7	30.5	25.4	7.4	12.0	6.2	36.0	80	6	30
FiberMax FM 1911GLT	1309	28.1	36.4	34.8	30.1	7.0	12.9	7.6	32.3	51	6	31
PhytoGen PHY 300 W3FE	1307	28.0	35.7	35.7	29.0	6.9	9.7	6.0	41.4	76	6	36
PhytoGen PHY 490 W3FE	1268	26.3	34.7	31.8	27.3	6.0	10.4	5.4	35.2	59	6	35
International Seed Technology BRS 335	1227	26.6	38.9	32.5	28.0	7.4	10.9	5.8	41.3	60	5	36
PhytoGen PHY 480 W3FE	1226	25.4	35.9	35.1	30.6	7.3	10.8	6.3	40.8	63	6	34
NexGen NG 4545 B2XF	1217	26.9	37.8	34.8	29.3	7.3	11.3	6.7	37.9	58	5	38
Deltapine DP 1820 B3XF	1211	27.0	35.1	37.4	31.8	6.4	10.1	7.0	34.8	79	4	32
Seed Source Genetics SSG UA 222X	1201	26.2	36.6	33.6	28.6	7.1	11.6	6.6	36.3	66	5	31

Table 3. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Yield	Agronomic Properties							% Open bolls 2-Oct	Storm Resistance	Height	
		% Turnout	% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll				
			Lint	Seed	Picked	Pulled						
PhytoGen PHY 340 W3FE	1184	27.1	37.0	33.4	28.6	6.0	9.1	5.1	39.7	74	6	35
Tamcot G11	1172	25.2	38.6	30.8	27.1	8.9	13.3	6.8	40.2	71	5	31
Deltapine DP 1646 B2XF	1170	30.1	35.3	37.4	31.0	6.7	9.8	6.7	37.1	50	5	37
PhytoGen PHY 330 W3FE	1167	26.9	35.9	36.7	30.3	6.1	9.3	6.0	37.6	78	6	33
PhytoGen PHY 440 W3FE	1167	26.1	36.0	35.4	29.6	6.5	11.0	6.7	34.6	51	6	33
Seed Source Genetics SSG UA 107	1151	27.6	38.9	34.0	29.1	7.0	11.1	6.4	37.5	86	5	32
Seed Source Genetics SSG UA 222	1114	25.2	35.7	32.6	27.9	7.7	12.2	6.7	37.5	60	5	35
International Seed Technology BRS 416	1099	25.9	34.5	32.7	29.3	6.6	11.0	6.0	36.3	46	4	38
PhytoGen PHY 764 WRF	1056	24.7	35.4	33.5	29.0	7.1	11.4	6.6	36.5	65	3	37
Seed Source Genetics SSG UA 114X	1042	24.9	38.3	28.8	24.4	7.1	10.9	5.1	40.1	79	4	33
BS&D TonBuster Elite	1009	25.9	39.7	34.1	27.4	6.8	11.3	6.5	35.8	71	4	34
International Seed Technology BRS 293	895	26.5	38.2	33.9	27.7	7.6	12.0	6.7	38.4	50	5	36
International Seed Technology BRS 372	867	23.9	35.3	32.2	26.2	6.9	12.0	6.3	34.6	49	4	39
PCG 700	805	23.0	37.5	33.7	28.5	6.9	11.7	6.5	35.9	84	4	30
Mean	1282	26.9	37.3	34.4	29.0	7.1	11.0	6.4	38.3	66	5	34
c.v.%	10.0	4.4	4.8	2.5	1.8	7.7	5.0	5.1	7.9	13.7	15.8	6.6
LSD 0.05	150	1.4	2.1	1.4	0.9	0.9	0.9	0.5	5.1	11	1	3

Table 3A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Deltapine DP 1822 XF	3.5	1.18	81.7	33.5	6.6	77.7	7.1	3	31-2,41-1
FiberMax FM 2574GLT	4.0	1.14	81.4	31.3	6.4	76.6	6.6	5	41-1,41-2
PhytoGen PHY 250 W3FE	3.5	1.09	81.3	31.7	6.5	77.9	7.2	3	31-1,41-1
PhytoGen PHY 350 W3FE	3.3	1.13	80.4	29.8	8.6	76.8	7.5	3	31-2,41-1
FiberMax FM 2498GLT	3.8	1.16	81.4	30.2	6.9	77.2	7.2	3	31-2,41-1
PhytoGen PHY 320 W3FE	3.5	1.11	82.6	31.2	8.1	76.6	7.1	5	41-1
PhytoGen PHY 210 W3FE	3.7	1.11	82.7	31.2	6.2	76.8	6.7	4	41-1,41-2
International Seed Technology BRS 286	3.6	1.07	80.4	31.2	7.2	75.4	7.1	4	41-1,41-2
NexGen NG 4777 B2XF	3.8	1.10	81.3	31.1	5.4	74.7	7.6	2	41-1,41-2
Brownfield Seed and Delinting BSD 9X	3.5	1.12	81.0	31.6	5.8	75.7	6.5	4	41-1,41-2
NexGen NG 3517 B2XF	3.9	1.16	81.8	31.9	8.1	74.2	7.2	3	41-1,41-2
PhytoGen PHY 430 W3FE	3.6	1.05	80.8	29.3	7.6	73.9	7.6	4	41-1,41-2
FiberMax FM 1830GLT	3.5	1.15	81.1	30.4	6.5	77.3	6.8	3	41-1,41-2
FiberMax FM 1888GL	3.7	1.13	81.8	31.3	5.1	75.7	6.6	4	41-2
PCG 713	3.7	1.12	81.5	31.1	7.0	76.0	7.0	4	41-1
Deltapine DP 1612 B2XF	3.5	1.10	81.3	31.5	9.0	73.1	6.8	5	41-2,511
NexGen NG 4689 B2XF	3.6	1.10	81.8	31.5	6.3	75.6	7.6	3	41-1
PhytoGen PHY 499 WRF	3.2	1.12	81.5	30.8	8.4	73.6	6.9	5	41-2
Tamcot 73	3.3	1.12	81.4	31.7	7.2	74.0	6.5	4	41-2,51-1
NexGen NG 3780 B2XF	3.3	1.09	79.6	30.7	8.0	74.4	7.3	4	41-1,41-2
Deltapine DP 1845 B3XF	3.3	1.21	81.2	31.3	8.7	76.4	6.4	4	41-1,41-2
Brownfield Seed and Delinting BSD 224	3.6	1.12	81.8	31.8	5.7	76.2	6.6	5	41-2
FiberMax FM 1911GLT	3.4	1.15	81.5	31.2	6.8	77.6	6.4	4	31-2,41-2
PhytoGen PHY 300 W3FE	3.4	1.09	80.7	30.7	7.4	74.9	7.4	4	41-1,41-2
PhytoGen PHY 490 W3FE	3.5	1.12	81.4	31.3	8.9	76.9	7.3	4	41-1
International Seed Technology BRS 335	3.2	1.11	81.2	30.6	7.3	75.6	6.9	4	41-1,41-2
PhytoGen PHY 480 W3FE	3.0	1.12	81.2	30.1	8.7	75.8	7.4	4	41-1
NexGen NG 4545 B2XF	3.7	1.09	80.3	30.1	7.0	74.8	7.5	4	41-1,41-2
Deltapine DP 1820 B3XF	3.9	1.14	81.9	30.2	6.6	76.4	7.2	3	41-1,41-2
Seed Source Genetics SSG UA 222X	3.2	1.17	80.1	30.6	8.7	76.4	6.9	4	41-1,41-2

Table 3A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 340 W3FE	3.3	1.11	80.4	29.5	6.6	74.0	7.0	5	41-2
Tamcot G11	3.1	1.13	80.9	30.6	7.0	77.2	7.2	3	41-1
Deltapine DP 1646 B2XF	3.4	1.16	79.9	28.8	7.6	79.3	7.0	3	31-2
PhytoGen PHY 330 W3FE	3.4	1.11	79.9	30.2	7.0	74.5	7.2	3	41-1,41-2
PhytoGen PHY 440 W3FE	2.6	1.19	79.8	31.5	6.6	76.3	6.8	4	41-1
Seed Source Genetics SSG UA 107	3.6	1.13	81.7	30.7	5.8	76.5	7.1	3	31-2,41-2
Seed Source Genetics SSG UA 222	3.1	1.14	81.1	31.2	8.4	75.2	6.7	5	41-1,51-1
International Seed Technology BRS 416	3.5	1.10	80.6	30.3	6.8	75.5	7.9	3	31-2,41-1
PhytoGen PHY 764 WRF	3.4	1.16	82.7	33.7	7.4	75.4	7.9	3	41-1
Seed Source Genetics SSG UA 114X	3.6	1.11	81.9	31.3	8.3	73.3	7.1	4	41-2
BS&D TonBuster Elite	3.6	1.08	80.4	29.7	7.4	74.2	7.5	3	41-2
International Seed Technology BRS 293	3.5	1.09	80.6	31.2	7.3	75.7	7.2	3	41-1,41-2
International Seed Technology BRS 372	3.4	1.07	81.0	31.7	6.7	74.6	7.0	4	41-1,41-2
PCG 700	3.6	1.11	80.6	30.5	7.4	74.7	7.3	4	41-1,41-2
Mean	3.4	1.11	81.1	30.9	7.2	75.7	7.1	4	
c.v.%	6.3	2.4	1.0	3.1	7.9	1.7	4.6	24.5	
LSD 0.05	0.7	0.05	1.4	1.6	1.0	2.2	0.5	1	

Table 4. Yield and agronomic property data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Yield	Agronomic Properties								% Open Bolls	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
PhytoGen PHY 320 W3FE	1228	26.5	37.8	39.2	30.3	5.3	9.4	6.4	32.4	63	5	23
FiberMax FM 2498GLT	1187	28.4	39.4	40.1	30.9	6.1	9.8	7.0	35.3	59	5	24
PhytoGen PHY 499 WRF	1167	27.8	40.1	39.0	31.3	5.4	9.6	6.6	32.0	66	4	27
PhytoGen PHY 480 W3FE	1164	27.2	37.8	40.6	31.2	5.1	8.7	6.2	33.5	69	5	25
PhytoGen PHY 210 W3FE	1149	28.7	38.8	40.0	30.9	5.0	9.9	7.1	28.5	80	6	19
PhytoGen PHY 300 W3FE	1134	25.8	37.5	39.4	30.8	4.9	8.5	6.0	32.4	70	6	18
Deltapine DP 1822 XF	1122	27.0	40.9	38.6	30.9	4.8	9.7	6.5	28.6	70	4	22
Deltapine DP 1612 B2XF	1113	27.7	39.9	38.0	30.8	5.0	9.3	6.2	30.5	74	4	19
PhytoGen PHY 350 W3FE	1113	26.4	40.1	37.0	28.6	5.4	11.3	7.2	28.4	63	5	24
FiberMax FM 1888GL	1094	26.8	41.0	37.2	29.9	7.0	11.2	7.0	36.9	68	5	24
International Seed Technology BRS 416	1076	27.0	40.1	38.8	30.2	4.3	8.7	5.9	28.1	60	3	27
PhytoGen PHY 250 W3FE	1072	27.5	37.7	37.3	29.0	5.5	9.1	5.8	36.0	76	6	19
Deltapine DP 1646 B2XF	1066	25.7	36.5	41.5	32.9	4.9	8.4	6.4	31.8	54	5	24
PhytoGen PHY 440 W3FE	1060	26.5	39.3	37.2	28.4	5.2	8.9	5.6	34.2	55	5	25
FiberMax FM 1911GLT	1051	27.6	38.8	39.1	30.3	6.9	11.8	8.2	32.7	72	6	18
PhytoGen PHY 490 W3FE	1033	24.8	37.8	37.5	29.3	4.9	8.8	5.7	32.3	55	4	24
PCG 713	1032	24.8	41.1	36.0	28.6	5.2	9.7	5.8	32.0	65	4	26
NexGen NG 4545 B2XF	1019	27.5	40.5	39.7	31.6	5.4	10.7	7.5	28.3	64	5	28
NexGen NG 3780 B2XF	1018	26.4	40.3	38.0	30.2	5.5	9.7	6.3	33.1	73	4	26
NexGen NG 4689 B2XF	1013	27.0	39.8	38.7	31.0	5.7	9.5	6.4	34.5	69	5	28
PhytoGen PHY 430 W3FE	1012	27.3	34.6	43.8	33.7	5.2	9.1	7.4	30.6	70	5	21
PhytoGen PHY 340 W3FE	995	27.0	38.8	35.9	27.8	4.7	8.7	5.4	30.8	74	5	21
NexGen NG 4777 B2XF	992	26.2	39.8	39.7	32.6	5.8	9.9	6.9	33.8	59	5	30
FiberMax FM 2574GLT	979	27.3	39.3	40.4	31.3	5.3	9.2	6.7	31.9	64	5	24
International Seed Technology BRS 286	976	24.2	38.2	36.1	28.7	5.0	10.0	6.0	30.3	76	3	25
International Seed Technology BRS 372	954	27.5	38.5	38.1	30.7	5.5	9.5	6.3	33.3	75	4	22
NexGen NG 3517 B2XF	952	25.0	38.8	37.2	29.5	6.0	9.6	6.0	36.9	75	4	27
Seed Source Genetics SSG UA 222	950	28.1	40.9	38.3	31.3	5.6	10.9	7.2	30.0	65	4	23
Brownfield Seed and Delinting BSD 9X	941	26.6	41.1	37.5	29.4	5.6	10.4	6.6	31.3	74	5	22
Seed Source Genetics SSG UA 114X	932	26.2	41.9	37.7	30.8	5.9	10.3	6.7	33.4	74	3	24

