

COTTON PERFORMANCE TESTS

In the Texas High Plains

2021

The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos - 2022



Technical Report

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Cotton Performance Tests in the Texas High Plains 2021^{1/}

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INTRODUCTION

Cotton performance tests were planted in 2021 at the Texas A&M Agricultural Research and Extension Center in Lubbock (LREC), research station at Halfway, TX, and at the AG-CARES research farm in Lamesa, TX. All tests at AG-CARES, including response to root-knot nematode and irrigated and low water Uniform Variety Tests were lost to hail and tornado. Tests were conducted for response to bacterial blight at LREC and Verticillium wilt at Halfway. Uniform Variety Tests including commercial or soon to be commercially available varieties were conducted in three environments: LREC irrigated, LREC dryland, and Halfway irrigated. New varieties and strains, including potential new commercial varieties or breeding lines, were tested at LREC under furrow irrigated conditions. A late-planted test including commercial varieties was conducted at LREC under furrow-irrigated conditions. 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. Planting season in 2021 was challenged by frequent rainfall. While generally beneficial to the crop, it created delays in planting operations across the region and, as many farmers, we were forced to work around the weather. Rainfall totals of 5+ inches in May were common (close to 8.5 in. at Lubbock), which forced much of the crop to be planted well into June, later than what we are accustomed to. Crop establishment was better than average due to ample moisture; however, initial crop growth and development were delayed at Halfway by intermittent hailstorms. By the end of August, we were running about 150-200 heat units below normal, which did not help the impression that our crop was behind schedule. Late season was characterized by favorable open weather with no early freezes. This allowed much of the crop to mature. At Halfway, crop maturity was hindered by delays in initial crop growth and development early in the season, which affected yield and fiber quality. Verticillium wilt pressure at Halfway was adequate to quantify variety response, although pressure declined over time due to lack of late season moisture. Overall, disease and insect pressure were light. There was an incidence of aphids at LREC, but it did not reach threshold to justify insecticide application. Tests were harvested before any significant weather events.

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 TEX09297 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 partially performed by student workers Dalton Findley, Peyton Ivie, Baylee Owen, and Reagan Heinrich. Part-time student labor was curtailed due to COVID19. Permanent staff of the breeding program contributed extra effort, especially manual weed control and sample harvesting so these tests could be conducted. Special acknowledgment for this effort is warranted for Carol Kelly, Andrea Maeda, Valerie Morgan, Monica Sheehan, Koy Stair, Leslie Wells, and Zane Wyatt. 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 ^{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

Table 1. Locations, soil types, planting dates, harvest dates, and production information for the cotton performance tests in the Texas High Plains, 2021.

Soil Type	Date Planted	Date Harvested	Production Information
Lubbock Uniform Irrigated			
Olton Clay Loam	June 9	November 29	1 fertilizer application 3 herbicide applications (1PPI, 1 pre, 1 post) furrow irrigation 5.5 acre inches pre-plant furrow irrigation 3.48 acre inches post plant 2 harvest aid applications
Lubbock Late Planted Irrigated			
Olton Clay Loam	June 16	November 23	
Lubbock New Varieties and Strains (NVST)			
Olton Clay Loam	June 9	November 30	
Lubbock Uniform Water Limited			
Acuff Loam	June 8	October 29	1 fertilizer application 3 herbicide applications (1PPI, 1 pre, 1 post) 2 harvest aid applications 5 acre inches pre-irrig. for rain simulation 17.65 inches rainfall in season
Halfway Uniform Irrigated			
Pullman Clay Loam	May 21	November 12	2 fertilizer applications (1 pre 1 post) 5 herbicide applications (2 pre, 3 post) pivot irrig 8.25 acre inches in season 2 harvest aid applications (uniform)
Halfway Verticillium Wilt			
Pullman Clay Loam	May 20	November 19	

