COTTON PERFORMANCE TESTS

In the Texas High Plains

♦ 2017 ♦

The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos – 2018

♦ Technical Report ♦
18-1

Texas A&M AgriLife Research/ Craig Nessler, Director

TEXAS A&M UNIVERSITY SYSTEM / COLLEGE STATION, TEXAS

Cotton Performance Tests in the Texas High Plains 2017[1/]

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INTRODUCTION

Cotton performance trials were conducted during 2017 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 5 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 long plots on 40 in wide centers.

Cotton season started with a struggle in many areas to find good planting conditions due to spells of cool and wet weather which were followed by days of hot, dry, and windy conditions making crop establishment a challenge. Early replants were common in many areas across the region, and some replanting activity stretched into late June, or even early July, when much of the area received its first rain since mid-May. For the second year in a row, growers on the Texas High Plains produced over 5 million bales of cotton. Much of the success in 2017 resulted from timely rains that enabled the crop to support and fill a heavy fruit load developed over the first two to three months of the season. Even more precipitation made its way over the northern 2/3^{rds} of the region during August but brought with it below average temperatures and prolonged stretches of cloudy weather. However, in counties south of Lubbock, lack of rainfall was the issue as system after system missed this region. While production on a pounds per acre basis in 2017 was high, in many areas crop maturity was a concern which manifested itself in the fiber quality values. In particular, low micronaire was an issue for many producers, which is evidenced by the average micronaire of 3.2 as of February 15th at the Lubbock USDA classing office. Fiber strength and uniformity were also lower than levels typically observed. Despite maturity issues throughout the region and the amount of acres exposed to a killing freeze prior to receiving harvest-aid applications, color and leaf grade values remained at acceptable to excellent levels. Conditions during harvest were generally favorable, with delays due to wind or rain minimal.

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: Joshua Alford, Reid Barker, Bryson Batla, Makenzie Bradley, Jack Clark, Tyler Clark, Will Evans, Heather Elkins-Arce, Brandon Ellison, Joshua Frazier, Cody Halfmann, Emily Howe, Mark Mulholland, Coby Rotan, Monica Sheehan, C.W. Steel, Leslie Wells, Nathan Wood, and Zane Wyatt. 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.

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 [1/]- 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.[2/]

[1/]*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.*

[2/]*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

Soil Type	Date Planted	Date Harvested	Production Information
	Lubbock Uniform Irrigated		fertilizer 100-0-0 lbs/A 3 herbicide applications (1PPI, 1 pre)
Acuff Loam	May 18	November 4	2 furrow irrigations 3.5 acre inches (uni) 2 furrow irrigations 3.5 acre inches nvst 2 furrow irrigations 6.5 acre inches (rhq)
	Lubbock Late Planted Irrigated		1 furrow irrigation 1.7 acre inches (late) 2 defoliation applications
Olton Clay Loam	June 12	November 27	
	Lubbock New Varieties and Strains		
Olton Clay Loam	May 18	November 6	
	Lubbock Regional High Quality		
Acuff Loam	May 19	November 2	
	Lubbock Uniform Dryland		fertilizer 100-0-0 lbs/A 2 herbicide application (1PPI, 1 pre)
Olton Clay Loam	May 18	October 4	2 defoliant applications 18.33 inches rainfall in season
	Halfway Uniform Irrigated		fertilizer 90-0-0 lbs/A
Pullman Clay Loam	May 17	December 1	4 herbicide applications (1PPI, 1pre, 2 post) 1 insecticide application
	Halfway Verticillium Wilt		2 PGR applications 1 defoliant application
Pullman Clay Loam	May 16	November 29	6.1 acre inches in season (uniform) 5.42 acre inches in season (vert)
	Lamesa AG-CARES Uniform Dryland		32-0-0 lbs/A fertigation 1 herbicide application PPI
Amarillo Fine Sandy Loam	May 11	October 20	1 defoliant + boll opener 1 defoliant + crop oil 12.75 inches rainfall in season
	Lamesa AG-CARES Nematode Irrigated		32-0-0 lbs/A fertigation 2 herbicide application (1 PPI, 1 pre)
Amarillo Fine Sandy Loam	May 11	October 23	6.9 acre inches in season (pivot) rkn 8.6 acre inches in season (drip) uni 1 defoliant + boll opener 1 defoliant + crop oil
	Lamesa AG-CARES Uniform Irrigated		
Amarillo Fine Sandy Loam	June 1	December 5	

Table 2. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height
PhytoGen PHY 312 WRF	1209	26.9	44.7	28.3	34.6	5.4	10.5	6.4	29.4	83	5	27
NexGen NG 4545 B2XF	1201	27.4	46.8	28.4	34.2	4.4	9.2	5.2	28.8	62	4	32
PhytoGen PHY 243 WRF	1153	26.4	45.0	28.4	35.0	6.2	10.7	6.3	34.9	72	5	29
NexGen NG 4689 B2XF	1140	28.9	46.2	26.3	33.5	6.3	9.9	5.9	36.5	68	5	30
PhytoGen PHY 330 W3FE	1138	27.3	43.0	27.1	38.0	4.3	7.9	5.4	30.1	85	4	26
International Seed Technology BRS-335	1107	25.8	47.5	26.9	36.4	5.6	10.5	6.2	33.1	77	5	29
International Seed Technology BRS-293	1077	25.5	45.1	26.8	33.5	5.8	10.2	5.6	34.1	70	4	28
NexGen NG 3500 XF	1072	26.1	46.7	27.1	36.3	4.8	9.9	6.0	29.2	72	5	25
FiberMax FM 958	1072	27.8	46.9	27.9	35.7	5.4	9.8	5.8	32.7	75	6	24
PhytoGen PHY 340 W3FE	1069	28.9	44.2	30.8	38.3	5.0	9.0	6.1	31.5	85	5	25
FiberMax FM 1911GLT	1061	28.7	47.1	29.6	37.0	6.1	10.9	6.9	32.7	63	6	24
Deltapine DP 1747NR B2XF	1052	30.2	43.3	30.3	39.2	5.7	9.2	6.5	33.7	47	4	33
Seed Source Genetics UA 222 Saberex	1047	25.7	47.6	27.3	33.8	5.3	10.1	5.7	31.9	67	4	27
Deltapine DP 1612 B2XF	1045	26.0	45.4	29.0	35.5	5.0	10.3	6.2	28.6	73	5	24
Stoneville ST 4946GLB2	1025	26.5	45.9	28.3	35.1	5.5	9.8	5.7	33.8	80	5	24
Deltapine DP 1845 B3XF	1019	28.3	44.2	29.5	36.7	4.9	8.4	5.6	31.9	62	5	29
Deltapine DP 1646 B2XF	1011	29.7	43.5	32.0	40.5	4.6	10.5	7.8	24.1	63	4	29
FiberMax FM 1830GLT	1001	30.2	45.0	29.9	37.3	5.6	9.4	6.7	30.9	88	4	26
Deltapine DP 1549 B2XF	989	26.4	43.8	27.8	36.7	5.9	8.9	5.8	37.3	65	4	29
PhytoGen PHY 450 W3FE	988	28.2	44.9	27.7	34.7	5.2	9.0	5.2	34.9	78	5	27
Deltapine DP 1522 B2XF	977	27.3	45.5	29.6	36.6	5.0	9.9	6.2	29.5	78	4	26
NexGen NG 3640 XF	975	26.6	47.2	30.0	37.0	5.0	10.2	6.2	29.6	70	6	31
PhytoGen PHY 300 W3FE	960	27.5	43.7	27.4	37.8	3.5	8.9	5.9	22.5	72	5	27
PhytoGen PX2A36W3FE	947	24.3	43.3	25.1	33.5	5.8	10.6	5.7	34.0	85	6	24
Monsanto 16R246NR B2XF	941	29.5	45.0	30.8	37.8	6.1	10.4	6.9	33.3	33	4	32
PhytoGen PX2AX3W3FE	940	25.3	44.9	26.9	34.8	5.0	10.3	5.9	29.4	83	6	26
Monsanto 16R346 B2XF	931	28.5	44.2	29.7	36.6	5.1	8.8	5.7	33.1	57	4	29
PhytoGen PHY 499 WRF	927	28.5	43.1	29.3	36.1	4.4	10.7	6.6	23.5	42	6	32
Seed Source Genetics UA 222	896	25.0	45.3	26.5	33.1	5.7	10.1	5.5	34.1	77	6	26
PhytoGen PHY 490 W3FE	893	26.1	39.3	26.3	34.2	4.7	8.6	5.1	31.4	82	6	26

Table 2. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height
PhytoGen PHY 444 WRF	892	28.9	45.1	29.9	36.8	6.2	9.9	6.3	35.7	53	6	29
FiberMax FM 1888GL	891	26.6	44.7	28.9	36.5	6.3	10.1	6.6	34.9	72	5	27
PhytoGen PX2AX2W3FE	884	26.1	43.2	27.0	34.0	5.2	10.1	5.6	31.4	75	6	23
13-9-1001S	881	26.1	45.1	27.4	34.2	5.5	9.3	5.4	34.7	60	4	30
NexGen NG 3699 B2XF	865	26.1	47.1	28.5	34.5	5.3	9.8	5.8	32.0	80	6	28
PhytoGen PX2A28W3FE	864	25.8	44.2	27.0	34.8	4.8	9.7	5.8	28.6	80	6	25
FiberMax FM 2322GL	845	29.9	41.8	29.4	36.6	5.5	9.8	6.7	30.1	55	4	27
PhytoGen PHY 250 W3FE	840	26.7	44.9	26.7	34.1	4.8	9.5	5.5	29.8	75	7	23
International Seed Technology BRS-286	834	26.5	46.7	26.0	34.2	5.1	10.2	5.8	30.4	63	5	30
PhytoGen PX2AX4W3FE	787	25.7	44.2	28.1	34.8	5.5	10.3	6.0	32.1	72	6	27
PhytoGen PX2A31W3FE	783	28.3	44.6	28.6	34.7	4.8	9.4	5.6	30.1	78	7	22
NexGen NG 3406 B2XF	772	26.3	44.5	28.4	35.3	4.8	10.0	6.0	27.8	53	5	26
PhytoGen PX2A27W3FE	763	25.2	46.1	26.7	34.4	6.1	10.4	5.7	37.1	77	6	22
Seed Source Genetics HQ 210 CT	761	24.9	45.9	27.5	33.4	5.2	9.7	5.3	32.6	58	5	24
PhytoGen PHY 764 WRF	751	24.1	44.2	29.1	36.5	3.3	10.0	6.2	19.4	68	3	27
PhytoGen PX2A23W3FE	748	24.7	43.4	24.8	33.0	5.0	10.0	5.4	31.0	73	7	24
Monsanto 16R245NR B2XF	719	28.1	44.1	29.6	36.5	5.6	10.1	6.4	32.3	28	5	30
FiberMax FM 2334GLT	702	29.1	42.2	29.2	37.2	5.0	9.1	6.2	29.8	62	5	26
Mean	947	27.1	44.7	28.2	35.6	5.2	9.8	6.0	31.2	69	5	26
c.v.%	23.3	3.6	4.9	2.9	3.5	8.5	5.8	7.5	9.2	24.5	18.2	10.6
LSD 0.05	299	1.3	3.0	1.4	2.1	0.8	0.9	0.7	4.8	18	1	3

Table 2A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 312 WRF	3.6	1.16	80.9	29.3	7.3	3	72.4	9.5	32-2,41-3
NexGen NG 4545 B2XF	3.6	1.12	79.9	29.9	5.6	2	73.9	9.3	32-2,42-1
PhytoGen PHY 243 WRF	3.2	1.17	78.5	27.7	7.6	4	74.1	8.6	31-1,41-3
NexGen NG 4689 B2XF	3.7	1.09	79.0	29.5	6.3	1	76.5	9.2	31-1,32-1
PhytoGen PHY 330 W3FE	3.6	1.14	80.1	28.4	6.9	3	72.2	9.6	32-2,42-1
International Seed Technology BRS-335	3.4	1.14	80.7	29.8	7.1	3	76.0	8.6	31-1,41-3
International Seed Technology BRS-293	3.1	1.12	80.4	30.9	7.3	1	74.8	9.5	32-1
NexGen NG 3500 XF	4.0	1.13	80.7	30.7	7.4	1	74.1	9.8	31-3,32-2
FiberMax FM 958	3.8	1.15	80.8	29.8	6.2	4	74.3	8.4	41-1,41-3
PhytoGen PHY 340 W3FE	4.3	1.11	81.0	28.2	7.0	3	72.2	9.6	32-2,42-1
FiberMax FM 1911GLT	3.4	1.16	80.8	30.0	6.5	1	77.1	8.6	31-1,31-3
Deltapine DP 1747NR B2XF	3.6	1.13	80.1	29.8	7.5	1	76.5	9.3	21-2,32-1
Seed Source Genetics UA 222 Saberex	3.2	1.13	79.0	28.0	8.6	2	76.6	9.3	22-2,31-1
Deltapine DP 1612 B2XF	3.2	1.16	80.3	28.3	8.1	4	73.9	9.4	32-2
Stoneville ST 4946GLB2	3.7	1.12	80.2	29.5	8.0	2	73.4	9.5	31-3,42-1
Deltapine DP 1845 B3XF	3.4	1.21	80.2	30.7	7.9	3	76.9	8.2	31-1,41-1
Deltapine DP 1646 B2XF	3.8	1.19	79.6	27.6	8.0	2	77.2	8.6	31-1,31-3
FiberMax FM 1830GLT	3.8	1.21	80.8	29.9	6.0	1	77.5	8.2	31-1,31-2
Deltapine DP 1549 B2XF	3.1	1.10	77.9	27.6	6.6	2	75.7	9.1	31-1,32-2
PhytoGen PHY 450 W3FE	3.7	1.11	82.0	30.3	8.3	4	73.0	9.3	31-4,42-1
Deltapine DP 1522 B2XF	3.6	1.14	80.6	29.7	8.5	2	73.8	9.3	31-4,42-1
NexGen NG 3640 XF	3.8	1.08	80.6	30.1	8.1	2	73.6	9.9	32-1
PhytoGen PHY 300 W3FE	3.4	1.11	79.7	28.7	7.1	3	73.9	9.5	32-2
PhytoGen PX2A36W3FE	3.4	1.12	80.5	30.4	5.2	1	74.4	9.2	31-4,32-2
Monsanto 16R246NR B2XF	3.9	1.12	79.8	29.3	7.8	2	75.3	10.5	13-2,31-3
PhytoGen PX2AX3W3FE	3.5	1.12	79.8	28.3	5.6	1	75.7	8.8	31-2,31-4
Monsanto 16R346 B2XF	3.5	1.21	81.4	29.6	8.2	2	78.0	8.4	31-1
PhytoGen PHY 499 WRF	3.5	1.10	80.7	29.7	8.5	3	75.2	9.4	21-3,41-3
Seed Source Genetics UA 222	3.3	1.19	79.3	28.5	8.5	3	70.0	9.5	42-1,52-1
PhytoGen PHY 490 W3FE	3.3	1.12	80.1	28.8	8.3	3	74.0	9.1	31-4,32-2

Table 2A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 444 WRF	3.2	1.17	79.7	29.6	6.9	1	75.5	9.3	21-2,32-2
FiberMax FM 1888GL	3.3	1.16	80.6	30.0	5.7	2	74.2	9.0	31-4,42-1
PhytoGen PX2AX2W3FE	3.4	1.14	80.1	29.7	6.3	2	74.2	9.5	22-2,42-1
13-9-1001S	3.1	1.17	78.9	30.7	7.1	2	74.5	8.8	31-2,41-3
NexGen NG 3699 B2XF	3.4	1.16	80.3	29.4	6.0	4	72.0	9.4	42-1
PhytoGen PX2A28W3FE	3.4	1.15	79.8	28.3	5.0	3	74.0	8.7	31-4,41-3
FiberMax FM 2322GL	3.6	1.18	80.8	29.2	5.4	2	74.3	9.2	31-3,31-4
PhytoGen PHY 250 W3FE	3.3	1.09	79.5	28.3	6.2	2	78.5	9.0	21-1,32-1
International Seed Technology BRS-286	3.0	1.08	78.6	30.1	6.9	3	76.5	8.3	31-2
PhytoGen PX2AX4W3FE	3.6	1.16	80.2	29.9	6.1	1	77.3	8.6	31-1,31-2
PhytoGen PX2A31W3FE	3.9	1.12	81.1	29.1	5.8	1	73.7	9.5	32-1,42-1
NexGen NG 3406 B2XF	3.3	1.12	79.7	28.1	8.2	3	76.0	9.4	21-4,32-1
PhytoGen PX2A27W3FE	3.3	1.18	79.3	30.3	6.1	3	75.1	8.6	31-2,41-3
Seed Source Genetics HQ 210 CT	3.5	1.09	79.8	28.3	7.5	1	77.3	8.6	21-2,31-2
PhytoGen PHY 764 WRF	3.2	1.15	80.5	31.6	7.1	2	73.7	9.2	31-4,32-2
PhytoGen PX2A23W3FE	3.3	1.13	79.2	28.9	6.3	2	76.7	8.9	21-2,31-3
Monsanto 16R245NR B2XF	3.9	1.16	80.0	30.2	6.9	3	76.0	9.5	31-1,32-1
FiberMax FM 2334GLT	3.6	1.18	79.1	29.6	6.1	1	76.7	8.9	31-1,32-1
Mean	3.5	1.14	80.0	29.4	7.0	2	74.9	9.1	
c.v.%	7.2	2.1	1.2	3.5	5.7	45.0	52.3	5.2	
LSD 0.05	0.4	0.04	1.6	1.7	0.7	2	2.9	0.8	

