

# COTTON PERFORMANCE TESTS

*In the Texas High Plains*

♦ 2019 ♦

*The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos - 2020*



♦ Technical Report ♦  
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Texas A&M AgriLife Research/ Patrick Stover, Director

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RESEARCH

# **Cotton Performance Tests in the Texas High Plains 2019<sup>1/</sup>**

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## INTRODUCTION

Cotton performance tests were conducted during 2019 at the Texas A&M Agricultural Research and Extension Center at Lubbock (LREC) and Halfway, Texas Tech Quaker Avenue research farm, and the AG-CARES research farm at Lamesa. Tests were conducted for response to root-knot nematode at Lamesa, bacterial blight at LREC, and Verticillium wilt in Lubbock. The 2019 test location had little discernible Verticillium wilt pressure. Response to bacterial blight infection only is reported for the bacterial blight test. The Uniform Variety Test includes the same entries at four locations. The entries are commercial or soon to be commercially available varieties. New varieties and strains, including potential new commercial varieties or breeding lines, were tested under drip irrigation at Texas Tech Quaker Avenue farm. A late-planted test, including commercial varieties, was conducted at LREC under furrow-irrigated conditions. USDA-ARS Regional High Quality test was grown in several locations across the cotton belt; the Lubbock location is presented. This test includes public breeder lines and commercial varieties that meet higher fiber quality standards. Soil types, planting dates, harvest dates, irrigation, and cultural practices for each test are in Table 1.

All tests were planted in a randomized complete block design with four replications, in 2-row plots, 30-40 ft long on 40 in centers. Rainfall events combined with cool temperature in early May caused some planting delays throughout the region, but ultimately provided good soil moisture for planting. Timely rainfall continued from planting through the first week of July, with the Quaker Farm receiving 5.2 inches from May 28<sup>th</sup> through July 8<sup>th</sup>. Overall, cotton had a late start but caught up with above average heat unit accumulation in July and August. Hot dry weather at peak bloom affected staple length development in stressed fields, and most tests approached cut-out by the first of September, with high percent boll set. Insect and Verticillium wilt pressure was light. Rains came again in late September, followed by an early freeze officially recorded at Lubbock on October 12. The dryland uniform variety test at Lubbock was lost to a hail event on July 24.

## ACKNOWLEDGMENTS

Fiber properties were measured at the Fiber and Biopolymer Research Institute, Texas Tech University with financial support from Texas A&M AgriLife Research Fiber Initiative. Plains Cotton Improvement Program and CSREES Hatch project 09297TX supplement variety testing fees from participating companies. The Plains Cotton Improvement Committee facilitates this independent variety testing service and provides guidance for the variety testing strategy of the Texas A&M AgriLife Research cotton breeding project at Lubbock. Planting, seed and field preparation, plot maintenance, harvest, sample ginning, and data collection were performed by: Trevor Abbo, Addisu Ayele, Maria Baker, Bryson Batla, Jarrett Butler, Stetson Coffman, Seth Cone, Brock Dixon, William Grindstaff, Tucker Howell, Keigan Kilgore, Joshua Marriott, Hayden Miller, Baylee Owen, Caleb Phillips, Blake Ramsey, Colton Scitern, Monica Sheehan, Trey Sowell, Reagan Swinburn, William Thompson, Leslie Wells, Payton Wylie, Zane Wyatt, and John Zwonitzer. Bacterial blight, Verticillium wilt, and root-knot nematode ratings were conducted by the Texas A&M AgriLife Research plant pathology project at Lubbock under the supervision of Dr. Terry Wheeler.

## 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

<b>Soil Type</b>	<b>Date Planted</b>	<b>Date Harvested</b>	<b>Production Information</b>
<b>Lubbock Uniform Irrigated</b>			
Acuff Loam	May 22	November 14	fertilizer: 36-40-0 and 54-0-0 lbs/A 3 herbicide applications (1PPI, 1 pre, 1 post) 7.95 acre inches in season (2 furrow) no defoliant application
<b>Lubbock Late Planted Irrigated</b>			
Acuff Loam	June 12	November 18	
<b>Lubbock New Varieties and Strains</b>			
Acuff Sandy Clay Loam	May 29	November 4	fertilizer: 80-20-0 lbs/A 4 herbicide applications (2 pre, 2 post) NVST: 0.20/day rate, drip irrigation RHQ: 0.10/day rate, drip irrigation defoliant + boll opener: 1 application
<b>Lubbock Regional High Quality</b>			
Acuff Sandy Clay Loam	May 29	November 4	
<b>Lamesa Uniform Dryland</b>			
Amarillo Fine Sandy Loam	May 16	November 1	fertilizer: 80-20-0 lbs/A 3 herbicide application (1PPI, 1 pre, 1 post) 3.10 pre-irrigation for rain simulation 5.12 inches rainfall in season defoliant + boll opener: 2 applications defoliant + crop oil: 1 application
<b>Halfway Uniform Irrigated</b>			
Pullman Clay Loam	May 15	December 2	fertilizer: 32-0-0 (twice) and 10-34-0 lbs/A 4 herbicide applications (1PPI, 1 pre, 2 post) 2 insecticide application 1 PGR application 7.85 acre inches in season (pivot) no defoliant application
<b>Lubbock Verticillium Wilt</b>			
Acuff Sandy Clay Loam	May 30	November 12	fertilizer: 80-20-0 lbs/A 4 herbicide applications (2 pre, 2 post) 0.2/day drip irrigation defoliant + boll opener: one application
<b>Lamesa AG-CARES Nematode Irrigated</b>			
Amarillo Fine Sandy Loam	May 16	October 28	fertilizer: 130-35-0 lbs/A fertilizer: 32-0-0 lbs/A fertigation 2 herbicide application (1 PPI, 1 pre) 10.24 acre inches in season (pivot) rkn
<b>Lamesa AG-CARES Uniform Irrigated</b>			
Amarillo Fine Sandy Loam	May 16	November 1	7.7 acre inches in season (pivot) uni defoliant + boll opener: 2 applications defoliant + crop oil: 1 application

Table 2. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2019.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	15-Oct	Resistance	Height
FiberMax FM 2498GLT	1393	30.0	39.2	38.6	30.8	5.9	9.9	7.1	32.4	83	5	27
FiberMax FM 1911GLT	1335	27.8	40.1	37.8	30.2	5.8	10.3	6.7	32.8	79	7	26
Deltapine DP 1822 XF	1286	27.9	39.4	38.5	30.8	5.4	11.1	7.3	28.5	89	5	30
PhytoGen PX2C14W3FE	1281	28.8	40.8	35.6	28.2	5.5	8.9	5.4	36.3	81	6	26
PhytoGen PHY 320 W3FE	1262	26.1	38.5	38.2	30.4	5.6	9.6	6.4	33.0	89	6	28
PhytoGen PHY 300 W3FE	1256	29.8	39.1	40.4	31.7	5.0	8.4	6.0	33.3	88	6	28
Deltapine DP 1845 B3XF	1251	30.3	36.9	40.0	31.5	4.5	8.4	6.0	29.5	81	5	28
Deltapine DP 1948 B3XF	1212	29.6	37.9	39.6	31.6	5.5	8.4	6.0	36.1	76	5	30
Tamcot G11	1207	27.2	41.5	35.6	29.1	5.7	10.0	6.2	32.9	83	5	29
PhytoGen PHY 499 WRF	1206	29.5	38.8	38.7	30.1	5.1	8.7	5.9	33.6	81	4	30
Deltapine DP 1549 B2XF	1202	29.0	36.7	38.6	31.3	4.9	8.3	5.5	34.3	70	4	32
FiberMax FM 2398GLTP	1198	30.8	37.6	41.0	32.4	5.5	8.7	6.5	34.9	86	6	27
PhytoGen PHY 580 W3FE	1197	30.1	37.4	39.0	31.3	5.1	9.0	6.5	30.5	75	6	30
∞ International Seed Technology BRS 293	1177	26.1	39.5	37.9	30.5	5.2	9.5	6.2	31.9	75	4	31
	1172	29.4	37.1	40.3	31.9	5.0	8.6	6.2	32.9	59	5	29
NexGen NG 2982 B3XF	1162	28.1	39.7	36.1	28.7	5.2	9.6	6.0	31.3	89	5	25
PhytoGen PHY 210 W3FE	1157	28.1	39.4	40.0	30.4	5.1	9.6	6.7	30.5	90	7	24
PhytoGen PHY 340 W3FE	1132	28.8	36.8	38.3	30.1	5.0	8.8	6.3	30.4	85	6	29
NexGen NG 4777 B2XF	1129	28.1	40.7	37.9	30.4	5.7	9.2	6.0	36.3	84	5	28
International Seed Technology BRS 335	1120	28.2	42.9	36.8	29.0	5.3	9.2	5.5	35.4	76	5	29
PhytoGen PHY 394 W3FE	1108	27.0	39.8	37.7	29.8	5.0	9.1	5.8	32.8	87	7	28
PhytoGen PHY 400 W3FE	1101	29.8	37.2	38.4	30.3	4.8	8.6	5.9	31.3	91	6	25
PhytoGen PHY 480 W3FE	1100	27.8	39.1	39.9	31.9	5.1	9.4	6.4	31.4	83	6	28
Deltapine DP 1612 B2XF	1093	27.4	38.6	38.3	30.4	4.6	9.1	6.0	29.4	90	4	27
PhytoGen PHY 764 WRF	1091	29.0	39.2	38.5	30.3	4.8	8.9	5.9	31.2	79	4	28
FiberMax FM 1621GT	1088	29.6	35.7	40.4	32.2	6.1	9.4	7.1	34.4	78	6	26
NexGen NG 3930 B3XF	1084	29.1	40.0	38.4	30.3	4.5	8.3	5.7	30.3	88	5	25
Stoneville ST 5707B2XF	1081	28.8	42.0	38.3	31.1	6.0	10.3	6.6	34.9	73	5	29
Tamcot 73	1064	25.9	42.0	34.9	28.5	5.4	9.1	5.4	35.2	91	5	23
Brownfield Seed and Delinting BSD 224	1045	27.5	41.3	36.7	28.3	5.4	9.6	5.8	34.0	90	6	27

Table 2. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2019.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	15-Oct	Resistance	
PhytoGen PHY 350 W3FE	1044	29.1	38.8	36.5	28.9	4.9	9.5	6.0	29.7	86	6	27
NexGen NG 4792 XF	1042	27.1	38.4	35.9	29.1	5.3	8.9	5.5	33.9	83	6	28
Seed Source Genetics SSG UA 114	1042	26.9	42.8	35.5	28.6	5.7	10.4	6.1	33.4	81	3	29
International Seed Technology BRS 416	1018	25.9	44.8	33.7	27.4	6.1	11.8	6.1	33.5	74	4	31
NexGen NG 4689 B2XF	1005	28.3	40.0	38.5	30.4	5.6	9.3	6.3	34.3	83	6	30
International Seed Technology BRS 286	1001	27.8	41.0	37.2	30.0	5.2	9.3	5.7	33.9	85	4	28
FiberMax FM 2574GLT	994	29.1	36.2	41.6	32.9	5.3	8.4	6.3	35.2	88	5	27
Stoneville ST 5600B2XF	989	29.9	38.4	39.7	32.2	5.7	9.4	6.7	33.6	69	5	32
Brownfield Seed and Delinting BSD 9X	978	26.7	41.5	36.5	28.7	5.1	9.2	5.6	33.5	84	6	25
Deltapine DP 1646 B2XF	975	29.7	36.6	40.5	32.4	4.9	8.5	6.0	32.9	78	5	30
NexGen NG 3640 XF	970	28.2	40.2	37.0	30.2	5.3	9.3	6.0	32.5	78	5	29
NexGen NG 3780 B2XF	965	26.9	40.1	38.8	30.6	4.8	8.6	5.7	32.7	86	5	26
Brownfield Seed and Delinting BSD 598	948	24.8	39.2	36.8	28.9	5.5	9.7	5.8	34.7	89	5	27
NexGen NG 4545 B2XF	945	28.1	39.7	38.1	30.5	5.5	9.1	5.9	35.2	79	5	30
Seed Source Genetics SSG UA 222	926	27.0	38.9	39.2	31.1	5.2	10.9	7.3	28.3	88	5	24
Brownfield Seed and Delinting BSD Ton												
Buster Elite	921	25.2	41.2	36.3	28.9	5.5	9.7	5.8	34.5	78	3	29
NexGen NG 3956 B3XF	907	27.6	41.8	35.0	27.9	5.1	9.2	5.4	33.2	83	6	28
PhytoGen PHY 250 W3FE	784	27.1	37.3	37.2	29.2	5.0	9.5	6.1	30.7	88	6	25
Mean	1097	28.1	39.4	38.0	30.2	5.3	9.3	6.1	32.8	82	5	28
c.v.%	17.5	3.4	3.9	1.7	2.5	6.1	5.8	6.3	6.3	10.1	15.8	10.1
LSD 0.05	225	1.1	1.8	1.1	1.3	0.5	0.9	0.6	3.5	10	1	3

Table 2A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
FiberMax FM 2498GLT	4.6	1.08	81.0	31.1	6.0	77.3	8.4	3	31-1
FiberMax FM 1911GLT	3.9	1.11	81.1	30.8	6.5	73.5	8.4	4	31-4,41-1
Deltapine DP 1822 XF	4.5	1.15	81.9	34.1	6.1	75.3	8.3	3	31-4,41-1
PhytoGen PX2C14W3FE	4.3	1.08	79.5	30.5	6.7	75.2	8.5	3	31-2,31-4
PhytoGen PHY 320 W3FE	3.8	1.12	81.6	31.8	6.5	75.3	8.5	3	31-2,41-1
PhytoGen PHY 300 W3FE	4.3	1.09	80.7	31.4	5.9	74.6	8.4	4	41-1
Deltapine DP 1845 B3XF	4.3	1.20	80.8	33.4	7.5	75.0	7.6	3	41-1,41-2
Deltapine DP 1948 B3XF	4.3	1.20	81.8	32.1	7.9	77.0	7.7	4	31-1,41-1
Tamcot G11	4.4	1.12	80.1	32.0	6.0	74.8	8.4	3	31-4,41-1
PhytoGen PHY 499 WRF	4.3	1.07	81.5	32.0	7.0	71.8	8.6	5	41-4,42-1
Deltapine DP 1549 B2XF	4.6	1.13	80.4	33.2	5.8	76.6	7.9	3	31-1,41-1
FiberMax FM 2398GLTP	4.6	1.11	80.7	30.7	6.2	76.5	8.3	3	31-2
PhytoGen PHY 580 W3FE	4.3	1.10	80.1	32.1	6.0	73.5	8.9	3	41-3,42-1
International Seed Technology BRS 293	4.5	1.09	80.6	32.2	6.4	73.9	8.7	2	31-4,41-3
Deltapine DP 1820 B3XF	4.5	1.13	81.2	32.6	6.2	73.8	8.7	4	41-3
NexGen NG 2982 B3XF	4.2	1.10	80.3	31.4	6.3	70.2	8.9	5	42-1,52-1
PhytoGen PHY 210 W3FE	4.5	1.08	80.4	31.1	5.5	75.7	8.7	3	31-2,31-4
PhytoGen PHY 340 W3FE	4.3	1.11	81.5	30.3	6.4	76.3	8.6	4	31-1,31-4
NexGen NG 4777 B2XF	4.7	1.07	79.8	29.7	5.5	75.9	9.2	3	31-1,32-2
International Seed Technology BRS 335	3.9	1.08	80.4	30.2	6.0	76.0	8.1	3	31-2,41-1
PhytoGen PHY 394 W3FE	4.1	1.09	80.3	30.0	6.5	74.0	8.4	4	31-4,41-1
PhytoGen PHY 400 W3FE	4.2	1.10	81.6	30.5	6.7	74.3	8.7	4	41-3
PhytoGen PHY 480 W3FE	4.0	1.10	81.6	30.1	7.1	74.1	8.8	4	31-4,41-3
Deltapine DP 1612 B2XF	4.3	1.11	81.0	30.9	6.6	71.3	8.5	5	41-1,52-1
PhytoGen PHY 764 WRF	4.1	1.09	80.3	32.4	6.5	72.4	8.8	5	41-3,42-1
FiberMax FM 1621GT	4.2	1.08	80.6	32.9	5.6	73.2	8.4	4	41-1,41-3
NexGen NG 3930 B3XF	4.5	1.11	80.7	31.3	6.1	74.7	8.2	3	31-2,41-3
Stoneville ST 5707B2XF	4.4	1.11	82.1	33.1	6.5	74.4	9.1	3	31-3,42-1
Tamcot 73	4.1	1.13	81.5	34.3	6.2	72.8	8.4	4	41-3,41-4
Brownfield Seed and Delinting BSD 224	4.1	1.07	80.3	31.5	5.6	74.0	8.7	4	41-3