Table 4. Yield and agronomic property data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Yield	Agronomic Properties								% Open Bolls 17-Oct	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
International Seed Technology BRS 335	929	25.4	38.0	36.3	28.4	5.1	9.4	5.6	33.1	65	4	26
Seed Source Genetics SSG UA 222X	927	28.0	42.4	37.4	31.4	5.7	10.5	6.8	31.6	56	4	25
Deltapine DP 1845 B3XF	915	27.1	40.2	38.5	30.3	5.2	8.4	5.7	35.1	51	5	23
Tamcot 73	913	27.7	41.8	37.2	30.6	5.6	9.4	6.0	34.6	79	5	19
PhytoGen PHY 764 WRF	904	24.4	39.0	37.9	29.7	5.1	10.1	6.6	29.3	65	4	24
Seed Source Genetics SSG UA 107	876	26.7	40.3	37.4	30.2	5.7	10.8	7.0	30.4	76	4	24
International Seed Technology BRS 293	873	25.5	39.3	37.0	29.7	6.0	10.3	6.4	34.7	66	4	24
BS&D TonBuster Elite	868	25.7	41.4	36.0	28.5	5.2	9.9	6.0	31.5	78	3	24
Deltapine DP 1820 B3XF	862	24.6	35.1	39.7	30.3	4.7	8.3	5.7	32.6	66	3	24
Brownfield Seed and Delinting BSD 224	849	25.7	41.8	36.7	28.3	5.6	11.5	7.1	29.8	70	5	26
FiberMax FM 1830GLT	840	28.1	38.8	39.9	31.5	5.5	9.1	6.5	33.6	74	5	23
Tamcot G11	786	26.5	40.4	35.8	28.6	6.0	11.2	6.7	32.1	69	4	24
PhytoGen PHY 330 W3FE	775	24.0	35.1	39.0	29.4	6.1	7.9	5.4	43.7	63	5	24
PCG 700	774	24.7	40.9	37.0	28.8	5.3	9.5	6.1	32.5	78	5	18
Mean	993	26.5	39.3	38.2	30.2	5.4	9.7	6.4	32.4	68	4	23
c.v.%	19.3	4.3	4.6	1.8	2.4	10.0	6.6	7.4	12.1	11.7	18.8	14.2
LSD 0.05	224	1.3	2.1	1.1	1.2	0.9	1.1	0.8	6.6	9	1	4

Table 4A. Fiber quality data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 320 W3FE	3.8	1.11	80.9	29.4	7.1	77.6	8.0	4	31-1
FiberMax FM 2498GLT	4.5	1.16	80.4	30.3	5.8	78.8	7.5	4	31-1,41-1
PhytoGen PHY 499 WRF	3.6	1.12	81.7	30.5	7.6	76.5	7.9	5	31-2,41-1
PhytoGen PHY 480 W3FE	3.7	1.12	80.9	30.0	7.4	76.9	7.5	5	31-2,41-1
PhytoGen PHY 210 W3FE	4.8	1.11	81.6	31.3	5.8	77.8	7.0	4	41-1
PhytoGen PHY 300 W3FE	3.6	1.09	80.2	29.6	6.8	76.8	7.9	4	31-2,41-1
Deltapine DP 1822 XF	3.7	1.18	80.0	31.5	6.0	78.2	7.8	3	31-1,31-2
Deltapine DP 1612 B2XF	3.9	1.10	79.3	30.1	7.0	74.7	7.5	6	41-1,41-2
PhytoGen PHY 350 W3FE	3.5	1.13	80.1	29.7	6.9	79.4	7.8	3	21-2,31-1
FiberMax FM 1888GL	3.6	1.13	81.1	32.0	5.4	77.9	6.8	5	41-1
International Seed Technology BRS 416	3.9	1.10	79.2	29.6	6.4	76.4	7.9	4	31-2,41-4
PhytoGen PHY 250 W3FE	4.2	1.09	80.0	29.8	5.8	78.8	6.9	3	31-2,41-1
Deltapine DP 1646 B2XF	3.2	1.16	79.4	29.7	7.3	79.0	7.8	4	31-1
PhytoGen PHY 440 W3FE	2.9	1.19	79.6	31.0	5.8	77.5	7.4	5	31-2,41-1
FiberMax FM 1911GLT	3.4	1.15	80.8	31.6	6.2	78.9	7.4	3	31-1,31-2
PhytoGen PHY 490 W3FE	3.3	1.12	80.7	30.5	6.8	77.2	7.8	4	31-1,41-1
PCG 713	3.5	1.12	79.8	31.0	7.0	76.3	8.2	4	31-2
NexGen NG 4545 B2XF	4.1	1.09	80.5	29.4	5.5	77.3	8.6	4	31-2,31-3
NexGen NG 3780 B2XF	4.7	1.09	80.4	30.2	7.7	76.6	8.0	4	41-1
NexGen NG 4689 B2XF	4.1	1.10	78.5	30.0	5.2	76.4	8.0	3	31-2,41-1
PhytoGen PHY 430 W3FE	4.2	1.05	80.2	29.9	7.4	75.7	8.7	3	31-2,32-2
PhytoGen PHY 340 W3FE	3.9	1.11	79.5	29.9	6.7	77.0	7.5	4	31-2,41-1
NexGen NG 4777 B2XF	4.0	1.10	79.0	29.7	5.7	76.7	8.3	3	31-1,31-2
FiberMax FM 2574GLT	4.0	1.14	79.7	31.0	5.8	77.4	7.0	5	41-1
International Seed Technology BRS 286	3.9	1.07	78.9	30.8	6.9	77.2	7.5	4	31-2,41-1
International Seed Technology BRS 372	4.0	1.07	80.4	31.3	6.7	75.8	7.6	4	41-1
NexGen NG 3517 B2XF	3.7	1.16	80.1	31.5	6.2	76.7	7.4	3	31-2,41-1
Seed Source Genetics SSG UA 222	4.2	1.14	80.7	31.8	8.0	75.3	7.2	6	41-1,41-2
Brownfield Seed and Delinting BSD 9X	4.3	1.12	80.0	31.0	5.5	76.6	6.9	4	41-1,41-2
Seed Source Genetics SSG UA 114X	4.5	1.11	81.0	30.4	6.9	76.0	7.3	4	41-1

Table 4A. Fiber quality data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
International Seed Technology BRS 335	3.6	1.11	80.2	28.5	6.9	77.6	7.7	5	31-1,41-1
Seed Source Genetics SSG UA 222X	4.1	1.17	80.0	30.9	7.0	76.5	7.8	5	31-2,41-1
Deltapine DP 1845 B3XF	3.1	1.21	79.6	30.5	6.8	78.6	7.1	5	31-2
Tamcot 73	4.0	1.12	81.5	31.4	6.9	75.6	7.1	5	31-1,51-1
PhytoGen PHY 764 WRF	3.5	1.16	80.8	32.6	6.7	76.3	7.5	4	41-1
Seed Source Genetics SSG UA 107	4.1	1.13	81.5	32.0	6.2	78.2	7.6	2	31-2
International Seed Technology BRS 293	3.6	1.09	80.6	32.2	7.2	75.2	8.1	4	31-2,41-1
BS&D TonBuster Elite	4.4	1.08	77.4	28.8	7.4	75.0	7.4	5	41-1,41-2
Deltapine DP 1820 B3XF	3.3	1.14	80.3	30.5	6.7	78.5	7.7	5	31-1,31-2
Brownfield Seed and Delinting BSD 224	4.4	1.12	79.5	31.2	6.3	76.5	7.0	5	41-1
FiberMax FM 1830GLT	4.0	1.15	80.0	31.1	6.2	76.8	6.9	4	41-1
Tamcot G11	3.8	1.13	79.5	31.0	6.6	75.6	8.0	4	41-1
PhytoGen PHY 330 W3FE	3.9	1.11	80.2	29.4	6.4	76.7	7.7	4	31-2,41-1
PCG 700	3.7	1.11	79.6	30.4	6.0	76.5	7.6	4	31-2,41-1
Mean	3.8	1.12	80.1	30.5	6.5	76.9	7.6	4	
c.v.%	9.0	2.4	1.3	3.2	6.4	1.6	5.0	25.8	
LSD 0.05	0.6	0.05	1.8	1.7	0.7	2.1	0.6	2	

Table 5. Yield and agronomic property data from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	6-Sep	Resistance	Height
PhytoGen PHY 430 W3FE	565	28.9	31.9	39.5	31.1	4.9	8.2	5.9	32.1	59	5	15
Deltapine DP 1822 XF	513	26.2	31.8	37.3	30.5	4.6	9.5	6.2	27.3	79	6	17
FiberMax FM 1888GL	499	27.9	32.7	37.1	29.5	5.9	10.0	6.5	33.4	70	5	20
FiberMax FM 2498GLT	482	27.0	32.5	36.5	29.8	6.1	9.6	6.2	36.3	48	7	18
FiberMax FM 2574GLT	477	28.7	28.5	41.9	33.3	4.9	7.7	6.2	32.9	66	5	19
PhytoGen PHY 250 W3FE	474	27.1	32.8	37.8	29.2	4.9	9.8	6.5	28.4	75	7	16
PhytoGen PHY 499 WRF	463	26.6	31.3	38.0	30.7	4.6	9.2	6.3	29.8	63	5	19
FiberMax FM 1911GLT	463	26.8	32.6	38.7	29.8	5.6	11.3	7.7	27.9	59	7	15
FiberMax FM 1830GLT	456	26.8	27.8	42.8	34.3	4.9	8.0	6.6	31.8	81	4	15
International Seed Technology BRS 335	448	26.0	33.0	34.9	29.8	5.1	8.5	5.0	35.3	66	6	18
Deltapine DP 1820 B3XF	444	27.5	29.1	35.6	28.0	4.2	8.0	5.7	26.4	80	6	17
PhytoGen PHY 210 W3FE	444	27.2	32.3	39.4	31.1	4.6	8.8	5.7	31.9	76	8	15
PhytoGen PHY 320 W3FE	414	25.4	30.9	37.4	30.3	5.2	9.1	6.2	31.8	71	6	16
Seed Source Genetics SSG UA 222X	413	26.1	33.1	35.3	28.3	5.0	9.5	5.9	30.3	54	4	17
PhytoGen PHY 300 W3FE	410	26.4	29.0	39.0	30.9	4.6	7.8	5.6	32.4	68	6	17
PhytoGen PHY 490 W3FE	407	26.6	30.8	36.9	29.9	4.7	8.2	6.2	28.5	66	6	19
Deltapine DP 1845 B3XF	399	26.0	28.6	39.9	32.6	5.2	7.9	5.8	35.6	54	6	17
NexGen NG 4777 B2XF	399	27.0	32.1	37.7	31.1	5.4	9.2	6.0	33.6	69	6	18
Tamcot 73	398	23.8	34.1	32.5	26.5	5.1	8.5	4.6	35.9	68	5	15
PhytoGen PHY 350 W3FE	386	24.3	31.0	37.7	29.4	4.6	9.0	6.2	27.7	65	6	18
Deltapine DP 1612 B2XF	385	23.5	28.7	37.2	29.7	5.0	9.6	6.4	29.0	69	4	15
PhytoGen PHY 330 W3FE	376	25.1	26.8	39.6	31.3	4.8	8.3	6.0	31.7	70	6	19
PhytoGen PHY 340 W3FE	375	27.1	28.2	39.8	31.9	4.8	10.2	7.4	27.2	75	5	17
PhytoGen PHY 480 W3FE	375	25.0	29.6	35.7	28.9	4.8	8.3	5.3	32.1	58	6	15
PCG 713	374	23.9	30.1	35.0	28.2	5.1	8.7	5.1	35.2	47	4	19
Brownfield Seed and Delinting BSD 224	371	24.4	32.3	35.1	28.4	5.1	10.1	5.9	30.2	71	7	15
Seed Source Genetics SSG UA 222	370	24.6	31.7	37.4	30.0	5.5	9.8	6.3	32.6	41	4	16
International Seed Technology BRS 416	367	24.9	29.5	38.5	32.2	3.8	8.2	5.4	27.2	60	5	18
Deltapine DP 1646 B2XF	361	27.2	28.3	39.3	31.6	4.7	7.5	5.5	33.2	49	5	18
Brownfield Seed and Delinting BSD 9X	361	24.3	33.0	34.9	27.1	5.3	9.6	5.7	32.3	71	7	13