Table 3. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Halfway, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	26-Oct	Resistance	Height
Seed Source Genetics HQ 210 CT	853	23.9	39.9	37.2	28.4	5.5	9.3	6.7	30.5	68	5	34
FiberMax FM 1911GLT	830	24.1	39.2	38.1	29.0	5.3	9.6	6.4	32.0	78	5	32
NexGen NG 3406 B2XF	816	23.0	38.6	38.8	29.9	5.5	10.4	6.9	31.5	68	5	36
Deltapine DP 1549 B2XF	806	23.5	37.9	36.9	27.0	5.7	11.1	6.9	30.3	61	5	30
Seed Source Genetics UA 222	778	23.2	38.9	36.4	24.5	5.1	11.0	6.9	27.2	63	6	32
Stoneville ST 4946GLB2	768	20.9	37.3	35.9	27.1	4.6	9.4	5.9	28.3	66	5	35
NexGen NG 3500 XF	765	21.0	39.3	36.6	28.7	5.7	10.6	6.7	31.4	69	5	36
FiberMax FM 2322GL	762	23.3	39.1	37.8	27.3	5.2	9.5	6.4	30.9	68	6	33
Seed Source Genetics UA 222 Saberex	758	22.0	37.2	36.7	26.3	5.5	10.4	6.6	30.4	70	5	33
PhytoGen PHY 243 WRF	752	23.2	38.3	38.0	26.4	4.7	8.6	6.0	29.9	64	5	32
Monsanto 16R346 B2XF	751	23.9	39.6	37.8	29.2	5.2	10.4	6.7	29.2	55	5	33
13-9-1001S	746	22.1	38.0	35.7	27.0	5.4	10.2	6.4	30.0	55	5	36
PhytoGen PHY 300 W3FE	745	23.6	37.6	37.8	29.6	5.5	10.1	6.8	30.4	76	5	33
Deltapine DP 1747NR B2XF	724	23.1	38.9	38.1	26.5	5.3	10.5	7.0	28.7	59	5	32
PhytoGen PX2A27W3FE	723	23.4	38.0	40.7	30.1	5.2	10.5	7.7	27.5	44	5	35
FiberMax FM 1830GLT	714	23.2	39.0	38.8	28.9	4.9	8.2	5.7	33.9	75	6	33
PhytoGen PHY 499 WRF	701	24.0	40.5	38.4	29.4	5.0	10.4	6.9	27.8	59	5	32
NexGen NG 4545 B2XF	687	23.1	40.4	37.3	28.7	5.5	10.5	6.7	30.7	64	5	32
PhytoGen PX2AX4W3FE	685	23.4	36.8	35.3	27.5	5.3	9.6	5.6	32.9	53	5	34
PhytoGen PHY 330 W3FE	683	22.4	38.1	35.8	26.9	5.4	10.9	6.6	29.8	56	5	34
FiberMax FM 2334GLT	682	20.6	36.4	37.5	27.9	4.9	9.0	5.9	31.3	55	6	37
International Seed Technology BRS-286	682	21.9	38.3	37.9	28.2	4.6	9.0	6.0	29.6	55	6	33
PhytoGen PX2A31W3FE	675	23.3	37.5	39.8	28.7	4.2	8.6	6.0	27.5	55	6	34
Deltapine DP 1522 B2XF	670	21.8	38.1	38.4	29.3	5.0	10.4	6.1	32.1	53	6	35
PhytoGen PHY 250 W3FE	668	23.0	38.6	38.1	29.8	5.9	10.0	6.7	33.4	48	5	36
International Seed Technology BRS-293	665	21.4	37.2	39.3	30.2	5.1	9.8	6.9	29.6	59	5	32
PhytoGen PHY 340 W3FE	665	22.7	38.2	38.3	28.9	5.5	9.8	6.4	33.1	59	5	35
PhytoGen PX2A36W3FE	647	21.9	38.3	38.4	29.0	4.5	9.8	6.6	26.1	51	6	35
PhytoGen PX2A28W3FE	645	21.1	37.3	35.0	25.0	4.9	9.7	6.1	27.7	45	5	35
International Seed Technology BRS-335	639	23.8	38.3	40.2	28.6	5.0	10.4	7.4	27.1	48	5	34

Table 3. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Halfway, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	26-Oct	Resistance	Height
Monsanto 16R245NR B2XF	638	23.2	37.4	38.1	29.9	5.2	10.5	7.1	28.1	63	5	34
PhytoGen PHY 444 WRF	636	22.2	38.1	34.5	26.3	6.1	10.7	6.2	34.2	64	5	34
PhytoGen PHY 450 W3FE	632	20.6	38.9	35.6	23.4	4.8	10.1	6.2	27.5	53	5	36
NexGen NG 3699 B2XF	631	20.2	36.7	38.3	28.4	4.4	9.2	6.2	27.0	51	5	34
PhytoGen PX2AX2W3FE	620	21.3	37.4	39.2	28.2	5.6	10.1	6.9	32.2	65	6	35
PhytoGen PHY 764 WRF	616	20.0	37.4	39.2	30.9	4.6	8.7	6.3	29.1	50	5	35
PhytoGen PHY 312 WRF	612	22.7	37.9	37.5	28.8	5.0	9.7	6.9	27.0	49	6	35
PhytoGen PX2A23W3FE	608	21.1	37.6	38.3	27.1	5.0	10.0	6.7	29.2	45	4	34
PhytoGen PHY 490 W3FE	603	20.9	38.4	37.7	28.7	5.0	9.6	6.3	30.0	54	5	33
PhytoGen PX2AX3W3FE	599	21.8	37.4	38.9	28.8	5.4	9.6	6.6	31.6	56	5	34
Deltapine DP 1612 B2XF	586	22.6	38.3	39.0	30.2	4.3	10.3	7.1	23.4	43	5	35
Deltapine DP 1845 B3XF	572	21.0	36.9	40.5	30.4	5.3	9.4	6.9	30.8	40	4	35
FiberMax FM 1888GL	570	21.3	38.7	37.7	29.1	5.6	9.7	6.3	33.3	63	6	34
NexGen NG 3640 XF	562	23.0	38.4	37.8	28.0	4.5	8.6	5.7	30.1	59	5	36
Monsanto 16R246NR B2XF	556	20.4	37.1	39.1	28.9	4.9	8.5	6.8	28.5	57	5	35
FiberMax FM 958	533	20.8	36.0	36.6	27.9	4.8	9.2	5.8	30.4	54	5	34
Deltapine DP 1646 B2XF	519	23.4	37.3	36.7	28.5	5.4	9.8	6.1	32.5	59	5	35
NexGen NG 4689 B2XF	488	19.4	35.6	36.5	27.7	5.8	10.0	6.3	33.8	54	5	34
Mean	672	22.2	38.0	37.7	28.2	5.1	9.8	6.5	30.0	58	5	34
c.v.%	24.7	7.3	5.4	2.3	2.9	7.9	8.3	9.3	10.0	28.9	14.7	9.4
LSD 0.05	194	1.9	2.4	1.5	1.4	0.7	1.4	1.0	5.0	20	1	4

Table 3A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Halfway, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Seed Source Genetics HQ 210 CT	2.9	1.11	79.3	31.2	7.7	1	74.3	10.8	22-1,33-1
FiberMax FM 1911GLT	2.7	1.09	78.9	30.6	6.9	1	77.2	10.2	21-3,22-1
NexGen NG 3406 B2XF	2.6	1.12	78.6	30.9	8.1	2	74.5	10.9	22-1,23-2
Deltapine DP 1549 B2XF	3.1	1.09	78.8	31.3	7.5	2	76.6	9.7	22-1,31-3
Seed Source Genetics UA 222	2.6	1.12	80.5	31.9	7.5	2	76.8	10.8	13-2,22-1
Stoneville ST 4946GLB2	2.5	1.08	78.8	30.6	8.0	1	73.1	11.9	23-1,23-3
NexGen NG 3500 XF	2.8	1.12	79.0	30.9	8.0	1	74.1	11.8	13-4,23-1
FiberMax FM 2322GL	2.8	1.08	78.5	29.7	8.1	1	75.2	10.5	22-1,23-2
Seed Source Genetics UA 222 Saberex	2.8	1.11	79.5	30.2	6.2	1	74.9	11.1	13-2,22-1
PhytoGen PHY 243 WRF	2.7	1.09	79.8	29.0	8.5	1	74.1	11.2	22-1,23-4
Monsanto 16R346 B2XF	3.2	1.04	78.9	28.8	9.0	1	72.3	11.8	23-2,23-4
13-9-1001S	2.8	1.13	79.7	30.9	6.5	1	76.4	10.0	11-4,32-1
PhytoGen PHY 300 W3FE	3.0	1.08	79.2	30.4	6.9	1	77.5	10.1	21-1,22-1
Deltapine DP 1747NR B2XF	2.8	1.10	79.0	30.0	8.8	1	74.6	10.7	22-2,23-2
PhytoGen PX2A27W3FE	2.8	1.11	79.5	30.7	6.9	1	73.3	11.3	22-2,23-1
FiberMax FM 1830GLT	2.8	1.11	79.2	29.6	6.6	1	77.1	10.2	11-4,22-4
PhytoGen PHY 499 WRF	2.8	1.05	78.4	30.6	7.3	1	73.3	11.4	22-2,23-3
NexGen NG 4545 B2XF	2.7	1.03	77.4	28.7	7.9	1	73.1	11.2	23-4,32-1
PhytoGen PX2AX4W3FE	2.6	1.11	78.1	30.0	7.7	1	75.8	10.8	21-1,23-3
PhytoGen PHY 330 W3FE	2.8	1.12	79.6	31.5	7.3	1	77.2	9.9	21-3,22-1
FiberMax FM 2334GLT	2.7	1.10	79.5	31.1	9.3	2	72.8	12.1	12-2,24-2
International Seed Technology BRS-286	2.4	1.05	76.7	28.2	7.5	1	74.0	11.3	22-1,23-3
PhytoGen PX2A31W3FE	3.0	1.07	79.1	29.7	7.8	2	74.4	11.3	23-1
Deltapine DP 1522 B2XF	2.9	1.08	76.3	27.6	8.2	1	73.4	11.6	23-1,23-4
PhytoGen PHY 250 W3FE	2.7	1.11	79.1	31.1	8.5	1	72.6	12.0	23-2,23-3
International Seed Technology BRS-293	2.5	1.11	78.4	29.6	8.2	1	74.4	11.2	22-1,23-4
PhytoGen PHY 340 W3FE	2.8	1.05	77.5	29.1	6.7	1	77.3	9.3	21-3,31-3
PhytoGen PX2A36W3FE	2.6	1.08	78.1	29.3	7.1	1	75.6	10.7	13-2,32-1
PhytoGen PX2A28W3FE	2.6	1.06	77.7	27.9	8.2	1	70.7	12.5	23-3,24-2
International Seed Technology BRS-335	3.0	1.08	79.7	31.8	7.5	1	73.8	11.3	21-4,23-3

Table 3A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research, Halfway, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Monsanto 16R245NR B2XF	2.7	1.08	78.1	31.0	8.1	1	74.3	11.4	22-1,23-3
PhytoGen PHY 444 WRF	2.7	1.06	78.4	29.8	7.7	2	75.3	10.3	21-4,23-2
PhytoGen PHY 450 W3FE	2.6	1.05	77.3	29.8	6.6	1	77.1	10.3	21-3,22-1
NexGen NG 3699 B2XF	2.4	1.03	77.2	28.8	9.2	1	71.7	12.0	22-2,24-2
PhytoGen PX2AX2W3FE	2.9	1.09	78.3	31.5	8.0	1	72.3	10.9	23-4,32-2
PhytoGen PHY 764 WRF	2.5	1.05	77.0	27.9	8.6	1	71.9	11.9	13-2,33-3
PhytoGen PHY 312 WRF	2.3	1.06	77.1	27.0	8.4	1	71.6	12.6	23-1,24-2
PhytoGen PX2A23W3FE	2.7	1.07	77.6	28.9	8.1	1	76.2	10.6	12-1,22-2
PhytoGen PHY 490 W3FE	2.8	1.05	78.4	29.6	9.4	1	72.2	12.3	23-1,23-3
PhytoGen PX2AX3W3FE	2.4	1.14	78.3	30.2	7.4	1	73.8	10.8	22-1,33-1
Deltapine DP 1612 B2XF	2.7	1.06	77.5	29.7	9.3	1	70.7	12.4	23-1,24-2
Deltapine DP 1845 B3XF	2.5	1.02	76.8	29.2	8.9	1	69.6	13.4	13-4,24-4
FiberMax FM 1888GL	2.7	1.10	79.0	31.0	7.1	1	74.5	10.8	22-1,33-1
NexGen NG 3640 XF	2.9	1.09	79.6	31.1	8.5	1	77.0	9.7	21-1,22-2
Monsanto 16R246NR B2XF	2.4	1.09	78.4	29.2	7.8	1	75.6	10.9	22-1
FiberMax FM 958	2.5	1.06	79.0	30.1	9.2	1	72.4	12.3	23-3
Deltapine DP 1646 B2XF	2.5	1.04	78.1	29.7	8.1	1	71.9	12.4	23-3
NexGen NG 4689 B2XF	2.5	1.10	77.5	30.2	6.7	2	74.4	10.0	31-1,33-1
Mean	2.7	1.08	78.4	29.9	7.8	1	74.1	11.1	
c.v.%	12.0	3.1	1.6	5.5	15.0	32.2	3.9	10.0	
LSD 0.05	0.5	0.06	2.1	2.8	2.0	1	4.9	1.9	

Table 4. Yield and agronomic property results from the drip irrigated uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Nov	Resistance	Height
NexGen NG 4689 B2XF	1774	29.9	46.0	40.3	31.6	5.9	9.7	7.2	33.0	63	4	41
FiberMax FM 1911GLT	1692	29.2	44.9	40.1	31.6	5.9	11.6	8.4	28.3	81	6	33
Monsanto 16R346 B2XF	1673	29.0	42.1	39.7	30.4	5.1	8.0	6.1	33.1	63	5	42
International Seed Technology BRS-335	1627	27.0	47.3	38.3	31.3	5.4	9.3	6.1	34.0	75	4	45
Stoneville ST 4946GLB2	1616	29.7	47.1	36.2	28.4	5.4	9.7	6.2	32.0	74	5	38
FiberMax FM 2334GLT	1605	30.4	43.5	41.0	32.2	5.6	8.2	6.7	34.1	74	4	38
FiberMax FM 958	1588	28.1	46.6	36.5	28.6	5.4	9.8	6.4	30.5	80	6	37
PhytoGen PHY 330 W3FE	1584	28.8	43.9	40.4	30.7	5.1	8.7	6.8	30.4	75	5	38
PhytoGen PHY 340 W3FE	1579	28.6	43.9	40.5	31.4	5.3	10.1	7.5	28.9	78	5	37
PhytoGen PHY 499 WRF	1574	28.2	43.8	38.9	30.0	4.8	8.7	6.3	29.9	76	4	39
Seed Source Genetics UA 222 Saberex	1569	28.0	45.8	41.0	32.8	5.4	9.9	7.4	30.0	74	4	36
PhytoGen PX2A27W3FE	1550	26.8	45.2	38.6	28.9	5.5	9.9	6.9	31.0	85	6	35
PhytoGen PHY 243 WRF	1526	27.3	45.6	40.9	31.6	5.5	9.8	7.2	31.6	80	4	36
Deltapine DP 1522 B2XF	1523	28.7	44.2	41.9	32.7	5.3	8.2	6.6	34.0	70	5	42
NexGen NG 3640 XF	1500	29.5	45.0	40.7	31.9	4.8	8.7	6.7	28.7	70	5	36
PhytoGen PHY 450 W3FE	1498	27.5	44.2	38.1	29.5	5.0	8.7	5.9	32.9	69	5	40
FiberMax FM 1888GL	1485	28.8	46.3	39.5	31.1	6.4	10.5	7.7	33.3	75	5	38
PhytoGen PHY 250 W3FE	1481	28.4	44.2	36.9	28.1	5.5	9.7	6.3	32.5	84	5	33
PhytoGen PX2A28W3FE	1473	27.9	44.8	39.0	30.4	5.6	10.2	7.2	30.3	70	5	37
PhytoGen PX2A31W3FE	1469	28.5	45.4	39.4	30.4	5.4	9.8	6.8	30.9	88	7	28
PhytoGen PX2A23W3FE	1465	26.6	44.9	39.2	29.6	5.8	10.0	6.7	33.7	81	6	33
PhytoGen PHY 300 W3FE	1449	27.3	42.4	41.9	32.0	5.3	8.1	6.5	34.0	83	5	39
International Seed Technology BRS-293	1430	28.2	46.3	37.3	29.8	5.7	9.6	6.3	34.0	69	5	41
PhytoGen PX2AX4W3FE	1420	27.7	44.2	37.0	28.2	5.9	10.3	6.8	32.3	83	6	31
PhytoGen PX2AX2W3FE	1419	27.9	45.4	38.6	29.2	5.4	10.3	6.8	30.7	83	6	33
Seed Source Genetics HQ 210 CT	1419	28.7	49.9	36.0	29.0	5.5	8.6	5.5	35.6	73	4	37
Deltapine DP 1646 B2XF	1411	33.3	44.5	44.1	35.0	5.4	8.5	7.5	32.1	66	5	44
NexGen NG 3406 B2XF	1410	29.4	44.1	41.0	31.9	5.4	8.6	6.5	34.3	70	5	39
PhytoGen PHY 444 WRF	1391	29.0	43.2	41.9	32.3	6.1	10.3	8.2	31.4	70	5	45
Monsanto 16R245NR B2XF	1390	29.5	45.2	40.5	32.6	4.7	9.7	7.3	26.2	65	4	42