Table 2A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 350 W3FE	4.5	1.11	81.3	31.1	6.1	76.1	8.5	3	31-1,31-4
NexGen NG 4792 XF	4.6	1.05	80.6	31.4	6.5	72.6	9.8	4	32-1,42-1
Seed Source Genetics SSG UA 114	3.9	1.10	81.0	31.9	6.5	73.2	8.3	4	31-4,51-3
International Seed Technology BRS 416	4.5	1.24	82.1	34.6	5.7	76.5	7.7	3	31-2,41-1
NexGen NG 4689 B2XF	4.9	1.05	80.7	29.5	5.6	74.0	9.1	4	31-3,41-3
International Seed Technology BRS 286	4.3	1.05	80.4	30.1	6.2	74.3	8.2	4	31-2,41-3
FiberMax FM 2574GLT	4.6	1.15	81.1	33.0	6.2	73.5	7.6	3	41-1,51-3
Stoneville ST 5600B2XF	4.8	1.11	81.5	32.0	7.0	74.7	8.8	4	31-2,41-3
Brownfield Seed and Delinting BSD 9X	4.3	1.07	80.0	30.7	5.8	74.2	8.7	3	41-1,42-1
Deltapine DP 1646 B2XF	4.2	1.12	81.1	29.9	6.9	74.4	8.2	4	41-1,41-3
NexGen NG 3640 XF	4.7	1.08	81.7	31.5	6.9	74.2	9.4	2	31-3,32-2
NexGen NG 3780 B2XF	4.5	1.08	79.6	30.3	6.6	73.0	8.8	4	41-3,42-1
Brownfield Seed and Delinting BSD 598	4.4	1.08	81.7	30.8	6.6	75.7	8.4	2	31-1,41-1
NexGen NG 4545 B2XF	4.4	1.08	80.4	30.2	5.6	73.6	8.9	4	41-3,42-1
Seed Source Genetics SSG UA 222	4.3	1.08	80.9	30.7	7.0	73.0	9.0	5	41-3,42-1
Brownfield Seed and Delinting BSD Ton									
Buster Elite	4.4	1.06	80.1	27.9	6.5	73.9	8.8	2	32-2,41-1
NexGen NG 3956 B3XF	4.2	1.07	80.6	29.8	6.6	74.9	9.1	4	31-3,31-4
PhytoGen PHY 250 W3FE	4.2	1.10	80.4	30.9	5.8	74.8	8.5	3	31-4,41-1
Mean	4.3	1.10	80.8	31.4	6.3	74.3	8.5	3	
c.v.%	6.8	2.9	1.1	4.9	5.3	2.3	4.8	31.9	
LSD 0.05	0.5	0.05	1.5	2.6	0.6	2.9	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, 2019.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	15-Oct	Resistance	Height
FiberMax FM 2498GLT	1397	29.9	35.1	42.5	33.9	6.3	10.1	7.8	34.3	79	5	29
NexGen NG 4792 XF	1307	28.9	37.1	39.3	31.3	6.1	9.0	6.4	37.6	78	5	29
Deltapine DP 1822 XF	1303	29.7	36.1	40.9	32.7	5.7	10.0	7.5	31.2	83	5	30
NexGen NG 3930 B3XF	1296	28.9	39.2	41.1	31.3	5.2	8.4	6.2	34.6	85	5	28
NexGen NG 4689 B2XF	1294	28.9	38.7	39.7	31.2	6.5	9.7	6.8	38.1	75	5	33
FiberMax FM 2398GLTP	1282	30.7	33.8	43.2	34.3	6.0	9.0	7.4	34.8	80	6	27
NexGen NG 4777 B2XF	1275	28.8	36.0	40.1	32.1	6.3	9.7	6.9	36.5	73	5	32
NexGen NG 3640 XF	1230	28.2	39.5	39.8	32.0	5.5	10.0	7.0	31.6	70	5	31
FiberMax FM 1621GT	1209	31.2	37.5	44.1	34.4	6.1	9.7	8.1	33.4	81	6	28
PhytoGen PX2C14W3FE	1199	28.5	38.4	38.1	29.8	4.6	9.0	6.0	29.2	84	7	29
Deltapine DP 1612 B2XF	1180	29.5	37.9	40.5	31.4	5.6	9.3	6.7	34.0	79	5	29
NexGen NG 3780 B2XF	1157	28.8	39.9	38.1	29.9	5.9	8.8	6.0	37.7	81	5	32
PhytoGen PHY 320 W3FE	1156	27.4	36.2	40.6	31.2	5.7	9.2	6.7	34.7	88	5	25
FiberMax FM 2574GLT	1146	28.8	39.8	42.6	33.4	5.8	8.5	7.0	35.2	79	5	31
Deltapine DP 1948 B3XF	1138	33.5	37.6	40.8	33.0	5.8	8.7	6.4	36.3	39	5	29
PhytoGen PHY 250 W3FE	1122	29.4	35.4	39.7	29.6	5.7	9.8	6.9	32.8	83	6	24
Deltapine DP 1549 B2XF	1121	28.2	38.4	40.1	34.3	5.6	8.3	6.0	37.8	59	5	34
PhytoGen PHY 210 W3FE	1106	29.3	37.1	38.2	30.4	5.7	9.8	6.6	33.4	85	6	23
PhytoGen PHY 394 W3FE	1105	24.5	38.6	38.7	30.4	6.3	9.7	6.5	37.4	70	6	27
Deltapine DP 1845 B3XF	1095	29.5	34.0	41.0	32.7	5.8	8.8	6.6	35.8	54	5	31
PhytoGen PHY 764 WRF	1085	28.2	37.8	40.1	31.0	5.7	10.1	7.1	32.2	66	3	30
NexGen NG 3956 B3XF	1068	28.0	37.1	40.1	31.4	6.0	9.5	6.6	36.5	65	6	30
PhytoGen PHY 350 W3FE	1065	28.8	34.5	38.9	30.2	5.6	9.9	6.8	32.2	73	6	29
Deltapine DP 1646 B2XF	1051	31.4	37.3	43.9	36.1	5.1	7.9	6.7	33.8	55	5	31
PhytoGen PHY 400 W3FE	1051	27.0	38.5	41.5	32.6	5.1	8.4	6.4	33.5	79	6	26
International Seed Technology BRS 286	1042	24.9	37.9	38.1	30.4	5.9	10.4	6.7	33.6	68	4	34
Stoneville ST 5707B2XF	1020	24.9	35.9	37.5	29.8	6.5	10.0	6.6	36.9	59	5	32
International Seed Technology BRS 293	1005	26.2	39.7	36.8	29.2	5.9	9.3	5.8	37.1	73	5	30
PhytoGen PHY 480 W3FE	997	27.9	35.8	38.9	29.8	5.9	9.3	6.4	36.0	68	6	27
NexGen NG 2982 B3XF	984	26.0	36.5	44.5	34.6	5.8	8.7	7.5	34.6	81	5	27

Table 3. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2019.

Designation	Yield	Agronomic Properties						% Open			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 15-Oct	Storm Resistance
		Lint	Seed	Picked	Pulled						
Deltapine DP 1820 B3XF	970	29.4	37.1	40.9	33.2	5.8	9.4	7.2	33.3	68	5
NexGen NG 4545 B2XF	968	27.8	39.0	42.2	33.5	6.4	9.5	7.1	37.4	60	5
PhytoGen PHY 580 W3FE	958	27.5	37.7	42.7	33.2	5.6	9.3	7.4	32.4	68	5
PhytoGen PHY 300 W3FE	950	25.7	39.0	41.7	30.6	4.9	8.0	6.3	32.4	68	6
Seed Source Genetics SSG UA 222	948	27.9	41.4	37.7	30.1	5.9	10.1	6.6	33.5	70	6
Brownfield Seed and Delinting BSD 9X	939	26.0	39.0	38.3	29.9	6.0	10.5	6.9	33.7	61	5
PhytoGen PHY 499 WRF	931	25.4	37.6	38.0	30.1	5.8	9.4	6.2	35.4	40	6
PhytoGen PHY 340 W3FE	928	25.7	34.6	42.8	32.5	5.2	8.8	7.0	32.0	85	6
Tamcot 73	920	25.8	37.2	37.1	29.7	6.0	9.2	5.8	38.0	78	6
International Seed Technology BRS 416	917	29.0	35.4	35.1	27.9	6.6	9.7	5.5	44.6	51	4
FiberMax FM 1911GLT	915	25.8	36.9	41.1	31.9	6.6	11.4	8.4	31.9	76	6
Brownfield Seed and Delinting BSD 598	914	25.3	39.0	37.8	29.1	6.0	10.3	6.6	34.4	73	5
Seed Source Genetics SSG UA 114	889	25.9	36.1	36.1	28.0	5.9	9.6	5.8	36.3	80	5
Brownfield Seed and Delinting BSD 224	869	25.5	38.3	37.6	29.4	6.8	10.5	6.7	38.3	56	6
International Seed Technology BRS 335	851	23.7	38.7	37.0	29.4	5.4	9.6	6.1	32.9	69	6
Tamcot G11	823	26.8	35.5	38.1	29.6	6.2	10.0	6.5	36.0	67	5
Brownfield Seed and Delinting BSD Ton	758	25.3	38.3	35.7	27.5	5.9	9.9	5.8	36.2	65	6
Buster Elite	721	26.5	39.5	43.1	34.4	6.8	9.7	7.8	37.8	30	5
Stoneville ST 5600B2XF											31
Mean	1055	27.7	37.4	39.8	31.3	5.8	9.4	6.7	35.0	70	5
c.v.%	14.1	5.3	5.0	1.6	2.0	5.6	5.6	5.1	6.7	15.5	12.1
LSD 0.05	175	1.7	2.2	1.0	1.1	0.5	0.9	0.6	4.0	13	1
											2

Table 3A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
FiberMax FM 2498GLT	4.4	1.10	80.0	29.8	6.1	77.0	8.2	2	31-1,31-2
NexGen NG 4792 XF	4.3	1.11	81.0	32.0	5.9	76.9	8.1	3	31-2
Deltapine DP 1822 XF	4.4	1.15	81.4	30.7	7.9	77.9	8.6	3	31-1
NexGen NG 3930 B3XF	4.5	1.06	80.6	30.0	5.7	76.7	9.2	2	31-3
NexGen NG 4689 B2XF	4.5	1.06	81.3	32.0	7.0	74.4	10.2	2	32-1
FiberMax FM 2398GLTP	4.3	1.12	79.8	31.6	6.1	78.0	8.2	3	31-1
NexGen NG 4777 B2XF	4.6	1.05	80.3	30.8	5.8	77.3	7.8	4	31-1
NexGen NG 3640XF	4.0	1.12	81.6	29.0	6.8	74.5	9.5	3	31-3,32-1
FiberMax FM 1621GT	4.4	1.10	80.0	29.7	6.1	76.2	8.0	3	31-2,41-1
PhytoGen PX2C14W3FE	4.1	1.14	81.3	30.2	7.6	73.2	10.7	3	23-4,32-1
Deltapine DP 1612 B2XF	4.3	1.08	79.8	30.2	6.2	76.1	9.2	3	31-1,32-1
NexGen NG 3780 B2XF	4.2	1.08	81.3	28.7	7.1	75.8	9.9	2	22-1,32-1
PhytoGen PHY 320 W3FE	3.9	1.11	79.9	29.9	6.9	76.7	9.7	2	22-1,31-3
FiberMax FM 2574GLT	4.3	1.09	82.0	30.4	7.2	75.3	10.0	3	22-2,32-1
Deltapine DP 1948 B3XF	4.4	1.08	80.0	29.7	6.3	76.5	8.5	2	31-1,31-2
PhytoGen PHY 250 W3FE	4.3	1.10	81.1	30.7	6.6	74.5	9.6	3	32-1
Deltapine DP 1549 B2XF	4.3	1.15	81.6	34.2	6.1	75.6	8.7	3	31-2,31-4
PhytoGen PHY 210 W3FE	4.4	1.09	82.1	31.1	6.7	75.0	8.7	3	31-3,41-3
PhytoGen PHY 394 W3FE	3.8	1.13	82.2	31.2	7.1	74.6	9.6	4	33-1,41-1
Deltapine DP 1845 B3XF	4.3	1.10	80.9	32.3	5.9	74.6	8.5	4	31-4,41-1
PhytoGen PHY 764 WRF	4.0	1.11	81.3	29.9	7.7	75.6	9.4	3	31-3,32-1
NexGen NG 3956 B3XF	4.5	1.07	80.1	31.4	5.6	76.3	9.3	3	31-3
PhytoGen PHY 350 W3FE	4.2	1.05	79.9	29.4	7.0	75.0	9.7	3	32-1
Deltapine DP 1646 B2XF	4.3	1.15	81.1	28.8	7.5	77.3	9.1	3	31-1,21-4
PhytoGen PHY 400 W3FE	4.1	1.08	80.6	30.4	6.9	76.3	8.7	3	22-2,31-2
International Seed Technology BRS 286	3.9	1.11	81.1	30.8	6.7	75.8	9.3	3	31-3,32-1
Stoneville ST 5707B2XF	3.6	1.10	81.4	32.5	7.1	73.1	10.3	3	22-2,32-2
International Seed Technology BRS 293	3.4	1.18	80.5	32.5	6.3	74.9	9.7	3	31-3,32-1
PhytoGen PHY 480 W3FE	4.0	1.10	80.1	30.6	6.6	75.7	8.8	3	31-2,31-4
NexGen NG 2982 B3XF	4.4	1.10	79.9	30.3	6.8	73.8	10.5	3	22-2,32-1