Table 5. Yield and agronomic property data from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	% Turnout				Agronomic Properties				% Open		
		Lint	Seed	Picked	Pulled	Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 6-Sep	Storm Resistance	Height
International Seed Technology BRS 286	355	22.4	29.9	32.9	26.8	4.5	8.8	5.0	29.1	66	4	16
International Seed Technology BRS 293	350	24.4	31.7	34.1	27.7	5.3	8.6	5.1	35.6	44	5	19
NexGen NG 3517 B2XF	344	26.0	32.6	37.4	30.5	5.1	8.7	5.6	33.8	65	5	18
NexGen NG 4545 B2XF	341	25.0	29.8	36.1	28.8	4.7	8.6	5.4	31.4	70	6	18
Seed Source Genetics SSG UA 114X	340	24.3	32.5	34.4	27.1	5.0	9.3	5.6	30.5	75	4	19
PhytoGen PHY 440 W3FE	331	25.2	30.1	39.3	30.8	4.8	8.7	6.2	30.4	50	6	15
NexGen NG 3780 B2XF	327	25.8	31.5	36.3	28.6	4.6	8.4	5.3	31.4	61	4	16
International Seed Technology BRS 372	320	25.1	31.1	34.5	27.8	4.9	8.5	5.2	32.9	59	6	19
Seed Source Genetics SSG UA 107	319	25.7	33.6	35.3	29.2	5.5	10.1	6.0	32.2	76	4	18
NexGen NG 4689 B2XF	314	24.8	29.0	38.5	30.8	5.4	8.9	6.1	34.4	74	6	17
BS&D TonBuster Elite	312	22.3	31.8	36.0	28.9	5.1	9.4	5.6	32.4	74	4	16
Tamcot G11	302	22.8	31.1	33.3	26.9	5.6	9.6	5.4	34.6	41	5	15
PCG 700	278	23.2	34.1	34.6	27.0	4.9	10.4	6.0	28.8	68	5	14
PhytoGen PHY 764 WRF	259	21.7	28.7	34.6	27.9	4.3	8.9	5.2	29.2	63	3	17
Mean	390	25.5	30.9	36.9	29.6	5.0	8.9	5.8	31.5	64	5	17
c.v.%	18.6	4.0	5.2	1.8	1.9	5.3	8.8	10.4	9.2	14.1	15.5	15.6
LSD 0.05	85	1.2	1.9	1.1	0.9	0.4	1.3	1.0	4.9	11	1	3

Table 5A. Fiber quality data from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 430 W3FE	4.5	1.02	79.8	28.1	7.6	70.8	9.4	3	42-1
Deltapine DP 1822 XF	4.7	1.07	79.8	28.7	6.1	71.3	7.8	5	41-2,51-1
FiberMax FM 1888GL	4.7	1.04	79.3	28.3	5.0	71.1	7.8	4	51-1
FiberMax FM 2498GLT	4.8	1.07	80.1	28.5	6.1	72.1	8.4	3	41-2,42-2
FiberMax FM 2574GLT	4.9	1.09	80.0	28.8	6.1	73.3	7.4	4	41-2
PhytoGen PHY 250 W3FE	4.6	1.04	79.5	27.8	5.7	72.3	7.8	5	41-2
PhytoGen PHY 499 WRF	4.7	1.04	80.8	29.1	8.3	69.3	7.9	5	51-3
FiberMax FM 1911GLT	4.3	1.09	80.7	29.4	5.9	72.0	7.5	5	41-2,51-1
FiberMax FM 1830GLT	4.8	1.08	79.7	28.9	5.9	71.3	7.8	4	41-2,51-1
International Seed Technology BRS 335	4.5	1.05	80.0	27.7	6.3	72.1	7.5	5	41-2,51-1
Deltapine DP 1820 B3XF	4.9	1.08	79.7	29.1	5.7	70.8	7.8	4	41-4,51-1
PhytoGen PHY 210 W3FE	4.9	1.04	81.1	29.1	5.6	70.7	8.1	4	51-3
PhytoGen PHY 320 W3FE	4.8	1.06	80.5	27.9	6.8	71.0	8.1	4	41-4,51-1
Seed Source Genetics SSG UA 222X	4.9	1.07	81.3	28.8	7.5	69.9	8.3	5	41-4,51-3
PhytoGen PHY 300 W3FE	4.8	1.02	80.6	28.1	6.8	68.0	9.0	5	52-1
PhytoGen PHY 490 W3FE	4.6	1.06	81.2	30.1	8.0	70.3	7.9	4	51-3
Deltapine DP 1845 B3XF	4.7	1.12	81.0	29.8	7.0	69.6	7.8	7	41-4,51-1
NexGen NG 4777 B2XF	4.9	1.05	79.9	27.9	4.8	69.7	8.9	4	42-2
Tamcot 73	4.4	1.05	79.7	30.2	6.9	70.0	8.2	4	41-4,52-1
PhytoGen PHY 350 W3FE	4.8	1.06	80.0	27.7	6.8	70.3	8.4	4	41-4,42-2
Deltapine DP 1612 B2XF	4.8	1.06	80.9	28.6	8.8	67.6	8.4	6	52-1
PhytoGen PHY 330 W3FE	4.7	1.05	79.7	27.2	5.8	68.8	8.7	4	52-1
PhytoGen PHY 340 W3FE	4.8	1.05	79.4	27.8	6.4	68.6	9.2	4	42-2
PhytoGen PHY 480 W3FE	4.5	1.04	80.6	28.9	8.3	69.7	8.7	4	42-2,52-1
PCG 713	4.7	1.06	79.6	28.0	6.6	70.2	8.2	3	51-3
Brownfield Seed and Delinting BSD 224	4.7	1.02	79.5	27.5	5.4	71.4	7.9	4	41-2,41-4
Seed Source Genetics SSG UA 222	4.4	1.07	80.3	28.3	7.6	70.2	7.8	5	51-1,51-3
International Seed Technology BRS 416	4.9	1.06	80.8	27.2	5.3	69.7	8.3	3	41-4,51-3
Deltapine DP 1646 B2XF	4.6	1.11	78.9	27.6	7.3	72.5	7.8	4	41-2
Brownfield Seed and Delinting BSD 9X	4.6	1.06	79.9	28.6	5.3	70.1	8.2	4	41-4,51-3

Table 5A. Fiber quality data from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
International Seed Technology BRS 286	4.6	0.99	78.4	28.1	6.9	70.6	8.0	3	41-2,51-3
International Seed Technology BRS 293	4.7	1.04	80.5	29.2	7.3	71.2	8.1	3	41-4,51-3
NexGen NG 3517 B2XF	4.9	1.05	79.5	27.6	6.5	70.2	8.6	3	41-4,42-2
NexGen NG 4545 B2XF	5.2	1.04	80.3	28.1	5.5	69.3	8.5	5	42-2,52-1
Seed Source Genetics SSG UA 114X	5.0	1.06	80.4	28.6	7.3	67.2	8.6	4	52-1
PhytoGen PHY 440 W3FE	4.2	1.09	80.2	29.5	6.2	70.2	8.6	4	41-4,42-2
NexGen NG 3780 B2XF	4.9	1.04	79.7	28.1	7.1	68.9	8.8	4	42-2,52-1
International Seed Technology BRS 372	4.8	1.04	79.3	29.1	6.4	69.2	8.4	3	42-2,51-3
Seed Source Genetics SSG UA 107	4.7	1.06	80.2	27.9	6.5	70.2	8.7	2	41-4,42-2
NexGen NG 4689 B2XF	5.0	1.01	80.0	26.8	5.5	68.5	8.8	4	52-1
BS&D TonBuster Elite	4.9	1.01	80.1	27.0	6.8	68.8	9.0	3	42-2,52-1
Tamcot G11	4.3	1.14	79.2	29.2	5.9	71.0	8.1	4	41-4
PCG 700	4.4	1.10	78.5	29.9	5.9	70.6	8.7	4	41-3,52-1
PhytoGen PHY 764 WRF	4.1	1.08	80.4	31.5	6.9	69.4	8.3	4	51-3,52-1
Mean	4.7	1.06	80.0	28.5	6.5	70.2	8.3	4	
c.v.	3.0	2.2	1.0	3.3	6.8	1.8	3.1	27.2	
LSD 0.05	0.2	0.04	1.3	1.6	0.7	2.2	0.4	2	

**Table 6. Yield summary over four locations of the uniform cotton variety performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2018.**

Designation	Overall Average	Lubbock Irr Rank	Lamesa Irr Rank	Lubbock Dry Rank	Halfway Irr Rank
FiberMax FM 2498GLT	1192	1	2	4	5
Deltapine DP 1822 XF	1151	12	7	2	1
PhytoGen PHY 320 W3FE	1117	15	1	13	6
PhytoGen PHY 350 W3FE	1116	4	9	20	4
FiberMax FM 2574GLT	1109	9	24	5	2
FiberMax FM 1888GL	1090	8	10	3	14
PhytoGen PHY 250 W3FE	1087	22	12	6	3
Deltapine DP 1612 B2XF	1084	3	8	21	16
PhytoGen PHY 499 WRF	1065	17	3	7	18
PhytoGen PHY 430 W3FE	1063	20	21	1	12
FiberMax FM 1911GLT	1060	5	15	8	23
NexGen NG 4777 B2XF	1035	18	23	18	9
PhytoGen PHY 480 W3FE	1032	10	4	24	27
PhytoGen PHY 490 W3FE	1026	7	16	16	25
PhytoGen PHY 210 W3FE	1023	41	5	12	7
International Seed Technology BRS 286	1018	21	25	31	8
Seed Source Genetics SSG UA 222X	1018	2	32	14	30
International Seed Technology BRS 335	1005	6	31	10	26
Deltapine DP 1845 B3XF	995	11	33	17	21
PhytoGen PHY 300 W3FE	987	34	6	15	24
PCG 713	984	29	17	25	15
Tamcot 73	980	19	34	19	19
NexGen NG 3517 B2XF	972	28	27	33	11
PhytoGen PHY 340 W3FE	971	13	22	23	31
NexGen NG 4689 B2XF	970	23	20	40	17
PhytoGen PHY 440 W3FE	968	14	14	36	35
NexGen NG 3780 B2XF	956	30	19	37	20
Deltapine DP 1646 B2XF	949	24	13	29	33
NexGen NG 4545 B2XF	943	26	18	34	28
Brownfield Seed and Delinting BSD 9X	942	40	29	30	10
FiberMax FM 1830GLT	937	36	41	9	13
International Seed Technology BRS 416	935	25	11	28	38
Brownfield Seed and Delinting BSD 224	911	33	40	26	22
Deltapine DP 1820 B3XF	910	31	39	11	29
Seed Source Genetics SSG UA 222	903	27	28	27	37
PhytoGen PHY 330 W3FE	858	32	43	22	34
International Seed Technology BRS 372	858	16	26	38	43
Seed Source Genetics SSG UA 107	853	37	36	39	36
Seed Source Genetics SSG UA 114X	839	38	30	35	40
Tamcot G11	834	35	42	42	32
PhytoGen PHY 764 WRF	802	42	35	44	39
International Seed Technology BRS 293	790	39	37	32	42
BS&D TonBuster Elite	765	44	38	41	41
PCG 700	703	43	44	43	44

Table 7. Yield summaries of the uniform cotton variety performance tests at Texas A&M AgriLife Research Lubbock, Halfway, and AG-CARES farm in Lamesa, 2013-2018.