Table 4. Yield and agronomic property results from the drip irrigated uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Nov	Resistance	Height
FiberMax FM 1830GLT	1359	30.1	43.4	41.1	32.1	4.9	8.2	6.5	31.3	79	4	42
PhytoGen PHY 490 W3FE	1358	27.6	44.0	38.1	29.0	4.9	9.5	6.7	27.8	76	5	39
PhytoGen PX2AX3W3FE	1351	27.9	46.7	38.0	29.4	5.3	10.1	6.7	30.2	88	6	31
Deltapine DP 1845 B3XF	1350	30.2	44.7	43.6	32.6	4.5	7.8	6.7	28.8	61	6	39
Monsanto 16R246NR B2XF	1348	30.2	42.2	44.0	34.5	6.8	9.6	8.1	37.3	36	5	41
International Seed Technology BRS-286	1325	27.4	44.8	39.9	31.7	5.6	10.1	7.2	30.9	71	4	46
Deltapine DP 1549 B2XF	1309	28.4	43.4	40.6	33.0	4.7	9.3	7.4	26.3	68	4	45
Deltapine DP 1612 B2XF	1280	27.4	44.9	38.7	29.5	5.3	8.8	6.2	32.7	85	3	37
PhytoGen PHY 312 WRF	1252	28.4	45.0	39.8	31.2	5.3	9.5	6.9	30.4	83	4	41
PhytoGen PX2A36W3FE	1235	26.1	46.9	35.2	27.1	5.9	10.8	6.4	32.4	80	5	31
Seed Source Genetics UA 222	1225	27.0	46.2	38.9	31.3	5.5	10.3	7.3	29.6	71	3	32
Deltapine DP 1747NR B2XF	1219	31.3	42.8	43.3	35.1	5.2	8.5	7.5	29.8	66	3	37
NexGen NG 3699 B2XF	1207	28.3	45.4	38.3	30.3	5.7	8.2	6.3	34.4	71	5	36
NexGen NG 4545 B2XF	1174	28.7	45.4	40.2	32.0	5.5	9.1	6.7	32.9	76	4	40
NexGen NG 3500 XF	1163	29.2	45.2	41.8	32.3	5.4	9.0	6.9	32.7	79	5	40
FiberMax FM 2322GL	1161	29.7	42.4	38.8	30.5	5.8	10.1	7.5	29.8	73	5	32
13-9-1001S	1054	25.0	43.8	39.2	29.8	4.8	8.1	5.9	32.2	74	4	41
PhytoGen PHY 764 WRF	945	25.0	43.5	38.1	27.9	4.8	9.3	6.4	28.6	71	3	39
Mean	1415	28.4	44.8	39.6	30.9	5.4	9.3	6.8	31.5	74	5	38
c.v.%	16.0	3.3	3.5	2.2	2.2	5.7	7.1	6.9	7.7	12.3	14.7	11.7
LSD 0.05	265	1.1	1.8	1.4	1.1	0.5	1.1	0.8	4.1	11	1	5

Table 4A. Fiber quality results from the drip irrigated uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NG 4689 B2XF	4.4	1.13	80.0	30.3	5.9	1	76.9	8.3	31-1,31-2
FiberMax FM 1911GLT	3.7	1.14	79.3	30.0	6.2	1	79.4	7.4	31-1,31-2
Monsanto 16R346 B2XF	3.9	1.24	81.6	30.0	8.4	2	78.8	7.0	31-2
International Seed Technology BRS-335	3.3	1.14	79.0	28.8	6.9	3	77.1	7.1	41-1
Stoneville ST 4946GLB2	3.8	1.12	81.3	29.7	7.9	2	74.1	8.4	41-1,41-3
FiberMax FM 2334GLT	4.4	1.19	80.7	30.7	5.1	1	79.0	7.3	31-2
FiberMax FM 958	4.2	1.15	80.5	30.2	5.1	1	77.1	7.4	41-1
PhytoGen PHY 330 W3FE	3.9	1.13	79.3	27.4	6.8	2	74.3	8.5	31-2,413
PhytoGen PHY 340 W3FE	4.0	1.14	80.4	29.2	6.4	3	75.2	8.1	41-1
PhytoGen PHY 499 WRF	4.0	1.13	80.0	30.1	8.2	1	76.0	7.7	41-1
Seed Source Genetics UA 222 Saberex	3.7	1.16	79.8	30.1	7.9	3	77.7	7.7	31-1,41-1
PhytoGen PX2A27W3FE	4.0	1.15	79.9	30.0	5.5	3	76.3	7.2	41-1
PhytoGen PHY 243 WRF	3.5	1.12	77.1	26.9	7.0	1	78.2	7.5	31-2
Deltapine DP 1522 B2XF	4.4	1.13	80.1	30.3	9.4	2	78.7	7.7	31-1
NexGen NG 3640 XF	4.5	1.09	81.2	30.3	8.3	2	74.5	9.1	31-4,32-2
PhytoGen PHY 450 W3FE	3.9	1.12	80.2	30.5	7.8	2	75.6	7.9	41-1
FiberMax FM 1888GL	3.7	1.13	80.5	30.8	5.2	1	78.0	7.4	31-2,41-1
PhytoGen PHY 250 W3FE	4.0	1.13	80.0	30.0	5.7	2	77.7	7.5	31-2,41-1
PhytoGen PX2A28W3FE	3.6	1.14	78.7	29.8	6.1	2	78.6	7.4	31-2
PhytoGen PX2A31W3FE	4.1	1.12	80.6	30.1	5.7	2	77.6	7.6	31-2,41-1
PhytoGen PX2A23W3FE	3.8	1.18	80.5	32.7	5.5	2	76.3	7.2	41-1
PhytoGen PHY 300 W3FE	3.9	1.10	79.4	29.1	7.4	2	73.5	8.3	41-1,41-3
International Seed Technology BRS-293	3.9	1.13	80.6	31.1	6.8	1	76.4	7.4	41-1
PhytoGen PX2AX4W3FE	4.0	1.15	79.6	29.5	6.0	2	77.5	7.2	41-1
PhytoGen PX2AX2W3FE	3.9	1.15	80.7	31.3	6.2	1	78.7	7.3	31-2
Seed Source Genetics HQ 210 CT	3.9	1.10	78.9	29.9	7.4	1	77.8	7.2	31-2,41-1
Deltapine DP 1646 B2XF	4.3	1.18	80.1	29.2	7.9	2	78.7	6.9	31-2,41-1
NexGen NG 3406 B2XF	4.0	1.13	81.0	31.0	8.8	2	78.0	7.9	31-1,31-2
PhytoGen PHY 444 WRF	3.5	1.15	79.5	29.3	7.1	1	78.5	8.3	21-2,31-1
Monsanto 16R245NR B2XF	4.2	1.19	81.5	31.1	6.9	2	77.2	7.9	31-2

Table 4A. Fiber quality results from the drip irrigated uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1830GLT	4.1	1.15	80.9	30.7	7.0	2	77.3	8.0	31-1,31-2
PhytoGen PHY 490 W3FE	4.1	1.14	80.9	30.5	7.8	2	77.9	7.9	31-1,31-2
PhytoGen PX2AX3W3FE	3.8	1.14	79.5	29.5	5.7	2	78.0	7.2	31-2,41-1
Deltapine DP 1845 B3XF	4.0	1.20	80.1	31.0	8.3	2	80.1	7.4	31-1
Monsanto 16R246NR B2XF	4.3	1.14	81.1	32.9	8.0	1	78.7	8.3	21-2,31-1
International Seed Technology BRS-286	3.9	1.11	79.3	30.7	7.4	1	79.1	7.5	31-1,31-2
Deltapine DP 1549 B2XF	4.0	1.11	78.9	30.4	7.6	1	77.9	7.4	31-2
Deltapine DP 1612 B2XF	3.8	1.16	80.5	31.7	9.0	3	75.1	7.7	41-1,41-2
PhytoGen PHY 312 WRF	3.9	1.16	80.8	29.5	6.7	2	77.1	7.8	31-2
PhytoGen PX2A36W3FE	4.0	1.12	79.2	31.0	5.9	1	79.6	7.7	31-1
Seed Source Genetics UA 222	3.7	1.16	80.0	29.8	7.7	2	77.2	7.5	31-2,41-1
Deltapine DP 1747NR B2XF	4.4	1.08	78.8	28.8	6.9	1	77.5	8.2	31-1,31-2
NexGen NG 3699 B2XF	4.3	1.14	79.9	29.3	6.2	1	78.2	7.7	31-1,31-2
NexGen NG 4545 B2XF	4.2	1.10	79.9	28.3	5.5	1	74.9	8.2	41-1
NexGen NG 3500 XF	4.6	1.10	81.1	30.6	7.5	1	74.8	8.6	31-2,41-3
FiberMax FM 2322GL	4.0	1.16	79.6	30.6	5.0	2	76.4	8.2	31-2,31-4
13-9-1001S	3.4	1.14	78.6	30.5	7.3	1	77.7	7.6	31-2
PhytoGen PHY 764 WRF	3.8	1.15	81.3	34.2	7.4	1	78.1	7.6	31-2
Mean	4.0	1.14	80.0	30.2	6.9	1	77.2	7.7	
c.v.%	4.3	2.0	1.1	2.8	9.2	40.9	1.6	4.4	
LSD 0.5	0.3	0.04	1.5	1.9	1.1	1	2.0	0.6	

Table 5. Yield and agronomic property results from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11-Oct	Resistance	Height
PhytoGen PHY 499 WRF	667	26.2	42.2	37.7	30.5	5.0	9.3	6.1	30.6	28	4	25
NexGen NG 4545 B2XF	652	23.9	40.1	35.7	30.8	5.0	10.1	6.1	29.4	35	3	22
Deltapine DP 1612 B2XF	636	25.8	41.2	35.0	28.6	4.4	8.3	4.9	31.2	38	3	19
PhytoGen PHY 243 WRF	626	24.4	42.1	34.6	27.5	5.1	9.8	5.6	31.7	35	4	21
Monsanto 16R346 B2XF	622	25.0	38.4	36.3	29.7	4.9	8.4	5.3	33.6	23	4	24
FiberMax FM 2322GL	619	27.3	37.1	39.6	31.0	5.1	9.9	6.9	28.8	38	5	22
NexGen NG 4689 B2XF	616	24.1	41.3	35.2	28.4	5.3	8.9	5.1	36.3	43	4	23
Monsanto 16R246NR B2XF	607	27.4	41.3	40.2	32.7	5.3	9.2	6.4	33.3	10	4	22
PhytoGen PHY 300 W3FE	596	25.0	37.9	39.1	30.1	4.4	7.7	5.3	32.4	48	4	19
PhytoGen PHY 312 WRF	594	23.8	40.2	34.4	27.2	4.6	8.8	5.1	30.5	55	3	20
NexGen NG 3406 B2XF	593	24.8	39.9	36.4	30.3	4.6	8.5	5.2	32.4	43	4	21
PhytoGen PHY 330 W3FE	593	24.8	38.5	38.8	31.3	4.7	8.3	5.6	32.5	55	4	19
Deltapine DP 1845 B3XF	592	25.0	38.6	39.9	33.3	4.8	8.1	5.7	33.4	35	4	22
PhytoGen PHY 444 WRF	591	25.2	39.4	34.5	28.1	4.9	10.1	5.6	30.0	33	5	22
International Seed Technology BRS-335	585	24.8	43.6	33.0	27.3	4.9	9.6	5.1	32.1	33	5	23
International Seed Technology BRS-286	584	23.1	40.9	34.6	28.0	5.2	9.1	5.0	36.1	23	4	25
Deltapine DP 1747NR B2XF	582	28.2	39.3	39.9	32.7	5.2	9.0	6.5	32.2	11	4	24
PhytoGen PHY 340 W3FE	579	25.2	36.9	37.6	29.4	4.4	8.4	5.5	30.1	45	4	17
Seed Source Genetics UA 222	579	23.8	41.0	34.1	27.9	5.4	10.4	5.9	31.8	38	3	20
NexGen NG 3500 XF	571	24.4	41.1	34.8	28.3	4.7	9.9	5.6	29.1	50	3	21
Deltapine DP 1549 B2XF	560	24.6	39.4	37.5	30.3	4.7	8.2	5.2	33.8	19	4	22
FiberMax FM 2334GLT	546	27.3	39.3	38.1	31.1	4.5	8.7	5.5	31.1	30	4	19
Seed Source Genetics HQ 210 CT	545	22.9	40.7	33.7	26.9	4.5	9.4	5.2	29.9	50	3	20
Stoneville ST 4946GLB2	544	23.2	41.3	36.3	29.2	4.9	9.2	5.5	32.4	45	4	21
Deltapine DP 1522 B2XF	536	23.8	41.3	36.4	29.3	4.2	8.6	5.2	29.8	30	4	21
NexGen NG 3640 XF	527	24.2	42.6	34.9	28.4	4.4	9.9	5.5	27.9	35	4	22
PhytoGen PHY 450 W3FE	523	23.6	39.7	36.7	28.7	4.2	9.0	5.4	28.9	24	4	21
NexGen NG 3699 B2XF	521	23.3	42.0	35.0	28.0	4.4	8.9	5.3	28.9	48	4	22
Deltapine DP 1646 B2XF	516	28.5	39.3	41.4	34.2	4.5	8.1	6.1	30.3	13	4	24
Seed Source Genetics UA 222 Saberex	511	23.2	42.4	33.8	28.0	4.5	9.5	5.3	28.6	43	4	20

Table 5. Yield and agronomic property results from the dryland uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11-Oct	Resistance	Height
FiberMax FM 1911GLT	499	24.8	40.2	37.3	29.2	5.5	10.9	6.9	29.7	56	5	18
PhytoGen PX2AX2W3FE	498	23.4	38.9	36.5	27.7	4.4	9.5	5.8	27.8	40	6	18
PhytoGen PX2A31W3FE	496	25.2	38.4	38.1	29.7	4.5	9.2	5.9	29.2	50	6	18
PhytoGen PHY 250 W3FE	491	23.3	39.8	35.8	27.6	4.7	9.2	5.5	30.5	38	5	19
PhytoGen PHY 490 W3FE	488	24.3	38.3	36.4	28.0	4.5	8.4	5.1	31.6	18	4	22
PhytoGen PX2A28W3FE	484	23.5	39.6	35.4	28.2	4.7	9.0	5.4	31.0	40	4	19
PhytoGen PX2AX3W3FE	483	23.3	38.3	35.7	27.8	4.5	10.0	5.9	27.5	23	6	19
International Seed Technology BRS-293	481	23.4	40.3	33.3	26.5	5.3	9.6	5.2	34.0	15	4	25
Monsanto 16R245NR B2XF	478	23.4	38.3	37.0	31.0	5.4	9.9	6.1	32.2	13	4	25
PhytoGen PX2A36W3FE	471	23.9	41.1	34.6	27.0	4.8	9.7	5.5	30.5	35	6	15
PhytoGen PX2A23W3FE	470	22.9	38.7	34.5	25.9	4.8	10.2	5.9	27.8	40	5	19
FiberMax FM 1888GL	458	23.6	36.6	35.1	28.3	5.5	10.1	6.1	31.7	43	4	20
13-9-1001S	432	23.7	39.8	36.9	28.9	4.4	8.6	5.2	31.2	33	3	18
PhytoGen PX2AX4W3FE	429	22.7	39.2	35.3	27.3	4.8	9.7	5.5	30.9	40	4	19
FiberMax FM 1830GLT	421	25.4	37.1	39.6	30.7	4.7	8.6	6.1	30.4	59	3	18
FiberMax FM 958	417	24.5	42.4	36.4	28.9	5.0	10.2	6.0	30.3	44	5	18
PhytoGen PX2A27W3FE	415	22.5	39.2	35.3	27.0	5.0	10.0	5.7	30.6	43	5	19
PhytoGen PHY 764 WRF	357	21.5	40.7	33.5	26.2	4.6	9.4	5.4	28.7	30	3	21
Mean	535	24.4	39.9	36.3	29.0	4.8	9.2	5.6	30.9	36	4	21
c.v.%	18.1	5.1	4.0	2.0	2.9	5.7	6.0	5.8	6.7	40.8	18.9	11.4
LSD 0.05	113	1.5	1.9	1.2	1.4	0.5	0.9	0.5	3.4	17	1	3

Table 5A. Fiber quality results from the dryland uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 499 WRF	3.4	1.08	79.5	28.9	8.4	3	74.0	9.3	31-4,32-2
NexGen NG 4545 B2XF	3.8	1.10	79.8	28.4	6.6	2	74.8	9.6	31-3,32-2
Deltapine DP 1612 B2XF	3.3	1.14	79.9	28.9	7.4	3	72.8	9.6	32-2,42-1
PhytoGen PHY 243 WRF	3.5	1.07	76.4	25.1	7.1	3	74.6	8.9	31-1,42-1
Monsanto 16R346 B2XF	3.5	1.19	80.0	29.6	9.1	2	79.4	8.2	21-1,31-1
FiberMax FM 2322GL	3.8	1.15	79.2	29.7	5.9	2	71.9	9.8	32-2,42-1
NexGen NG 4689 B2XF	3.5	1.09	79.0	28.3	5.6	1	75.1	9.4	31-3,32-1
Monsanto 16R246NR B2XF	3.8	1.12	80.0	29.9	7.6	2	77.1	9.2	21-1,31-3
PhytoGen PHY 300 W3FE	3.5	1.08	79.4	28.0	7.3	1	73.0	9.9	32-1,32-2
PhytoGen PHY 312 WRF	3.4	1.11	79.3	27.6	7.3	2	75.2	9.3	31-3
NexGen NG 3406 B2XF	3.4	1.11	80.2	28.6	8.3	2	75.0	9.5	31-3,32-2
PhytoGen PHY 330 W3FE	3.8	1.10	79.9	27.8	7.2	3	71.5	9.8	32-2,42-1
Deltapine DP 1845 B3XF	3.4	1.18	78.9	29.1	7.5	2	76.6	8.6	31-2,31-3
PhytoGen PHY 444 WRF	2.9	1.14	77.7	26.0	6.6	1	77.0	9.3	21-4,31-3
International Seed Technology BRS-335	3.1	1.09	78.3	28.4	7.1	2	76.3	8.9	31-1,31-3
International Seed Technology BRS-286	3.1	1.03	77.3	28.0	7.0	2	75.3	9.0	31-3,31-4
Deltapine DP 1747NR B2XF	4.2	1.04	77.8	26.8	7.5	1	77.1	9.6	21-4
PhytoGen PHY 340 W3FE	3.5	1.11	79.7	27.3	7.1	3	72.6	9.7	32-2,42-1
Seed Source Genetics UA 222	3.4	1.15	79.3	29.8	8.5	3	73.2	9.2	32-2,41-3
NexGen NG 3500 XF	4.0	1.07	80.9	29.8	7.8	3	71.7	9.7	32-2.42-1
Deltapine DP 1549 B2XF	3.3	1.07	77.1	26.8	7.1	1	76.9	9.1	21-1,31-4
FiberMax FM 2334GLT	3.6	1.16	80.2	29.2	5.9	1	76.6	8.6	31-1,31-2
Seed Source Genetics HQ 210 CT	3.6	1.06	78.8	28.8	7.0	1	75.2	9.1	31-3,32-2
Stoneville ST 4946GLB2	3.6	1.08	78.8	29.6	7.6	2	73.1	9.9	32-1,32-2
Deltapine DP 1522 B2XF	3.4	1.10	78.8	27.9	9.3	2	75.0	9.5	31-3,32-1
NexGen NG 3640 XF	3.8	1.09	80.7	28.4	8.2	1	71.3	10.1	32-2,43-1
PhytoGen PHY 450 W3FE	3.3	1.08	79.9	29.9	8.2	1	74.0	9.7	32-1,32-2
NexGen NG 3699 B2XF	3.4	1.11	78.0	27.5	6.0	1	72.8	9.5	32-2,42-1
Deltapine DP 1646 B2XF	3.2	1.13	76.9	26.6	7.9	1	77.5	8.8	31-1
Seed Source Genetics UA 222 Saberex	3.2	1.14	79.0	28.5	9.2	2	73.4	9.2	31-3,42-1