Table 3A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Deltapine DP 1820 B3XF	4.3	1.15	81.2	31.8	7.5	77.5	8.8	4	31-1
NexGen NG 4545 B2XF	4.2	1.09	81.4	30.5	6.7	74.4	10.6	2	21-4,23-2
PhytoGen PHY 580 W3FE	3.9	1.09	79.5	31.3	6.2	75.0	8.5	4	31-1,31-2
PhytoGen PHY 300 W3FE	4.1	1.05	80.7	30.5	5.7	75.4	9.3	2	21-4,31-4
Seed Source Genetics SSG UA 222	4.2	1.10	81.0	31.9	6.8	74.1	10.1	2	32-1,32-2
Brownfield Seed and Delinting BSD 9X	3.7	1.06	79.8	31.3	6.6	75.5	8.8	3	32-1,41-1
PhytoGen PHY 499 WRF	4.0	1.10	81.7	33.7	6.7	74.1	9.2	3	31-1,32-2
PhytoGen PHY 340 W3FE	3.6	1.10	81.5	30.0	7.6	75.0	10.7	2	22-2,23-1
Tamcot 73	3.1	1.11	80.6	30.0	6.3	74.9	9.7	3	31-3,32-1
International Seed Technology BRS 416	4.0	1.12	79.6	31.8	6.1	74.8	10.4	2	22-1,32-1
FiberMax FM 1911GLT	3.5	1.11	81.0	30.8	6.1	77.3	9.4	3	22-1,31-1
Brownfield Seed and Delinting BSD 598	4.3	1.06	80.6	29.7	6.8	75.6	9.3	3	31-3
Seed Source Genetics SSG UA 114	4.1	1.09	80.4	30.9	6.9	71.5	12.0	2	23-2,32-1
Brownfield Seed and Delinting BSD 224	3.2	1.11	80.3	31.3	6.0	76.2	9.4	2	22-1,31-2
International Seed Technology BRS 335	3.8	1.23	81.8	36.2	5.5	76.8	9.4	2	22-2,31-1
Tamcot G11	3.8	1.06	79.5	29.3	6.5	75.6	9.2	2	21-2,32-2
Brownfield Seed and Delinting BSD Ton									
Buster Elite	3.9	1.06	80.1	32.2	6.7	75.1	10.2	2	22-2,32-1
Stoneville ST 5600B2XF	3.5	1.12	81.4	33.4	6.6	73.0	9.6	4	32-1,41-3
Mean	4.1	1.10	80.7	31.0	6.7	75.4	9.4	2	
c.v.%	9.4	2.5	0.9	3.8	4.2	1.5	6.7	31.6	
LSD 0.05	0.6	0.05	1.3	2.0	0.5	1.9	1.1	1	

Table 4. Yield and agronomic property data from the dryland uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	12-Sep	Resistance
PhytoGen PHY 300 W3FE	662	24.1	29.7	37.9	29.9	3.9	9.0	6.1	25.0	76	5
PhytoGen PHY 499 WRF	612	27.2	34.9	38.3	30.6	3.6	9.0	6.2	22.2	71	5
Deltapine DP 1549 B2XF	607	26.7	35.8	37.0	29.8	4.1	7.4	4.9	30.7	54	4
FiberMax FM 1621GT	603	25.1	31.3	36.8	29.7	4.5	8.4	5.6	29.8	66	5
Deltapine DP 1612 B2XF	597	24.2	31.4	36.2	28.7	4.1	8.2	5.1	28.8	78	4
PhytoGen PHY 580 W3FE	592	26.3	30.2	38.5	29.6	3.8	8.0	5.7	25.4	61	5
Stoneville ST 5707B2XF	587	25.3	36.6	34.7	28.5	4.8	9.5	5.5	29.8	63	5
PhytoGen PHY 480 W3FE	586	26.8	30.0	39.3	31.0	4.2	7.4	5.4	30.3	76	5
PhytoGen PHY 350 W3FE	575	26.3	30.6	39.4	31.2	4.2	7.3	5.6	29.3	70	5
PhytoGen PHY 320 W3FE	558	22.5	30.7	37.6	28.7	3.9	7.9	5.2	28.1	75	5
PhytoGen PHY 340 W3FE	552	24.9	30.8	33.4	25.8	3.7	7.3	4.4	28.4	68	4
Deltapine DP 1845 B3XF	550	25.9	33.4	36.5	29.6	4.6	7.5	4.8	35.2	55	4
PhytoGen PHY 400 W3FE	546	24.8	33.3	35.5	28.1	3.8	7.8	4.8	27.5	78	6
NexGen NG 4792 XF	538	23.3	32.9	37.4	30.1	4.1	8.7	5.6	27.9	64	4
NexGen NG 4545 B2XF	537	24.5	35.0	36.4	29.3	4.1	7.9	4.8	30.9	64	5
PhytoGen PX2C14W3FE	526	23.6	33.3	35.2	27.6	4.3	7.3	4.3	34.8	65	6
Deltapine DP 1646 B2XF	515	26.9	32.3	40.2	32.6	3.8	7.1	5.3	29.1	65	4
Deltapine DP 1820 B3XF	499	25.3	32.2	37.1	28.5	3.4	7.9	5.1	25.0	74	5
PhytoGen PHY 210 W3FE	498	23.5	32.1	39.5	30.3	4.1	7.8	5.4	30.0	75	7
NexGen NG 3640 XF	490	24.0	34.1	33.6	27.3	3.9	7.6	4.4	29.3	58	4
FiberMax FM 2398GLTP	486	26.4	34.1	35.1	27.5	4.4	8.0	4.9	31.5	71	5
FiberMax FM 2498GLT	484	26.1	34.0	38.6	30.2	4.3	8.4	5.5	30.1	70	6
NexGen NG 3930 B3XF	477	22.8	33.2	34.0	26.8	3.7	7.5	4.3	29.4	75	5
PhytoGen PHY 394 W3FE	474	24.0	31.7	36.0	28.3	4.0	7.7	5.0	28.4	74	6
Seed Source Genetics SSG UA 222	469	24.2	36.0	34.8	28.9	4.6	9.2	5.3	29.5	61	4
Stoneville ST 5600B2XF	461	26.3	32.6	34.9	29.4	4.7	7.9	5.0	32.8	45	4
NexGen NG 3780 B2XF	453	22.0	34.0	32.9	26.2	4.0	8.2	4.5	29.3	70	4
Deltapine DP 1822 XF	450	23.3	36.3	34.8	27.4	3.7	8.8	5.1	25.4	80	5
FiberMax FM 1911GLT	438	24.8	35.4	36.2	28.6	4.4	9.9	6.1	26.8	74	7
FiberMax FM 2574GLT	429	25.1	28.8	39.9	30.8	3.5	7.4	5.6	24.8	73	5

Table 4. Yield and agronomic property data from the dryland uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	12-Sep	Resistance
International Seed Technology BRS 335	428	23.1	36.9	35.1	28.9	4.1	8.4	5.0	29.4	65	5
Brownfield Seed and Delinting BSD 9X	425	22.8	34.4	35.2	27.8	4.2	8.9	5.1	28.7	69	5
PhytoGen PHY 250 W3FE	424	23.1	32.1	35.4	27.4	3.9	7.8	4.7	29.1	80	6
NexGen NG 4689 B2XF	420	23.7	36.1	34.1	26.8	4.0	8.0	4.5	30.6	63	5
NexGen NG 3956 B3XF	418	24.2	39.2	34.7	27.4	4.2	8.2	4.7	31.6	75	6
NexGen NG 2982 B3XF	404	20.8	35.6	32.7	25.6	4.1	8.4	4.3	30.6	75	5
PhytoGen PHY 764 WRF	396	21.9	30.5	35.9	27.2	3.2	8.7	5.2	21.4	38	2
Tamcot 73	385	23.2	36.8	34.7	28.2	4.5	8.1	4.6	34.2	68	5
International Seed Technology BRS 416	381	22.8	40.2	32.0	25.4	4.0	9.3	4.7	27.2	54	4
Brownfield Seed and Delinting BSD 598	380	21.6	33.8	36.7	28.8	4.0	8.8	5.4	27.6	76	6
Brownfield Seed and Delinting BSD 224	379	22.0	34.1	35.5	27.8	4.0	8.4	5.0	28.3	75	4
Seed Source Genetics SSG UA 114	378	23.1	35.7	35.9	28.8	4.4	8.4	5.0	31.9	69	4
International Seed Technology BRS 286	364	23.6	35.8	34.2	26.7	4.0	8.3	4.7	29.0	64	3
International Seed Technology BRS 293	348	24.5	35.6	32.8	26.1	4.1	8.2	4.4	30.7	45	4
NexGen NG 4777 B2XF	341	21.2	37.4	33.2	26.0	4.1	8.1	4.3	31.4	60	5
Deltapine DP 1948 B3XF	336	24.5	32.8	36.6	29.5	4.1	7.7	5.0	29.9	51	4
Brownfield Seed and Delinting BSD Ton	322	21.0	36.4	32.7	25.2	3.4	8.5	4.6	24.7	70	4
Buster Elite	261	23.2	36.4	34.4	27.3	4.2	8.4	4.8	30.4	64	5
Tamcot G11											
Mean	472	24.1	33.9	35.8	28.4	4.0	8.1	5.0	29.0	67	5
c.v.%	22.8	4.9	4.9	2.1	3.0	6.5	6.1	7.4	7.3	15.3	18.4
LSD 0.05	126	1.4	1.9	1.2	1.4	0.4	0.8	0.6	3.5	12	1
											3

Table 4A. Fiber quality data from the dryland uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 300 W3FE	4.2	0.97	77.6	24.6	5.8	73.6	10.1	3	32-2,33-1
PhytoGen PHY 499 WRF	4.8	1.00	80.4	29.6	6.8	74.9	9.2	3	31-3,32-2
Deltapine DP 1549 B2XF	4.6	0.99	78.5	26.9	5.8	78.6	8.8	2	21-1,31-1
FiberMax FM 1621GT	4.3	1.01	78.4	27.2	5.4	74.7	9.0	3	31-4
Deltapine DP 1612 B2XF	4.2	1.02	79.6	28.4	6.6	71.5	9.6	5	42-1
PhytoGen PHY 580 W3FE	4.5	0.99	79.2	28.2	6.4	75.7	9.2	3	31-1,32-1
Stoneville ST 5707B2XF	5.2	1.05	80.0	31.3	6.0	73.4	9.0	3	41-3,42-1
PhytoGen PHY 480 W3FE	4.5	1.00	80.3	28.0	6.7	74.6	9.7	4	32-1
PhytoGen PHY 350 W3FE	4.7	0.99	79.2	28.1	7.0	75.0	9.3	4	31-3
PhytoGen PHY 320 W3FE	4.0	1.01	79.1	25.9	6.0	75.6	9.4	4	31-3,32-1
PhytoGen PHY 340 W3FE	4.1	0.99	78.1	25.1	5.7	72.6	10.2	3	32-1,32-2
Deltapine DP 1845 B3XF	4.3	1.09	79.0	29.0	6.5	74.9	8.4	4	31-4,41-1
PhytoGen PHY 400 W3FE	4.1	1.02	78.0	27.9	5.9	74.0	9.2	4	31-3,42-1
NexGen NG 4792 XF	4.4	0.98	79.5	28.2	6.2	73.9	10.6	3	22-2,321
NexGen NG 4545 B2XF	4.5	0.99	78.1	25.6	5.3	74.8	9.1	3	31-3,32-2
PhytoGen PX2C14W3FE	3.6	0.98	77.8	26.5	6.1	76.4	9.4	3	31-3,32-1
Deltapine DP 1646 B2XF	4.6	1.05	76.6	26.9	6.5	77.9	8.6	3	31-1
Deltapine DP 1820 B3XF	4.5	1.04	77.0	27.7	5.5	75.6	9.1	3	31-3
PhytoGen PHY 210 W3FE	4.0	1.00	78.4	27.9	5.5	77.0	9.1	4	21-4,31-3
NexGen NG 3640 XF	4.3	0.98	79.4	27.9	6.3	73.4	10.3	4	32-1
FiberMax FM 2398GLTP	4.4	1.01	78.4	24.7	5.7	76.3	9.5	2	21-4,32-1
FiberMax FM 2498GLT	4.2	1.01	76.6	25.2	5.5	77.6	9.6	3	21-3,31-3
NexGen NG 3930 B3XF	3.8	1.02	77.7	25.1	5.9	74.1	9.6	4	32-1,32-2
PhytoGen PHY 394 W3FE	4.1	1.02	77.1	27.1	5.7	76.2	9.1	5	31-3,31-4
Seed Source Genetics SSG UA 222	4.6	1.04	78.7	28.5	6.4	75.7	9.3	4	31-3
Stoneville ST 5600B2XF	4.8	0.98	78.2	26.5	6.4	74.0	10.0	2	32-1
NexGen NG 3780 B2XF	4.1	0.98	76.5	24.5	6.0	74.0	9.5	5	31-4,32-1
Deltapine DP 1822 XF	3.8	1.02	78.0	26.9	5.6	76.2	9.3	3	31-3
FiberMax FM 1911GLT	3.6	1.03	78.0	27.0	5.7	78.1	9.5	3	21-1,21-4
FiberMax FM 2574GLT	4.2	1.02	76.8	25.0	5.4	77.9	8.7	3	21-2,311

Table 4A. Fiber quality data from the dryland uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
International Seed Technology BRS 335	4.2	1.00	77.4	25.0	5.8	76.5	8.5	4	31-1,31-2
Brownfield Seed and Delinting BSD 9X	4.1	1.01	78.4	28.2	5.3	77.1	9.4	2	21-4
PhytoGen PHY 250 W3FE	4.2	0.99	77.8	26.3	5.6	76.3	9.3	4	21-2,32-1
NexGen NG 4689 B2XF	3.9	0.97	76.5	25.0	5.4	75.1	9.6	4	31-3,32-1
NexGen NG 3956 B3XF	4.1	0.98	77.8	26.2	6.0	73.5	10.7	3	22-2,32-1
NexGen NG 2982 B3XF	3.2	1.01	78.3	28.4	5.6	69.2	8.2	8	51-3,52-1
PhytoGen PHY 764 WRF	3.8	1.02	78.0	31.5	6.0	75.7	9.3	3	21-4,31-3
Tamcot 73	4.4	1.02	78.5	30.3	5.8	73.6	8.6	5	41-3
International Seed Technology BRS 416	4.5	1.10	78.5	30.8	5.3	77.7	8.6	2	31-1
Brownfield Seed and Delinting BSD 598	4.3	0.98	77.1	27.1	5.4	75.7	9.1	3	21-4,31-4
Brownfield Seed and Delinting BSD 224	4.2	0.99	78.7	26.6	5.5	76.2	9.1	2	21-4,31-4
Seed Source Genetics SSG UA 114	4.7	1.03	80.2	28.2	6.4	74.1	9.3	3	31-3,32-2
International Seed Technology BRS 286	4.7	0.97	77.8	26.7	5.6	76.3	9.0	3	31-3
International Seed Technology BRS 293	4.4	0.96	76.8	27.2	6.0	75.9	9.6	3	21-4,32-1
NexGen NG 4777 B2XF	3.5	0.98	77.2	23.1	5.2	73.5	9.6	3	32-1,32-2
Deltapine DP 1948 B3XF	4.7	1.02	77.3	29.1	6.7	76.0	9.1	3	31-1,32-1
Brownfield Seed and Delinting BSD Ton									
Buster Elite	4.1	0.99	77.6	24.9	6.1	75.9	9.4	3	31-1,32-1
Tamcot G11	3.5	1.05	74.9	25.1	5.7	75.9	9.6	5	21-4,32-1
Mean	4.2	1.00	78.1	27.1	5.7	75.2	9.3	3	
c.v.%	5.7	2.60	1.5	6.0	1.9	1.5	3.4	27.5	
LSD 0.05	0.4	0.04	2.0	2.7	0.2	1.9	0.5	1	