Lubbock Irrigated								Lamesa Irrigated							
Designation	2014	2015	2016	2017	2018	Avg.	Comp. Average <sup>1/</sup>	Designation	2014	2015	2016	2017	2018	Avg.	Comp. Average <sup>1/</sup>
Five Year Average								Five Year Average							
FiberMax FM 1830GLT	358	841	878	1001	1064	828		FiberMax FM 1830GLT	654	590	1371	1359	840	963	
PhytoGen PHY 499 WRF	526	916	929	927	1285	917		PhytoGen PHY 499 WRF	873	677	1381	1574	1167	1134	
Four Year Average								Four Year Average							
NexGen NG 4545 B2XF	1051	949	1201	1196	1099	1013		NexGen NG 4545 B2XF	975	1254	1174	1019	1106	1049	
Seed Source Genetics SSG UA 222	946	869	896	1179	972	886		Seed Source Genetics SSG UA 222	679	1277	1225	950	1032	975	
Three Year Average								Three Year Average							
Deltapine DP 1612 B2XF		936	1045	1481	1154	1070		Deltapine DP 1612 B2XF		1737	1280	1113	1377	1237	
Deltapine DP 1646 B2XF		876	1011	1200	1029	945		Deltapine DP 1646 B2XF		1566	1411	1066	1348	1208	
FiberMax FM 1911GLT		781	1061	1415	1086	1002		FiberMax FM 1911GLT		1600	1692	1051	1448	1308	
International Seed Technology BRS 293		924	1077	1041	1014	930		International Seed Technology BRS 293		1233	1430	873	1179	1039	
International Seed Technology BRS 335		791	1107	1415	1104	1020		International Seed Technology BRS 335		1768	1627	929	1441	1300	

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Halfway Irrigated								Lubbock Dryland								
Designation	2013	2014	2016	2017	2018	Avg.	Comp. Average <sup>1/</sup>	Designation	2014	2015	2016	2017	2018	Avg.	Comp. Average <sup>1/</sup>	
Five Year Average								Five Year Average								
PhytoGen PHY 499 WRF	1629	836	1357	701	1343	1173		FiberMax FM 1830GLT	452	677	236	421	456	448		
Four Year Average								PhytoGen PHY 499 WRF	362	790	209	667	463	498		
FiberMax FM 1830GLT	764	1874	714	1389	1185	1276		Four Year Average								
Three Year Average								NexGen NG 4545 B2XF	723	221	652	341	484	471		
Deltapine DP 1612 B2XF		2147	586	1356	1363	1387		Seed Source Genetics SSG UA 222		614	211	579	370	444	431	
Deltapine DP 1646 B2XF		1661	519	1170	1117	1141		Three Year Average								
FiberMax FM 1911GLT		1808	830	1309	1316	1340		Deltapine DP 1612 B2XF		182	636	385	401	440		
International Seed Technology BRS 293		1668	665	895	1076	1100		Deltapine DP 1646 B2XF		210	516	361	362	401		
International Seed Technology BRS 335		1793	639	1227	1220	1244		FiberMax FM 1911GLT		201	499	463	388	427		
NexGen NG 4545 B2XF		2140	687	1217	1348	1372		International Seed Technology BRS 293		237	481	350	356	395		
Seed Source Genetics SSG UA 222		1796	778	1114	1229	1253		International Seed Technology BRS 335		208	585	448	414	453		

<sup>1/</sup>Patterson, R.E. 1950. A method of adjustment for calculating comparable yields in variety tests.

Table 8. Yield and agronomic property data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	6-Nov	Resistance	
Stoneville ST 4550GLTP	1343	28.0	36.8	41.8	33.4	5.4	8.4	6.5	34.5	70	5	27
FiberMax FM 958	1265	24.9	37.7	40.0	32.0	5.8	10.5	7.1	32.8	85	6	24
NexGen NG 3517 B2XF	1232	25.4	39.5	37.3	30.3	5.6	10.0	6.3	33.4	84	6	28
NexGen NG 4689 B2XF	1208	24.2	36.6	37.1	29.5	5.5	9.4	5.9	34.9	71	6	30
Deltapine DP 1612 B2XF	1197	23.6	35.5	36.1	29.3	5.3	9.2	5.8	33.1	80	4	25
PhytoGen PX3B07W3FE	1195	26.1	34.6	39.2	30.5	5.3	9.2	6.3	32.6	88	6	20
PhytoGen PX2B10W3FE	1190	21.1	34.7	34.8	26.8	5.6	9.9	5.7	34.9	84	7	26
FiberMax FM 2398GLTP	1176	25.6	34.0	42.1	34.1	5.8	9.0	7.1	34.9	80	5	24
PhytoGen PHY 430 W3FE	1175	23.3	33.5	38.3	29.6	5.2	9.5	6.3	31.8	86	6	23
PhytoGen PHY 300 W3FE	1153	26.7	36.7	39.0	30.1	4.8	9.0	6.2	29.8	95	6	22
PhytoGen PHY 340 W3FE	1120	22.5	32.4	39.3	31.8	4.8	9.3	6.4	29.6	90	5	23
NexGen NG 3406 B2XF	1118	21.8	32.8	38.3	31.0	5.9	10.0	6.6	34.0	74	6	27
PhytoGen PX3B09W3FE	1108	23.7	33.4	37.4	30.2	5.5	9.0	5.8	35.0	84	6	19
PhytoGen PHY 350 W3FE	1105	23.3	36.5	36.2	27.9	5.2	10.1	6.2	30.8	83	5	24
PhytoGen PX2BX1W3FE	1101	21.3	34.2	35.2	27.8	5.5	9.9	5.8	33.9	83	7	23
PhytoGen PHY 320 W3FE	1098	22.2	33.6	34.6	26.7	4.9	8.9	4.6	33.2	90	5	23
NexGen NG 3699 B2XF	1077	22.2	36.4	35.5	28.4	5.6	9.7	5.7	35.3	86	6	27
Deltapine DP 1822 XF	1068	22.0	34.1	37.3	30.5	5.2	10.3	6.5	29.9	74	5	29
Deltapine DP 1908 B3XF	1061	23.5	34.7	37.4	28.8	4.5	8.7	5.6	29.8	89	5	25
PhytoGen PHY 330 W3FE	1059	24.2	32.8	39.2	30.0	5.1	8.5	5.9	33.9	95	5	22
FiberMax FM 1621GL	1053	22.1	30.1	42.9	34.0	5.5	9.1	7.1	33.0	79	5	24
BASF BX 1972GLTP	1039	21.0	38.2	33.3	26.6	4.8	9.6	5.1	31.2	78	5	22
PhytoGen PHY 440 W3FE	1000	22.5	36.6	37.0	29.2	5.0	9.5	5.9	31.0	88	6	25
PhytoGen PX2B12W3FE	982	20.3	31.0	36.9	28.5	5.2	8.3	5.2	36.9	85	6	24
Deltapine DP 1909 XF	981	22.4	31.6	40.0	30.8	4.5	8.7	6.0	29.5	91	5	25
PhytoGen PHY 210 W3FE	961	23.3	35.3	38.9	30.0	5.4	10.0	6.6	31.5	94	7	18
NexGen NG 3780 B2XF	955	19.1	30.2	36.9	29.3	4.7	9.4	5.9	29.6	81	5	27
PhytoGen PHY 480 W3FE	951	19.8	30.7	35.3	28.0	5.4	9.0	5.3	35.8	79	6	26
PhytoGen PX2B04W3FE	944	21.8	36.7	34.4	27.3	5.9	10.4	5.8	34.5	83	7	24
Deltapine DP 1820 B3XF	943	27.0	36.0	42.5	34.8	4.9	8.8	7.1	30.2	84	5	24

Table 8. Yield and agronomic property data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Yield	Agronomic Properties						% Open				
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 6-Nov	Storm Resistance	
		Lint	Seed	Picked	Pulled						Height	
PhytoGen PHY 39 W3FE	940	18.5	30.6	34.1	27.4	5.2	9.5	5.4	33.2	83	7	23
PhytoGen PX3C06W3FE	934	21.5	32.7	36.2	27.8	4.7	8.4	5.3	32.1	86	4	24
PhytoGen PX2BX3W3FE	923	20.8	33.8	32.9	25.7	5.0	9.3	4.9	33.3	83	7	23
PhytoGen PX2BX2W3FE	914	21.1	35.1	34.8	27.2	5.4	9.7	5.6	34.0	79	6	23
PhytoGen PHY 490 W3FE	873	19.8	31.5	37.2	28.8	4.9	8.7	5.5	33.1	75	5	26
PhytoGen PHY 250 W3FE	870	21.9	32.7	37.3	29.3	5.7	9.9	6.3	34.0	91	6	22
Mean	1064	22.7	34.2	37.4	29.5	5.2	9.3	5.9	32.8	83	6	24
c.v.%	15.7	7.5	5.9	3.6	5.0	9.9	3.4	5.7	10.3	5.3	10.4	10.3
LSD 0.05	196	2.0	2.4	2.3	2.5	0.9	0.5	0.6	5.7	5	1	3

Table 8A. Fiber quality data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Stoneville ST 4550GLTP	2.8	1.18	80.5	29.3	8.1	76.6	8.3	6	31-1,41-1
FiberMax FM 958	3.2	1.16	81.2	31.7	6.1	78.5	7.7	3	31-1,31-2
NexGen NG 3517 B2XF	3.3	1.17	81.1	31.5	8.3	76.9	7.8	4	31-2,41-1
NexGen NG 4689 B2XF	3.2	1.13	80.6	30.5	6.4	75.7	8.8	4	31-2,31-3
Deltapine DP 1612 B2XF	3.2	1.17	81.2	29.6	8.8	73.9	7.8	7	41-1,41-2
PhytoGen PX3B07W3FE	2.9	1.20	79.8	30.2	7.3	76.8	7.9	5	41-1,31-2
PhytoGen PX2B10W3FE	2.5	1.21	79.3	28.8	6.8	74.2	7.7	8	41-1,41-2
FiberMax FM 2398GLTP	3.1	1.17	80.9	28.9	7.0	77.4	8.5	4	31-1,31-2
PhytoGen PHY 430 W3FE	2.7	1.17	81.4	29.3	7.3	75.9	9.1	4	31-3
PhytoGen PHY 300 W3FE	3.1	1.14	80.9	29.4	7.4	75.7	8.8	4	31-2,31-3
PhytoGen PHY 340 W3FE	3.1	1.14	80.2	29.4	7.4	76.5	8.3	4	31-1,41-1
NexGen NG 3406 B2XF	2.8	1.15	81.1	28.8	8.7	73.7	9.0	5	41-1,42-1
PhytoGen PX3B09W3FE	2.6	1.17	79.0	29.8	6.8	77.1	8.0	5	31-1,41-1
PhytoGen PHY 350 W3FE	3.0	1.18	80.7	28.8	7.6	77.4	8.2	4	31-1,41-1
PhytoGen PX2BX1W3FE	2.9	1.22	80.7	30.6	7.1	74.9	7.3	7	41-1,41-2
PhytoGen PHY 320 W3FE	2.8	1.18	82.8	30.7	7.9	76.5	8.2	4	31-2
NexGen NG 3699 B2XF	3.0	1.17	80.3	30.6	6.9	74.9	8.3	5	31-2,41-1
Deltapine DP 1822 XF	2.9	1.24	81.0	32.3	6.8	75.8	7.7	5	31-2,41-1
Deltapine DP 1908 B3XF	2.8	1.24	82.0	31.6	7.0	78.6	7.0	5	31-1,41-1
PhytoGen PHY 330 W3FE	3.0	1.15	81.7	30.1	7.5	74.7	8.0	5	41-1
FiberMax FM 1621GL	2.7	1.17	81.0	30.9	7.1	72.2	7.5	7	41-3,51-1
BASF BX 1972GLTP	2.6	1.18	80.1	28.3	8.0	77.5	7.5	4	31-2,41-1
PhytoGen PHY 440 W3FE	2.4	1.22	79.9	29.5	6.8	77.9	7.6	5	31-2
PhytoGen PX2B12W3FE	2.1	1.16	77.0	27.1	7.8	76.4	9.4	4	31-3,32-1
Deltapine DP 1909 XF	2.9	1.21	82.1	31.2	7.1	79.0	7.2	4	31-1,31-2
PhytoGen PHY 210 W3FE	3.0	1.17	82.2	32.7	7.1	78.3	7.6	3	31-1,31-2
NexGen NG 3780 B2XF	2.9	1.18	80.5	31.2	8.1	76.5	8.8	3	21-4,31-2
PhytoGen PHY 480 W3FE	2.5	1.17	81.0	28.7	8.2	77.3	8.8	4	31-1
PhytoGen PX2B04W3FE	2.5	1.22	80.4	29.7	6.7	76.7	8.1	6	31-1,41-1
Deltapine DP 1820 B3XF	2.7	1.24	80.9	32.5	6.9	78.3	7.9	4	31-1,31-2

Table 8A. Fiber quality data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 39 W3FE	2.4	1.20	78.9	29.3	7.1	75.8	7.6	6	31-1,41-2
PhytoGen PX3C06W3FE	3.3	1.16	79.7	29.3	7.7	75.3	8.3	5	41-1
PhytoGen PX2BX3W3FE	2.6	1.18	78.7	28.6	7.5	74.9	8.0	5	41-1
PhytoGen PX2BX2W3FE	2.2	1.18	77.7	27.8	6.8	76.4	8.9	5	22-1,41-1
PhytoGen PHY 490 W3FE	2.7	1.21	82.7	30.6	8.5	73.6	8.1	6	41-1,41-2
PhytoGen PHY 250 W3FE	2.8	1.18	80.6	31.3	6.5	78.8	7.7	3	31-1
Mean	2.8	1.18	80.5	30.0	7.3	76.3	8.1	4	
c.v.%	10.0	1.8	1.0	3.1	5.5	0.7	6.0	24.5	
LSD 0.05	0.5	0.04	1.4	1.6	0.7	2.0	0.8	2	