Table 5A. Fiber quality results from the dryland uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1911GLT	3.1	1.12	77.4	28.9	6.2	2	75.8	9.0	31-1,31-3
PhytoGen PX2AX2W3FE	3.4	1.10	78.8	27.6	6.0	2	76.0	8.8	31-2,31-3
PhytoGen PX2A31W3FE	3.8	1.08	79.5	28.6	6.4	2	73.0	9.6	32-2,42-1
PhytoGen PHY 250 W3FE	3.2	1.08	76.9	26.4	5.8	2	76.8	9.1	21-2,32-2
PhytoGen PHY 490 W3FE	3.2	1.06	78.2	27.1	7.8	2	78.1	8.9	32-2,31-1
PhytoGen PX2A28W3FE	2.9	1.09	77.1	25.5	5.8	1	78.5	8.5	21-2,31-1
PhytoGen PX2AX3W3FE	3.3	1.11	78.9	28.5	5.7	2	77.2	8.6	31-1
International Seed Technology BRS-293	3.3	1.04	78.7	29.1	7.5	2	76.1	9.3	21-4,31-3
Monsanto 16R245NR B2XF	3.4	1.15	79.0	27.7	7.2	2	74.9	9.6	31-3,32-1
PhytoGen PX2A36W3FE	3.4	1.08	79.0	29.3	5.5	2	76.7	8.6	31-1
PhytoGen PX2A23W3FE	3.2	1.12	78.9	28.7	7.0	2	77.2	8.4	31-1,31-2
FiberMax FM 1888GL	3.4	1.12	79.9	29.7	5.4	3	73.4	9.0	31-4,42-1
13-9-1001S	3.1	1.12	77.6	27.3	6.4	2	77.3	8.4	31-1,31-2
PhytoGen PX2AX4W3FE	3.2	1.10	78.9	29.7	5.9	2	75.7	8.7	31-2,31-3
FiberMax FM 1830GLT	3.9	1.13	78.9	29.0	6.5	2	72.6	9.1	42-1
FiberMax FM 958	3.4	1.11	79.6	29.1	6.0	2	75.6	8.7	31-1,31-1
PhytoGen PX2A27W3FE	3.5	1.13	78.4	27.9	6.1	2	73.9	9.2	32-2,41-3
PhytoGen PHY 764 WRF	3.0	1.12	79.0	30.9	7.3	2	74.1	9.6	32-2
Mean	3.4	1.10	78.8	28.3	7.0	2	75.0	9.2	
c.v.%	6.5	2.0	1.0	4.3	6.8	40.5	2.3	3.4	
LSD 0.05	0.4	0.04	1.4	2.0	0.8	1	2.9	0.5	

Table 6. Yield and agronomic property results from the dryland uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	7-Sep	Resistance	Height
Deltapine DP 1646 B2XF	905	32.2	42.3	44.2	36.3	5.6	7.5	6.4	32.2	49	4	27
Deltapine DP 1549 B2XF	903	30.4	44.9	41.1	33.0	6.0	8.5	6.1	32.5	34	5	27
PhytoGen PHY 450 W3FE	890	29.3	43.6	37.0	29.3	6.3	9.2	5.9	31.4	44	5	26
PhytoGen PHY 499 WRF	887	32.0	43.3	41.4	33.7	6.2	9.0	6.8	30.8	55	3	28
Deltapine DP 1747NR B2XF	870	32.0	42.8	44.2	35.8	6.6	8.4	7.0	33.8	11	4	28
Seed Source Genetics UA 222	864	29.2	45.1	38.6	31.9	7.0	10.7	7.0	31.6	34	4	25
PhytoGen PHY 444 WRF	846	30.9	44.9	42.6	34.5	6.5	9.2	7.2	31.2	38	5	26
NexGen NG 3406 B2XF	825	30.7	44.6	41.2	33.7	6.1	8.5	6.4	32.1	56	5	24
PhytoGen PHY 312 WRF	810	30.5	42.4	40.5	32.7	6.6	9.5	6.9	31.4	68	4	27
Seed Source Genetics HQ 210 CT	809	31.0	48.7	36.4	29.5	5.9	8.8	5.3	32.9	45	3	26
Monsanto 16R245NR B2XF	805	29.2	43.3	43.0	34.8	7.5	9.7	7.5	34.5	29	5	27
Deltapine DP 1612 B2XF	802	29.6	43.4	40.2	32.7	6.1	9.1	6.7	29.7	73	3	25
Stoneville ST 4946GLB2	784	28.9	44.4	38.3	31.7	7.5	10.7	7.1	33.9	40	5	27
Monsanto 16R246NR B2XF	779	31.1	43.6	41.8	34.3	7.1	9.2	7.0	35.1	34	4	25
PhytoGen PHY 330 W3FE	777	29.7	40.1	40.4	31.6	6.2	8.6	6.4	30.2	70	5	25
International Seed Technology BRS-335	772	29.3	46.4	38.2	31.3	7.0	9.3	6.0	36.8	49	3	25
Monsanto 16R346 B2XF	769	29.8	43.8	41.2	33.0	6.6	8.5	6.3	34.3	36	5	25
Deltapine DP 1522 B2XF	764	30.0	42.7	38.3	30.8	6.1	8.6	5.8	31.9	65	4	27
PhytoGen PHY 300 W3FE	759	28.6	40.8	42.3	32.6	6.3	7.9	6.3	32.9	73	6	25
NexGen NG 3500 XF	757	30.0	44.1	40.3	32.4	6.6	9.0	6.4	33.4	70	5	26
Deltapine DP 1845 B3XF	755	31.0	43.4	40.8	33.0	6.1	8.2	6.1	33.2	44	5	24
NexGen NG 4545 B2XF	749	29.6	43.2	42.2	34.6	5.7	8.7	6.5	30.5	65	5	29
PhytoGen PHY 490 W3FE	742	26.9	43.8	39.7	31.4	5.7	8.5	5.9	30.4	51	5	26
International Seed Technology BRS-293	730	27.7	46.0	36.9	30.0	7.2	10.8	6.7	32.2	34	4	27
PhytoGen PHY 340 W3FE	727	30.2	42.1	38.4	29.9	6.3	8.0	5.8	32.9	54	6	24
NexGen NG 3640 XF	725	29.4	43.8	40.1	31.7	6.7	9.6	6.7	31.2	49	5	28
PhytoGen PX2AX3W3FE	715	29.1	42.2	41.2	32.3	6.4	9.4	7.2	29.0	75	6	23
PhytoGen PHY 243 WRF	707	26.7	41.2	41.1	31.5	6.0	9.9	7.2	26.5	70	4	25
PhytoGen PX2A28W3FE	691	29.9	42.5	40.7	31.3	6.6	9.8	7.0	29.5	76	6	24
Seed Source Genetics UA 222 Saberex	691	27.4	44.8	38.1	30.9	6.3	10.2	6.6	29.4	30	4	23

Table 6. Yield and agronomic property results from the dryland uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	7-Sep	Resistance	Height
NexGen NG 4689 B2XF	688	30.4	42.2	40.3	32.6	6.4	8.7	6.2	33.5	46	5	28
PhytoGen PX2AX4W3FE	684	27.7	42.3	38.7	29.2	6.7	9.9	6.6	29.9	73	7	23
FiberMax FM 2322GL	674	30.5	42.0	42.5	33.9	6.8	9.3	7.5	30.9	55	5	27
PhytoGen PHY 250 W3FE	653	28.5	41.2	37.0	28.4	6.3	9.0	6.0	29.9	73	7	22
FiberMax FM 1888GL	649	30.0	43.8	41.7	33.5	7.1	9.5	7.1	33.8	48	5	26
PhytoGen PX2A23W3FE	642	26.9	42.4	37.2	27.3	6.2	9.5	6.1	28.1	69	7	22
FiberMax FM 1830GLT	640	31.0	40.8	43.3	35.2	6.9	8.9	7.1	34.3	71	4	26
FiberMax FM 1911GLT	636	29.2	41.5	42.1	33.5	7.9	11.0	8.4	31.3	70	6	23
NexGen NG 3699 B2XF	631	28.0	45.4	38.5	30.8	6.8	9.4	6.2	33.8	60	6	26
PhytoGen PX2A36W3FE	630	28.8	47.1	38.4	29.4	6.7	9.7	6.3	31.4	68	7	20
PhytoGen PX2A27W3FE	627	25.9	42.4	39.3	29.5	6.7	10.1	6.7	29.5	65	6	23
PhytoGen PX2AX2W3FE	624	29.3	42.0	38.4	28.3	6.5	9.4	6.2	29.3	76	7	22
FiberMax FM 958	616	29.2	46.9	37.0	28.7	6.7	10.5	6.5	29.3	74	5	21
PhytoGen PX2A31W3FE	597	28.2	41.9	38.0	28.4	6.7	9.4	5.9	32.2	79	7	21
FiberMax FM 2334GLT	578	28.9	40.8	41.1	33.5	6.1	8.5	6.2	32.8	81	4	25
13-9-1001S	577	27.9	42.0	39.0	30.3	6.5	8.4	5.8	33.8	43	4	24
International Seed Technology BRS-286	509	25.6	43.7	43.3	34.4	6.4	9.2	6.7	32.6	49	3	25
PhytoGen PHY 764 WRF	404	25.7	42.4	38.3	29.3	5.8	9.8	6.6	25.8	18	3	23
Mean	722	29.2	43.3	40.1	31.8	6.5	9.2	6.5	31.6	55	5	25
c.v.%	11.5	4.6	5.2	2.7	3.0	4.4	2.9	4.4	4.3	16.2	17.8	6.5
LSD 0.05	97	1.6	2.6	1.8	1.6	0.5	0.5	0.5	2.3	10	1	2

Table 6A. Fiber quality results from the dryland uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1646 B2XF	5.1	1.15	80.1	28.1	7.5	2	73.1	9.0	31-4,42-1
Deltapine DP 1549 B2XF	4.7	1.06	79.7	28.6	6.3	2	68.4	9.1	42-1,52-2
PhytoGen PHY 450 W3FE	5.2	1.07	81.9	31.3	8.2	2	69.4	9.8	42-1,42-2
PhytoGen PHY 499 WRF	5.0	1.06	81.3	30.1	8.8	3	71.6	9.6	42-1
Deltapine DP 1747NR B2XF	5.3	1.06	80.0	29.0	7.0	2	71.2	10.0	32-2,42-1
Seed Source Genetics UA 222	5.3	1.13	81.7	29.6	7.8	3	70.3	9.2	41-3,42-2
PhytoGen PHY 444 WRF	4.5	1.15	81.0	29.3	7.2	3	72.2	9.9	32-2
NexGen NG 3406 B2XF	5.0	1.02	80.4	26.7	8.3	3	72.3	9.7	32-2,42-1
PhytoGen PHY 312 WRF	5.3	1.07	81.5	28.0	6.8	3	72.0	9.5	32-2,42-1
Seed Source Genetics HQ 210 CT	5.4	1.00	80.0	28.7	6.9	2	73.3	9.0	31-4,41-3
Monsanto 16R245NR B2XF	5.0	1.15	80.0	29.4	6.6	2	71.1	9.7	42-1
Deltapine DP 1612 B2XF	5.2	1.06	80.7	28.4	8.1	5	70.1	9.1	42-1,42-2
Stoneville ST 4946GLB2	5.3	1.07	80.9	30.0	8.0	2	70.0	10.1	32-2,43-1
Monsanto 16R246NR B2XF	5.6	1.11	82.4	30.7	8.2	2	72.2	10.3	32-1,32-2
PhytoGen PHY 330 W3FE	5.3	1.06	80.7	26.9	6.5	4	70.3	9.7	42-1
International Seed Technology BRS-335	4.6	1.09	80.5	29.2	6.2	3	69.8	8.8	42-2
Monsanto 16R346 B2XF	5.0	1.15	80.8	30.3	8.1	3	73.2	8.8	41-3,42-1
Deltapine DP 1522 B2XF	5.5	1.04	79.2	27.3	8.9	3	70.2	9.4	42-1,42-2
PhytoGen PHY 300 W3FE	5.1	1.08	80.5	28.1	6.5	4	68.3	9.8	42-1,52-1
NexGen NG 3500 XF	5.5	1.02	80.8	28.0	6.6	3	70.7	10.0	42-1
Deltapine DP 1845 B3XF	4.8	1.16	81.0	31.1	7.8	4	73.5	8.9	41-3
NexGen NG 4545 B2XF	5.5	1.04	80.6	26.7	5.5	4	69.5	9.4	42-1,52-1
PhytoGen PHY 490 W3FE	5.0	1.08	81.4	30.8	6.9	3	72.2	9.3	32-2,42-2
International Seed Technology BRS-293	5.2	1.06	80.5	30.2	7.5	2	71.7	9.8	32-2,42-1
PhytoGen PHY 340 W3FE	5.1	1.06	80.7	27.5	6.2	2	69.2	10.0	42-1,43-1
NexGen NG 3640 XF	5.4	1.06	80.3	29.3	7.6	3	69.7	10.6	33-2
PhytoGen PX2AX3W3FE	4.9	1.03	79.2	26.5	5.2	3	72.7	9.1	41-3,42-1
PhytoGen PHY 243 WRF	4.5	1.09	79.0	26.9	7.1	4	73.2	9.2	42-1
PhytoGen PX2A28W3FE	5.1	1.09	80.2	26.7	5.5	3	69.4	9.2	42-2
Seed Source Genetics UA 222 Saberex	5.1	1.13	81.6	29.4	7.9	3	70.6	9.2	42-1,42-2

Table 6A. Fiber quality results from the dryland uniform cotton performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NG 4689 B2XF	5.5	1.01	80.1	27.3	5.6	3	70.1	9.6	42-1,42-2
PhytoGen PX2AX4W3FE	4.9	1.10	79.1	28.7	5.5	3	71.6	9.3	42-1
FiberMax FM 2322GL	5.1	1.09	80.2	29.3	5.3	3	72.8	9.4	32-2,42-1
PhytoGen PHY 250 W3FE	5.0	1.03	79.1	26.9	5.0	2	72.3	9.3	42-1
FiberMax FM 1888GL	5.1	1.07	79.2	27.2	5.3	3	71.1	9.3	42-1,42-2
PhytoGen PX2A23W3FE	4.7	1.07	80.0	28.1	6.3	4	72.2	8.8	41-4,42-1
FiberMax FM 1830GLT	5.3	1.10	81.2	29.2	5.8	2	74.0	8.4	41-1,41-3
FiberMax FM 1911GLT	5.1	1.07	80.7	27.8	5.8	2	73.3	9.3	32-2,42-1
NexGen NG 3699 B2XF	5.3	1.09	79.6	27.0	6.0	3	69.5	9.7	42-1,42-2
PhytoGen PX2A36W3FE	4.9	1.06	80.6	28.5	4.8	3	72.9	9.0	41-3,42-1
PhytoGen PX2A27W3FE	4.9	1.10	80.1	29.3	5.6	3	70.2	9.3	42-1,42-2
PhytoGen PX2AX2W3FE	4.9	1.04	79.8	28.6	6.2	2	69.0	8.9	42-1,52-1
FiberMax FM 958	5.0	1.07	80.5	28.3	5.0	3	72.1	9.0	41-3,42-1
PhytoGen PX2A31W3FE	5.1	1.04	80.2	28.0	5.6	2	70.0	9.6	42-1
FiberMax FM 2334GLT	5.3	1.10	81.1	28.0	6.1	2	70.1	8.3	41-3,51-4
13-9-1001S	4.6	1.11	80.1	29.2	6.8	3	72.9	9.5	32-2
International Seed Technology BRS-286	5.0	1.05	80.9	28.5	6.5	3	71.3	9.2	42-1,42-2
PhytoGen PHY 764 WRF	4.5	1.09	80.3	30.1	7.1	4	72.3	9.6	32-2,42-1
Mean	5.1	1.07	80.4	28.6	6.6	3	71.2	9.4	
c.v.%	2.6	2.0	1.0	3.0	7.4	38.8	2.5	2.4	
LSD 0.05	0.2	0.04	1.3	1.4	0.8	2	3.0	0.4	