Table 5. Yield and agronomic property data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Boll	Strom	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	12-Sep	Resistance	
Deltapine DP 1612 B2XF	1002	26.5	35.6	37.3	29.6	4.0	8.1	5.4	27.9	74	4	30
PhytoGen PHY 394 W3FE	935	25.9	34.8	39.3	30.2	3.6	8.9	6.3	22.8	60	6	28
PhytoGen PHY 300 W3FE	913	27.0	35.5	39.4	30.3	4.5	7.4	5.3	33.3	64	5	31
PhytoGen PHY 480 W3FE	902	28.1	35.4	39.5	31.2	4.6	8.0	5.7	32.4	64	6	32
Deltapine DP 1822 XF	891	28.0	38.9	36.0	28.5	4.0	8.9	5.4	27.1	78	5	31
PhytoGen PX2C14W3FE	886	27.9	36.7	37.9	28.9	4.1	7.7	5.1	30.4	78	7	31
NexGen NG 3640 XF	881	27.9	40.4	38.3	30.2	4.2	8.3	5.5	29.8	65	5	33
FiberMax FM 2398GLTP	872	29.8	35.8	39.0	31.0	4.8	8.5	5.9	31.6	66	5	29
PhytoGen PHY 580 W3FE	854	28.0	33.9	41.3	31.3	3.6	8.2	6.5	23.2	63	5	31
PhytoGen PHY 499 WRF	852	27.7	38.5	38.7	30.8	3.7	7.9	5.5	26.0	65	5	33
Deltapine DP 1845 B3XF	846	28.0	35.2	37.1	30.2	4.2	7.5	5.0	31.3	60	5	32
FiberMax FM 1621GT	843	28.8	35.3	39.6	31.5	4.5	8.4	6.1	29.5	71	6	30
Stoneville ST 5707B2XF	838	26.7	38.3	37.8	31.1	5.3	10.2	6.6	30.3	51	4	34
Deltapine DP 1646 B2XF	835	29.2	34.9	41.3	33.3	3.9	7.6	6.0	26.9	55	5	32
FiberMax FM 2498GLT	832	28.2	37.5	38.0	30.4	5.1	9.3	6.1	31.3	65	5	31
PhytoGen PHY 320 W3FE	829	25.2	34.1	37.8	30.0	4.2	7.8	5.2	30.4	71	5	30
NexGen NG 3930B3XF	828	26.2	38.0	36.3	28.4	4.2	7.5	4.7	32.6	65	5	31
Seed Source Genetics SSG UA 222	813	27.6	40.7	37.6	30.5	4.3	9.3	6.0	27.4	50	4	29
NexGen NG 4792 XF	811	27.7	37.5	38.9	30.5	4.3	7.8	5.3	31.3	55	5	33
NexGen NG 4689 B2XF	804	27.7	39.2	35.7	28.3	4.4	8.3	5.0	31.5	56	5	33
Deltapine DP 1549 B2XF	799	27.5	37.1	37.6	30.1	3.8	7.6	5.0	28.8	48	4	34
PhytoGen PHY 400 W3FE	790	26.3	34.7	40.3	30.9	4.0	7.6	5.5	29.4	73	5	25
PhytoGen PHY 350 W3FE	788	27.0	35.9	39.5	30.8	4.2	8.6	6.0	27.5	64	5	28
PhytoGen PHY 250 W3FE	780	27.0	35.7	36.7	27.9	3.9	7.9	5.0	28.8	78	6	26
International Seed Technology BRS 286	779	26.8	38.5	36.6	28.6	4.1	9.0	5.5	27.3	53	3	32
NexGen NG 4545 B2XF	774	26.9	39.6	37.5	29.6	4.7	8.4	5.5	32.3	64	5	34
NexGen NG 4777 B2XF	774	25.8	38.8	32.9	26.6	4.1	8.9	4.7	28.5	55	4	34
PhytoGen PHY 340 W3FE	774	26.2	34.2	38.9	30.0	3.8	7.7	5.5	27.0	70	5	31
NexGen NG 3780 B2XF	771	25.8	37.8	36.5	29.1	4.1	8.2	5.1	29.5	65	4	33
FiberMax FM 2574GLT	735	28.4	35.1	40.0	30.7	4.1	7.7	5.8	28.1	79	5	31

Table 5. Yield and agronomic property data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Stoneville ST 5600B2XF	730	29.0	38.7	39.8	32.2	4.8	8.7	6.2	30.8	35	4	34
Deltapine DP 1948 B3XF	727	29.4	37.5	38.1	30.8	4.4	7.7	5.3	32.3	51	5	31
PhytoGen PHY 764 WRF	720	25.1	35.5	37.9	28.7	3.5	9.0	5.7	23.3	49	4	33
PhytoGen PHY 210 W3FE	699	27.6	36.1	37.4	28.2	3.9	8.2	5.3	27.4	78	7	26
NexGen NG 3956 B3XF	690	25.8	39.5	34.9	28.1	4.7	8.7	5.1	32.3	59	5	32
Tamcot 73	664	25.3	39.4	35.2	28.1	4.3	8.5	5.0	29.9	68	5	26
FiberMax FM 1911GLT	660	26.9	38.6	38.8	30.3	5.0	9.5	6.4	30.3	73	6	28
Brownfield Seed and Delinting BSD 9X	645	25.8	39.3	36.4	28.8	4.7	10.2	6.2	28.1	64	5	27
Deltapine DP 1820 B3XF	622	27.6	36.1	39.3	31.0	3.5	8.2	5.8	23.6	75	6	33
NexGen NG 2982 B3XF	622	23.4	37.7	31.5	25.0	4.2	8.7	4.3	30.2	75	5	29
International Seed Technology BRS 335	616	25.7	40.7	37.3	30.2	4.0	8.4	5.4	27.8	51	4	31
International Seed Technology BRS 416	606	23.8	40.3	33.2	26.4	4.3	9.5	5.0	28.2	51	4	32
Brownfield Seed and Delinting BSD 598	596	26.0	40.0	35.7	28.3	4.5	8.7	5.2	31.0	66	5	30
Seed Source Genetics SSG UA 114	596	26.1	39.0	36.9	29.7	4.7	9.3	5.7	30.6	63	5	32
International Seed Technology BRS 293	588	25.4	40.6	36.6	28.7	3.8	8.6	5.4	26.1	50	4	30
Brownfield Seed and Delinting BSD Ton												
Buster Elite	553	24.3	40.0	36.3	28.7	4.2	9.8	6.0	25.7	58	5	30
Brownfield Seed and Delinting BSD 224	531	26.0	40.0	34.4	26.3	4.0	9.4	5.4	25.9	60	5	28
Tamcot G11	497	26.3	38.5	35.6	28.1	4.5	8.9	5.4	29.3	56	5	29
Mean	758	26.9	37.5	37.5	29.5	4.2	8.5	5.5	28.9	63	5	31
c.v.%	19.5	5.5	5.2	2.0	2.7	9.7	5.7	6.9	10.1	16.9	14.5	9.0
LSD 0.05	173	1.7	2.3	1.0	1.1	0.6	0.7	0.5	4.0	12	1	3

Table 5A. Fiber quality data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Deltapine DP 1612 B2XF	4.5	1.03	80.3	29.3	6.7	70.6	9.1	5	42-1,52-1
PhytoGen PHY 394 W3FE	4.4	1.05	78.0	26.5	5.7	75.5	8.7	4	31-2,31-3,41-1
PhytoGen PHY 300 W3FE	3.9	0.98	78.2	25.3	5.8	73.2	10.1	4	32-1,32-2,33-1
PhytoGen PHY 480 W3FE	4.6	1.00	79.5	27.8	6.9	75.2	9.3	4	31-3,32-1
Deltapine DP 1822 XF	3.9	1.05	78.2	28.3	5.7	76.9	9.0	3	22-1,31-1,31-2
PhytoGen PX2C14W3FE	4.2	0.99	79.3	27.4	6.3	77.0	8.6	3	31-1,31-2
NexGen NG 3640 XF	4.5	1.01	80.7	29.2	6.4	73.9	10.0	3	22-2,32-1,32-2
FiberMax FM 2398GLTP	4.5	1.00	79.3	26.4	5.6	76.4	9.1	3	21-2,31-1,32-1
PhytoGen PHY 580 W3FE	4.9	1.00	80.2	29.4	6.5	75.1	8.7	4	31-2,31-3,41-3
PhytoGen PHY 499 WRF	4.5	1.01	80.7	30.6	6.7	74.6	8.8	3	31-4,41-4
Deltapine DP 1845 B3XF	4.1	1.12	79.5	30.7	6.6	75.3	8.1	5	31-2,31-4,41-1
FiberMax FM 1621GT	4.1	1.00	78.5	26.4	5.4	74.4	8.8	5	31-2,32-1,41-1
Stoneville ST 5707B2XF	5.1	1.07	81.5	31.7	6.1	73.8	9.1	3	32-1,41-3,42-1
Deltapine DP 1646 B2XF	4.7	1.05	78.0	25.8	6.6	76.6	8.5	4	31-1,31-2
FiberMax FM 2498GLT	4.4	1.01	78.4	25.5	5.6	77.0	9.1	3	22-1,31-1,31-3
PhytoGen PHY 320 W3FE	3.9	1.01	79.6	26.3	5.9	74.9	9.1	4	22-2,31-4,41-3
NexGen NG 3930 B3XF	4.1	1.02	79.1	25.0	6.0	74.5	9.4	4	31-4,32-1,42-1
Seed Source Genetics SSG UA 222	5.0	1.05	80.1	29.5	6.4	76.5	8.8	4	21-2,31-3,41-1
NexGen NG 4792 XF	4.7	0.99	79.3	29.0	6.3	74.7	9.9	3	31-3,32-1
NexGen NG 4689 B2XF	4.3	1.02	79.0	26.1	5.3	74.6	9.0	5	31-4,32-1,41-3
Deltapine DP 1549 B2XF	4.5	0.99	77.5	26.2	5.6	76.3	8.8	3	31-1,31-2,31-3
PhytoGen PHY 400 W3FE	4.3	1.01	78.3	27.4	5.9	74.0	9.2	4	31-3,32-2,42-1
PhytoGen PHY 350 W3FE	4.4	1.03	79.2	26.5	6.1	75.3	9.2	3	31-3,32-2
PhytoGen PHY 250 W3FE	4.3	1.01	78.9	26.1	5.7	76.1	9.1	3	31-1,31-3
International Seed Technology BRS 286	4.7	0.98	78.8	28.0	5.7	76.0	8.4	3	31-1,31-2,41-1
NexGen NG 4545 B2XF	4.5	1.00	79.5	25.6	5.3	73.9	9.1	4	32-1,41-3
NexGen NG 4777 B2XF	3.9	1.01	78.5	25.0	5.3	74.6	9.0	4	31-4,32-2
PhytoGen PHY 340 W3FE	4.2	0.99	78.5	24.8	5.7	72.8	9.6	4	32-1,32-2,42-1
NexGen NG 3780 B2XF	4.1	1.01	77.7	26.3	6.0	74.2	9.4	4	31-4,32-1,32-2
FiberMax FM 2574GLT	4.5	1.04	78.2	26.7	5.5	75.5	8.3	4	31-1,31-2,41-4

Table 5A. Fiber quality data from the irrigated uniform cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Stoneville ST 5600B2XF	5.2	1.04	80.6	29.7	6.4	74.6	9.4	3	31-4,32-1,32-2
Deltapine DP 1948 B3XF	4.7	1.10	80.6	31.2	6.7	75.7	8.2	4	31-1,41-1
PhytoGen PHY 764 WRF	3.8	1.01	79.4	29.8	6.0	74.9	9.0	4	31-2,32-1,41-3
PhytoGen PHY 210 W3FE	3.9	1.01	79.4	27.0	5.5	76.6	9.1	4	31-1,31-3
NexGen NG 3956 B3XF	4.2	1.00	79.1	26.2	6.2	74.2	9.9	4	32-1
Tamcot 73	4.4	1.03	80.0	31.2	5.9	75.3	8.7	3	31-1,31-2,41-3
FiberMax FM 1911GLT	4.0	1.04	79.4	27.8	5.5	76.9	8.7	3	21-2,31-1,41-1
Brownfield Seed and Delinting BSD 9X	4.4	0.99	78.3	26.3	5.4	77.6	9.0	2	21-1,31-1,31-3
Deltapine DP 1820 B3XF	4.5	1.07	79.1	28.0	5.4	75.5	8.8	4	31-1,31-3,31-4
NexGen NG 2982 B3XF	3.5	0.99	79.2	27.8	5.6	70.9	8.1	7	41-2,41-4,51-3
International Seed Technology BRS 335	4.2	1.01	78.5	25.7	5.8	76.6	8.3	3	31-2
International Seed Technology BRS 416	4.3	1.10	79.3	29.2	5.3	76.6	8.5	2	31-1,31-2,31-3
Brownfield Seed and Delinting BSD 598	4.4	1.00	78.7	26.8	5.4	76.5	8.6	3	31-1,31-2,31-3
Seed Source Genetics SSG UA 114	4.7	1.03	80.5	28.1	6.4	74.2	9.0	4	31-4,32-1,41-3
International Seed Technology BRS 293	4.7	0.95	78.4	27.6	6.0	75.2	9.4	1	31-3,32-1
Brownfield Seed and Delinting BSD Ton									
Buster Elite	4.3	1.00	79.2	26.0	6.0	75.0	9.1	3	31-1,32-1,41-3
Brownfield Seed and Delinting BSD 224	4.2	1.00	78.5	27.8	5.4	77.3	9.0	3	22-1,31-1
Tamcot G11	4.0	1.03	76.3	25.3	5.7	75.7	9.6	3	21-4,22-2,31-3
Mean	4.4	1.02	79.1	27.5	5.9	75.2	9.0	4	
c.v.%	6.9	2.1	1.2	4.4	2.3	1.5	3.6	23.1	
LSD 0.05	0.4	0.03	1.3	1.6	0.2	1.5	0.4	1	

**Table 6. Yield summary over four locations of the uniform cotton variety performance tests conducted by Texas A&M AfriLife Research, Lubbock, 2019.**