Table 9. Yield and agronomic property data from the irrigated new cotton variety and strains test at the Texas Tech Research Farm, Lubbock, 2018.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	index	Index	Boll	1-Oct	Resistance	
FiberMax FM 1621GL	1860	30.6	34.6	43.6	36.8	5.7	8.8	7.5	33.5	78	6	35
PhytoGen PX2B04W3FE	1744	28.4	39.6	36.3	30.0	5.9	11.0	6.9	31.1	69	5	32
PhytoGen PX2B10W3FE	1701	27.8	40.0	36.9	31.3	5.3	10.2	6.6	29.8	70	6	30
PhytoGen PX2BX3W3FE	1618	27.4	36.7	36.8	30.0	5.4	9.3	6.1	32.7	66	6	33
FiberMax FM 2398GLTP	1561	30.0	35.5	42.7	35.4	5.8	8.9	7.3	33.9	76	6	31
Monsanto 17R738XF	1560	29.9	39.9	41.2	34.9	5.9	9.0	7.0	34.5	59	5	36
Monsanto 17R818B3XF	1535	31.6	36.5	43.0	35.9	4.7	7.9	6.5	30.9	83	5	33
PhytoGen PX2BX1W3FE	1534	28.4	38.7	37.0	30.5	5.9	10.3	6.8	32.5	61	6	31
PhytoGen PX2B12W3FE	1512	27.9	36.7	36.3	29.8	5.8	9.5	6.1	34.0	65	6	34
PhytoGen PX4A69W3FE	1511	29.7	36.8	39.5	32.6	5.7	9.5	6.9	32.6	70	6	33
Americot AMX 1815 B3XF	1507	27.2	40.7	38.8	31.9	5.2	9.5	6.5	31.0	83	5	31
PhytoGen PX3B07W3FE	1471	29.6	40.5	40.4	33.3	5.3	8.8	6.6	32.4	88	5	30
CPS 1847 XF	1460	27.7	33.3	39.8	33.5	5.5	8.8	6.7	32.6	65	5	33
International Seed Technology BRS 2002-2043/5	1456	27.8	38.8	36.7	31.2	5.5	9.2	5.9	34.4	84	4	36
CPS 18505C B3XF	1438	28.3	40.2	37.3	30.8	5.8	11.0	7.4	29.6	79	4	31
PhytoGen PX3C06W3FE	1422	27.3	35.0	39.4	32.2	4.3	8.0	5.8	29.5	84	5	32
Americot AMX 1816 B3XF	1419	24.8	34.8	35.2	29.3	5.6	9.9	6.1	32.6	89	5	33
TAM 13 Q-18	1417	27.2	36.4	38.1	31.3	4.9	8.7	6.1	30.8	81	5	34
PhytoGen PX2BX2W3FE	1415	27.8	38.6	36.8	30.9	6.0	10.0	6.5	34.2	60	6	32
PhytoGen PHY 36 W3FE	1413	24.9	37.0	35.6	30.3	5.7	9.8	6.0	33.7	63	5	32
Deltapine DP 1948 B3XF	1411	27.1	33.3	37.5	30.2	3.7	7.4	5.3	25.7	46	5	37
Deltapine DP 1909 XF	1409	29.8	38.0	40.5	33.0	4.6	8.0	5.9	31.5	85	3	32
PhytoGen PX3B09W3FE	1409	28.4	35.6	37.1	31.2	5.7	9.2	6.1	34.5	85	6	29
TAM 13 S-03	1403	26.7	42.5	34.1	28.7	5.1	10.2	5.9	29.7	86	5	33
Deltapine DP 1908 B3XF	1379	30.6	38.6	37.7	29.5	4.9	8.4	5.7	32.4	84	4	32
Stoneville ST 4550GLTP	1377	31.0	33.4	41.7	34.4	4.6	8.0	6.5	28.8	80	4	34
Americot AMX 1819 B3XF	1376	28.8	39.9	35.9	30.0	5.4	9.5	6.0	32.5	71	6	33
International Seed Technology BRS 2006-197	1374	27.4	41.6	36.0	30.2	5.2	9.4	6.0	31.3	83	4	35
International Seed Technology BRS 2004-2132	1365	28.1	35.3	37.2	31.8	5.1	8.4	5.6	33.9	88	4	33
Americot AMX 1823 B3XF	1364	28.1	38.1	36.9	31.0	5.1	8.9	5.8	32.6	78	6	28

Table 9. Yield and agronomic property data from the irrigated new cotton variety and strains test at the Texas Tech Research Farm, Lubbock, 2018.

Designation	Yield	Agronomic Properties							% Open Bolls 1-Oct	Storm Resistance	Height	
		% Turnout		% Lint		Boll Size	Seed index	Lint Index				
		Lint	Seed	Picked	Pulled							
Americot AMX 1813 B3XF	1355	28.3	38.0	39.1	32.3	5.1	8.7	6.2	31.9	79	5	30
PhytoGen PX4A64W3FE	1340	28.6	36.0	37.6	30.7	5.4	9.2	6.3	32.4	75	6	31
International Seed Technology BRS 2008-906	1325	29.0	37.2	37.2	30.9	5.2	9.4	6.1	31.5	85	4	36
Monsanto 17R931NRB3XF	1324	26.5	34.5	40.7	32.6	4.7	8.1	6.3	30.0	70	5	35
TAM BB-2139 ELSU	1296	25.5	42.0	32.8	27.4	6.3	11.3	6.2	33.4	74	5	33
Americot AMX 1818 B3XF	1277	27.8	37.0	37.8	30.8	5.2	8.7	6.0	32.8	65	4	36
International Seed Technology BRS 2009-974*	1246	31.5	42.0	38.3	32.1	5.4	10.0	6.7	30.8	84	4	34
CPS 1871 B3XF	1206	25.5	33.9	38.6	32.1	4.7	8.2	5.9	30.3	70	4	35
CPS 18501A B3XF	1203	23.8	37.8	36.0	32.5	5.9	11.2	7.3	29.4	63	4	33
Americot AMX 1801 B3XF	1151	28.9	36.4	39.6	33.6	5.4	8.5	6.1	34.8	86	4	32
BASF BX 1972GLTP	1113	23.6	36.1	34.5	29.1	5.2	9.8	5.7	31.0	81	5	29
15-3-115	1096	25.8	35.6	35.7	29.8	5.0	9.0	5.8	31.3	79	5	35
International Seed Technology BRS 2006-281	1090	21.5	28.3	36.4	30.2	5.1	9.1	5.8	32.2	85	4	36
Americot AMX 1817 B3XF	1080	26.6	32.9	39.3	33.0	5.5	7.9	5.6	38.6	81	5	29
Mean	1398	27.8	37.9	37.1	31.5	5.3	9.2	6.2	32.0	76	5	33
c.v.%	13.4	5.4	1.9	5.7	2.4	8.2	3.5	3.6	9.3	10.4	15.7	6.9
LSD 0.05	220	1.8	1.2	2.5	1.3	0.7	0.5	0.4	5.0	9	1	3

Table 9A. Fiber quality data from the irrigated new cotton variety and strains test at Texas Tech Research Farm, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
FiberMax FM 1621GL	4.3	1.16	82.5	31.0	6.5	74.1	6.5	5	41-2,51-1
PhytoGen PX2B04W3FE	4.1	1.19	81.5	31.6	6.5	76.7	7.0	4	41-1
PhytoGen PX2B10W3FE	3.9	1.19	80.8	29.4	6.3	75.1	6.8	4	41-1,41-2
PhytoGen PX2BX3W3FE	4.2	1.13	80.6	29.8	7.0	75.9	7.0	4	41-1
FiberMax FM 2398GLTP	4.7	1.10	82.3	30.0	8.2	76.2	7.1	3	41-1
Monsanto 17R738XF	3.6	1.18	80.4	30.0	7.2	75.6	6.6	5	41-1,41-2
Monsanto 17R818B3XF	4.2	1.18	82.3	30.4	7.3	78.0	6.0	2	41-1
PhytoGen PX2BX1W3FE	4.0	1.18	81.5	29.3	7.1	74.2	7.5	5	41-1,41-2
PhytoGen PX2B12W3FE	3.8	1.15	80.3	30.5	7.7	75.7	7.2	5	31-2,41-2
PhytoGen PX4A69W3FE	3.8	1.15	80.3	29.9	7.3	78.3	7.1	4	31-2,41-1
Americot AMX 1815 B3XF	3.7	1.12	81.0	30.4	6.6	72.2	5.7	6	51-1,51-2
PhytoGen PX3B07W3FE	4.3	1.13	80.9	29.6	7.0	77.2	6.2	3	41-1,41-2
CPS 1847 XF	4.0	1.13	81.3	29.9	7.3	76.8	6.9	4	41-1,41-2
International Seed Technology BRS 2002-2043/5	4.0	1.07	81.2	29.7	8.3	76.7	6.9	3	41-1
CPS 18505C B3XF	4.1	1.13	81.2	30.2	8.1	77.0	7.3	3	31-2,41-1
PhytoGen PX3C06W3FE	4.4	1.13	80.6	27.5	6.8	75.2	5.8	4	51-1
Americot AMX 1816 B3XF	4.1	1.14	80.8	28.7	6.9	77.4	6.7	4	41-1,41-2
TAM 13 Q-18	3.4	1.20	81.5	30.5	7.5	75.4	6.7	5	41-2
PhytoGen PX2BX2W3FE	4.0	1.18	81.5	31.0	6.5	76.7	7.2	4	31-2,41-1
PhytoGen PHY 39 W3FE	3.6	1.22	82.0	31.9	6.6	76.8	7.1	4	41-1
Deltapine DP 1948 B3XF	3.9	1.21	81.6	30.1	8.8	77.0	6.2	5	41-2
Deltapine DP 1909 XF	4.1	1.16	80.9	29.4	6.5	77.2	5.7	5	41-2
PhytoGen PX3B09W3FE	4.1	1.13	80.7	29.1	6.5	75.8	6.3	3	41-2
TAM 13 S-03	3.6	1.16	82.1	29.7	8.4	73.3	6.6	5	41-2,51-1
Deltapine DP 1908 B3XF	4.3	1.16	81.5	30.4	6.7	77.4	5.6	4	41-2
Stoneville ST 4550GLTP	4.4	1.15	81.5	30.1	8.0	77.0	6.8	5	41-1
Americot AMX 1819 B3XF	4.7	1.11	81.4	27.4	7.9	76.5	7.5	3	31-2,41-1
International Seed Technology BRS 2006-197	4.5	1.10	81.6	28.2	8.7	76.9	6.8	3	41-1
International Seed Technology BRS 2004-2132	5.0	1.08	81.9	28.1	7.1	75.4	6.6	3	41-2
Americot AMX 1823 B3XF	4.1	1.17	82.7	28.2	7.4	76.6	7.0	5	41-1

Table 9A. Fiber quality data from the irrigated new cotton variety and strains test at Texas Tech Research Farm, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Americot AMX 1813 B3XF	4.1	1.16	81.6	28.5	6.7	76.4	6.6	5	41-1,41-2
PhytoGen PX4A64W3FE	4.2	1.10	82.5	30.2	7.6	75.7	7.2	6	41-1,41-2
International Seed Technology BRS 2008-906	4.5	1.11	80.7	29.3	7.1	75.8	6.8	5	41-1,41-2
Monsanto 17R931NRB3XF	4.3	1.12	81.4	29.2	7.8	76.7	6.8	3	41-1,41-2
TAM BB-2139 ELSU	3.6	1.30	81.8	31.2	5.6	77.1	6.7	4	41-1
Americot AMX 1818 B3XF	4.0	1.17	82.1	29.9	7.8	75.8	7.0	4	41-1,41-2
International Seed Technology BRS 2009-974*	4.1	1.04	80.0	27.1	7.4	77.3	7.2	2	31-2,41-1
CPS 1871 B3XF	4.2	1.13	82.0	28.5	8.9	77.6	6.4	3	41-1
CPS 18501A B3XF	3.2	1.22	82.7	31.4	7.4	75.3	7.0	5	41-1,41-2
Americot AMX 1801 B3XF	4.2	1.18	82.4	28.3	7.7	78.4	6.2	3	41-1,41-2
BASF BX 1972GLTP	3.7	1.17	81.5	29.3	7.2	79.3	6.4	3	31-2,41-1
15-3-115	4.1	1.26	83.8	31.2	6.4	72.8	5.9	6	51-1
International Seed Technology BRS 2006-281	3.9	1.16	81.3	30.1	7.7	75.6	6.6	4	41-2
Americot AMX 1817 B3XF	3.8	1.12	80.8	28.7	7.3	76.6	7.2	3	41-1
Mean	4.0	1.15	81.5	29.6	7.3	76.2	6.7	4	
c.v.%	7.2	2.7	0.9	3.7	8.7	1.9	4.1	23.6	
LSD 0.05	0.5	0.05	1.2	1.9	1.1	2.5	0.5	2	