Table 7. Yield summary over five locations of the uniform cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Overall Yield	Lubbock Irr Rank	Lubbock Dry Rank	Halfway Irr Rank	Lamesa Irr Rank	Lamesa Dry Rank
PhytoGen PHY 330 W3FE	955	5	12	20	8	15
PhytoGen PHY 243 WRF	953	3	4	10	13	28
PhytoGen PHY 499 WRF	951	28	1	17	10	4
Monsanto 16R346 B2XF	949	27	5	11	3	17
Stoneville ST 4946GLB2	947	15	24	6	5	13
International Seed Technology BRS-335	946	6	15	30	4	16
FiberMax FM 1911GLT	944	11	31	2	2	38
NexGen NG 4689 B2XF	941	4	7	48	1	31
PhytoGen PHY 340 W3FE	924	10	18	27	9	25
Seed Source Genetics UA 222 Saberex	915	13	30	9	11	30
Deltapine DP 1549 B2XF	913	19	21	4	37	2
PhytoGen PHY 450 W3FE	906	20	27	33	16	3
PhytoGen PHY 300 W3FE	902	23	9	13	22	19
PhytoGen PHY 312 WRF	895	1	10	37	39	9
Deltapine DP 1522 B2XF	894	21	25	24	14	18
NexGen NG 4545 B2XF	893	2	2	18	44	22
Deltapine DP 1747NR B2XF	889	12	17	14	42	5
NexGen NG 3406 B2XF	883	42	11	3	28	8
Seed Source Genetics HQ 210 CT	877	44	23	1	26	10
International Seed Technology BRS-293	877	7	38	26	23	24
Deltapine DP 1646 B2XF	872	17	29	47	27	1
PhytoGen PHY 444 WRF	871	31	14	32	29	7
Deltapine DP 1612 B2XF	870	14	3	41	38	12
Seed Source Genetics UA 222	868	29	19	5	41	6
NexGen NG 3500 XF	866	8	20	7	45	20
NexGen NG 3640 XF	858	22	26	44	15	26
Deltapine DP 1845 B3XF	858	16	13	42	34	21
Monsanto 16R246NR B2XF	846	25	8	45	35	14
FiberMax FM 958	845	9	46	46	7	43
PhytoGen PX2A28W3FE	831	36	36	29	19	29
FiberMax FM 1830GLT	827	18	45	16	31	37
PhytoGen PHY 250 W3FE	827	38	34	25	18	34
FiberMax FM 2334GLT	823	48	22	21	6	45
PhytoGen PX2AX3W3FE	818	26	37	40	33	27
PhytoGen PHY 490 W3FE	817	30	35	39	32	23
PhytoGen PX2A27W3FE	816	43	47	15	12	41
FiberMax FM 2322GL	812	37	6	8	46	33
FiberMax FM 1888GL	811	32	42	43	17	35
PhytoGen PX2AX2W3FE	809	33	32	35	25	42
Monsanto 16R245NR B2XF	806	47	39	31	30	11
PhytoGen PX2A31W3FE	804	41	33	23	20	44
PhytoGen PX2AX4W3FE	801	40	44	19	24	32
International Seed Technology BRS-286	787	39	16	22	36	47
PhytoGen PX2A23W3FE	787	46	41	38	21	36
PhytoGen PX2A36W3FE	786	24	40	28	40	40
NexGen NG 3699 B2XF	771	35	28	34	43	39
13-9-1001S	738	34	43	12	47	46
PhytoGen PHY 764 WRF	615	45	48	36	48	48

Notes

Table 8. Yield summaries of the irrigated and dryland uniform cotton performance tests at Texas A&M AgriLife Research Lubbock, Halfway, and the AG-CARES farm in Lamesa, 2012-2017.

Lubbock Irrigated

Designation	2013	2014	2015	2016	2017	Avg.	Comp. Average[1/]
	Five Year Average						
Stoneville ST 4946GLB2	607	531	954	934	1025	810	
PhytoGen PHY 499 WRF	565	526	916	929	927	773	
Seed Source Genetics SSG HQ 210 CT	590	535	757	813	761	691	
	Four Year Average						
FiberMax FM 2322GL		443	907	955	845	788	754
FiberMax FM 2334GLT		410	1094	888	702	774	740
FiberMax FM 1830GLT		358	841	878	1001	770	736
	Three Year Average						
NexGen NG 3500 XF			1287	879	1072	1079	1000
NexGen NG 4545 B2XF			1051	949	1201	1067	988
PhytoGen PHY 312 WRF			1085	883	1209	1059	980
PhytoGen PHY 444 WRF			1012	948	892	951	872
Seed Source Genetics SSG UA 222			946	869	896	904	825
NexGen NG 3406 B2XF			989	832	772	864	785

Lamesa Irrigated

Designation	2013	2014	2015	2016	2017	Avg.	Comp. Average[1/]
	Five Year Average						
Stoneville ST 4946GLB2	1127	982	1093	1411	1616	1246	
PhytoGen PHY 499 WRF	882	873	677	1381	1574	1077	
Seed Source Genetics SSG HQ 210 CT	477	692	501	1292	1417	876	
	Four Year Average						
FiberMax FM 2334GLT		612	740	1343	1605	1075	1028
FiberMax FM 2322GL		651	814	1638	1161	1066	1019
FiberMax FM 1830GLT		654	590	1371	1359	994	947
	Three Year Average						
NexGen NG 3406 B2XF			748	1805	1410	1321	1231
NexGen NG 3500 XF			965	1673	1163	1267	1177
PhytoGen PHY 444 WRF			670	1714	1391	1258	1168
PhytoGen PHY 312 WRF			971	1530	1252	1251	1161
NexGen NG 4545 B2XF			975	1254	1174	1134	1044
Seed Source Genetics SSG UA 222			679	1277	1225	1060	970

Halfway Irrigated

Designation	2012	2013	2014	2016	2017	Avg.	Comp. Average[1/]
	Five Year Average						
Stoneville ST 4946GLB2	1367	1543	660	1959	768	1259	
PhytoGen PHY 499 WRF	1233	1629	836	1357	701	1151	
Seed Source Genetics SSG HQ 210 CT	1086	1337	752	1593	853	1124	
	Three Year Average						
FiberMax FM 2322GL			549	2126	762	1146	1221
FiberMax FM 1830GLT			764	1874	714	1117	1192
FiberMax FM 2334GLT			550	2045	682	1092	1167

[1/]Patterson, R.E. 1950. A method of adjustment for calculating comparable yields in variety tests.

Table 8. Yield summaries of the irrigated and dryland uniform cotton performance tests at Texas A&M AgriLife Research Lubbock, Halfway, and the AG-CARES farm in Lamesa, 2012-2017.

Lubbock Dryland							
	2013	**2014**	**2015**	**2016**	**2017**	**Avg.**	Comp. Average[1/]
Designation	Five Year Average						
Stoneville ST 4946GLB2	365	499	724	448	544	516	
PhytoGen PHY 499 WRF	268	362	790	209	667	459	
Seed Source Genetics SSG HQ 210 CT	227	400	570	321	545	413	
	Four Year Average						
FiberMax FM 2322GL		418	634	237	619	477	442
FiberMax FM 1830GLT		452	677	236	421	447	412
FiberMax FM 2334GLT		356	645	184	546	433	398
	Three Year Average						
PhytoGen PHY 444 WRF			783	275	591	550	506
PhytoGen PHY 312 WRF			772	252	594	539	495
NexGen NG 3500 XF			796	233	571	533	498
NexGen NG 4545 B2XF			723	221	652	532	488
NexGen NG 3406 B2XF			716	244	593	518	474
Seed Source Genetics SSG UA 222			614	211	579	468	424

Lamesa Dryland							
	2013	**2014**	**2015**	**2016**	**2017**	**Avg.**	Comp. Average[1/]
Designation	Five Year Average						
Stoneville ST 4946GLB2	376	468	853	765	784	649	
PhytoGen PHY 499 WRF	315	442	657	766	887	613	
Seed Source Genetics SSG HQ 210 CT	291	484	417	397	809	480	
	Four Year Average						
FiberMax FM 2334GLT		413	685	609	578	571	520
FiberMax FM 2322GL		378	698	526	674	569	518
FiberMax FM 1830GLT		378	602	560	640	545	494
	Three Year Average						
NexGen NG 3406 B2XF			723	651	825	733	659
PhytoGen PHY 312 WRF			655	643	810	703	629
PhytoGen PHY 444 WRF			640	604	846	697	623
NexGen NG 4545 B2XF			633	623	749	668	594
NexGen NG 3500 XF			634	610	757	667	593
Seed Source Genetics SSG UA 222			491	522	864	626	552

[1/]Patterson, R.E. 1950. A method of adjustment for calculating comparable yields in variety tests.

Table 9. Yield and agronomic property results from the irrigated late planted cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	3-Nov	Resistance	Height
NexGen NG 3517 B2XF	550	22.0	39.8	36.5	29.9	5.3	10.8	6.6	29.5	56	5	30
PhytoGen PHY 250 W3FE	499	24.1	38.1	39.0	30.2	5.2	9.9	6.8	30.1	73	5	25
NexGen NG 4689 B2XF	493	21.4	39.4	39.4	32.1	5.4	10.5	7.2	29.4	56	5	28
PhytoGen PHY 243 WRF	480	22.1	40.2	35.9	27.9	5.1	10.9	6.5	28.0	61	5	26
FiberMax FM 958	470	24.0	41.0	37.2	29.9	5.3	9.8	6.3	31.4	71	5	24
PhytoGen PHY 330 W3FE	445	23.9	37.3	41.0	31.6	4.7	8.2	6.3	30.4	69	5	24
NexGen NG 3640 XF	441	22.5	39.4	38.2	30.3	4.7	9.8	6.7	26.9	59	5	26
PhytoGen PX2AX2W3FE	432	23.0	37.9	37.7	29.6	5.1	9.9	6.4	30.5	51	6	23
NexGen NG 3500 XF	426	20.7	39.6	36.3	28.1	5.1	9.9	6.0	30.7	64	5	29
PhytoGen PX2A36W3FE	413	22.4	37.9	37.1	28.5	5.7	10.3	6.7	31.6	76	5	25
PhytoGen PHY 312 WRF	413	20.6	37.9	34.9	26.9	4.7	10.0	5.8	27.9	63	5	30
NexGen NG 3699 B2XF	412	21.2	38.2	37.3	29.8	4.8	10.1	6.4	28.1	56	5	25
PhytoGen PX2A31W3FE	409	22.6	36.5	39.4	31.2	4.8	9.6	6.9	27.3	73	6	20
PhytoGen PHY 300 W3FE	407	21.5	36.8	39.9	29.9	4.2	7.6	5.5	30.4	64	5	25
PhytoGen PX2A28W3FE	379	22.3	39.0	37.0	28.2	4.7	10.8	6.9	25.6	71	5	25
PhytoGen PX2AX4W3FE	370	22.8	37.2	38.0	29.9	5.0	9.9	6.6	28.9	70	6	21
NexGen NG 3406 B2XF	359	21.4	39.5	35.0	26.9	4.0	9.6	5.6	25.5	60	6	25
PhytoGen PX2A31W3FE	349	22.8	38.2	40.3	31.3	4.9	9.8	7.1	27.7	75	6	21
PhytoGen PX2A27W3FE	343	23.7	38.7	36.7	28.2	5.3	10.0	6.2	31.8	73	5	20
PhytoGen PX2AX3W3FE	342	20.7	38.9	38.3	29.4	5.5	10.9	7.1	30.0	64	5	24
FiberMax FM 1888GL	340	24.0	39.7	39.0	30.3	5.1	9.4	6.6	30.5	55	5	26
FiberMax FM 1911GLT	339	20.7	39.6	38.2	28.8	5.6	9.9	7.0	31.0	68	5	22
PhytoGen PHY 450 W3FE	298	20.4	38.0	36.0	28.0	4.4	9.7	5.9	26.9	53	5	31
FiberMax FM 1320GL	290	22.3	40.4	34.6	26.9	4.7	9.7	5.6	29.2	76	6	26
CPS 72142 B2XF	283	20.4	37.6	37.8	29.0	4.5	8.8	5.9	28.8	61	5	26
PhytoGen PHY 340 W3FE	270	22.2	37.6	38.6	29.3	4.4	8.1	5.8	29.5	66	5	22
PhytoGen PHY 490 W3FE	246	20.5	38.9	37.9	29.2	4.3	8.3	5.5	29.7	58	5	28
CPS 70123 B2XF	172	17.1	38.5	33.9	25.7	4.4	7.4	4.4	33.4	53	5	28
Mean	381	21.9	38.6	37.5	29.1	4.9	9.6	6.3	29.3	64	5	24
c.v.%	29.5	6.3	3.4	2.1	2.6	5.7	6.9	8.1	6.4	20.4	11.7	12.6
LSD 0.05	132	1.6	1.6	1.3	1.3	0.5	1.1	0.9	3.2	15	1	4

Table 9A. Fiber quality results from the irrigated late planted cotton performance test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NG 3517 B2XF	2.4	1.07	79.2	28.7	7.8	1	69.8	13.5	24-2
PhytoGen PHY 250 W3FE	3.0	1.06	78.6	29.0	6.5	1	74.3	11.0	22-1,23-1
NexGen NG 4689 B2XF	2.7	1.05	79.8	28.0	5.7	1	69.3	13.2	23-4,24-1
PhytoGen PHY 243 WRF	2.7	1.08	77.3	27.7	8.3	1	72.5	12.4	13-4,23-3
FiberMax FM 958	3.2	1.09	78.8	29.1	5.6	1	76.7	10.4	13-2,21-4
PhytoGen PHY 330 W3FE	2.9	1.07	79.8	29.6	6.7	2	71.3	12.5	23-3,23-4
NexGen NG 3640 XF	2.9	1.05	80.1	29.7	7.2	1	72.7	12.5	13-2,23-3
PhytoGen PX2AX2W3FE	3.0	1.05	79.4	28.5	7.7	1	74.8	11.4	12-2,23-1
NexGen NG 3500 XF	2.9	1.07	80.6	30.1	7.4	1	73.2	11.6	22-1,23-4
PhytoGen PX2A36W3FE	3.0	1.07	79.4	29.5	5.7	1	75.0	11.1	22-1
PhytoGen PHY 312 WRF	2.4	1.06	77.8	27.5	7.9	2	72.0	11.6	23-1,33-1
NexGen NG 3699 B2XF	2.5	1.11	78.5	28.7	6.2	1	68.3	13.4	24-2
PhytoGen PX2A31W3FE	2.6	1.07	78.8	28.9	7.5	2	73.7	11.8	23-1
PhytoGen PHY 300 W3FE	2.5	1.02	77.3	28.6	8.1	3	72.7	12.1	23-3
PhytoGen PX2A28W3FE	2.8	1.07	77.9	27.3	6.4	1	74.0	11.9	12-2,23-3
PhytoGen PX2AX4W3FE	3.0	1.07	78.5	29.0	6.2	2	73.4	11.5	23-2,23-1
NexGen NG 3406 B2XF	2.6	1.06	78.2	27.8	8.4	1	73.4	12.0	13-4,22-1
PhytoGen PX2A31W3FE	2.8	1.05	79.2	29.9	7.1	1	72.7	12.4	13-2,23-3
PhytoGen PX2A27W3FE	2.9	1.07	77.9	28.9	7.6	1	72.1	11.9	23-2,23-3
PhytoGen PX2AX3W3FE	2.6	1.06	78.8	28.9	6.3	2	75.2	11.5	12-2,13-2
FiberMax FM 1888GL	3.1	1.08	78.4	30.4	5.9	1	76.9	10.0	21-3,22-1
FiberMax FM 1911GLT	2.5	1.05	78.5	27.1	7.3	2	74.0	11.2	13-2,23-2
PhytoGen PHY 450 W3FE	2.7	1.04	79.5	30.8	8.9	1	71.1	12.6	23-3,23-4
FiberMax FM 1320GL	2.7	1.04	78.6	29.3	7.8	2	73.0	12.0	12-2,24-2
CPS 72142 B2XF	2.6	1.09	79.1	28.6	7.5	1	71.8	12.5	23-3
PhytoGen PHY 340 W3FE	2.5	1.05	78.3	26.5	6.8	2	70.3	12.9	23-4,24-2
PhytoGen PHY 490 W3FE	2.6	1.05	78.7	28.1	8.7	1	69.8	12.8	23-2,24-2
CPS 70123 B2XF	2.4	1.01	77.8	26.2	8.0	3	75.2	11.2	12-1,23-3
Mean	2.7	1.06	78.7	28.6	7.2	1.0	72.8	11.9	
c.v.%	10.1	2.7	1.2	5.7	8.3	32.8	2.7	6.6	
LSD 0.05	0.5	0.05	1.5	2.8	1.0	1.0	3.3	1.3	