Designation	Overall Average	Lubbock Irr Rank	Halfway Irr Rank	Lamesa Dry Rank	Lamesa Irr Rank
FiberMax FM 2498GLT	1027	1	1	22	15
Deltapine DP 1822 XF	983	3	3	28	5
PhytoGen PX2C14W3FE	973	4	10	16	6
Deltapine DP 1612 B2XF	968	24	11	5	1
FiberMax FM 2398GLTP	960	12	6	21	8
PhytoGen PHY 320 W3FE	951	5	13	10	16
PhytoGen PHY 300 W3FE	945	6	34	1	3
FiberMax FM 1621GT	936	26	9	4	12
Deltapine DP 1845 B3XF	936	7	20	12	11
Deltapine DP 1549 B2XF	932	11	17	3	21
NexGen NG 4792 XF	925	32	2	14	19
NexGen NG 3930 B3XF	921	27	4	23	17
PhytoGen PHY 394 W3FE	906	21	19	24	2
PhytoGen PHY 499 WRF	900	10	37	2	10
PhytoGen PHY 580 W3FE	900	13	33	6	9
PhytoGen PHY 480 W3FE	896	23	29	8	4
NexGen NG 3640 XF	893	41	8	20	7
Stoneville ST 5707B2XF	882	28	27	7	13
NexGen NG 4689 B2XF	881	35	5	34	20
NexGen NG 4777 B2XF	880	19	7	45	27
PhytoGen PHY 400 W3FE	872	22	25	13	22
PhytoGen PHY 350 W3FE	868	31	23	9	23
PhytoGen PHY 210 W3FE	865	17	18	19	34
Deltapine DP 1948 B3XF	853	8	15	46	32
PhytoGen PHY 340 W3FE	847	18	38	11	28
Deltapine DP 1646 B2XF	844	40	24	17	14
FiberMax FM 1911GLT	837	2	41	29	37
NexGen NG 3780 B2XF	837	42	12	27	29
FiberMax FM 2574GLT	826	37	14	30	30
PhytoGen PHY 764 WRF	823	25	21	37	33
Deltapine DP 1820 B3XF	816	15	31	18	39
NexGen NG 4545 B2XF	806	44	32	15	26
International Seed Technology BRS 286	797	36	26	43	25
NexGen NG 2982 B3XF	793	16	30	36	40
Seed Source Genetics SSG UA 222	789	45	35	25	18
International Seed Technology BRS 293	780	14	28	44	45
PhytoGen PHY 250 W3FE	778	48	16	33	24
NexGen NG 3956 B3XF	771	47	22	35	35
Tamcot 73	758	29	39	38	36
International Seed Technology BRS 335	754	20	45	31	41
Brownfield Seed and Delinting BSD 9X	747	39	36	32	38
International Seed Tehcnology BRS 416	731	34	40	39	42
Seed Source Genetics SSG UA 114	726	33	43	42	44
Stoneville ST 5600B2XF	725	38	48	26	31
Brownfield Seed and Delinting BSD 598	710	43	42	40	43
Brownfield Seed and Delinting BSD 224	706	30	44	41	47
Tamcot G11	697	9	46	48	48
Brownfield Seed and Delinting BSD Ton					
Buster Elite	639	46	47	47	46

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, 2013-2019.

Lubbock Irrigated								Lamesa Irrigated							
Designation	2015	2016	2017	2018	2019	Avg.	Comp. Average <sup>1/</sup>	Designation	2014	2015	2016	2017	2018	Avg.	Comp. Average <sup>1/</sup>
Five Year Average								Five Year Average							
NexGen NG 4545 B2XF	1051	949	1201	1196	945	1068		NexGen NG 4545 B2XF	975	1254	1174	1019	774	1039	
PhytoGen PHY 499 WRF	916	929	927	1285	1206	1053		PhytoGen PHY 499 WRF	677	1381	1574	1167	852	1130	
Seed Source Genetics SSG UA 222	946	859	896	1179	926	961		Seed Source Genetics SSG UA 222	679	1277	1225	950	813	988	
Four Year Average								Four Year Average							
Deltapine DP 1612 B2XF	936	1045	1481	1093	1139	1125		Deltapine DP 1612 B2XF	1737	1280	1113	1002	1283	1212	
Deltapine DP 1646 B2XF	876	1011	1200	975	1016	1012		Deltapine DP 1646 B2XF	1566	1411	1066	835	1220	1149	
FiberMax FM 1911GLT	781	1061	1415	1335	1148	1134		FiberMax FM 1911GLT	1600	1692	1051	660	1251	1180	
International Seed Technology BRS 293	924	1077	1041	1177	1055	1041		International Seed Technology BRS 293	1233	1430	873	588	1031	960	
International Seed Technology BRS 335	791	1107	1415	1120	1108	1094		International Seed Technology BRS 335	1768	1627	929	616	1265	1194	
Three Year Average								Three Year Average							
Deltapine DP 1845 B2XF		1251	1338	1019	1203	1146		Deltapine DP 1845 B2XF		1095	1327	572	998	989	
International Seed Technology BRS 286		1001	1265	834	1033	976		International Seed Technology BRS 286		1042	1475	682	1066	1057	
NexGen NG 4689 B2XF		1005	1205	1140	1117	1060		NexGen NG 4689 B2XF		1294	1346	488	1043	1034	
PhytoGen PHY 250 W3FE		784	1246	840	957	900		PhytoGen PHY 250 W3FE		1122	1556	668	1115	1106	
PhytoGen PHY 300 W3FE		1256	1096	960	1104	1047		PhytoGen PHY 300 W3FE		950	1307	745	1001	992	
PhytoGen PHY 340 W3FE		1132	1330	1036	1166	1109		PhytoGen PHY 340 W3FE		928	1184	665	926	917	
PhytoGen PHY 764 WRF		1091	987	751	943	886		PhytoGen PHY 764 WRF		1085	1056	616	919	910	
Halfway Irrigated								Lamesa Dryland							
Designation	2014	2016	2017	2018	2019	Avg.	Comp. Average <sup>1/</sup>	Designation	2013	2014	2015	2016	2019	Avg.	Comp. Average <sup>1/</sup>
Five Year Average								Five Year Average							
PhytoGen PHY 499 WRF	836	1357	701	1343	931	1034		PhytoGen PHY 499 WRF	315	442	657	766	612	558	
Four Year Average								Three Year Average							
Deltapine DP 1612 B2XF	2147	586	1356	1180	1317	1268		NexGen NG 4545 B2XF		633	623	537	598	478	
Deltapine DP 1646 B2XF	1661	519	1170	1051	1100	1051		Seed Source Genetics SSG UA 222		491	522	469	494	374	
FiberMax FM 1911GLT	1808	830	1309	915	1216	1167									
International Seed Technology BRS 293	1668	665	895	1005	1058	1009									
International Seed Technology BRS 335	1793	639	1227	851	1128	1079									
NexGen NG 4545 B2XF	2140	687	1217	968	1253	1204									
Seed Source Genetics SSG UA 222	1796	778	1114	948	1159	1110									
Three Year Average															
Deltapine DP 1845 B2XF		1095	1327	572	998	1040									
International Seed Technology BRS 286		1325	976	779	1027	1069									
NexGen NG 4689 B2XF		1774	1013	804	1197	1239									
PhytoGen PHY 250 W3FE		1481	1072	780	1111	1153									
PhytoGen PHY 300 W3FE		1449	1134	913	1165	1207									
PhytoGen PHY 340 W3FE		1579	995	774	1116	1158									
PhytoGen PHY 764 WRF		945	904	720	856	898									

<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, 2019.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	16-Oct	
PhytoGen PX3D43W3FE	1348	28.7	38.0	39.8	31.3	6.6	10.4	7.4	35.4	71	5
FiberMax FM 2498GLT	1245	30.3	38.9	39.1	31.8	7.4	11.1	7.6	38.0	54	5
PhytoGen PX2C14W3FE	1224	25.3	39.6	36.2	29.0	5.8	9.8	5.9	35.2	69	6
NexGen NG 3640 XF	1217	29.9	42.7	37.1	29.9	5.8	10.0	6.3	33.8	74	6
PhytoGen PHY 300W3FE	1216	25.6	35.5	38.7	30.0	5.7	9.2	6.4	34.6	78	6
PhytoGen PX3D32W3FE	1192	26.2	37.5	39.0	31.1	6.3	9.9	6.8	36.4	69	5
Deltapine DP 1822 XF	1169	27.8	41.1	37.6	30.5	5.8	10.3	6.6	32.8	73	5
TAM 16-2-218	1131	24.9	40.8	33.2	27.3	6.3	11.3	6.0	35.1	70	6
NexGen NG 3780 B2XF	1107	26.9	41.1	36.9	29.7	5.5	9.5	6.0	34.2	78	4
PhytoGen PHY 320 W3FE	1101	25.6	36.6	38.0	30.6	6.0	9.4	6.3	36.3	73	4
Deltapine DP 1820 B3XF	1082	29.0	35.4	40.7	32.0	5.1	8.7	6.4	32.5	75	5
PhytoGen PHY 340 W3FE	1074	29.6	38.7	38.5	30.0	5.9	9.3	6.3	36.1	75	5
PhytoGen PHY 350 W3FE	1053	25.3	39.0	40.6	31.8	6.0	10.0	6.9	35.0	59	5
PhytoGen PHY 400 W3FE	1029	28.5	37.5	39.2	31.1	5.6	9.3	6.4	34.5	81	6
NexGen NG 3930 B3XF	1028	27.8	41.0	38.0	30.0	5.6	8.8	5.9	36.4	78	6
PhytoGen PHY 210 W3FE	1027	27.0	39.3	37.5	28.5	4.7	10.4	6.6	26.9	71	6
PhytoGen PHY 394 W3FE	989	26.0	38.0	36.9	29.0	6.3	10.1	6.3	37.0	35	6
NexGen NG 2982 B3XF	934	26.3	40.4	34.9	27.3	5.4	10.1	5.9	32.1	91	5
NexGen NG 3956 B3XF	909	26.7	41.3	36.0	28.7	5.9	10.8	6.5	33.1	64	6
Deltapine DP 1908 B3XF	877	26.1	38.5	37.6	28.6	4.7	8.5	5.4	32.8	84	4
Deltapine DP 1909 XF	873	26.0	34.4	38.3	29.6	4.8	8.2	5.5	33.7	84	5
Deltapine DP 1612 B2XF	838	27.7	38.1	36.7	29.6	5.6	9.3	5.9	35.3	88	5
FiberMax FM 958	809	25.0	39.3	35.3	27.1	6.1	11.0	6.1	35.5	76	6
PhytoGen PHY 250 W3FE	762	27.3	38.9	37.3	28.4	5.8	9.8	6.2	35.2	74	5
Mean	1051	27.1	38.8	37.0	29.7	5.6	9.8	6.3	34.5	73	5
c.v.%	20.3	3.9	4.3	1.4	2.5	3.9	5.8	5.5	6.6	10.0	13.8
LSD 0.05	251	1.2	1.9	0.9	1.3	0.4	1.0	0.6	3.9	9	1

Table 8A. Fiber quality data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PX3D43W3FE	3.9	1.12	82.9	31.9	7.2	78.6	9.1	3	21-2,21-3
FiberMax FM 2498GLT	4.3	1.14	81.4	31.9	6.2	78.3	8.8	2	21-1,31-1
PhytoGen PX2C14W3FE	3.8	1.11	80.9	32.6	7.2	77.9	9.0	2	21-2,31-1
NexGen NG 3640 XF	4.5	1.09	82.5	32.1	6.9	75.9	9.8	2	22-2,32-1
PhytoGen PHY 300 W3FE	4.1	1.11	80.8	31.2	6.5	77.4	9.3	3	21-2,21-4
PhytoGen PX3D32W3FE	4.1	1.16	80.9	32.9	7.1	78.4	9.1	3	21-3,31-1
Deltapine DP 1822 XF	3.8	1.15	80.9	34.4	6.4	78.5	8.6	2	31-1,31-3
TAM 16-2-218	3.9	1.12	80.6	33.8	6.1	77.5	8.8	3	21-4,31-1
NexGen NG 3780 B2XF	4.3	1.11	80.8	30.9	6.9	76.5	9.5	3	21-4,31-3
PhytoGen PHY 320 W3FE	3.9	1.10	82.4	30.7	6.9	78.8	8.5	2	21-2,31-1
Deltapine DP 1820 B3XF	4.7	1.16	80.4	33.3	6.0	77.5	8.6	2	31-1,31-3
PhytoGen PHY 340 W3FE	4.1	1.12	81.9	31.1	6.6	76.9	8.9	3	31-1,31-3
PhytoGen PHY 350 W3FE	3.3	1.12	80.4	32.4	7.1	77.3	9.5	2	21-4
PhytoGen PHY 400 W3FE	4.0	1.11	79.7	31.7	6.3	78.5	8.7	3	21-2,31-1
NexGen NG 3930 B3XF	3.7	1.13	80.8	30.1	6.8	77.1	9.0	3	21-4,31-1
PhytoGen PHY 210W3FE	4.2	1.15	82.9	34.8	5.8	78.6	8.5	2	21-2,31-1
PhytoGen PHY 394 W3FE	3.5	1.16	79.6	30.6	6.1	78.6	9.0	4	21-1,21-2
NexGen NG 2982 B3XF	3.5	1.09	81.7	33.0	6.1	73.7	7.7	6	41-1,51-1
NexGen NG 3956 B3XF	4.0	1.10	81.1	29.7	6.9	76.9	8.9	3	31-1,31-3
Deltapine DP 1908 B3XF	4.1	1.15	81.0	32.3	6.1	80.2	7.3	2	31-1
Deltapine DP 1909 XF	4.1	1.10	79.3	32.2	6.0	81.1	7.5	3	21-1,31-1
Deltapine DP 1612 B2XF	4.1	1.13	82.0	32.2	7.7	75.5	8.8	5	31-3,31-4
FiberMax FM 958	3.6	1.14	80.8	35.6	5.9	76.5	8.2	5	31-1,41-1
PhytoGen PHY 250 W3FE	3.7	1.11	81.6	31.5	6.6	76.4	9.9	3	21-3,22-2
Mean	3.9	1.12	81.1	32.2	6.5	77.6	8.7	3	
c.v.%	5.6	1.8	0.9	3.0	2.4	1.5	4.6	36.7	
LSD 0.05	0.4	0.03	1.2	1.7	0.3	1.9	0.7	2	