Table 10. Yield and agronomic property data from the irrigated regional high quality test at the Texas Tech Research Farm, Lubbock, 2018.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 1-Oct	Storm Resistance
		Lint	Seed	Picked	Pulled						Height
Deltapine DP 1646 B2XF	1564	30.7	37.7	40.2	35.1	5.2	7.8	5.8	36.1	73	5
Deltapine DP 1845 B3XF	1530	28.9	34.9	38.2	32.4	5.4	7.4	5.3	38.8	69	5
PhytoGen PHY 480 W3FE	1432	27.0	37.3	35.5	30.4	5.8	9.5	5.8	35.2	74	6
FiberMax FM 2574GLT	1364	31.2	34.0	40.7	34.4	5.4	8.1	6.2	35.0	78	5
Deltapine DP 1820 B3XF	1351	31.2	37.0	39.3	33.1	5.3	8.9	6.7	31.3	78	6
NM 16W1079	1319	26.5	38.0	35.2	29.9	5.7	9.9	6.0	33.7	84	4
TAM 13Q-18	1313	28.6	37.0	36.0	30.7	5.5	8.7	5.5	36.1	83	6
PhytoGen PHY 444 WRF	1301	28.2	38.1	38.8	33.0	5.9	10.0	6.9	33.2	76	5
FiberMax FM 1830GLT	1245	29.0	36.5	40.3	34.0	5.2	9.3	6.9	30.8	83	5
LA 14063001	1240	30.0	37.7	37.5	31.8	5.5	9.0	6.0	34.3	84	4
LA 14603038	1233	27.8	38.4	34.7	29.8	5.4	9.4	5.6	34.0	85	5
ARK 1019-36	1225	29.1	38.1	35.6	30.3	5.3	8.4	5.3	35.2	85	4
ARK 1002-40	1213	25.7	42.2	33.2	28.5	5.6	9.8	5.3	35.1	86	4
DC 375	1210	28.2	38.4	36.2	30.8	5.7	9.3	5.8	35.5	76	4
ARK 1019-14	1190	26.9	36.1	37.5	31.2	5.9	8.9	5.9	37.7	81	4
PhytoGen PHY 440 W3FE	1180	26.9	36.9	34.4	29.0	5.7	9.6	5.7	34.1	78	5
NM 16W1094	1123	23.5	39.5	33.7	29.4	5.9	9.6	5.6	35.5	85	4
Stoneville ST 5020GLT	1119	27.8	39.3	37.0	31.5	5.7	9.6	6.2	34.5	86	4
TAM KJ-Q14	1038	24.3	40.2	30.3	26.4	6.6	12.1	6.0	33.2	74	6
NM 13P1125	1020	25.0	41.1	33.9	29.1	5.3	9.5	5.4	33.7	84	4
PhytoGen PHY 764 WRF	999	23.5	33.9	34.5	29.2	5.6	10.4	6.1	31.2	71	4
DC 180	990	27.1	41.8	34.2	29.2	5.4	9.8	5.6	33.1	86	5
Mean	1236	27.6	37.9	36.2	30.9	5.6	9.3	5.9	34.4	80	5
c.v.%	12.4	4.1	4.1	1.5	1.4	5.0	5.0	5.6	5.9	6.8	12.3
LSD 0.05	181	1.3	1.8	0.9	0.8	0.5	0.8	0.6	3.5	6	1
											3

Table 10A. Fiber quality data from the irrigated regional high quality test at the Texas Tech Research Farm, Lubbock, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Deltapine DP 1646 B2XF	4.2	1.19	80.0	29.0	7.2	78.1	5.8	3	41-1,41-2
Deltapine DP 1845 B3XF	4.2	1.20	81.4	30.0	8.3	76.8	5.9	5	41-2
PhytoGen PHY 480 W3FE	3.9	1.14	82.1	29.6	7.6	77.0	6.8	1	41-1
FiberMax FM 2574GLT	4.4	1.17	81.3	29.9	6.3	78.0	5.9	3	41-1,41-2
Deltapine DP 1820 B3XF	4.6	1.21	81.6	31.4	5.9	76.9	6.3	3	41-2
NM 16W1079	4.4	1.15	81.1	31.6	7.1	75.2	6.1	4	41-2
TAM 13Q-18	4.0	1.20	82.0	30.9	6.9	75.8	6.5	4	41-2
PhytoGen PHY 444 WRF	3.6	1.17	80.4	29.0	6.4	78.4	7.3	2	31-1,41-1
FiberMax FM 1830GLT	4.5	1.20	82.6	30.5	5.7	77.5	6.4	4	41-1,41-2
LA 14063001	4.0	1.18	82.2	30.9	7.4	76.7	6.7	4	41-2
LA 14603038	4.3	1.19	81.1	30.3	6.5	76.0	6.4	3	41-1,41-2
ARK 1019-36	4.0	1.26	81.7	31.7	7.1	75.0	6.5	4	41-2,51-1
ARK 1002-40	4.7	1.26	84.4	31.8	5.6	76.1	6.5	3	41-2
DC 375	4.4	1.08	81.3	29.3	6.7	73.7	6.8	4	41-2
ARK 1019-14	3.8	1.20	80.3	28.7	6.9	76.1	5.9	4	41-2,51-1
PhytoGen PHY 440 W3FE	3.7	1.18	80.1	31.7	6.4	76.1	7.1	3	31-2,41-2
NM 16W1094	4.4	1.17	82.6	32.2	6.9	75.6	5.9	4	41-2,51-1
Stoneville ST 5020GLT	4.2	1.19	82.3	30.5	6.8	75.5	6.1	5	41-2
TAM KJ-Q14	4.1	1.29	83.8	35.8	6.3	75.9	6.9	3	41-1,41-2
NM 13P1125	4.3	1.16	81.7	31.0	7.1	73.7	6.7	4	41-2,51-1
PhytoGen PHY 764 WRF	3.8	1.16	81.1	31.7	6.6	76.6	6.7	3	41-1,41-2
DC 180	4.6	1.14	82.3	32.5	6.7	76.8	7.0	2	41-1
Mean	4.2	1.18	81.7	30.9	6.7	76.2	6.4	3	
c.v.%	4.8	1.4	0.9	2.5	9.1	1.7	5.9	19.1	
LSD 0.05	0.3	0.03	1.3	1.3	1.1	1.7	0.7	1	

Table 11. Yield and agronomic property data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Yield	Agronomic Properties						% Open			Nematode Ratings		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	Height	Rk
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	13-Sep	Resistance		LRK
PhytoGen PHY 350 W3FE	1058	30.6	39.6	39.9	32.6	5.2	10.2	7.2	28.5	66	5	28	4560 3.63
PhytoGen PX2B12W3FE	1048	30.0	40.3	37.1	29.9	5.2	9.5	6.1	31.6	59	6	24	670 2.01
Stoneville ST 4946GLB2 check	997	30.1	40.5	37.0	30.8	6.2	11.4	7.1	32.3	61	5	27	2550 3.20
CPS 17251 B2XF	996	29.4	37.8	40.1	32.8	5.8	9.3	6.8	34.2	24	5	29	845 2.23
PhytoGen PX4A64W3FE	984	33.0	38.2	40.4	33.2	5.2	10.9	8.1	26.0	46	7	24	420 1.90
PhytoGen PX2BX1W3FE	923	27.7	38.3	35.1	28.5	5.4	10.5	6.2	30.4	58	7	22	270 1.83
PhytoGen PX3B09W3FE	912	33.7	41.2	38.9	30.6	4.9	9.1	6.4	29.5	75	6	21	3720 2.55
PhytoGen PHY 440 W3FE	909	29.5	38.1	37.9	30.1	5.3	9.6	6.4	31.5	43	6	25	780 2.83
PhytoGen PHY 480 W3FE	909	29.7	36.9	37.7	30.3	5.6	9.5	6.3	33.0	73	5	25	170 1.74
PhytoGen PX2BX3W3FE	904	27.8	38.5	36.1	28.8	4.9	10.0	6.3	28.5	63	7	22	570 2.09
PhytoGen PX3C06W3FE	893	28.5	36.5	38.1	28.5	4.9	8.4	5.9	31.2	70	5	26	240 1.86
PhytoGen PX2B10W3FE	888	27.2	39.5	37.4	29.7	5.1	10.4	6.6	29.2	65	7	22	410 1.94
PhytoGen PHY 39 W3FE	888	27.5	38.2	37.4	29.3	5.4	9.7	6.3	32.0	60	7	21	240 1.25
PhytoGen PX4A69W3FE	882	30.9	37.3	38.8	31.7	5.6	9.7	6.8	31.8	65	6	25	1020 2.85
PhytoGen PX2B04W3FE	865	27.7	38.7	35.6	28.2	5.3	10.5	6.3	29.7	66	7	22	0 0.00
FiberMax FM 2398GLTP	855	31.3	37.0	41.0	33.1	5.7	9.7	7.4	31.6	64	5	24	10260 3.76
BASF BX 1972GLTP	849	28.3	44.0	35.1	29.7	5.5	10.4	6.0	31.8	63	6	25	9660 3.72
Americot AMX 1817 B3XF	847	30.4	36.8	38.6	31.5	5.4	8.9	6.3	33.1	53	6	27	12870 3.95
PhytoGen PHY 320 W3FE	844	29.5	37.5	36.8	29.7	5.1	9.6	6.1	30.7	73	5	24	120 1.16
PhytoGen PX2BX2W3FE	841	28.8	38.2	36.9	29.4	4.8	9.3	5.9	29.8	53	7	22	200 1.81
FiberMax FM 1621GL	832	31.5	37.6	39.7	32.3	5.8	9.8	7.2	32.0	58	5	26	2130 3.06
BASF BX 1975GLTP	831	30.9	36.4	38.7	31.5	5.6	9.1	6.4	33.7	69	4	25	2460 3.35
FiberMax FM 1911GLT check	819	29.9	36.5	39.0	30.8	6.2	12.1	8.3	29.4	60	7	24	3400 3.06
Deltapine DP 1747NR B2XF	818	29.9	37.7	39.2	32.0	5.5	8.9	6.5	33.6	50	5	27	3630 2.60
PhytoGen PHY 430 W3FE	813	31.9	37.0	39.6	31.3	4.7	8.5	6.1	30.5	70	6	24	2500 3.16
PhytoGen PX3B07W3FE	808	31.4	39.3	38.7	30.8	5.0	9.1	6.3	30.2	75	5	21	1920 3.16
FiberMax FM 2498GLT	792	30.4	37.7	39.9	33.5	6.6	10.6	7.6	34.7	50	6	25	7440 3.84
Brownfield Seed and Delinting BSD 598	791	28.9	41.8	37.0	30.3	5.1	9.6	6.1	31.0	61	5	26	16500 4.20
FiberMax FM 2011GT check	771	29.7	38.7	38.0	31.3	6.4	10.9	7.4	33.0	63	5	27	1890 3.23
Stoneville ST 4550GLTP	757	31.2	35.8	40.4	33.2	5.3	8.7	6.5	32.6	50	5	28	2120 3.10

Table 11. Yield and agronomic property data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Yield	Agronomic Properties						% Open			Nematode Ratings		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	Height	Rk
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	13-Sep	Resistance	Height	LRK
Americot AMX 1818 B3XF	751	27.2	39.2	35.4	28.2	5.2	9.7	5.8	31.9	63	6	30	13380 3.91
Monsanto 17R931NR B3XF	743	29.2	36.4	39.3	31.7	4.8	8.7	6.1	30.8	63	6	29	1230 2.94
Deltapine DP 1558NR B2RF check	718	29.6	36.7	38.8	31.0	5.8	9.4	6.5	34.5	42	5	26	1350 2.97
BASF BX 1976GLTP	702	30.8	38.5	37.3	31.0	5.7	10.2	6.7	31.9	49	5	27	8580 3.90
BASF BX 1974GLTP	699	32.5	36.8	40.6	33.0	5.2	9.0	6.7	31.8	74	5	25	3060 3.28
Brownfield Seed and Delinting BSD 224	650	27.8	41.4	35.7	28.7	5.4	10.7	6.4	30.3	68	6	24	7380 3.71
Mean	850	29.8	38.3	38.1	30.8	5.4	9.7	6.6	31.3	60	6	25	
c.v.%	19.5	4.5	4.7	1.7	2.7	4.6	4.7	5.8	5.9	18.8	13.5	8.3	
LSD 0.05	194	1.6	2.1	1.1	1.4	0.4	0.8	0.6	3.1	13	1	2	
										MSD (0.05)	7300		1.33