Table 10. Yield and agronomic property results from the irrigated new variety and strains test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11-Oct	Resistance	Height
NexGen NG 4792 XF	1153	28.5	45.8	38.1	27.7	4.8	9.7	6.4	28.7	53	6	30
Americot AMX 5140 XF	1142	28.5	45.3	36.3	26.9	5.0	9.5	6.0	30.1	63	5	29
NexGen NG 3640 XF	997	27.5	45.9	35.5	25.9	4.1	9.1	5.5	26.8	74	6	28
PhytoGen PHY 480 W3FE	961	27.5	42.8	37.9	26.7	4.8	9.6	6.5	27.8	69	6	27
NexGen NG 4777 B2XF	958	29.1	46.6	37.2	27.4	4.9	9.5	6.3	29.1	75	5	25
PhytoGen PX3A82W3FE	935	27.9	43.7	39.4	26.8	4.0	8.0	5.6	28.5	88	4	21
NexGen NG 3780 B2XF	920	27.0	51.2	36.6	25.7	4.2	9.7	6.1	25.0	69	4	29
NexGen NG 4689 B2XF	906	28.3	43.7	38.6	29.1	4.9	10.3	7.1	26.7	80	5	26
CPS 70131 B2XF	901	29.7	39.8	40.7	27.6	3.9	7.8	6.2	25.5	68	4	25
PhytoGen PX3A99W3FE	857	27.1	42.7	37.6	23.8	4.2	9.2	6.2	24.9	74	5	26
14-gh-2C	840	30.1	42.8	38.1	28.5	4.6	9.0	6.4	26.9	79	6	22
CPS 70132 B2XF	839	27.2	40.2	39.4	26.6	3.8	8.4	6.4	23.6	65	4	26
CPS 72142 B2XF	824	28.5	44.9	34.5	27.4	4.8	9.3	5.8	29.1	88	4	25
FiberMax FM 958	823	27.8	45.1	37.3	27.5	4.6	11.6	7.5	23.5	84	5	24
PhytoGen PX2A23W3FE	821	25.8	44.4	35.5	25.6	4.5	9.8	6.1	25.8	75	6	21
Americot UA 48	818	25.6	48.8	36.8	27.3	5.1	11.0	6.7	28.1	81	4	25
CPS 72125 XF	804	27.7	44.7	38.4	28.3	4.8	9.5	6.3	29.2	71	5	24
CPS 70122 B2XF	797	28.7	43.0	37.9	29.6	5.3	10.3	6.7	30.2	55	5	25
PhytoGen PX4A57W3FE	793	27.4	41.2	38.9	27.4	4.2	8.4	6.1	26.8	74	5	25
NexGen NG 4601 B2XF	787	28.5	40.7	40.0	26.7	4.5	8.3	6.1	29.1	75	4	25
14-gh-1C	783	28.9	47.5	37.1	26.2	5.4	11.0	7.2	27.5	74	5	25
13-9-1107S	769	26.2	46.1	35.3	25.3	4.9	10.5	6.4	26.8	80	5	26
PhytoGen PHY 440 W3FE	766	27.7	42.5	36.7	25.1	4.3	8.5	5.8	27.1	81	6	22
13-9-218S	759	26.2	49.2	32.6	24.5	4.7	11.7	6.3	24.7	69	5	26
PhytoGen PX2AX2W3FE	752	28.1	43.8	37.5	26.3	4.2	9.4	6.2	25.2	74	6	20
PhytoGen PX2AX3W3FE	747	27.3	43.7	35.9	25.8	4.5	8.9	5.6	28.3	88	6	19
CPS 70115 B2XF	744	29.3	44.0	38.5	31.5	5.6	9.9	6.8	31.5	76	6	26
CPS 70121 B2XF	743	29.6	38.6	40.0	30.8	4.8	10.1	7.6	25.7	30	4	29
NexGen NG 3699 B2XF	739	27.5	47.0	35.0	25.2	3.9	9.2	5.6	24.7	76	5	25
13-9-1001S	736	27.8	43.0	37.3	28.9	4.6	8.4	5.6	30.3	85	4	22

Table 10. Yield and agronomic property results from the irrigated new variety and strains test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11-Oct	Resistance	Height
PhytoGen PX4A54W3FE	729	28.3	43.7	37.7	27.2	4.1	8.7	6.1	25.1	83	6	19
CPS 70114 B2XF	723	28.9	46.0	38.6	28.3	5.4	10.6	7.2	28.8	76	5	24
CPS 73111	721	27.8	43.6	37.2	27.4	4.3	9.1	5.7	28.1	75	5	25
PhytoGen PX3A96W3FE	720	27.9	45.6	38.6	27.5	4.0	8.4	5.8	26.3	76	5	25
PhytoGen PX2A28W3FE	710	25.7	43.1	35.3	23.8	4.5	9.1	5.7	27.8	80	6	23
PhytoGen PX2A31W3FE	707	29.0	43.2	38.5	26.9	4.7	9.4	6.6	27.9	90	5	20
Deltapine DP 491	706	27.6	44.9	37.2	28.9	5.1	10.9	7.1	26.9	78	5	23
13-29-201N	703	27.0	47.7	35.6	25.6	4.4	9.1	5.6	27.8	78	5	22
PhytoGen PX2A36W3FE	697	26.8	45.3	36.6	25.1	4.5	9.7	6.2	26.8	86	6	19
PhytoGen PX2AX4W3FE	688	27.1	44.8	35.8	24.4	4.5	9.8	6.1	26.7	81	5	21
PhytoGen PHY 250 W3FE	683	26.8	43.3	39.4	26.2	4.2	9.2	6.6	24.9	83	5	20
PhytoGen PX2A27W3FE	677	25.8	45.5	34.6	24.2	4.7	10.2	6.0	27.2	84	6	21
CPS 70124 B2XF	636	29.8	41.0	43.1	26.6	4.3	9.0	7.3	25.4	55	5	23
10-11-128N	593	23.7	46.0	34.6	26.7	5.4	10.4	6.1	30.3	75	4	22
Mean	798	27.7	44.4	37.3	26.8	4.6	9.5	6.3	27.2	75	5	24
c.v%	13.9	3.4	4.9	3.2	4.0	7.3	6.0	7.9	7.8	14.6	16.8	10
LSD 0.05	130	1.4	2.5	2.0	1.8	0.6	1.0	0.8	3.6	13	1	3

Table 10A. Fiber quality results from the irrigated new variety and strains test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NG 4792 XF	3.8	1.13	80.2	30.8	8.2	1	72.8	11.0	23-4,32-1
Americot AMX 5140 XF	3.8	1.12	80.3	29.4	7.8	2	74.4	9.4	31-2,32-1
NexGen NG 3640 XF	3.7	1.10	80.8	30.4	8.2	1	72.6	10.1	32-2,33-2
PhytoGen PHY 480 W3FE	3.4	1.14	80.8	29.9	8.1	2	74.7	10.2	22-2,32-1
NexGen NG 4777 B2XF	4.3	1.14	80.1	30.0	5.8	1	74.4	9.8	22-2,32-2
PhytoGen PX3A82W3FE	3.3	1.12	81.1	30.5	8.7	3	76.4	8.9	31-1,31-4
NexGen NG 3780 B2XF	3.7	1.14	78.8	31.2	7.7	2	72.5	10.6	23-2,32-2
NexGen NG 4689 B2XF	4.1	1.09	79.9	29.2	5.9	1	74.0	9.8	32-1,32-2
CPS 70131 B2XF	4.0	1.13	79.4	29.4	8.9	2	75.4	9.3	31-3,32-2
PhytoGen PX3A99W3FE	3.0	1.10	77.7	28.2	7.8	1	76.4	9.7	22-1,31-3
14-gh-2C	4.3	1.10	80.2	28.2	6.2	2	75.5	8.8	31-2,31-4
CPS 70132 B2XF	3.4	1.16	80.1	29.7	8.5	2	76.7	8.8	31-1,31-3
CPS 72142 B2XF	3.7	1.13	79.4	26.8	8.3	2	74.2	9.4	31-3,32-2
FiberMax FM 958	3.9	1.18	80.9	30.6	5.1	2	73.1	8.9	41-3
PhytoGen PX2A23W3FE	3.5	1.16	80.6	30.1	6.6	3	77.1	8.2	31-1,31-2
Americot UA 48	3.6	1.26	82.1	33.5	6.0	3	74.9	8.7	31-4,41-3
CPS 72125 XF	3.9	1.12	81.1	31.1	7.0	2	74.9	9.1	31-3,31-4
CPS 70122 B2XF	4.0	1.15	80.2	30.0	8.1	2	74.8	9.2	31-3,31-4
PhytoGen PX4A57W3FE	2.8	1.05	78.0	27.5	7.7	1	76.4	10.4	22-1
NexGen NG 4601 B2XF	3.8	1.15	79.8	30.7	7.2	1	76.2	8.8	31-1,31-4
14-gh-1C	3.6	1.11	79.9	29.6	6.4	2	73.7	9.4	31-3,42-1
13-9-1107S	3.5	1.09	79.3	30.0	7.0	2	73.1	10.0	31-1,32-2
PhytoGen PHY 440 W3FE	3.2	1.17	78.8	29.0	6.9	2	75.4	9.2	31-3,31-4
13-9-218S	3.5	1.16	79.6	31.8	6.4	2	76.4	8.9	31-1,31-4
PhytoGen PX2AX2W3FE	3.6	1.14	80.6	29.9	6.4	2	74.7	8.8	32-2,411
PhytoGen PX2AX3W3FE	3.4	1.13	79.9	29.6	7.5	2	75.9	8.5	31-3,41-1
CPS 70115 B2XF	3.7	1.16	80.8	31.4	6.8	1	76.3	8.9	31-2,31-3
CPS 70121 B2XF	3.4	1.13	82.0	31.9	8.8	2	73.5	11.2	13-4,32-1
NexGen NG 3699 B2XF	3.3	1.14	78.6	28.5	6.5	1	73.8	9.9	22-2,32-2
13-9-1001S	3.2	1.17	79.2	29.4	7.4	2	75.2	8.8	31-2,32-2

Table 10A. Fiber quality results from the irrigated new variety and strains test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PX4A54W3FE	3.3	1.10	79.4	27.6	7.1	1	74.7	9.7	32-1,32-2
CPS 70114 B2XF	3.7	1.18	79.7	30.8	6.6	1	76.2	9.3	31-3
CPS 73111	3.7	1.14	81.7	34.6	7.5	2	74.5	9.3	31-4,32-1
PhytoGen PX3A96W3FE	3.1	1.16	79.4	28.2	7.7	2	75.7	8.7	31-2,314
PhytoGen PX2A28W3FE	3.2	1.14	78.5	27.8	6.1	2	76.2	8.6	21-2,41-1
PhytoGen PX2A31W3FE	4.0	1.13	80.7	30.0	5.9	1	75.7	9.2	31-1,32-2
Deltapine DP 491	3.1	1.15	78.9	30.2	5.8	1	74.3	9.7	32-1,32-2
13-29-201N	3.3	1.11	79.4	29.7	7.1	2	76.0	8.9	31-3,31-4
PhytoGen PX2A36W3FE	3.2	1.11	78.5	30.8	5.5	1	77.2	8.4	31-1,31-2
PhytoGen PX2AX4W3FE	3.3	1.13	79.0	29.1	6.2	1	75.6	8.9	31-1,41-3
PhytoGen PHY 250 W3FE	3.2	1.15	78.6	27.5	5.9	2	76.6	8.4	31-1,31-2
PhytoGen PX2A27W3FE	3.5	1.17	79.8	31.0	6.3	3	76.9	8.6	211,41-3
CPS 70124 B2XF	3.8	1.12	78.8	30.0	7.8	1	73.2	10.5	23-2,32-2
10-11-128N	2.4	1.11	77.8	31.5	7.2	2	72.6	10.8	23-2,32-2
Mean	3.5	1.13	79.8	29.9	7.0	2	75.0	9.3	
c.v.%	8.0	2.1	1.3	3.7	8.0	44.7	2.1	6.7	
LSD 0.05	0.5	0.04	1.7	1.9	0.9	1	2.6	1.1	

Table 11. Yield and agronomic property results from the regional high quality strains test at Texas A&M AgriLife Research, Lubbock, 2017.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height
Deltapine DP 1646B2XF	1291	29.5	42.1	39.3	32.5	4.6	8.3	5.8	31.4	80	4	32
FiberMax FM 2322GL	1235	29.3	40.3	39.2	32.1	5.9	10.0	7.1	32.6	76	5	32
FiberMax FM 2334GLT	1205	28.2	40.8	38.9	32.4	5.3	9.2	6.3	32.8	85	5	31
Monsanto MON 16R346B3XF	1190	27.2	42.7	35.6	29.2	5.2	8.9	5.4	33.7	64	6	34
Monsanto MON 16R341B3XF	1177	27.6	42.9	38.6	33.3	4.9	9.3	6.2	30.8	73	5	32
PhytoGen PHY 450W3FE	1169	25.5	43.6	36.0	29.1	4.6	8.8	5.3	31.5	85	6	28
ARK 0912-41	1167	26.2	44.8	35.7	29.6	6.0	11.1	6.6	32.1	80	4	31
FiberMax FM 1830GLT	1163	27.9	42.9	38.8	32.3	5.5	9.3	6.3	33.7	89	5	29
PhytoGen PHY 444WRF	1159	27.4	43.8	37.0	30.9	5.4	10.3	6.5	30.8	69	7	31
ARK 0908-52	1148	27.4	41.3	39.5	33.1	5.6	9.5	6.6	33.2	75	5	33
LA 13307012	1144	25.6	44.1	36.2	29.5	5.9	10.6	6.5	33.2	86	3	31
PhytoGen PHY 330W3FE	1114	26.5	41.9	37.6	30.7	4.8	9.2	6.0	30.3	93	5	28
TAM 12J-39	1062	25.0	45.0	33.9	27.8	5.6	11.2	6.1	31.1	83	4	33
NM 13G1029	1010	25.9	43.6	37.3	31.2	5.1	9.2	5.8	33.1	76	4	35
LA 13307105	972	23.7	43.7	34.3	28.0	5.6	10.2	5.8	33.3	83	4	32
TAM 12I-72	958	24.4	44.4	33.8	27.4	5.1	10.6	5.8	29.9	85	3	27
NM 13G2019	876	23.1	45.1	33.4	28.1	5.0	9.1	4.9	34.4	79	3	34
ARK 0921-58ne	807	22.7	47.8	31.2	25.6	5.1	10.1	5.0	31.8	88	4	30
PhytoGen PHY 764WRF	755	23.9	43.7	34.6	27.9	4.5	10.2	5.9	26.3	70	3	31
TAM BB-2139	663	20.9	43.3	32.6	26.8	5.5	10.7	5.5	32.5	69	6	31
Mean	1063	25.9	43.4	36.2	29.8	5.2	9.8	5.9	31.9	79	4	31
c.v.%	11.1	4.2	4.4	2.2	2.7	4.7	3.0	4.1	4.9	7.6	20.6	6.8
LSD 0.05	140	1.3	2.3	1.4	1.4	0.4	0.5	0.4	2.7	7	1	3

Table 11A. Fiber quality results from the irrigated regional high quality strains test at Texas A&M AgriLife Research, Lubbock, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1646B2XF	3.5	1.20	80.1	28.9	7.4	2	76.3	8.8	31-1,31-3
FiberMax FM 2322GL	3.6	1.20	80.2	29.0	5.7	3	72.3	9.6	32-2,42-1
FiberMax FM 2334GLT	3.4	1.20	79.6	28.5	6.4	2	76.4	8.2	31-1,41-1
Monsanto MON 16R346B3XF	3.4	1.23	80.0	28.6	8.9	2	77.4	8.2	31-1,31-2
Monsanto MON 16R341B3XF	3.2	1.20	79.6	29.5	8.5	3	75.5	8.8	31-2,31-4
PhytoGen PHY 450W3FE	3.4	1.15	81.8	30.3	7.9	3	72.9	9.5	32-2
ARK 0912-41	3.5	1.19	81.9	30.3	8.0	2	72.8	9.5	32-2,42-1
FiberMax FM 1830GLT	3.3	1.22	80.2	30.2	6.2	2	75.8	8.5	31-2,31-4
PhytoGen PHY 444WRF	2.8	1.17	79.6	27.7	6.7	2	74.7	9.2	31-3
ARK 0908-52	3.8	1.19	79.7	27.7	6.8	1	75.6	8.9	31-1,42-1
LA 13307012	3.7	1.18	79.9	27.7	6.5	2	72.0	9.6	32-2,42-1
PhytoGen PHY 330W3FE	3.6	1.13	79.6	27.4	6.7	2	71.2	10.0	42-1
TAM 12J-39	3.4	1.18	82.8	34.2	7.1	2	72.7	10.1	32-1,32-2
NM 13G1029	3.5	1.17	79.7	28.9	6.5	1	73.2	9.5	32-2
LA 13307105	3.2	1.18	81.2	30.7	7.7	3	72.6	9.5	32-2,42-1
TAM 12I-72	3.5	1.20	81.4	32.2	6.0	3	70.8	9.4	42-1
NM 13G2019	3.3	1.20	81.3	31.5	7.9	3	73.9	8.8	31-4,41-3
ARK 0921-58ne	3.2	1.23	80.5	29.7	7.9	3	72.4	9.3	32-2,42-1
PhytoGen PHY 764WRF	3.2	1.16	81.4	30.7	7.5	2	71.4	9.8	42-1
TAM BB-2139	3.0	1.32	80.5	30.5	5.5	3	72.8	9.7	32-2
Mean	3.4	1.19	80.5	26.7	7.1	2	73.6	9.2	
c.v.%	4.8	1.9	0.8	2.9	7.4	34.7	1.4	3.0	
LSD 0.05	0.3	0.04	1.2	1.5	0.9	1	1.8	0.5	