Table 9. Yield and agronomic property data from the irrigated new variety and strains cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	2-Oct	Resistance	Height
TAM 13-S-03	843	27.8	38.5	36.1	27.9	4.1	8.7	5.6	26.3	90	5	22
Deltapine DP 2020 B3XF	808	30.8	36.7	38.9	29.6	4.1	7.6	5.4	29.3	80	6	25
PhytoGen PHY 400 W3FE	807	29.5	33.3	41.9	30.8	4.3	7.8	6.3	28.7	86	6	21
Deltapine DP 2044 B3XF	793	30.6	39.8	39.2	30.1	4.9	9.0	6.4	30.1	68	5	23
Deltapine DP 2012 B3XF	790	30.6	35.8	40.9	30.7	3.9	7.2	5.5	29.1	78	6	26
Dyna Gro DGX 731GLTP	788	30.9	36.2	37.9	29.8	4.5	8.1	5.8	29.4	91	6	23
PhytoGen PX3D32W3FE	782	29.8	33.7	40.0	30.5	4.4	8.2	6.4	27.7	84	6	24
Americot AMX 1828 B3XF	775	33.1	36.3	37.5	28.3	4.3	7.2	5.3	30.5	80	6	25
May 771	771	29.1	38.9	37.0	29.3	5.0	9.8	6.4	29.3	86	5	25
Americot AMX 19A006 B3XF	765	30.7	37.5	40.0	32.0	4.7	8.2	6.1	31.2	74	6	23
PhytoGen PX5C45W3FE	764	32.2	32.8	43.8	32.5	4.2	7.8	6.9	26.3	81	6	23
FiberMax FM 958	749	28.3	38.9	38.0	29.4	4.8	9.4	6.2	29.6	89	7	23
Americot AMX 1816 B3XF	734	28.2	38.9	38.0	29.5	4.9	9.1	6.1	30.3	84	6	24
BASF BX 2002 GL	731	31.6	33.4	41.8	31.4	4.0	8.1	6.9	24.3	88	7	22
Americot AMX 19A005 B3XF	728	33.9	36.6	43.1	33.4	4.5	7.8	6.4	29.9	71	6	26
PhytoGen PX5E34W3FE	726	28.8	38.1	37.8	29.2	4.3	9.3	6.0	27.6	75	6	28
PhytoGen PX3D43W3FE	714	29.1	34.9	41.1	31.1	4.4	8.3	6.3	28.5	83	6	24
PhytoGen PHY 500 W3FE	705	28.9	31.5	38.1	27.1	3.7	7.2	4.9	28.7	74	6	25
May 404	700	27.7	38.2	38.5	29.5	4.4	9.1	6.2	27.0	86	4	25
TAM BB 2139	695	27.0	37.4	36.0	27.5	4.5	9.3	5.7	28.1	79	5	23
Deltapine DP 2022 B3XF	691	27.3	39.9	37.4	29.4	4.7	9.7	6.3	27.7	89	6	25
Americot AMX 1818 B3XF	684	30.6	39.5	39.6	29.9	4.3	7.9	5.6	30.2	76	6	26
PhytoGen PHY 394 W3FE	679	28.0	34.9	37.3	28.7	4.9	8.8	5.9	30.7	83	7	22
PhytoGen PX5C05W3FE	674	29.9	34.3	45.4	35.2	3.8	8.2	7.5	23.1	74	6	25
BASF BX 2037 GLT	673	31.7	33.8	40.8	31.3	4.9	8.6	7.1	28.3	66	6	24
May 257	671	26.8	38.2	39.4	30.5	4.8	8.6	6.1	31.4	91	5	26
Dyna Gro DGX 014 B3XF	666	29.1	34.9	39.8	30.3	4.4	8.5	6.2	28.8	84	7	27
PhytoGen PX5E28W3FE	660	28.6	37.0	36.3	28.3	4.4	7.7	5.0	31.5	81	5	26
Dyna Gro DGX 004 B3XF	642	29.0	34.2	38.2	28.7	4.6	8.3	5.9	29.7	85	6	24
TAM 13Q-18	636	27.4	32.3	38.5	29.0	4.3	7.2	5.3	31.6	91	4	23
PhytoGen PX2C14W3FE	617	26.2	34.7	37.6	28.5	4.0	7.8	5.2	29.1	93	7	22
Bayer CropScience 18R628NRB3XF	614	29.1	33.1	42.3	31.8	4.0	7.0	6.0	28.2	70	6	27
Mean	721	29.4	36.0	39.3	30.0	4.4	8.4	6.0	28.8	81	6	24
c.v.%	11.9	4.3	4.4	1.8	2.3	7.7	6.1	6.9	8.1	9.6	14.1	7.9
LSD 0.05	101	1.5	1.9	1.2	1.2	0.6	0.8	0.7	3.9	9	1	2

Table 9A. Fiber quality data from the irrigated new variety and strians cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
TAM 13-S-03	4.5	1.04	79.4	27.1	7.4	76.2	9.0	4	31-3
Deltapine DP 2020 B3XF	4.7	1.08	80.0	27.8	6.1	78.9	8.4	2	21-2,31-1
PhytoGen PHY 400 W3FE	4.7	1.08	79.8	29.5	6.3	77.8	8.1	3	31-1
Deltapine DP 2044 B3XF	4.2	1.14	77.5	29.8	6.3	77.7	8.3	5	41-1
Deltapine DP 2012 B3XF	4.8	1.08	80.3	28.8	6.0	79.2	8.4	2	31-1,31-2
Dyna Gro DGX 731GLTP	4.6	1.07	78.1	27.7	6.6	77.1	8.4	3	21-2,31-1
PhytoGen PX3D32W3FE	4.7	1.06	78.8	28.6	7.0	76.3	8.9	3	21-1,31-2
Americot AMX 1828 B3XF	5.1	1.06	80.4	28.5	6.5	76.9	8.6	3	31-3
May 771	4.9	1.05	80.6	26.9	6.8	78.9	8.3	2	31-1
Americot AMX 19A006 B3XF	4.3	1.12	78.1	31.7	6.3	76.5	7.9	4	21-1
PhytoGen PX5C45W3FE	4.9	1.03	79.7	28.2	6.8	80.0	8.4	2	21-1,31-1
FiberMax FM 958	4.8	1.06	79.6	29.1	5.4	77.3	8.3	3	31-1,31-2
Americot AMX 1816 B3XF	4.6	1.06	78.8	26.4	5.7	77.7	8.4	3	31-1
BASF BX 2002 GL	4.8	1.02	79.6	29.6	6.4	75.6	8.9	2	31-2,31-4
Americot AMX 19A005 B3XF	4.9	1.08	80.0	27.7	6.5	80.6	8.0	1	21-2,31-1
PhytoGen PX5E34W3FE	4.4	1.08	80.2	29.4	6.8	78.6	8.3	2	31-1
PhytoGen PX3D43W3FE	4.8	1.07	80.6	29.5	6.7	77.3	8.7	3	31-1,31-3
PhytoGen PX5D28W3FE	4.7	1.05	79.4	29.9	6.1	78.6	8.0	2	31-1
May 404	5.0	1.03	80.0	25.6	6.7	77.6	8.0	3	31-1
TAM BB 2139	4.1	1.18	80.0	31.9	6.1	76.2	8.6	3	31-1,31-1
Deltapine DP 2022 B3XF	4.4	1.08	79.6	27.1	5.6	76.4	7.2	4	21-2,41-1
Americot AMX 1818 B3XF	4.6	1.07	79.5	29.8	6.8	78.3	8.4	3	31-1
PhytoGen PHY 394 W3FE	4.7	1.06	76.3	27.4	6.0	78.1	8.1	2	21-2,31-1
PhytoGen PX5C05W3FE	5.2	1.00	80.2	28.6	7.2	76.8	8.6	3	31-1,32-1
BASF BX 2037 GLT	4.5	1.13	80.4	32.8	5.9	79.5	7.6	3	21-2,31-3
May 257	4.8	1.08	79.4	28.6	5.8	78.5	8.0	2	31-1
Dyna Gro DGX 014 B3XF	5.0	1.07	80.8	29.8	6.7	78.2	8.9	3	21-2,31-1
PhytoGen PX5E28W3FE	4.4	1.08	79.5	29.9	6.8	79.7	7.9	2	31-1
Dyna Gro DGX 004 B3XF	4.9	1.03	77.7	25.4	7.2	78.0	8.6	2	21-2,31-2
TAM 13Q-18	4.5	1.07	80.5	30.7	6.7	75.7	8.6	4	31-3,41-1
PhytoGen PX2C14W3FE	4.0	0.99	77.9	27.1	6.8	75.7	9.7	2	31-2,32-1
Bayer CropScience 18R628NRB3XF	4.7	1.05	79.7	30.9	6.9	77.3	8.9	2	31-1
Mean	4.6	1.06	97.4	28.8	6.4	77.7	8.4	3	
c.v.%	3.0	2.1	1.1	4.1	3.0	1.4	3.9	31.0	
LSD 0.05	0.2	0.04	1.5	2.0	0.3	1.8	0.6	1	

Table 10. Yield and agronomic property results from the irrigated regional high quality cotton variety performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 9-Oct	Storm Resistance	
		Lint	Seed	Picked	Pulled						Height	
PhytoGen PHY 480 W3FE	1405	30.1	38.4	30.9	39.8	5.4	8.8	6.3	34.7	85	4	31
NM 18B1587	1373	26.8	39.2	29.8	36.6	5.0	9.0	5.7	32.2	83	3	35
Deltapine DP 1820B3XF	1364	31.0	36.7	32.1	41.6	4.4	8.9	6.8	27.0	88	5	32
PhytoGen PHY 350 W3FE	1338	30.0	39.6	30.2	38.4	4.8	10.0	6.7	27.6	90	5	31
Deltapine DP 1646B2XF	1265	31.5	37.7	32.7	41.2	4.7	8.4	6.5	30.3	86	5	31
Deltapine DP 1845B3XF	1239	32.1	37.0	33.3	42.1	4.8	8.0	6.3	32.0	85	5	31
Stoneville ST 5020GLT	1213	27.3	40.1	30.3	37.7	4.7	9.3	6.0	29.5	95	3	28
FiberMax FM 1830GLT	1192	31.2	39.2	32.8	40.9	4.9	9.7	7.2	28.2	90	4	29
TAM 14H-29	1166	24.7	43.8	26.1	33.0	5.7	11.4	6.0	31.5	84	4	34
FiberMax FM 958	1150	26.3	40.2	29.4	37.2	5.4	10.7	6.7	30.1	91	6	28
NM 18B1589	1135	29.8	38.9	31.9	40.1	5.0	8.8	6.4	31.1	86	4	34
ARK 1112-49	1128	29.9	37.7	30.7	40.0	4.8	8.8	6.4	30.1	89	4	30
ARK 1110-11	1093	28.4	39.9	30.2	37.5	5.2	8.3	5.3	36.3	90	4	32
ARK 1110-49	1092	27.4	39.4	29.8	37.5	5.9	9.5	6.2	36.3	93	3	29
TAM KJ-Q14	1087	26.6	43.2	27.3	33.5	5.5	10.6	5.7	32.6	86	5	32
LA 14063083	1040	27.4	38.7	30.2	38.1	5.4	9.3	6.1	34.1	90	3	33
NM 18B1593	1029	27.8	38.2	29.7	37.4	4.4	8.6	5.7	29.1	90	3	36
FiberMax FM 2574GLT	1025	31.5	34.8	33.6	42.3	5.2	8.5	6.9	31.9	85	6	32
PhytoGen PHY 764 WRF	872	27.0	38.8	30.0	37.3	5.3	10.6	6.7	29.5	85	3	32
LA 14063075	626	27.3	38.3	29.9	37.7	5.4	8.9	5.8	34.7	83	4	34
Mean	1142	28.7	39.0	30.5	38.5	5.1	9.3	6.3	31.4	88	4	32
c.v.%	13.6	2.7	3.6	2.4	2.3	5.1	6.6	7.1	7.9	3.4	16.8	8.1
LSD 0.05	184	0.9	1.7	0.9	1.0	0.3	0.7	0.5	2.9	1	3	3

Table 10A. Yield and agronomic property results form the irrigated regional high quality cotton variety performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Micornaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHY 480 W3FE	4.4	1.13	82.6	30.8	7.5	78.9	8.4	2	21-1,21-2,31-1
NM 18B1587	4.4	1.08	77.8	29.4	6.3	76.3	8.3	4	31-2,41-1
Deltapine DP 1820B3XF	4.9	1.18	81.8	34.6	5.9	78.1	8.2	2	21-1,31-1,41-1
PhytoGen PHY 350 W3FE	4.7	1.13	82.2	31.0	6.7	78.7	8.4	2	21-2,31-1
Deltapine DP 1646B2XF	4.5	1.20	81.3	29.5	7.6	82.1	8.1	2	21-1
Deltapine DP 1845B3XF	4.5	1.20	81.5	32.2	7.7	79.4	7.6	3	21-2,31-1,31-2
Stoneville ST 5020GLT	4.4	1.17	81.8	33.0	6.8	76.6	8.1	3	31-2
FiberMax FM 1830GLT	4.7	1.16	80.8	33.2	5.9	80.8	7.6	2	21-1,31-1
TAM 14H-29	3.9	1.35	82.4	38.7	6.4	78.0	8.3	2	21-2,31-1,31-2
FiberMax FM 958	4.5	1.11	81.3	32.7	5.4	80.1	7.8	2	21-2,31-1
NM 18B1589	4.6	1.13	80.8	34.1	6.2	77.4	8.5	2	21-2,31-1,31-3
ARK 1112-49	4.4	1.23	81.8	33.3	6.3	78.4	8.1	2	31-1,31-2
ARK 1110-11	4.4	1.23	82.8	32.3	6.7	76.5	8.6	4	31-1,31-2,31-4
ARK 1110-49	4.7	1.20	81.0	30.3	6.0	79.2	7.6	3	31-1
TAM KJ-Q14	4.6	1.16	81.0	34.8	6.0	77.6	7.9	3	31-1,31-2,31-2
LA 14063083	4.4	1.17	82.2	32.5	6.9	78.7	8.0	3	21-1,31-2,41-1
NM 18B1593	4.6	1.19	81.7	33.4	6.7	76.5	8.4	3	31-1,31-2
FiberMax FM 2574GLT	4.8	1.14	80.4	31.2	5.8	80.5	7.6	2	21-2,31-1
PhytoGen PHY 764 WRF	4.3	1.16	82.5	35.8	6.2	77.7	8.3	3	31-1
LA 14063075	4.6	1.17	82.8	34.5	6.3	79.9	8.1	2	21-1,21-2,31-1
Mean	4.5	1.17	81.5	32.8	6.4	78.5	8.1	2	
c.v.%	5.0	2.6	1.0	3.3	3.4	1.4	3.6	30.9	
LSD 0.05	0.3	0.04	0.9	1.3	0.3	1.3	0.3	1	