Table 11A. Fiber quality data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 350 W3FE	5.1	1.11	81.8	29.4	6.9	74.4	7.0	3	41-2
PhytoGen PX2B12W3FE	4.7	1.09	80.4	29.6	7.2	75.2	7.2	4	41-1
Stoneville ST 4946GLB2 check	5.2	1.09	82.5	30.2	7.3	74.2	7.2	4	41-1,51-1
CPS 17251 B2XF	5.0	1.12	81.2	30.0	7.1	75.5	7.0	3	41-1,41-2
PhytoGen PX4A64W3FE	4.5	1.06	80.5	28.9	7.4	75.1	7.5	3	41-1,41-2
PhytoGen PX2BX1W3FE	4.8	1.16	80.9	31.0	6.0	75.8	6.9	3	41-1
PhytoGen PX3B09W3FE	4.8	1.07	80.4	29.5	6.7	74.9	7.1	4	41-1,41-2
PhytoGen PHY 440 W3FE	4.4	1.14	81.4	31.7	6.7	74.7	6.9	4	41-1,41-2
PhytoGen PHY 480 W3FE	4.7	1.08	82.1	30.0	7.9	74.1	7.4	3	41-1,41-2
PhytoGen PX2BX3W3FE	4.5	1.12	80.6	29.5	6.4	74.8	7.2	4	41-1,41-2
PhytoGen PX3C06W3FE	4.9	1.08	79.9	28.8	6.2	73.0	6.6	4	41-2,51-1
PhytoGen PX2B10W3FE	4.6	1.14	81.1	30.0	6.5	75.3	7.1	5	41-1,41-2
PhytoGen PHY 39 W3FE	4.6	1.12	80.5	30.3	6.2	74.2	7.0	4	41-1,41-2
PhytoGen PX4A69W3FE	4.7	1.05	81.1	31.2	8.3	75.1	7.5	3	41-1
PhytoGen PX2B04W3FE	4.7	1.15	82.0	31.4	5.9	76.1	6.7	5	41-1,41-2
FiberMax FM 2398GLTP	5.4	1.09	81.2	28.7	6.3	76.1	7.3	3	41-1
BASF BX 1972GLTP	4.6	1.10	81.1	29.3	7.1	74.6	5.9	4	41-2,51-1
Americot AMX 1817 B3XF	5.0	1.08	80.9	29.5	7.1	74.4	7.6	3	41-1
PhytoGen PHY 320 W3FE	4.9	1.09	83.5	30.3	7.1	73.6	6.8	4	41-2,51-1
PhytoGen PX2BX2W3FE	4.7	1.10	80.3	30.1	6.7	75.2	7.1	4	41-1,41-2
FiberMax FM 1621GL	5.1	1.10	82.3	30.0	5.6	72.6	6.7	4	41-2,51-1
BASF BX 1975GLTP	5.0	1.08	81.5	29.2	7.4	73.8	7.6	3	41-1,41-2
FiberMax FM 1911GLT check	4.8	1.10	81.7	30.3	5.6	75.7	7.1	3	41-1,41-2
Deltapine DP 1747NR B2XF	5.0	1.07	81.0	29.1	7.1	74.0	7.1	5	41-2
PhytoGen PHY 430 W3FE	5.0	1.03	81.4	29.6	7.8	70.2	7.8	4	41-1,51-4
PhytoGen PX3B07W3FE	4.8	1.09	80.4	30.6	7.2	73.0	7.0	5	41-2,51-1
FiberMax FM 2498GLT	5.7	1.10	81.9	30.0	6.1	76.0	6.8	2	41-1,41-2
Brownfield Seed and Delinting BSD 598	4.9	1.07	80.9	28.6	6.2	72.7	6.4	2	41-2,51-1
FiberMax FM 2011GT check	4.6	1.09	80.8	28.8	5.7	75.6	7.2	3	41-1
Stoneville ST 4550GLTP	4.3	1.08	81.5	31.4	7.4	72.5	7.3	4	41-2,51-1

Table 11A. Fiber quality data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Americot AMX 1818 B3XF	4.8	1.13	82.8	32.2	7.2	75.4	7.1	3	41-1,41-2
Monsanto 17R931NR B3XF	4.4	1.09	81.8	31.0	7.7	74.4	7.3	4	41-1,41-2
Deltapine DP 1558NR B2RF check	5.0	1.09	81.1	30.5	6.7	74.3	7.4	3	41-1,41-2
BASF BX 1976GLTP	5.2	1.11	81.2	31.0	5.8	77.2	6.6	2	41-1
BASF BX 1974GLTP	4.7	1.08	81.4	28.1	7.0	75.4	7.6	2	41-1
Brownfield Seed and Delinting BSD 224	5.0	1.08	81.7	29.4	4.9	76.9	7.0	2	41-1
Mean	4.8	1.09	81.3	29.9	6.7	74.6	7.1	3	
c.v.%	3.4	1.3	0.7	2.9	4.8	1.8	4.4	26.3	
LSD 0.05	0.3	0.02	0.9	1.5	0.5	2.3	0.5	1	

Table 12. Yield and agronomic property data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Yield	Agronomic Properties								% Open			Wilt% 16-Aug	% Defoliation
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 4-Oct	Storm Resistance	Height		
		Lint	Seed	Picked	Pulled									
FiberMax FM 2484B2F	1208	27.0	35.3	37.4	31.0	6.2	12.5	7.8	29.8	23	5	26	12.7	20.4
NexGen NG 3640 XF	1205	24.8	33.1	38.9	32.8	6.3	11.3	7.4	32.9	42	5	30	17.6	24.0
PhytoGen PX2B12W3FE	1153	27.3	36.0	38.2	30.9	6.2	10.1	6.5	36.7	20	5	25	24.3	22.5
PhytoGen PX2B04W3FE	1149	25.2	36.5	36.4	29.6	6.3	10.8	6.5	35.5	28	5	26	29.5	10.1
FiberMax FM 1621GL	1143	28.0	34.5	43.5	35.4	6.9	10.8	9.1	33.2	65	6	25	33.7	23.5
NexGen NG 4777 B2XF	1140	27.7	38.6	38.7	32.2	6.8	11.4	7.4	35.5	57	6	31	30.8	31.4
PhytoGen PX2B10W3FE	1112	24.3	36.5	36.5	29.9	6.1	11.6	7.0	32.1	30	6	25	31.7	13.7
FiberMax FM 2398GLTP	1111	30.4	35.2	43.3	35.2	6.8	9.9	8.0	36.5	38	5	26	39.6	21.5
PhytoGen PX2BX3W3FE	1105	25.0	35.2	37.0	30.4	6.3	10.8	6.6	35.1	27	5	26	22.9	8.9
PhytoGen PX3C06W3FE	1085	26.9	35.0	40.1	31.9	5.1	9.0	6.2	32.8	47	5	28	24.9	18.8
Brownfield Seed and Delinting BSD 224	1070	25.9	38.1	39.3	32.5	6.5	11.7	7.7	33.5	67	5	23	52.1	23.7
CPS 18505C B3XF	1055	27.8	38.5	37.2	30.5	6.5	11.7	7.4	32.7	48	5	26	29.0	33.2
CPS 18501A B3XF	1046	28.6	39.7	38.8	32.5	6.3	11.9	7.7	31.4	52	4	24	31.7	25.5
CPS 1847 XF	1041	26.0	32.9	40.4	33.2	6.4	10.8	7.9	33.1	40	4	26	47.8	23.7
PhytoGen PHY 39 W3FE	1040	24.5	34.9	37.3	30.2	6.1	10.8	6.8	33.6	27	6	25	28.1	24.4
NexGen NG 4689 B2XF	1028	26.2	38.2	39.0	32.2	6.8	11.0	7.3	36.3	50	6	31	27.7	32.6
PhytoGen PX2BX1W3FE	1023	24.2	35.3	36.2	29.5	6.2	11.3	6.7	33.5	32	5	27	20.1	28.0
Deltapine DP 1822 XF	1020	26.1	34.9	39.3	33.0	6.3	11.6	7.8	31.8	42	5	27	19.0	21.0
PhytoGen PX2BX2W3FE	1013	24.4	32.8	36.7	29.6	6.2	10.5	6.5	35.1	32	5	26	25.4	15.2
Deltapine DP 1820 B3XF	1012	29.9	35.6	42.9	35.2	5.9	10.0	7.9	32.1	42	5	26	48.4	23.5
CPS 1871 B3XF	995	28.6	33.7	41.8	33.9	5.2	9.6	7.2	30.1	32	5	27	32.3	21.0
PhytoGen PHY 250 W3FE	991	25.8	36.7	38.0	29.8	5.6	10.9	6.8	31.1	40	6	24	16.2	19.2
NexGen NG 3517 B2XF	989	27.3	40.0	36.7	30.4	6.2	11.6	7.0	32.7	73	4	28	22.5	31.7
PhytoGen PHY 210 W3FE	957	26.0	36.0	38.1	30.5	5.7	11.3	7.2	30.4	55	6	23	32.4	21.3
BASF BX 1972GLTP	939	28.2	42.4	35.0	29.3	5.7	11.1	6.3	31.7	27	5	24	52.4	39.3
Brownfield Seed and Delinting BSD 598	928	24.7	36.6	38.7	31.8	6.7	11.0	7.2	36.0	60	6	25	41.6	27.7
PhytoGen PHY 350 W3FE	918	24.0	33.9	37.7	30.5	6.2	11.0	6.9	33.8	33	5	26	27.6	21.0
PhytoGen PHY 490 W3FE	899	24.7	33.8	37.3	30.0	5.2	9.3	5.9	33.0	22	5	29	26.5	31.6
Monsanto 17R818B3XF	871	29.2	37.0	41.0	33.4	6.1	9.5	6.9	36.3	28	5	26	22.6	25.5
PhytoGen PX3B07W3FE	836	24.2	32.3	38.7	30.7	5.3	9.3	6.3	32.9	50	5	23	28.0	24.7

Table 12. Yield and agronomic property data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Yield	Agronomic Properties								% Open			Wilt% 16-Aug	% Defoliation
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 4-Oct	Storm Resistance	Height		
		Lint	Seed	Picked	Pulled									
BASF BX 1976GLTP	832	25.3	29.7	42.3	34.5	6.7	10.3	7.8	36.7	28	5	26	31.8	24.0
Deltapine DP 1845 B3XF	831	26.3	33.4	40.3	32.8	5.5	9.2	6.5	34.2	27	5	27	41.6	42.2
PhytoGen PX3B09W3FE	811	23.8	32.9	38.0	30.9	5.6	10.0	6.5	32.8	53	5	24	24.3	27.2
Deltapine DP 1646 B2XF	807	29.2	36.4	40.7	33.2	5.5	9.2	6.7	33.5	35	5	28	33.4	31.1
NexGen NG 3780 B2XF	774	23.5	35.3	35.9	29.0	5.6	10.6	6.3	32.1	72	6	24	26.0	38.8
PhytoGen PHY 320 W3FE	774	23.1	32.8	37.6	29.7	5.9	10.5	6.7	33.4	48	6	28	29.5	17.1
BASF BX 1974GLTP	741	27.3	33.5	42.1	34.8	6.1	9.8	7.5	34.5	57	6	25	45.1	48.6
PhytoGen PHY 300 W3FE	698	25.7	35.6	38.8	30.2	5.6	9.4	6.3	34.7	40	5	26	50.4	29.5
PhytoGen PHY 340 W3FE	695	27.2	34.3	39.3	32.0	5.5	9.4	6.3	34.7	47	6	25	58.4	32.7
BASF BX 1975GLTP	620	22.9	28.9	41.3	32.8	5.9	11.0	8.0	30.4	40	5	28	29.9	52.9
Stoneville ST 4550GLTP	602	27.4	32.6	42.1	34.5	6.1	9.3	7.1	36.0	55	4	28	57.1	71.6
Monsanto 17R738XF	548	25.7	33.3	40.7	33.5	6.8	10.2	7.3	38.4	38	4	29	30.0	27.5
Deltapine DP 1948 B3XF	545	22.6	33.3	38.7	30.9	5.9	8.8	5.9	38.9	14	5	29	39.7	33.5
Deltapine DP 1908 B3XF	423	26.8	36.0	38.8	30.2	5.3	9.5	6.3	32.5	25	4	28	26.0	28.6
Mean	927	26.1	35.2	39.0	31.8	6.0	10.5	7.0	33.7	41	5	26	Prob>F	0.001
c.v.%	13.0	3.8	4.9	2.0	2.4	5.4	5.6	6.5	5.8	34.7	14.4	8.7	MSD(0.05)	26.0
LSD 0.05	164	1.4	2.4	1.1	1.0	0.4	0.8	0.6	2.7	19	1	3		20.1