Table 12 Yield and agronomic property results from the irrigated root-knot nematode performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open			Nematode counts	
		% Turnout		% Lint		Boll	Seed	Lint	Seeds per	Bolls	Storm		RK/500cc	Waller
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	8-Sep	Resistance	Height	Soil	Grouping
PhytoGen PHY 480 W3FE	1655	32.5	46.0	41.6	32.6	5.2	9.4	7.2	30.0	35	5	25	505	F
CPS 72510 B2XF	1622	32.6	44.6	39.5	31.8	5.4	9.0	6.7	31.8	16	5	27	3120	A-E
Stoneville ST 4946 GLB2 check	1615	30.7	47.9	38.1	31.6	6.4	10.2	6.9	35.9	35	5	28	4590	A-E
PhytoGen PX4A57W3FE	1591	33.6	43.2	43.4	34.6	5.2	8.9	7.8	28.7	39	5	26	8820	A-E
PhytoGen PX3A99 W3FE	1551	32.2	44.7	38.1	30.0	5.3	10.2	7.0	28.6	43	5	26	4500	A-E
PhytoGen PX3A82 W3FE	1539	32.6	44.9	38.1	31.2	5.3	9.2	6.4	31.4	63	5	27	1200	EF
PhytoGen PX4A54W3FE	1458	31.7	44.8	40.2	32.4	5.1	9.5	7.2	28.1	46	5	25	3090	CDEF
PhytoGen PHY 417 WRF	1453	33.0	46.1	42.9	35.3	5.0	8.4	6.9	30.9	45	4	28	1110	CDEF
Monsanto 16R246NR B2XF	1444	33.3	45.0	40.9	32.3	5.4	9.3	7.0	30.9	45	5	26	2210	DEF
Deltapine DP 1747NR B2XF	1434	32.0	42.9	43.0	33.2	5.0	9.3	7.8	27.6	16	5	29	4170	A-E
PhytoGen PHY 440 W3FE	1411	30.6	45.5	39.3	31.1	4.7	8.8	6.1	30.1	35	5	25	990	CDEF
PhytoGen PHY 340 W3FE	1405	31.1	43.7	39.4	30.4	5.0	8.5	6.1	31.9	64	5	25	4440	CDEF
PhytoGen PHY 450 W3FE	1388	30.8	45.9	39.4	31.0	4.7	9.2	6.7	27.6	48	6	25	2130	A-F
NexGen NG 5711 B3XF	1377	33.9	45.9	39.8	32.4	4.6	8.3	6.2	29.5	40	6	31	6300	A-E
Monsanto 16R245NR B2XF	1371	30.9	45.7	38.7	32.3	5.3	9.7	6.9	30.1	28	5	28	10290	A-E
PhytoGen PX3A96 W3FE	1362	30.7	45.2	38.5	30.6	5.0	9.8	6.9	27.7	61	5	26	3510	A-E
FiberMax FM 1911GLT check	1335	32.0	45.5	40.2	32.5	5.3	10.5	8.0	26.8	58	6	25	3390	A-E
PhytoGen PHY 490 W3FE	1332	30.5	45.3	38.9	31.4	4.5	9.0	6.6	26.6	38	5	24	7320	ABCD
Deltapine DP 1558NR B2RF check	1321	31.6	44.0	39.1	30.9	5.7	9.4	6.7	32.9	26	5	27	2670	DEF
CPS 72280 B2XF	1307	32.2	43.1	40.4	32.2	5.0	8.5	6.7	30.0	38	5	30	2340	A-F
PhytoGen PHY 300 W3FE	1301	30.6	44.0	40.1	32.2	5.2	10.3	7.9	26.7	58	6	26	7110	A-E
PhytoGen PX2AX4 W3FE	1296	30.4	44.8	38.0	29.5	5.8	11.2	7.7	28.8	63	5	24	3210	CDEF
NexGen NG 3640 XF	1291	30.5	47.6	37.7	30.8	5.5	9.8	6.5	31.8	50	5	27	29160	A
NexGen NG 3406 B2XF	1290	32.3	45.7	39.0	31.3	5.5	9.5	6.8	31.5	65	4	26	6750	ABCD
NexGen NG 5007 B2XF	1276	32.9	44.5	40.6	31.2	4.6	8.0	6.1	30.6	63	4	27	9210	A-E
NexGen NG 3500 XF	1272	30.2	46.8	36.4	29.3	5.2	9.1	5.8	33.0	59	6	28	21690	A
PhytoGen PHY 330 W3FE	1270	30.0	43.4	38.3	29.2	4.2	8.5	6.3	25.8	71	6	24	10980	ABC
FiberMax FM 2011GL check	1259	30.7	44.8	38.2	30.8	6.1	11.2	7.7	30.3	49	6	24	13200	A-E
NexGen NG 4689 B2XF	1256	31.4	46.7	38.7	31.6	5.4	9.1	6.4	32.4	43	5	27	28410	A
CPS 70123 B2XF	1251	30.6	45.0	38.9	31.1	5.1	7.8	5.5	35.8	31	6	30	6330	ABCD

Table 12 Yield and agronomic property results from the irrigated root-knot nematode performance test at the AG-CARES farm, Lamesa, 2017.

				Agronomic Properties						% Open			Nematode counts	
		% Turnout		% Lint		Boll	Seed	Lint	Seeds per	Bolls	Storm		RK/500cc	Waller
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	8-Sep	Resistance	Height	Soil	Grouping
PhytoGen PX2A28 W3FE	1235	29.6	43.9	37.9	29.7	5.2	9.8	6.7	29.4	60	6	25	1170	B-F
13-9-1001S	1233	31.2	45.6	37.8	30.4	5.0	9.0	6.0	31.6	45	4	27	25440	A
FiberMax FM 1888GL	1233	31.3	47.0	40.0	32.2	6.2	10.8	7.8	31.6	65	6	26	21150	AB
PhytoGen PX2A36 W3FE	1229	28.0	46.6	36.5	26.6	5.1	11.5	7.2	26.0	53	5	21	8040	A-E
NexGen NG 4545 B2XF	1226	31.2	46.6	38.4	31.1	5.4	9.1	6.3	33.1	48	5	30	25380	A
PhytoGen PHY 250 W3FE	1212	30.1	44.0	39.4	31.6	5.6	9.9	7.1	31.2	69	6	22	5480	A-E
13-9-1107S	1205	28.4	47.3	36.1	29.6	5.7	11.9	7.3	28.3	40	5	26	7590	ABC
13-9-218S	1153	28.0	51.2	34.3	28.1	5.2	11.2	6.4	28.2	45	5	29	11730	ABC
PhytoGen PX2A27 W3FE	1145	28.3	45.1	36.6	27.5	5.6	9.6	6.0	34.4	54	6	25	2520	B-F
PhytoGen PX2A23 W3FE	1133	27.7	44.5	35.7	27.0	5.3	10.3	6.3	29.8	58	6	24	4830	A-E
PhytoGen PX2A31 W3FE	1114	30.3	45.3	38.9	29.8	4.9	9.8	6.9	27.6	73	7	21	4770	A-E
PhytoGen PX2AX3 W3FE	1110	29.6	43.8	37.9	29.6	5.5	10.0	6.8	31.1	64	6	22	6450	A-E
PhytoGen PX2AX2 W3FE	1095	28.7	45.2	37.9	30.0	5.3	9.7	6.7	30.2	73	6	22	5490	A-E
CA 4001	1048	27.4	49.5	33.7	26.9	5.5	10.8	6.1	30.7	39	5	24	10050	ABC
Mean	1320	30.8	45.4	38.8	30.8	5.2	9.6	6.7	30.1	49	5	26		
c.v.%	9.8	2.9	2.6	1.9	2.6	4.8	7.5	6.6	6.7	27.3	13.9	7.4		
LSD 0.05	152	1.1	1.4	1.3	1.4	0.4	1.2	0.8	3.4	16	1	2	11023	

Table 12A. Fiber quality results from the irrigated root-knot nematode performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 480 W3FE	5.2	1.12	82.5	30.2	8.5	2	72.8	9.6	32-2
CPS 72510 B2XF	4.7	1.14	80.2	29.7	7.0	1	74.1	10.1	22-2,32-1
Stoneville ST 4946 GLB2 check	4.4	1.12	82.1	32.1	7.6	2	73.4	10.1	32-1,32-2
PhytoGen PX4A57W3FE	4.5	1.05	79.9	28.4	7.7	2	71.5	10.2	32-2
PhytoGen PX3A99 W3FE	4.9	1.12	81.0	29.3	6.9	1	71.5	10.1	32-2
PhytoGen PX3A82 W3FE	4.9	1.10	82.5	32.1	7.2	2	73.2	9.2	42-1
PhytoGen PX4A54W3FE	4.6	1.08	80.8	30.1	8.1	2	72.7	10.2	32-2
PhytoGen PHY 417 WRF	4.4	1.09	80.2	29.4	8.2	2	74.0	9.9	32-1
Monsanto 16R246NR B2XF	4.9	1.13	81.4	31.3	7.1	1	72.3	9.8	32-2,42-1
Deltapine DP 1747NR B2XF	5.0	1.08	79.9	30.1	7.3	2	73.1	9.8	32-1,32-2
PhytoGen PHY 440 W3FE	4.4	1.14	81.5	30.7	7.6	1	74.7	9.6	31-3,32-1
PhytoGen PHY 340 W3FE	4.7	1.10	81.2	29.1	6.7	2	72.5	10.0	32-2
PhytoGen PHY 450 W3FE	4.8	1.10	81.8	33.1	8.7	3	73.1	10.2	32-2
NexGen NG 5711 B3XF	4.8	1.14	81.8	29.5	7.0	1	74.9	9.3	31-3
Monsanto 16R245NR B2XF	4.4	1.16	80.5	30.5	6.8	1	74.9	9.6	32-1
PhytoGen PX3A96 W3FE	4.7	1.11	81.7	29.7	7.9	2	73.9	9.6	32-1,32-2
FiberMax FM 1911GLT check	4.8	1.10	80.5	29.0	6.4	1	74.1	9.6	32-1,32-2
PhytoGen PHY 490 W3FE	4.5	1.10	81.7	31.9	8.6	3	73.5	9.4	32-2
Deltapine DP 1558NR B2RF check	5.0	1.13	81.1	31.5	7.1	2	73.5	9.6	32-2
CPS 72280 B2XF	4.8	1.12	81.1	30.4	8.1	2	74.2	9.2	31-3,31-4
PhytoGen PHY 300 W3FE	4.8	1.10	81.2	30.1	6.5	2	72.3	9.5	32-2,42-1
PhytoGen PX2AX4 W3FE	4.6	1.13	80.9	31.0	5.8	1	74.2	8.9	31-4,41-3
NexGen NG 3640 XF	5.3	1.07	81.5	30.8	7.7	1	72.1	10.4	32-1,32-2
NexGen NG 3406 B2XF	4.8	1.10	80.8	29.7	8.2	2	72.7	9.4	32-2,42-1
NexGen NG 5007 B2XF	4.9	1.07	79.4	26.2	7.4	1	73.3	9.5	32-2
NexGen NG 3500 XF	5.2	1.06	81.9	30.0	7.7	1	72.6	10.1	32-1,322
PhytoGen PHY 330 W3FE	4.5	1.11	81.2	29.2	6.6	2	72.1	9.9	32-2,42-1
FiberMax FM 2011GL check	4.8	1.11	81.4	30.4	5.9	2	74.0	9.4	32-2
NexGen NG 4689 B2XF	5.1	1.07	80.5	29.1	5.6	1	71.9	9.9	32-1,42-1
CPS 70123 B2XF	4.5	1.12	81.3	29.2	7.2	2	73.4	9.9	32-1

Table 12A. Fiber quality results from the irrigated root-knot nematode performance test at the AG-CARES farm, Lamesa, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PX2A28 W3FE	4.4	1.15	79.8	30.0	4.9	1	73.8	9.3	31-3,42-1
13-9-1001S	4.5	1.13	80.2	31.7	6.3	2	74.3	9.0	32-2,41-3
FiberMax FM 1888GL	4.9	1.13	80.7	31.1	5.1	2	73.8	9.1	31-4,32-2
PhytoGen PX2A36 W3FE	4.6	1.10	81.1	31.2	4.9	2	76.2	9.3	31-3
NexGen NG 4545 B2XF	5.3	1.07	81.5	29.4	5.4	1	73.0	9.7	32-2
PhytoGen PHY 250 W3FE	4.7	1.09	80.6	29.8	5.5	1	75.4	9.4	31-3,32-1
13-9-1107S	4.5	1.09	81.2	30.7	6.0	1	74.7	9.3	31-3,32-2
13-9-218S	4.5	1.13	80.6	31.9	6.7	2	74.6	9.0	31-4
PhytoGen PX2A27 W3FE	4.7	1.12	80.0	30.0	6.3	2	74.1	9.2	31-4,32-2
PhytoGen PX2A23 W3FE	4.5	1.15	81.5	31.1	5.5	2	76.2	8.9	31-2,31-3
PhytoGen PX2A31 W3FE	5.0	1.10	81.4	29.7	5.5	2	74.1	9.3	31-4,32-2
PhytoGen PX2AX3 W3FE	5.0	1.09	81.2	30.5	5.4	1	75.4	9.3	31-3
PhytoGen PX2AX2 W3FE	4.6	1.10	80.8	30.4	5.5	1	74.3	9.2	31-4,32-2
CA 4001	4.3	1.15	81.3	32.6	5.8	2	74.4	9.2	32-1,41-3
Mean	4.7	1.11	81.0	30.3	6.7	1	73.6	9.6	
c.v.%	4.5	1.9	1.0	3.5	8.5	38.2	1.3	2.7	
LSD 0.05	0.4	0.04	1.3	1.8	0.9	1	1.6	0.4	

Table 13. Yield and agronomic property results from the Verticllium wilt performance test at Texas A&M AgriLife Research, Halfway, 2017.

				Agronomic Properties						% Open					
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		% Wilt		%Defol
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	24-Oct	Resistance	Height	31-Aug	17-Aug	iation
PhytoGen PHY 250 W3FE	1102	24.9	39.9	37.8	29.2	5.6	9.9	6.9	30.8	81	6	28	16.7	5.6	6.5
PhytoGen PX2A28W3FE	1086	23.7	40.0	38.3	29.7	5.9	10.6	7.4	30.6	60	5	33	16.9	5.0	15.3
NexGen NG 3500 XF	1063	23.5	41.7	36.5	27.3	5.1	9.4	6.4	29.0	59	5	37	25.2	9.9	28.1
PhytoGen PX2AX3W3FE	1052	22.9	40.1	36.8	26.2	5.0	9.9	6.7	27.1	70	5	28	20.5	6.8	11.2
NexGen NG 4545 B2XF	1029	24.1	43.7	36.5	29.6	6.1	10.4	6.8	32.6	63	5	36	16.0	2.8	33.0
Americot AMX 5140 XF	1003	23.3	38.2	37.7	30.4	5.5	9.8	6.8	30.4	51	5	35	19.0	5.5	18.8
PhytoGen PHY 243 WRF	981	20.6	40.7	35.1	27.5	5.7	10.8	6.6	30.5	43	4	36	14.3	6.7	12.6
NexGen NG 3640 XF	978	23.7	38.8	35.6	28.7	5.5	9.3	6.1	32.3	53	5	34	23.8	7.7	18.4
NexGen NG 4792 XF	971	21.9	39.4	37.1	29.9	5.6	9.3	6.2	33.3	35	5	37	21.8	5.4	16.3
PhytoGen PX2A31W3FE	885	23.8	38.5	39.1	30.3	5.6	10.1	7.3	29.9	70	6	28	21.4	10.8	13.4
PhytoGen PX3A96W3FE	885	21.6	40.0	37.2	29.4	5.2	9.3	6.4	30.1	66	5	32	16.0	5.9	8.5
CPS 72125 XF	880	21.5	41.2	34.7	27.8	5.2	8.9	5.5	33.2	66	4	33	34.4	14.8	27.4
PhytoGen PX2A36W3FE	879	23.5	40.8	35.5	27.0	5.7	10.8	6.7	30.2	68	6	27	21.9	8.9	23.2
FiberMax FM 2484 B2F check	861	21.0	39.4	36.3	28.4	5.0	10.4	7.0	26.1	35	5	32	15.7	4.3	5.6
PhytoGen PX2AX2W3FE	858	24.7	40.0	37.6	28.5	5.6	10.3	7.0	29.9	66	6	28	22.7	9.8	8.7
CPS 70131 XF	839	22.0	37.9	38.9	30.2	4.9	9.0	7.0	27.6	48	4	32	19.8	7.9	27.2
PhytoGen PX2A27W3FE	818	20.7	40.5	35.1	26.8	5.5	10.4	6.3	30.7	60	6	28	29.8	11.2	16.7
CPS 70115 B2XF	816	22.4	40.1	36.5	27.9	5.4	10.4	6.9	28.5	59	6	32	21.0	7.3	34.5
PhytoGen PX2AX4W3FE	775	20.6	39.2	34.5	25.7	5.0	10.1	6.2	27.8	68	6	30	24.7	10.1	23.3
CPS 70132 XF	771	21.7	37.0	38.5	29.8	4.8	8.8	6.7	27.4	36	5	33	23.6	6.3	17.6
NexGen NG 3517 B2XF	771	20.3	40.5	35.8	28.6	5.9	10.2	6.5	33.0	73	5	36	27.8	10.0	44.6
PhytoGen PX3A82W3FE	769	23.2	40.2	37.4	28.3	4.9	10.0	7.2	25.6	70	5	31	18.9	7.3	35.1
NexGen NG 3780 B2XF	764	21.6	40.2	33.5	26.9	6.1	10.6	6.2	32.8	68	4	34	29.0	14.5	39.2
CPS 70114 B2XF	758	22.5	42.6	34.4	26.7	5.8	10.3	6.3	31.6	61	6	32	35.3	13.9	44.6
NexGen NG 4689 B2XF	758	22.8	41.2	36.2	28.6	5.8	10.2	6.6	31.3	56	5	36	21.1	10.3	34.7
PhytoGen PX2A23W3FE	740	21.9	37.7	36.4	28.0	5.1	10.1	6.5	28.9	65	5	30	26.0	15.2	17.8
NexGen NG 3699 B2XF	739	21.8	42.4	35.2	27.9	5.2	9.5	6.1	30.3	64	5	34	23.1	7.8	33.6
PhytoGen PX3A99W3FE	711	21.0	38.4	37.0	28.2	5.3	9.9	6.7	29.3	51	4	34	26.1	6.4	23.1
FiberMax FM 989 check	688	20.1	40.6	35.5	28.2	5.8	12.9	8.0	25.9	45	4	31	21.6	8.8	15.1
PhytoGen PHY 300 W3FE	676	21.3	38.8	37.2	28.3	4.8	8.0	5.7	31.6	73	6	32	20.9	6.7	37.4

Table 13. Yield and agronomic property results from the Verticllium wilt performance test at Texas A&M AgriLife Research, Halfway, 2017.