Table 11. Yield and agronomic property data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Yield	Agronomic Properties							% Open			Nematode Ratings		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	Height	Rk	LRk
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	12-Sep	Resistance			
PhytoGen PX5C45W3FE	990	28.0	32.0	40.2	30.9	3.7	8.4	6.6	22.6	63	5	30	460	1.95
Deltapine DP 1747 NR B2XF	918	29.5	33.1	41.7	33.8	4.8	8.3	6.5	31.0	44	4	30	3105	3.39
PhytoGen PX5C05W3FE	886	27.4	29.6	40.5	31.2	4.1	8.2	6.5	25.6	70	5	30	205	1.78
PhytoGen PHY 580W3FE	858	28.1	31.5	42.0	32.7	4.2	8.2	6.5	27.3	56	5	29	25	0.50
FiberMax FM 1621GL	854	27.5	33.7	38.2	30.3	5.1	9.1	6.3	31.0	74	6	29	4185	3.52
PhytoGen PHY 400 W3FE	848	26.8	33.3	35.5	27.2	3.6	8.4	5.2	24.2	71	7	24	1985	2.54
Stoneville ST 4946GLB2	820	26.9	38.2	36.3	29.4	5.3	9.3	5.8	33.2	65	5	29	2510	3.27
PhytoGen PHY 320W3FE	815	25.1	33.2	37.3	29.9	4.3	8.1	5.5	28.8	73	6	28	25	0.50
NexGen NG 4792 XF	811	26.1	35.3	37.3	29.6	4.4	8.2	5.3	30.8	53	4	32	11410	3.83
PhytoGen PHY 500 W3FE	770	24.5	30.3	39.3	29.2	3.4	7.7	5.8	23.2	64	4	31	30	0.52
NexGen NG 3956 B3XF	767	24.9	39.7	37.4	30.0	4.7	9.5	5.9	29.8	58	6	33	2525	2.96
PhytoGen PX2C14W3FE	767	24.6	34.3	35.8	27.2	4.2	7.8	4.9	30.5	71	7	27	0	0.00
PhytoGen PX3D43W3FE	763	27.1	34.1	36.3	27.8	4.6	9.1	5.9	28.3	76	5	30	80	0.63
PhytoGen PHY 350W3FE	760	26.1	35.4	37.9	29.8	4.2	9.0	6.0	26.4	71	5	30	2780	3.38
DynaGro DGX 052 B3XF	759	26.7	36.9	36.7	28.3	4.3	8.6	5.4	29.3	61	6	29	3630	3.37
PhytoGen PX5E34W3FE	751	23.9	36.5	35.8	28.4	3.7	8.2	5.0	26.7	64	4	32	855	1.97
PhytoGen PHY 480W3FE	744	26.9	33.5	36.8	28.8	4.5	7.9	5.4	30.2	71	6	28	235	1.74
Stoneville ST 5707B2XF	742	25.4	38.5	35.1	28.3	4.9	10.0	6.0	28.4	54	4	32	6455	3.74
PhytoGen PX3D32W3FE	738	24.5	33.0	35.4	27.4	4.4	8.5	5.2	29.8	61	5	30	60	1.04
PhytoGen PHY 394 W3FE	734	24.2	32.4	37.3	28.7	4.6	9.1	5.9	29.1	71	7	25	145	0.69
NexGen NG 3930 B3XF	730	25.1	36.2	35.1	27.8	4.0	8.1	5.0	28.0	76	6	31	3825	3.24
FiberMax FM 2498GLT	728	28.1	37.2	37.7	30.0	5.0	9.3	6.1	30.8	58	5	29	5950	3.66
NexGen NG 2982 B3XF	723	22.3	36.9	32.9	26.4	4.3	9.0	4.8	29.0	73	5	28	5475	3.59
FiberMax FM 2398GLTP	706	29.3	36.0	39.2	29.9	4.4	8.5	6.0	28.7	68	5	28	10155	3.87
BASF BX 2002GL	704	27.6	31.5	40.9	32.3	4.8	8.2	6.5	30.3	66	4	29	4940	2.80
Bayer CropScience 18R628NRB3XF	700	26.2	29.4	38.2	29.9	3.8	6.8	5.0	28.4	64	4	30	2540	3.19
DynaGro DG 3651NR B2XF	693	27.5	34.8	40.4	31.6	4.8	8.4	6.3	30.9	41	4	31	2180	2.92
FiberMax FM 2574GLT	687	26.4	32.0	39.8	30.9	4.2	8.1	6.0	27.9	66	5	29	14355	4.12
BASF BX 2076GLTP	682	27.4	37.3	37.5	29.7	5.0	9.3	6.1	31.0	60	4	29	16400	4.16
PhytoGen PX5E28W3FE	677	24.4	36.3	34.2	27.0	4.0	7.9	4.6	29.3	46	3	35	625	2.52

Table 11. Yield and agronomic property data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Yield	Agronomic Properties						% Open			Nematode Ratings			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	12-Sep Bolls	Storm Resistance	Height	Rk	LRk
Stoneville ST 5600B2XF	653	26.5	34.4	39.5	31.9	5.3	8.7	6.2	33.7	46	4	30	1925	3.26
FiberMax FM 1911GLT	650	25.8	36.9	36.1	28.5	4.8	8.0	4.9	35.2	63	6	26	4195	3.58
DynaGro DGX 014 B3XF	646	25.3	38.8	34.7	27.7	4.4	8.4	4.9	30.7	63	7	30	4400	3.52
Seed Source Genetics SSG UA 222	636	25.2	38.6	35.7	28.9	4.4	10.2	6.2	25.7	50	6	27	5890	3.63
BASF BX 2037GLT	603	28.0	32.7	40.7	31.8	4.3	8.8	6.7	26.1	56	5	27	3975	3.45
NexGen NG 4777 B2XF	590	24.0	38.3	33.6	26.9	4.6	8.4	4.6	33.7	46	5	31	18460	3.79
Mean	747	26.2	34.8	37.5	29.4	4.4	8.5	5.0	29.0	62	5	29	4055	2.68
c.v.%	15.4	2.8	3.2	1.5	1.9	6.9	4.2	4.7	6.5	18.1	18.6	7.6		
LSD 0.05	135	0.9	1.3	1.0	0.9	0.5	0.6	0.5	3.2	13	1	3		
										MSD(0.05)	9228		1.11	

Table 11A. Fiber quality data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PX5C45W3FE	4.5	1.01	79.4	28.6	6.6	75.0	8.7	5	31-3,41-1
Deltapine DP 1747 NR B2XF	5.0	1.04	80.4	30.2	6.1	75.2	9.0	5	31-3,41-3
PhytoGen PX5C05W3FE	4.9	0.99	81.4	28.2	6.8	74.7	9.0	5	31-3,41-3
PhytoGen PHY 580W3FE	4.7	1.04	79.8	29.8	6.4	75.1	8.5	5	31-3,41-1
FiberMax FM 1621GL	4.3	1.03	79.5	27.9	5.4	73.5	8.5	5	41-3
PhytoGen PHY 400 W3FE	4.2	1.02	79.7	27.6	6.1	73.4	9.0	5	31-3,41-3
Stoneville ST 4946GLB2	4.4	1.03	79.8	28.9	6.5	74.9	9.4	4	31-4,32-1
PhytoGen PHY 320W3FE	4.2	1.04	81.5	28.2	6.1	73.1	8.6	6	41-3
NexGen NG 4792 XF	4.7	1.03	81.4	30.5	6.3	73.7	9.5	5	32-1,32-2
PhytoGen PHY 500 W3FE	4.2	1.02	80.5	28.2	5.7	74.9	8.8	5	31-4,41-1
NexGen NG 3956 B3XF	4.4	1.02	79.6	27.7	6.3	74.0	10.1	4	32-1
PhytoGen PX2C14W3FE	3.9	1.00	79.1	27.2	6.3	76.2	9.2	4	31-3
PhytoGen PX3D43W3FE	4.5	1.08	81.9	32.1	6.2	75.5	9.0	5	31-3,31-4
PhytoGen PHY 350W3FE	4.5	1.06	81.4	28.7	6.1	75.3	8.7	4	31-4,41-1
DynaGro DGX 052 B3XF	4.3	1.03	79.2	27.5	5.9	78.0	9.3	2	21-1,21-4
PhytoGen PX5E34W3FE	4.1	1.07	81.2	30.5	6.2	75.5	8.5	5	31-2,41-1
PhytoGen PHY 480W3FE	4.4	1.05	80.9	29.0	6.9	74.3	9.1	5	31-36,41-3
Stoneville ST 5707B2XF	4.9	1.08	81.5	31.7	6.2	74.8	9.2	4	31-3
PhytoGen PX3D32W3FE	4.4	1.06	79.5	27.5	6.4	73.8	9.5	5	31-3,42-1
PhytoGen PHY 394 W3FE	3.9	1.06	78.1	26.7	5.6	75.7	8.8	4	31-3,31-4
NexGen NG 3930 B3XF	4.0	1.08	80.3	27.4	6.1	74.3	9.2	5	31-1,42-1
FiberMax FM 2498GLT	4.4	1.07	80.9	28.5	5.5	76.7	8.5	4	31-1,31-2
NexGen NG 2982 B3XF	3.8	1.04	81.5	30.8	5.6	68.8	8.0	8	51-3
FiberMax FM 2398GLTP	4.5	1.05	79.7	26.7	5.7	75.4	8.8	4	31-3,31-4
BASF BX 2002GL	4.5	1.07	81.8	32.3	6.1	75.1	9.0	3	21-4,41-3
Bayer CropScience 18R628NRB3XF	4.4	1.04	81.0	31.2	6.2	73.2	8.6	5	41-3,41-4
DynaGro DG 3651NR B2XF	4.8	1.04	79.0	28.1	6.3	75.6	9.2	4	31-3,32-2
FiberMax FM 2574GLT	4.6	1.07	80.0	28.1	5.3	77.6	8.2	4	31-1,31-2
BASF BX 2076GLTP	4.6	1.07	80.7	29.3	5.5	77.9	8.7	4	21-2,31-1
PhytoGen PX5E28W3FE	4.1	1.05	80.4	29.4	6.3	75.6	8.5	4	31-1,41-3

Table 11A. Fiber quality data from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm, Lamesa, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Stoneville ST 5600B2XF	5.1	1.06	81.4	31.4	6.4	74.1	9.4	4	31-3,32-2
FiberMax FM 1911GLT	3.9	1.06	79.6	28.0	5.7	78.0	8.6	4	21-2,31-2
DynaGro DGX 014 B3XF	4.2	1.04	79.9	27.1	5.9	74.3	9.6	4	31-1,32-1
Seed Source Genetics SSG UA 222	4.5	1.07	79.5	29.0	6.4	74.4	8.8	6	31-4,41-3
BASF BX 2037GLT	4.2	1.09	80.3	30.2	5.4	78.3	8.1	4	31-1,31-2
NexGen NG 4777 B2XF	4.1	1.03	78.7	26.5	5.3	74.4	8.9	5	41-3,31-4
Mean	4.4	1.04	80.3	28.9	6.0	75.0	8.9	4	
c.v.%	4.2	2.2	1.0	4.6	2.0	1.9	3.7	25.6	
LSD 0.05	0.3	0.04	1.4	2.2	0.2	2.4	0.6	2	

Table 12. Yield and agronomic property data from the irrigated Verticillium wilt cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Yield	Agronomic Properties							% Open				% Wilt	% Defoliation
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm			
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	12-Oct	Resistance	Height	24-Aug	
Seed Source Genetics SSG UA 222	1324	29.1	38.1	38.7	30.7	5.2	9.4	6.6	30.1	79	5	31	1.7	8.3 ab
FiberMax FM 989	1303	25.4	37.2	36.8	28.4	5.3	9.2	5.7	33.6	83	5	33	0.5	6.4 a-e
NexGen NG 4689 B3XF	1289	31.5	38.7	39.1	31.0	5.4	8.9	6.3	33.5	81	6	33	0.4	4.3 b-g
Deltapine DP 1822 XF	1276	30.0	39.9	37.6	29.8	5.3	10.0	6.8	29.3	81	7	34	0.0	4.0 b-g
Brownfield Seed and Delinting BSD 9X	1271	28.4	41.8	38.0	30.0	5.9	9.8	6.3	35.7	84	5	31	0.0	6.9 a-d
PhytoGen PX3D32W3FE	1243	30.1	38.2	40.3	31.2	5.4	8.6	6.3	34.7	76	6	32	0.3	3.6 d-g
DynaGro DGX 052 B3XF	1242	30.9	36.5	40.6	30.9	4.8	8.1	6.1	32.1	81	7	31	0.0	5.0 a-g
FiberMax FM 2498GLT	1233	28.3	35.0	41.2	33.0	6.5	9.9	7.4	36.2	73	5	32	0.4	7.0 a-d
Deltapine DP 2012 B3XF	1197	30.0	36.5	41.6	31.5	4.7	7.5	5.8	33.8	83	6	35	0.0	6.6 a-e
NexGen NG 4777 B2XF	1195	28.1	35.8	41.4	32.7	5.3	8.4	6.4	34.3	81	6	35	0.0	6.9 a-d
PhytoGen PX3D43W3FE	1194	31.5	38.4	38.8	29.5	5.3	9.7	6.8	30.4	79	6	33	1.1	5.0 a-g
BASF BX 2002GL	1193	30.0	34.0	42.1	32.7	5.5	8.6	6.9	34.0	80	5	35	1.5	1.1 g
FiberMax FM 1621GL	1187	30.4	34.4	42.8	33.9	5.7	8.9	7.4	33.0	62	6	32	2.4	3.5 d-g
PhytoGen PHY 320 W3FE	1184	28.8	37.2	39.1	30.6	5.4	9.0	6.3	33.3	85	5	32	0.4	4.7 a-g
PhytoGen PHY 394 W3FE	1171	26.9	37.3	35.7	28.0	6.1	10.0	6.1	35.9	75	7	30	0.0	1.7 fg
PhytoGen PX2C14W3FE	1163	28.6	40.6	38.6	29.1	5.1	9.1	5.9	33.9	90	7	28	0.0	1.7 fg
PhytoGen PHY 210 W3FE	1145	28.8	37.1	38.8	29.9	5.2	9.6	6.5	31.4	84	7	28	0.0	3.1 d-g
NexGen NG 3640 XF	1143	28.4	38.4	39.0	30.9	5.1	9.2	6.4	31.7	81	5	32	0.0	3.2 d-g
FiberMax FM 2574GLT	1117	29.8	35.0	42.9	32.6	5.3	8.3	6.9	32.8	81	5	31	0.5	1.7 fg
Stoneville ST 5707B2XF	1113	28.4	38.8	36.6	29.2	6.0	9.9	6.4	34.5	68	5	38	0.6	8.2 a-c
PhytoGen PHY 250 W3FE	1102	29.1	37.9	39.3	30.2	5.1	9.8	6.7	29.8	83	6	28	2.5	2.2 efg
Deltapine DP 1612 B2XF	1090	28.5	36.8	38.5	30.1	5.1	9.1	6.2	31.2	88	5	32	1.0	8.8 a
Deltapine DP 2020 B3XF	1074	28.4	36.7	41.3	31.3	4.8	7.8	5.9	33.4	75	6	35	1.4	3.4 d-g
PhytoGen PHY 400 W3FE	1068	31.4	38.2	42.1	33.3	5.1	8.5	6.5	32.6	85	5	28	0.5	4.9 a-g
NexGen NG 2982 B3XF	1067	27.2	41.0	36.9	28.3	5.2	8.8	5.7	33.6	90	5	29	0.0	4.4 a-g
BASF BX 2037GLT	1055	30.9	34.8	40.5	31.0	5.8	9.1	7.1	33.6	63	5	30	0.7	2.0 fg
BASF BX 2076GLTP	1053	30.2	36.1	42.6	33.1	6.0	9.0	7.1	35.4	83	5	34	0.0	7.1 a-d
PhytoGen PHY 350 W3FE	1045	27.1	37.3	41.6	32.2	5.2	10.3	7.7	28.3	78	6	33	1.5	3.8 c-g
NexGen NG 3930 B3XF	1035	30.7	39.5	37.7	29.6	5.1	8.5	5.7	34.0	80	6	31	0.0	4.3 b-g
FiberMax FM 2334GLT	1031	30.0	34.7	41.4	32.6	5.2	8.4	6.5	33.3	85	6	30	0.0	3.9 b-g