Table 2. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	25-Oct	Rating	
PhytoGen PHY 411 W3FE	1040	27.1	28.0	42.8	32.4	4.6	9.0	9.9	19.9	55	5	35
PhytoGen PX3E33W3FE	1035	26.3	32.4	40.7	29.4	5.5	9.6	8.2	27.4	55	6	35
PhytoGen PHY 205 W3FE	1010	27.1	34.3	39.2	28.7	5.6	10.7	8.3	26.5	65	8	30
PhytoGen PHY 332 W3FE	982	26.2	32.9	38.2	27.5	5.4	9.5	7.8	26.5	54	6	35
PhytoGen PHY 443 W3FE	875	26.1	32.6	39.5	29.6	5.2	10.5	9.0	22.9	58	5	37
IST International Seed Technology BRS 286	856	26.3	35.6	36.6	28.0	5.5	10.5	7.6	26.3	58	4	35
Brownfield Seed and Delinting BS&D 4X	846	27.0	38.5	35.1	26.3	6.1	11.6	7.8	27.5	50	6	32
Seed Source Genetics SSG UA 222	834	26.6	34.7	35.4	27.5	5.4	11.0	7.5	25.6	56	5	35
FiberMax FM 1621GL	791	26.9	29.2	40.0	29.8	5.7	10.0	9.3	24.5	53	7	30
Brownfield Seed and Delinting BS&D Ton Buster Magnum	783	25.1	37.5	35.5	27.1	5.7	11.2	7.4	27.0	59	5	34
Seed Source Genetics SSG UA 107	780	28.2	33.8	37.4	27.8	6.0	11.0	8.2	27.4	64	4	32
PhytoGen PHY 400 W3FE	764	27.0	31.4	40.6	29.7	5.4	9.4	8.1	27.0	53	5	31
Deltapine DP 1646 B2XF	747	28.4	32.6	42.8	32.5	4.9	8.1	8.5	24.2	54	5	35
Deltapine DP 2127 B3XF	743	27.8	34.2	42.5	31.8	5.3	9.8	9.3	24.0	58	5	35
FiberMax FM 2398GLTP	726	28.8	35.7	40.5	30.1	5.9	10.4	8.8	26.9	53	6	32
Deltapine DP 2022 B3XF	714	25.7	42.5	34.5	27.4	6.1	11.6	7.1	29.5	51	4	32
Brownfield Seed and Delinting BS&D 9X	713	24.4	37.6	34.9	26.4	5.9	10.9	7.1	28.7	58	5	34
Stoneville ST 4550GLTP	712	27.1	30.0	42.8	32.3	5.5	9.2	9.1	25.8	56	5	35
IST International Seed Technology BRS 335	688	25.1	36.0	35.4	27.5	5.4	10.3	7.1	27.3	54	5	37
FiberMax FM 2498GLT	681	28.0	34.2	41.1	32.3	6.5	11.0	9.3	28.8	44	5	32
Stoneville ST 4993B3XF	666	29.2	30.7	43.1	33.3	5.2	9.2	9.3	23.8	58	6	33
PhytoGen PHY 394 W3FE	664	24.1	31.5	38.6	28.9	5.4	10.3	8.7	24.1	38	7	30
Stoneville ST 5707B2XF	664	24.7	36.3	36.7	29.2	6.4	11.9	7.8	29.9	41	5	38
PhytoGen PHY 210 W3FE	654	25.0	32.5	37.1	26.7	5.2	10.4	8.1	24.1	56	7	28
Deltapine DP 2012 B3XF	649	26.9	34.3	37.9	28.6	4.6	9.0	7.1	24.2	59	5	33
Brownfield Seed and Delinting BS&D 224	645	24.6	33.0	36.0	26.5	5.5	10.5	7.1	27.9	55	5	31
FiberMax FM 1730GLTP	638	27.6	34.7	40.1	30.3	5.1	9.2	8.6	24.2	60	4	28
Stoneville ST 5600B2XF	636	25.9	32.5	39.2	29.2	5.5	9.8	8.0	27.3	31	4	37
Deltapine DP 2044 B3XF	635	27.6	36.2	38.0	30.4	5.6	11.0	8.1	26.0	38	5	33
NexGen NG 5150 B3XF	634	26.9	32.6	37.3	28.8	5.1	9.0	7.5	25.1	54	4	32