				Agronomic Properties						% Open					
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		% Wilt		%Defol
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	24-Oct	Resistance	Height	31-Aug	17-Aug	iation
PhytoGen PHY 340 W3FE	674	22.9	38.9	39.6	28.9	4.7	7.9	5.9	30.9	68	5	33	31.4	8.4	53.9
CPS 70122 B2XF	647	21.6	38.5	36.3	29.0	5.8	10.6	6.8	31.3	35	5	31	28.6	12.8	37.3
CPS 70121 B2XF	632	22.5	35.4	40.8	32.0	5.9	10.0	8.3	29.6	28	4	30	24.2	12.6	25.4
PhytoGen PHY 490 WRF	628	20.4	38.7	36.6	27.8	4.5	8.1	5.4	30.3	55	6	35	16.5	6.8	40.5
PhytoGen PX4A54W3FE	628	21.5	36.7	37.8	29.3	4.9	8.9	6.4	28.6	48	5	31	19.0	7.4	30.1
PhytoGen PX4A62W3FE	626	19.7	36.8	36.8	28.0	4.4	9.0	6.3	25.4	51	5	30	30.4	12.6	31.0
PhytoGen PHY 480 W3FE	624	19.9	39.5	35.6	27.1	4.6	8.8	5.9	28.1	48	5	32	32.3	14.2	44.0
Seed Source Genetics UA 222 Saberex	610	20.9	39.8	35.9	28.0	5.1	10.3	6.6	27.5	44	4	31	19.9	11.3	25.6
NexGen NG 3406 B2XF check	606	22.8	38.5	34.9	27.0	4.5	9.0	5.8	27.2	70	5	32	27.6	10.3	55.5
NexGen NG 4777 B2XF	597	20.5	40.5	35.3	29.1	6.1	10.8	6.7	32.5	41	5	36	33.7	8.8	32.0
PhytoGen PHY 330 W3FE	582	21.8	39.2	38.0	28.8	5.5	7.5	5.3	38.9	64	5	31	23.9	11.9	41.7
PhytoGen PX4A57W3FE	537	19.4	34.8	38.1	27.8	4.2	7.1	5.4	30.1	45	5	32	25.2	10.6	49.7
CPS 73111	512	19.8	38.5	35.3	27.2	5.3	9.5	6.1	30.2	60	5	32	25.3	12.9	29.7
PhytoGen PHY 450 W3FE	503	19.9	37.1	36.0	27.5	4.1	7.9	5.4	27.1	56	5	33	16.3	6.7	37.1
Mean	780	21.9	39.3	36.6	28.3	5.2	9.6	6.4	29.9	57	5	32			
c.v.%	18.3	6.0	3.9	2.1	2.1	5.4	6.4	7.2	5.8	20.9	14.8	7.3	MSD 15.9	10.1	13.9
LSD 0.05	167	1.5	1.8	1.3	1.0	0.5	1.0	0.8	2.9	14	1	3			

Table 13A. Fiber quality results from the Verticillium wilt performance test at Texas A&M AgriLife Research, Halfway, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 250 W3FE	3.0	1.14	79.8	31.3	6.8	1	79.5	9.0	21-1,21-2
PhytoGen PX2A28W3FE	2.7	1.15	78.7	31.0	5.7	1	78.1	9.6	21-3,21-4
NexGen NG 3500 XF	2.7	1.06	79.5	30.4	8.7	2	74.8	11.4	12-2,23-3
PhytoGen PX2AX3W3FE	2.5	1.11	79.5	31.7	6.9	2	78.4	9.4	21-1,22-1
NexGen NG 4545 B2XF	2.8	1.13	79.6	31.5	7.4	1	78.0	9.8	21-3
Americot AMX 5140 XF	2.7	1.07	80.2	31.5	9.6	1	73.5	11.3	23-1,33-1
PhytoGen PHY 243 WRF	2.4	1.11	77.5	27.4	8.7	2	77.6	10.0	21-3,22-1
NexGen NG 3640 XF	3.1	1.09	80.1	30.5	9.8	1	74.3	11.5	22-1,23-3
NexGen NG 4792 XF	2.3	1.07	79.0	30.2	9.4	2	71.9	12.5	23-3
PhytoGen PX2A31W3FE	2.6	1.08	79.1	32.4	7.2	2	79.7	9.1	21-1
PhytoGen PX3A96W3FE	2.7	1.11	78.9	29.4	8.1	2	77.9	9.4	21-2,21-3
CPS 72125 XF	2.5	1.09	78.8	30.6	8.1	2	77.1	9.7	21-4,22-1
PhytoGen PX2A36W3FE	2.7	1.07	78.6	30.6	6.8	1	79.2	9.4	21-1,21-3
FiberMax FM 2484 B2F check	2.3	1.13	79.3	29.9	7.2	1	75.9	9.3	21-3,42-1
PhytoGen PX2AX2W3FE	3.0	1.05	78.6	29.2	9.1	2	76.5	10.1	21-2,23-1
CPS 70131 XF	2.4	1.07	79.3	30.3	10.0	1	75.7	11.0	22-1
PhytoGen PX2A27W3FE	2.4	1.12	78.5	30.5	7.5	1	78.4	9.6	21-1,22-1
CPS 70115 B2XF	2.8	1.12	78.7	30.1	7.5	1	78.8	9.5	11-4,21-1
PhytoGen PX2AX4W3FE	2.3	1.13	78.7	31.2	7.1	1	80.8	8.7	11-2,21-1
CPS 70132 XF	2.5	1.12	79.4	29.7	9.3	3	75.1	9.9	12-2,42-1
NexGen NG 3517 B2XF	2.4	1.10	79.3	30.5	9.3	1	78.5	9.8	21-3
PhytoGen PX3A82W3FE	2.4	1.07	80.4	28.9	8.7	2	78.5	9.5	11-2,21-4
NexGen NG 3780 B2XF	2.3	1.12	78.2	29.6	8.9	1	75.9	10.2	21-3,22-2
CPS 70114 B2XF	2.5	1.15	80.1	31.3	7.0	2	79.2	9.8	11-2,12-2
NexGen NG 4689 B2XF	2.8	1.11	79.5	31.8	7.5	1	77.6	10.3	12-2,22-1
PhytoGen PX2A23W3FE	2.2	1.13	79.9	31.6	7.2	1	80.9	9.0	11-2,21-1
NexGen NG 3699 B2XF	2.6	1.14	78.7	30.7	6.9	2	77.6	9.7	21-3,22-1
PhytoGen PX3A99W3FE	2.4	1.06	77.0	28.0	8.6	1	78.4	10.2	11-4,12-2
FiberMax FM 989 check	2.4	1.12	79.5	30.2	6.9	2	76.5	10.2	22-1,22-2
PhytoGen PHY 300 W3FE	2.5	1.09	78.1	29.7	8.3	1	78.3	9.7	11-4,21-4

Table 13A. Fiber quality results from the Verticillium wilt performance test at Texas A&M AgriLife Research, Halfway, 2017.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 340 W3FE	2.6	1.07	77.6	28.3	8.0	1	77.7	10.0	21-3
CPS 70122 B2XF	2.5	1.09	78.8	29.9	8.0	1	74.1	11.2	23-1,23-2
CPS 70121 B2XF	2.5	1.11	79.4	31.1	9.4	3	74.6	11.0	22-1,23-2
PhytoGen PHY 490 WRF	2.2	1.10	77.9	29.5	9.0	2	76.8	9.8	22-1,31-3
PhytoGen PX4A54W3FE	2.3	1.11	80.3	31.4	7.9	2	77.0	9.9	21-4,22-1
PhytoGen PX4A62W3FE	2.2	1.06	76.6	28.1	7.8	2	77.0	10.4	11-4,22-1
PhytoGen PHY 480 W3FE	2.0	1.07	78.8	29.6	9.1	3	76.4	9.7	22-2
Seed Source Genetics UA 222 Saberex	2.5	1.13	79.1	29.9	9.5	1	73.7	11.4	22-1,23-2
NexGen NG 3406 B2XF check	2.2	1.07	78.0	27.0	9.0	2	76.6	10.4	11-4,22-2
NexGen NG 4777 B2XF	2.2	1.09	77.9	31.6	6.8	1	76.6	10.4	12-2,22-1
PhytoGen PHY 330 W3FE	2.2	1.08	79.0	29.5	7.6	2	76.3	10.1	21-4,22-1
PhytoGen PX4A57W3FE	2.3	1.01	78.1	26.0	8.0	2	76.5	10.5	12-2,22-1
CPS 73111	2.7	1.16	82.0	36.8	7.0	2	73.6	10.2	22-2,32-2
PhytoGen PHY 450 W3FE	2.2	1.05	77.5	27.4	8.8	3	75.2	10.0	22-2,31-3
Mean	2.5	1.10	78.9	30.2	8.1	1	76.9	10.1	
c.v.%	9.3	1.7	1.1	4.9	6.8	49.0	2.1	5.9	
LSD 0.05	0.4	0.03	1.5	2.5	0.9	1	2.7	1.0	

Table 14. Results of the irrigated bacterial blight cotton variety screening at Texas A&M AgriLife Research, Lubbock, 2017.

Entry	Blight%	Waller-Duncan	Designation	Rating
6	0	j	CPS 70114 B2XF	resistant
8	0	j	CPS 70121 B2XF	resistant
10	0	j	CPS 70124 B2XF	resistant
21	0	j	Monsanto 16R341 B3XF	resistant
22	0	j	Deltapine DP 1840 B3XF	resistant
23	0	j	Monsanto 16R346 B3XF	resistant
27	0	j	PhytoGen PHY 300 W3FE	resistant
29	0	j	PhytoGen PHY 330 W3FE	resistant
30	0	j	PhytoGen PHY 340 W3FE	resistant
32	0	j	PhytoGen PHY 450 W3FE	resistant
34	0	j	PhytoGen PX2A23W3FE	resistant
35	0	j	PhytoGen PX2A27W3FE	resistant
36	0	j	PhytoGen PX2A28W3FE	resistant
37	0	j	PhytoGen PX2A31W3FE	resistant
38	0	j	PhytoGen PX2A36W3FE	resistant
39	0	j	PhytoGen PHY 250 W3FE	resistant
41	0	j	PhytoGen PX2AX3W3FE	resistant
42	0	j	PhytoGen PX2AX4W3FE	resistant
43	0	j	PhytoGen PX3A82W3FE	resistant
44	0	j	PhytoGen PX3A96W3FE	resistant
45	0	j	PhytoGen PX3A99W3FE	resistant
46	0	j	PhytoGen PHY 480 W3FE	resistant
47	0	j	PhytoGen PX4A54W3FE	resistant
48	0	j	PhytoGen PX4A57W3FE	resistant
49	0	j	PhytoGen PX4A62W3FE	resistant
7	2	j	CPS 70115 B2XF	resistant
16	2	j	Deltapine DP 1639 B2XF	resistant
24	2	j	Deltapine DP 1851 B3XF	resistant
33	2	j	PhytoGen PHY 490 W3FE	resistant
40	2	j	PhytoGen PX2AX2W3FE	resistant
19	4	j	Deltapine DP 1820 B3XF	resistant
3	5	ij	11-11-505BB	resistant
9	5	ij	CPS 70122 B2XF	resistant
14	5	ij	Deltapine DP 1518 B2XF	resistant
50	13	hi	Seed Source Genetics SSG 222	partially resistant
51	13	hi	Seed Source Genetics SSG 222 Saberex	partially resistant
26	18	h	PhytoGen PHY 243 WRF	partially resistant
2	28	g	11-11-307BB	partially resistant
17	40	f	Deltapine DP 1646 B2XF	partially resistant
4	52	e	11-11-607BB	partially susceptible
15	65	d	Deltapine DP 1612 B2XF	partially susceptible
5	87	c	13-11-702BB	moderately susceptible
31	90	bc	PhytoGen PHY 444 WRF	moderately susceptible
1	93	abc	13-11-109BB	moderately susceptible
28	97	ab	PhytoGen PHY 312 WRF	moderately susceptible
11	100	a	CPS 70131 XF	susceptible
12	100	a	CPS 70132 XF	susceptible
13	100	a	CPS 73111	susceptible
18	100	a	Deltapine DP 1725 B2XF	susceptible
20	100	a	Deltapine DP 1835 B3XF	susceptible
25	100	a	Monsanto 16R353 B3XF	susceptible
52	100	a	NexGen NG 3406 B2XF check	susceptible

MSD(0.05) 8

Notes

Table 15. Variety index for the cotton performance tests conducted by Texas A AgriLife Research, Lubbock. 2017.

Designation	Pages:	Uniform OVT 8-27	Location Summary 28	5 Yr Summary 30	Late Planted 32	New Variety 34	High Quality 38	Root-knot Nematode 40	Verticillium Wilt 44	Bacterial Blight 48
Americot AMX 5140 XF						*			*	
Americot UA 48						*				
CPS 70114 B2XF						*			*	*
CPS 70115 B2XF						*			*	*
CPS 70121 B2XF						*			*	*
CPS 70122 B2XF						*			*	*
CPS 70123 B2XF					*			*		
CPS 70124 B2XF						*				*
CPS 72125 XF						*			*	
CPS 70131 B2XF						*			*	*
CPS 70132 B2XF						*			*	*
CPS 73111						*			*	*
CPS 72142 B2XF					*	*				
CPS 72510 B2XF								*		
CPS 72280 B2XF								*		
Deltapine DP 1518 B2XF										*
Deltapine DP 1522 B2XF		*	*							
Deltapine DP 1549 B2XF		*	*							
Deltapine DP 1558NR B2RF								*		
Deltapine DP 1612 B2XF		*	*							*
Deltapine DP 1639 B2XF										*
Deltapine DP 1646 B2XF		*	*				*			*
Deltapine DP 1725 B2XF										*
Deltapine DP 1747NR B2XF		*	*					*		
Deltapine DP 1820 B3XF										*
Deltapine DP 1840 B3XF									*	
Deltapine DP 1835 B3XF										*
Deltapine DP 1845 B3XF		*	*							
Deltapine DP 1851 B3XF										*
Deltapine DP 491						*				
FiberMax FM 1320GL					*					
FiberMax FM 1830GLT		*	*	*			*			
FiberMax FM 1888GL		*	*		*			*		
FiberMax FM 1911GLT		*	*		*			*		
FiberMax FM 2011GL								*		
FiberMax FM 2322GL		*	*	*			*			
FiberMax FM 2334GLT		*	*	*			*			
FiberMax FM 2484 B2F									*	
FiberMax FM 989									*	
FiberMax FM 958		*	*		*	*				
International Seed Technology BRS-286		*	*							
International Seed Technology BRS-293		*	*							
International Seed Technology BRS-335		*	*							
Monsanto 16R245NR B2XF		*	*					*		
Monsanto 16R246NR B2XF		*	*					*		
Monsanto 16R341 B3XF							*			*
Monsanto 16R353B3XF										*
Monsanto 16R346 B2XF		*	*				*			*
NexGen NG 3406 B2XF		*	*	*	*			*	*	*
NexGen NG 3500 XF		*	*	*	*			*	*	
NexGen NG 3517 B2XF					*				*	
NexGen NG 3640 XF		*	*		*	*		*	*	
NexGen NG 3699 B2XF		*	*		*	*			*	
NexGen NG 3780 B2XF						*			*	

Table 15. Variety index for the cotton performance tests conducted by Texas A AgriLife Research, Lubbock. 2017.

Designation	Pages:	Uniform OVT 8-27	Location Summary 28	5 Yr Summary 30	Late Planted 32	New Variety 34	High Quality 38	Root-knot Nematode 40	Verticillium Wilt 44	Bacterial Blight 48
NexGen NG 4545 B2XF		*	*	*				*	*	
NexGen NG 4601 B2XF						*				
NexGen NG 4689 B2XF		*	*		*	*		*	*	
NexGen NG 4777 B2XF						*			*	
NexGen NG 4792 XF						*			*	
NexGen NG 5007 B2XF								*		
NexGen NG 5711 B3XF								*		
PhytoGen PHY 243 WRF		*	*		*				*	*
PhytoGen PHY 250 W3FE		*	*		*	*		*	*	*
PhytoGen PHY 300 W3FE		*	*		*			*	*	*
PhytoGen PHY 312 WRF		*	*	*	*					*
PhytoGen PHY 330 W3FE		*	*		*		*	*	*	*
PhytoGen PHY 340 W3FE		*	*		*			*	*	*
PhytoGen PHY 440 W3FE								*		
PhytoGen PHY 444 WRF		*	*	*			*			*
PhytoGen PHY 450 W3FE		*	*		*		*	*	*	*
PhytoGen PHY 480 W3FE						*		*	*	*
PhytoGen PHY 490 W3FE		*	*		*			*		*
PhytoGen PHY 499 WRF		*	*	*						
PhytoGen PHY 764 WRF		*	*				*			
PhytoGen PHY 7417 WRF								*		
PhytoGen PX2A23W3FE		*	*			*		*	*	*
PhytoGen PX2A27W3FE		*	*		*	*		*	*	*
PhytoGen PX2A28W3FE		*	*		*	*		*	*	*
PhytoGen PX2A31W3FE		*	*		*	*		*	*	*
PhytoGen PX2A36W3FE		*	*		*	*		*	*	*
PhytoGen PX2AX2W3FE		*	*		*	*		*	*	*
PhytoGen PX2AX3W3FE		*	*		*	*		*	*	*
PhytoGen PX2AX4W3FE		*	*		*	*		*	*	*
PhytoGen PX3A82W3FE						*		*	*	*
PhytoGen PX3A96W3FE						*		*	*	*
PhytoGen PX3A99W3FE						*		*	*	*
PhytoGen PX4A54W3FE						*		*	*	*
PhytoGen PX4A57W3FE						*		*	*	*
PhytoGen PX4A62W3FE									*	*
Seed Source Genetics HQ 210 CT		*	*	*						
Seed Source Genetics UA 222		*	*	*						*
Seed Source Genetics UA 222 Saberex		*	*						*	*
Stoneville ST 4946GLB2		*	*	*				*		
10-11-128N						*				
11-11-307BB										*
11-11-505BB										*
11-11-607BB										*
13-9-218S						*		*		
13-9-1001S		*	*			*		*		
13-9-1107S						*		*		
13-11-109BB										*
13-11-702BB										*
13-29-201N						*				
CA 4001								*		
14-gh-1C						*				
14-gh-2C						*				