Table 12. Yield and agronomic property data from the irrigated Verticillium wilt cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Yield	Agronomic Properties						% Open				% Wilt	% Defoliation	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	12-Oct Bolls	Storm Resistance	Height 24-Aug		
		Lint	Seed	Picked	Pulled									
NexGen NG 3956 B3XF	1004	30.3	42.2	38.9	30.9	5.5	9.0	6.2	34.7	80	7	33	0.0	7.4 a-d
Deltapine DP 1820 B3XF	978	30.8	36.9	41.5	32.5	4.7	8.6	6.6	29.6	80	6	30	0.0	1.0 g
FiberMax FM 2398GLTP	968	30.7	35.4	42.0	32.6	5.3	9.1	7.4	30.1	80	6	30	1.3	7.5 a-d
Deltapine DP 2022 B3XF	940	26.3	42.5	35.6	28.5	5.5	10.1	6.1	32.2	84	4	33	0.5	3.4 d-g
PhytoGen PHY 490 WRF	919	27.0	35.3	40.0	31.1	5.4	8.5	6.1	35.3	80	6	34	2.7	5.8 a-f
Stoneville ST 5600B2XF	903	30.3	37.4	42.0	32.9	6.0	8.8	6.9	36.6	68	5	32	0.0	1.7 fg
Mean	1125	29.2	37.5	39.7	31.0	5.4	9.0	6.5	33.0	80	6	32	0.6	4.6
c.v.%	13.6	3.6	4.4	1.4	1.4	5.2	4.7	4.5	5.7	13.3	13.0	5.7		
LSD 0.05	179	1.2	1.9	0.9	0.7	0.5	0.7	0.5	3.1	12	1	2		

Table 12A. Fiber quality data from the irrigated Verticillium wilt cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
Seed Source Genetics SSG UA 222	4.6	1.13	82.0	29.3	7.5	77.5	7.9	4	31-2
FiberMax FM 989	4.4	1.12	80.6	31.5	5.8	78.2	7.9	3	31-1,31-2
NexGen NG 4689 B3XF	5.1	1.07	80.1	29.2	5.8	78.8	8.6	2	21-2,31-1
Deltapine DP 1822 XF	4.9	1.17	81.5	33.0	6.1	78.6	8.1	3	31-1
Brownfield Seed and Delinting BSD 9X	4.9	1.12	81.7	30.7	6.0	79.1	7.8	2	31-1,31-2
PhytoGen PX3D32W3FE	4.6	1.14	80.2	30.2	7.1	80.1	8.4	1	21-1,21-2
DynaGro DGX 052 B3XF	4.6	1.10	81.9	29.0	6.9	79.9	8.4	2	21-2
FiberMax FM 2498GLT	4.8	1.10	80.7	29.4	6.8	77.3	7.9	3	31-2
Deltapine DP 2012 B3XF	4.7	1.13	82.2	29.3	6.6	80.1	7.9	3	31-1
NexGen NG 4777 B2XF	5.1	1.09	81.3	29.6	5.5	78.1	8.5	2	31-1
PhytoGen PX3D43W3FE	5.0	1.08	81.8	31.0	6.7	77.9	8.5	1	31-1
BASF BX 2002GL	4.6	1.11	80.0	31.5	6.6	76.7	8.0	5	31-2
FiberMax FM 1621GL	4.9	1.12	82.1	32.7	5.7	76.2	7.3	5	41-1
PhytoGen PHY 320 W3FE	4.7	1.11	82.2	30.0	6.6	78.6	7.8	3	31-1
PhytoGen PHY 394 W3FE	4.4	1.14	78.4	29.5	5.9	78.8	8.0	3	31-1
PhytoGen PX2C14W3FE	4.4	1.07	80.0	29.8	7.0	80.1	7.9	2	21-2
PhytoGen PHY 210W3FE	4.7	1.07	81.5	29.8	5.7	78.4	7.7	3	31-1,31-2
NexGen NG 3640 XF	5.3	1.09	83.2	31.9	7.0	76.5	8.8	2	31-1,31-3
FiberMax FM 2574GLT	4.8	1.15	80.7	30.4	6.1	80.3	7.3	2	31-1,31-2
Stoneville ST 5707B2XF	5.1	1.14	81.4	32.2	7.3	78.3	8.5	2	31-1
PhytoGen PHY 250W3FE	4.9	1.11	81.6	30.9	5.9	78.6	7.7	3	31-1
Deltapine DP 1612 B2XF	4.7	1.11	81.7	30.1	7.5	75.8	8.2	4	31-2,41-1
Deltapine DP 2020 B3XF	4.7	1.15	81.6	28.7	6.3	80.7	7.8	2	21-2,31-1
PhytoGen PHY 400 W3FE	4.5	1.11	80.0	31.2	6.5	78.6	7.7	4	31-1,31-2
NexGen NG 2982 B3XF	4.1	1.08	82.1	31.3	6.1	71.2	7.2	7	51-1
BASF BX 2037GLT	4.5	1.18	81.7	34.3	5.8	80.4	7.1	3	31-1
BASF BX 2076GLTP	5.0	1.12	81.9	31.4	5.9	77.9	7.9	3	31-1,31-2
PhytoGen PHY 350W3FE	4.9	1.13	82.3	29.7	6.8	78.2	8.0	4	31-1
NexGen NG 3930 B3XF	4.6	1.12	81.9	28.2	6.8	77.8	8.3	3	31-1
FiberMax FM 2334GLT	4.7	1.14	81.7	30.5	6.3	80.1	7.7	2	21-2,31-1

Table 12A. Fiber quality data from the irrigated Verticillium wilt cotton performance test at the Texas Tech Research farm, Lubbock, 2019.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
NexGen NG 3956 B3XF	5.0	1.10	81.8	29.1	6.4	79.2	8.2	4	21-2,31-1
Deltapine DP 1820 B3XF	5.0	1.16	81.2	31.8	5.9	78.9	7.8	4	31-1
FiberMax FM 2398GLTP	5.1	1.14	82.5	31.3	6.3	78.9	8.2	3	21-2,31-1
Deltapine DP 2022 B3XF	4.4	1.12	81.3	28.8	5.8	76.6	7.1	5	31-2,41-1
PhytoGen PHY 490WRF	4.8	1.09	81.6	30.9	7.4	77.4	7.9	3	31-1,31-2
Stoneville ST 5600B2XF	4.8	1.11	80.4	30.9	7.1	77.8	8.4	2	31-1,31-2
Mean	4.7	1.11	81.3	30.5	6.4	78.2	7.9	3	
c.v.%	3.7	1.6	1.3	3.0	4.1	1.0	3.0	33.0	
LSD 0.05	0.3	0.03	1.8	1.6	0.4	1.3	0.4	2	

Table 13. Results of the irrigated bacterial blight cotton variety screening at Texas A&M AgriLife Research, Lubbock, 2019.

Entry	%Blight 4-Sep Waller/Duncan	Designation	Rating
7	0.00 h	BASF BX 2005 GLT	Resistant
12	0.00 h	Deltapine DP 2012 B3XF	Resistant
13	0.00 h	Deltapine DP 2020 B3XF	Resistant
15	0.00 h	Deltapine DP 2044 B3XF	Resistant
21	0.00 h	NexGen NG 2982 B3XF	Resistant
22	0.00 h	NexGen NG 3930 B3XF	Resistant
23	0.00 h	NexGen NG 3956 B3XF	Resistant
25	0.00 h	NexGen NG 4777 B2XF	Resistant
28	0.00 h	PhytoGen PHY 210W3FE	Resistant
33	0.00 h	PhytoGen PX2C14W3FE	Resistant
35	0.00 h	PhytoGen PX3D32W3FE	Resistant
5	1.25 g <h>h</h>	Americot AMX 19A006 B3XF	Resistant
10	1.25 g <h>h</h>	BASF BX 2037 GLT	Resistant
14	1.25 g <h>h</h>	Deltapine DP 2022 B3XF	Resistant
18	1.25 hg	FiberMax FM 2398GLTP	Resistant
19	1.25 gh	FiberMax FM 2498GLT	Resistant
30	1.25 hg	PhytoGen PHY 320W3FE	Resistant
2	2.50 fgh	Americot AMX 1818 B3XF	Resistant
16	2.50 fgh	Bayer CropScience 18R628NRB3XF	Resistant
26	2.50 fgh	NexGen NG 4792 XF	Resistant
17	5.00 fgh	FiberMax FM 1621GL	Resistant
29	5.00 fgh	PhytoGen PHY 250 W3FE	Resistant
34	5.00 fgh	PhytoGen PHY 400 W3FE	Resistant
6	6.25 fgh	BASF BX 2002 GL	Resistant
32	6.25 fgh	PhytoGen PHY 394 W3FE	Resistant
20	7.50 fgh	FiberMax FM 2574GLT	Resistant
31	7.50 fgh	PhytoGen PHY 350 W3FE	Resistant
36	7.50 fgh	PhytoGen PX3D43W3FE	Resistant
37	11.25 fg	Seed Source Genetics SSG UA 222	Resistant
39	11.25 fg	Stoneville ST 5707B2XF	Partially resistant
9	12.50 f	Deltapine DP 1646 B2XF	Partially resistant
3	45.00 e	Americot AMX 1828 B3XF	Partially susceptible
8	45.00 e	Deltapine DP 1612 B2XF	Partially susceptible
11	67.50 d	BASF BX 2076 GLTP	Partially susceptible
27	77.50 cd	NexGen NG 4936 B3XF	Moderately susceptible
38	85.00 bc	Stoneville ST 5600B2XF	Moderately susceptible
1	93.75 ab	Americot AMX 1816 B3XF	Susceptible
24	95.00 ab	NexGen NG 3994 B3XF	Susceptible
40	97.50 a	Deltapine DP 1522 B2XF	Susceptible
4	100.00 a	Americot AMX 19A005 B3XF	Susceptible

10.93

MSD (0.001)

# Notes

**Table 14. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2019.**

Designation	Pages:	Uniform OVT 23-Aug	Location Summary 24	5 yr Summary 25	Late Planted 26-29	New Varieties 30-31	High Quality 32-33	Root-knot Nematode 34-37	Verticillium Wilt 38-41	Bacterial Blight 42
Americot AMX 1816 B3XF						*				*
Americot AMX 1818 B3XF						*				*
Americot AMX 1828 B3XF						*				*
Americot AMX 19A005 B3XF						*				*
Americot AMX 19A006 B3XF						*				*
BASF BX 2002 GL						*		*	*	*
BASF BX 2005 GLT										*
BASF BX 2037 GLT						*		*	*	*
BASF BX 2076 GLTP								*	*	*
Bayer CropScience 18R628NRB3XF						*		*		*
Brownfield Seed and Delinting BSD 224		*	*							
Brownfield Seed and Delinting BSD 598		*	*							
Brownfield Seed and Delinting BSD 9X		*	*							*
Brownfield Seed and Delinting Ton Buster Elite		*	*							
International Seed Technology BRS 286		*	*	*						
International Seed Technology BRS 293		*	*	*						
International Seed Technology BRS 335		*	*	*						
International Seed Technology BRS 416		*	*							
Deltapine DP 1522 B2XF										*
Deltapine DP 1549 B2XF		*	*							
Deltapine DP 1612 B2XF		*	*	*	*				*	*
Deltapine DP 1646 B2XF		*	*	*			*			*
Deltapine DP 1747 B2XF								*		
Deltapine DP 1820 B3XF		*	*		*		*			*
Deltapine DP 1822 XF		*	*		*					*
Deltapine DP 1845 B3XF		*	*	*			*			
Deltapine DP 1908 B3XF					*					
Deltapine DP 1909 XF					*					
Deltapine DP 1948 B3XF		*	*							
Deltapine DP 2012 B3XF						*			*	*
Deltapine DP 2020 B3XF						*			*	*
Deltapine DP 2022 B3XF						*			*	*
Deltapine DP 2044 B3XF						*				*
Dyna Gro DGX 731GLTP						*				
Dyna Gro DGX 004 B3XF						*				
Dyna Gro DGX 014 B3XF						*				
DynaGro DG 3651NR B2XF								*		
DynaGro DGX 014 B3XF								*		
DynaGro DGX 052 B3XF								*		
DynaGro DGX 052 B3XF								*		
FiberMax FM 1621GL		*	*					*	*	*
FiberMax FM 1830GLT							*			
FiberMax FM 1911GLT		*	*	*				*	*	
FiberMax FM 2398GLTP		*	*					*	*	*
FiberMax FM 2498GLT		*	*		*			*	*	*
FiberMax FM 2574GLT		*	*				*	*	*	*
FiberMax FM 958					*	*	*			
May 257							*			
May 404							*			
May 771							*			
NexGen NG 2982 B3XF		*	*		*			*	*	*
NexGen NG 3640 XF		*	*		*				*	

**Table 14. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2019.**

Designation	Pages:	Uniform OVT 23-Aug	Location Summary 24	5 yr Summary 25	Late Planted 26-29	New Varieties 30-31	High Quality 32-33	Root-knot Nematode 34-37	Verticillium Wilt 38-41	Bacterial Blight 42
NexGen NG 3780 B2XF		*	*		*					
NexGen NG 3930 B3XF		*	*		*			*	*	*
NexGen NG 3956 B3XF		*	*		*			*	*	*
NexGen NG 3994 B3XF										*
NexGen NG 4545 B2XF		*	*	*						
NexGen NG 4689 B3XF		*	*	*					*	
NexGen NG 4777 B2XF		*	*					*	*	*
NexGen NG 4792 XF		*	*					*		*
NexGen NG 4936 B3XF										*
PhytoGen PHY 210 W3FE		*	*		*				*	*
PhytoGen PHY 250 W3FE		*	*	*	*				*	*
PhytoGen PHY 300 W3FE		*	*	*	*					
PhytoGen PHY 320 W3FE		*	*		*			*	*	*
PhytoGen PHY 340 W3FE		*	*	*	*					
PhytoGen PHY 350 W3FE		*	*		*		*	*	*	*
PhytoGen PHY 394 W3FE		*	*		*	*		*	*	*
PhytoGen PHY 400 W3FE		*	*		*	*		*	*	*
PhytoGen PHY 480 W3FE		*	*				*	*		
PhytoGen PHY 490 WRF									*	
PhytoGen PHY 499 WRF		*	*	*						
PhytoGen PHY 500 W3FE						*		*		
PhytoGen PHY 580 W3FE		*	*					*		
PhytoGen PHY 764 WRF		*	*	*			*			
PhytoGen PX2C14W3FE		*	*		*	*		*	*	*
PhytoGen PX3D32W3FE					*	*		*	*	*
PhytoGen PX3D43W3FE					*	*		*	*	*
PhytoGen PX5C05W3FE						*		*		
PhytoGen PX5C45W3FE						*		*		
PhytoGen PX5E28W3FE						*		*		
PhytoGen PX5E34W3FE						*		*		
Seed Source Genetics SSG UA 114		*	*							
Seed Source Genetics SSG UA 222		*	*	*				*	*	*
Stoneville ST 4946GLB2								*		
Stoneville ST 5020GLT							*			
Stoneville ST 5600B2XF		*	*					*	*	*
Stoneville ST 5707B2XF		*	*					*	*	*
TAM 13Q-18						*				
TAM 13-S-03						*				
TAM 16-2-218					*					
TAM BB 2139						*				
Tamcot 73		*	*							
Tamcot G11		*	*							