Table 12A. Fiber quality data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
FiberMax FM 2484B2F	2.9	1.19	80.9	29.3	6.2	76.9	7.4	5	31-2,41-1
NexGen NG 3640 XF	3.7	1.09	80.8	29.1	8.3	77.4	8.3	4	31-1,31-2
PhytoGen PX2B12W3FE	2.7	1.14	79.2	28.2	7.2	77.1	7.8	5	31-2,41-1
PhytoGen PX2B04W3FE	3.0	1.19	81.2	31.5	7.0	78.0	7.5	3	31-1,41-1
FiberMax FM 1621GL	3.4	1.16	82.3	30.7	6.4	76.7	7.8	4	31-2,41-1
NexGen NG 4777 B2XF	3.3	1.14	80.2	30.0	6.0	76.1	8.2	4	31-2,41-1
PhytoGen PX2B10W3FE	3.1	1.20	79.6	30.0	7.2	76.5	7.2	6	31-2,41-2
FiberMax FM 2398GLTP	3.5	1.14	81.4	28.9	6.9	79.2	7.7	3	31-1,31-2
PhytoGen PX2BX3W3FE	2.9	1.17	79.5	28.9	7.1	77.1	7.7	5	31-2
PhytoGen PX3C06W3FE	3.2	1.15	80.6	29.3	7.0	76.3	7.2	5	41-1
Brownfield Seed and Delinting BSD 224	3.5	1.15	81.1	30.6	6.0	78.3	8.0	3	21-2,31-2
CPS 18505C B3XF	3.4	1.08	81.0	30.8	9.7	78.7	8.6	4	21-1,31-1
CPS 18501A B3XF	3.2	1.20	83.2	32.0	8.2	73.5	7.1	6	41-1,51-1
CPS 1847 XF	3.0	1.12	80.7	29.6	8.2	77.4	8.0	4	31-2
PhytoGen PHY 39 W3FE	2.8	1.19	80.3	30.9	6.8	76.8	7.5	5	31-1,41-1
NexGen NG 4689 B2XF	3.0	1.16	81.9	32.1	6.5	77.1	7.8	5	31-2,41-1
PhytoGen PX2BX1W3FE	2.9	1.21	80.8	30.9	6.9	78.5	7.6	5	31-1,31-2
Deltapine DP 1822 XF	3.7	1.21	82.0	31.1	6.6	77.9	7.7	3	31-1,31-2
PhytoGen PX2BX2W3FE	3.1	1.17	80.5	29.1	7.3	77.5	7.7	5	31-1,41-1
Deltapine DP 1820 B3XF	3.4	1.20	80.8	31.0	6.5	77.3	7.5	5	31-2
CPS 1871 B3XF	3.4	1.11	80.4	28.6	8.3	79.7	8.1	4	21-1,31-1
PhytoGen PHY 250 W3FE	3.0	1.17	80.8	31.4	6.2	79.4	7.8	4	21-1,31-2
NexGen NG 3517 B2XF	3.3	1.16	81.2	31.1	7.4	76.9	7.7	4	31-2,41-1
PhytoGen PHY 210 W3FE	3.1	1.16	81.3	31.2	6.3	78.0	7.5	5	31-2
BASF BX 1972GLTP	3.0	1.16	81.0	29.8	7.4	78.8	7.7	4	31-1,31-2
Brownfield Seed and Delinting BSD 598	3.2	1.14	81.2	29.5	6.4	79.6	7.8	3	31-1
PhytoGen PHY 350 W3FE	3.0	1.15	80.6	28.8	7.8	78.6	7.5	3	31-1,31-2
PhytoGen PHY 490 W3FE	3.1	1.13	81.4	29.7	8.1	76.4	7.4	5	41-1
Monsanto 17R818B3XF	3.3	1.16	81.4	30.1	7.2	79.1	7.4	3	31-1,31-2
PhytoGen PX3B07W3FE	2.8	1.13	79.0	29.9	7.2	77.6	7.1	4	31-2,41-1

Table 12A. Fiber quality data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2018.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
BASF BX 1976GLTP	3.5	1.11	80.7	29.9	6.3	77.8	8.2	4	31-1,41-1
Deltapine DP 1845 B3XF	3.1	1.21	80.8	29.7	8.2	76.5	7.2	6	41-1
PhytoGen PX3B09W3FE	2.7	1.13	79.3	29.7	6.9	77.5	7.6	4	31-2,41-1
Deltapine DP 1646 B2XF	3.0	1.19	80.7	29.6	7.6	79.7	7.8	3	31-1
NexGen NG 3780 B2XF	3.6	1.16	80.3	30.7	7.7	77.1	8.0	3	31-1,41-1
PhytoGen PHY 320 W3FE	3.1	1.15	82.0	30.3	7.4	76.8	7.4	5	41-1
BASF BX 1974GLTP	3.0	1.11	79.8	29.7	8.0	76.9	8.4	5	31-1,31-2
PhytoGen PHY 300 W3FE	3.3	1.12	81.0	28.9	7.4	77.8	8.3	3	21-2,31-2
PhytoGen PHY 340 W3FE	3.0	1.12	79.3	27.9	8.1	77.5	8.2	5	31-1,31-2
BASF BX 1975GLTP	2.9	1.13	80.4	29.1	7.8	76.8	8.3	4	31-1,31-5
Stoneville ST 4550GLTP	3.3	1.10	80.5	28.8	7.8	76.0	8.4	4	31-2
Monsanto 17R738XF	3.1	1.13	80.4	29.1	7.8	76.6	7.6	5	31-2,41-1
Deltapine DP 1948 B3XF	3.0	1.19	80.5	29.5	8.8	77.1	7.0	5	41-1
Deltapine DP 1908 B3XF	3.1	1.16	81.4	29.5	6.5	80.2	7.1	4	31-1,31-2
Mean	3.1	1.15	80.7	29.9	7.3	77.5	7.7	4	
c.v.%	9.2	1.8	1.0	3.3	5.3	1.7	4.0	25.1	
LSD 0.05	0.5	0.03	1.4	1.7	0.6	2.3	0.5	2	

Table 13. Results of the irrigated bacterial blight cotton variety screening at Texas A&M AgriLife Research, Lubbock, 2018.

Entry	% Blight 2-Aug	Waller/Duncan	Designation	Rating
10	0.00	e	Deltapine DP 1820 B3XF	resistant
12	0.00	e	Deltapine DP 1845 B3XF	resistant
13	0.00	e	Deltapine DP 1948 B3XF	resistant
14	0.00	e	Deltapine DP 1909 XF	resistant
15	0.00	e	Monsanto 17R738XF	resistant
16	0.00	e	Deltapine DP 1908 B3XF	resistant
18	0.00	e	PhytoGen PX2B04W3FE	resistant
19	0.00	e	PhytoGen PX2B10W3FE	resistant
20	0.00	e	PhytoGen PX2B12W3FE	resistant
21	0.00	e	PhytoGen PX3B07W3FE	resistant
22	0.00	e	PhytoGen PX3B09W3FE	resistant
23	0.00	e	PhytoGen PX3C06W3FE	resistant
24	0.00	e	PhytoGen PX4A64W3FE	resistant
11	1.50	e	Deltapine DP 1822 XF	resistant
25	1.50	e	PhytoGen PX4A69W3FE	resistant
17	1.75	e	Monsanto 17R818B3XF	resistant
1	2.50	e	FiberMax FM 1621GL	resistant
2	3.00	e	FiberMax FM 2398GLTP	resistant
3	5.00	e	BASF BX 1972GLTP	resistant
28	5.00	e	FiberMax FM 2484B2F check	resistant
27	17.25	d	PhytoGen PHY 243WRF check	partially resistant
7	29.00	c	BASF BX 1976GLTP	partially resistant
9	32.50	bc	Deltapine DP 1646 B2XF	partially resistant
8	39.75	b	Deltapine DP 1612B2XF	partially resistant
6	95.00	a	BASF BX 1975GLTP	susceptible
26	98.25	a	Deltapine DP 1522 B2XF check	susceptible
4	100.00	a	Stoneville ST 4550GLTP	susceptible
5	100.00	a	BASF BX 1974GLTP	susceptible

8.83

MSD(0.05)

# Notes

**Table 14. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2018.**

Designation	Pages:	Uniform	Location	5 yr	Late	New	High	Root-knot	Vetricillium	Bacterial
		OVT 8-23	Summary 24	Summary 25	Planted 26-29	Varieties 30-33	Quality 34-35	Nematode 36-39	Wilt 40-43	Blight 44
Americot AMX 1801 B3XF					*					
Americot AMX 1813 B3XF					*					
Americot AMX 1815 B3XF					*					
Americot AMX 1816 B3XF					*					
Americot AMX 1817 B3XF					*			*		
Americot AMX 1818 B3XF					*			*		
Americot AMX 1819 B3XF					*					
Americot AMX 1823 B3XF					*					
BASF BX 1972GLTP				*	*			*	*	*
BASF BX 1974GLTP								*	*	*
BASF BX 1975GLTP								*	*	*
BASF BX 1976GLTP								*	*	*
Brownfield Seed and Delinting BSD 224	*	*						*	*	
Brownfield Seed and Delinting BSD 598								*	*	
Brownfield Seed and Delinting BSD 9X	*	*								
Brownfield Seed and Delinting TonBuster Elite	*	*								
CPS 17251 B2XF								*		
CPS 1847 XF					*				*	
CPS 18501A B3XF					*				*	
CPS 18505C B3XF					*				*	
CPS 1871 B3XF					*				*	
Deltapine DP 1558NR B2RF									*	
Deltapine DP 1612 B2XF	*	*	*	*						*
Deltapine DP 1646 B2XF	*	*	*				*		*	*
Deltapine DP 1747NR B2XF								*		
Deltapine DP 1820 XF	*	*		*			*		*	*
Deltapine DP 1822 B3XF	*	*		*					*	*
Deltapine DP 1845 B3XF	*	*					*		*	*
Deltapine DP 1908 B3XF				*	*				*	*
Deltapine DP 1909 XF						*				*
Deltapine DP 1948 B3XF						*			*	*
FiberMax FM 1621GL					*	*		*	*	*
FiberMax FM 1830GLT	*	*	*				*			
FiberMax FM 1888GL	*	*								
FiberMax FM 1911GLT	*	*	*					*		
FiberMax FM 2011GL								*		
FiberMax FM 2398GLTP					*	*		*	*	*
FiberMax FM 2484B2F									*	*
FiberMax FM 2498GLT	*	*						*		
FiberMax FM 2574GLT	*	*					*			
FiberMax FM 958					*					
International Seed Technology BRS 2002-2043/5						*				
International Seed Technology BRS 2004-2132						*				
International Seed Technology BRS 2009-974*						*				
International Seed Technology BRS 2006-197						*				
International Seed Technology BRS 2006-281						*				
International Seed Technology BRS 2008-906						*				
International Seed Technology BRS 286	*	*								
International Seed Technology BRS 293	*	*	*							
International Seed Technology BRS 335	*	*	*							
International Seed Technology BRS 372	*	*								
International Seed Technology BRS 416	*	*								
Monsanto 17R738XF						*			*	*
Monsanto 17R818B3XF						*				*

**Table 14. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2018.**

Designation	Pages:	Uniform	Location	5 yr	Late	New	High	Root-knot	Vetricillium	Bacterial
		OVT	Summary	Summary	Planted	Varieties	Quality	Nematode	Wilt	Blight
	8-23	24	25	26-29	30-33	34-35	36-39	40-43	44	
Monsanto 17R931NRB3XF					*			*	*	
Monsanto 17R709XF				*						
NexGen NG 3406 B2XF				*						
NexGen NG 3517 B2XF	*	*		*					*	
NexGen NG 3640 XF									*	
NexGen NG 3699 B2XF				*						
NexGen NG 3780 B2XF	*	*		*					*	
NexGen NG 4545 B2XF	*	*	*							
NexGen NG 4689 B2XF	*	*		*					*	
NexGen NG 4777 B2XF	*	*							*	
PCG 700	*	*								
PCG 713	*	*								
PhytoGen PHY 210 W3FE	*	*		*					*	
PhytoGen PHY 250 W3FE	*	*		*					*	
PhytoGen PHY 300 W3FE	*	*		*					*	
PhytoGen PHY 320 W3FE	*	*		*				*	*	
PhytoGen PHY 330 W3FE	*	*		*						
PhytoGen PHY 340 W3FE	*	*		*					*	
PhytoGen PHY 350 W3FE	*	*		*				*	*	
PhytoGen PHY 430 W3FE	*	*		*					*	
PhytoGen PHY 440 W3FE	*	*		*			*	*		
PhytoGen PHY 444WRF							*			
PhytoGen PHY 480 W3FE	*	*		*			*	*		
PhytoGen PHY 490 W3FE	*	*		*					*	
PhytoGen PHY 499 WRF	*	*	*							
PhytoGen PHY 764 WRF	*	*					*			
PhytoGen PHY 39 W3FE				*	*			*	*	
PhytoGen PX2B04W3FE				*	*			*	*	*
PhytoGen PX2B10W3FE				*	*			*	*	*
PhytoGen PX2B12W3FE				*	*			*	*	*
PhytoGen PX2BX1W3FE				*	*			*	*	
PhytoGen PX2BX2W3FE				*	*			*	*	
PhytoGen PX2BX3W3FE				*	*			*	*	
PhytoGen PX3B07W3FE				*	*			*	*	*
PhytoGen PX3B09W3FE				*	*			*	*	*
PhytoGen PX3C06W3FE				*	*			*	*	*
PhytoGen PX4A64W3FE					*			*		*
PhytoGen PX4A69W3FE					*			*		*
Seed Source Genetics SSG UA 107	*	*								
Seed Source Genetics SSG UA 114X	*	*								
Seed Source Genetics SSG UA 222	*	*	*							
Seed Source Genetics SSG UA 222X	*	*								
Stoneville ST 4550GLTP				*	*			*	*	*
Stoneville ST 4946GLB2								*		
Stoneville ST 5020GLT							*			
TAM 13 Q-18						*	*			
TAM 13 S-03						*				
TAM BB-2139 ELSU						*				
Tamcot 73	*	*								
Tamcot G11	*	*								
15-3-115					*					