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Table 2. cont. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties							% Open Bolls 25-Oct	Storm Rating	Height	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
PhytoGen PHY 350 W3FE	621	24.1	32.5	38.7	29.3	5.4	10.9	8.2	25.2	53	5	32
NexGen NG 4098 B3XF	614	25.6	35.8	39.8	30.7	6.0	10.8	8.6	27.8	31	5	29
Deltapine DP 2123 B3XF	609	25.9	36.9	36.1	29.1	5.5	10.2	7.5	26.4	61	4	31
DynaGro DG 3520 B3XF	597	27.5	37.4	37.6	29.0	5.5	11.1	8.3	24.9	40	5	30
NexGen NG 3299 B3XF	595	28.6	31.5	42.4	32.4	5.2	9.4	9.6	22.8	56	6	31
NexGen NG 3195 B3XF	579	27.9	30.5	41.5	30.7	5.0	9.0	7.3	28.4	59	4	32
PhytoGen PHY 250 W3FE	577	23.2	31.4	37.6	26.8	5.1	10.4	7.6	25.1	54	6	31
NexGen NG 3930 B3XF	554	24.7	33.7	38.6	28.7	5.0	9.3	7.5	25.7	45	5	29
Deltapine DP 2020 B3XF	543	24.4	35.2	40.9	30.8	4.9	9.1	8.1	24.7	60	5	32
FiberMax FM 1830GLT	540	26.7	33.6	37.7	27.9	5.6	9.9	7.9	26.6	48	5	30
NexGen NG 4190 B3XF	499	24.6	32.4	40.7	29.6	4.6	9.2	8.2	23.1	48	4	31
IST International Seed Technology BRS 293	491	20.8	36.6	34.3	25.9	5.9	12.0	7.5	26.8	45	4	35
PhytoGen PHY 545 W3FE	481	22.3	29.0	39.9	28.2	4.8	9.9	8.2	23.4	38	5	34
NexGen NG 4050 XF	479	25.5	31.5	37.6	27.8	5.8	10.1	8.0	27.0	38	6	34
Deltapine DP 2115 B3XF	473	24.4	29.6	40.4	29.2	4.5	8.3	8.4	21.9	53	6	30
NexGen NG 4936 B3XF	466	25.2	33.0	30.2	23.2	5.4	9.7	6.1	26.5	45	5	31
PhytoGen PHY 764 WRF	451	22.2	30.4	35.9	26.7	5.0	10.8	7.3	24.2	51	3	33
Brownfield Seed and Delinting BS&D Ton Buster Elite	415	22.2	34.2	37.9	27.7	5.5	10.6	7.5	27.6	54	4	35
NexGen NG 5711 B3XF	414	22.6	32.8	38.8	29.2	4.5	8.7	7.2	24.0	40	5	35
Mean	669	25.8	33.6	38.5	28.9	5.4	10.1	8.0	25.7	51	5	33
c.v.%	18.7	3.8	5.2	1.5	2.5	5.3	4.0	4.3	6.1	14.1	11.4	5.9
LSD 0.05	146	1.1	2.1	1.0	1.2	0.5	0.7	0.6	2.6	8	1	2

Table 2A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
PhytoGen PHY 411 W3FE	4.7	1.08	81.6	31.7	6.6	81.0	7.1	31-1	4
PhytoGen PX3E33W3FE	4.3	1.13	81.7	32.4	6.5	80.9	8.2	21-1	2
PhytoGen PHY 205 W3FE	4.3	1.07	81.4	30.7	5.6	80.9	7.3	21-2,31-1	3
PhytoGen PHY 332 W3FE	4.3	1.13	81.1	31.3	6.7	80.0	8.1	21-2,31-1	3
PhytoGen PHY 443 W3FE	4.4	1.10	81.6	31.0	6.5	80.3	8.0	21-1,31-1	2
IST International Seed Technology BRS 286	4.5	1.06	79.5	29.9	6.0	79.8	7.6	21-2,31-1	2
Brownfield Seed and Delinting BS&D 4X	4.1	1.10	80.5	29.4	5.7	81.1	7.7	21-1,31-1	4
Seed Source Genetics SSG UA 222	4.1	1.16	80.8	30.0	7.6	79.5	7.5	31-1,31-2	4
FiberMax FM 1621GL	4.0	1.09	81.0	30.5	5.6	79.4	7.7	31-1	4
Brownfield Seed and Delinting BS&D Ton Buster Magnum	4.4	1.09	81.3	28.8	6.4	80.4	7.7	21-2,31-1	3
Seed Source Genetics SSG UA 107	4.5	1.14	81.5	30.4	6.4	81.2	7.7	21-2	2
PhytoGen PHY 400 W3FE	3.9	1.10	81.0	31.6	6.3	80.6	7.7	212,31-1	3
Deltapine DP 1646 B2XF	4.1	1.18	81.5	29.8	7.3	81.9	7.4	21-2	2
Deltapine DP 2127 B3XF	4.7	1.09	81.5	28.2	6.4	81.0	7.5	31-1	2
FiberMax FM 2398GLTP	4.8	1.11	81.7	29.7	6.1	81.6	7.7	21-1,21-2	2
Deltapine DP 2022 B3XF	4.0	1.08	80.2	27.9	5.3	80.0	6.9	31-2	4
Brownfield Seed and Delinting BS&D 9X	4.4	1.10	80.4	31.0	5.6	81.4	7.4	21-2,31-1	3
Stoneville ST 4550GLTP	4.2	1.07	80.4	29.6	7.2	79.6	8.2	21-2,31-1	3
IST International Seed Technology BRS 335	4.1	1.12	80.9	30.4	6.2	81.0	7.1	31-1	3
FiberMax FM 2498GLT	4.7	1.12	81.0	28.9	6.2	81.5	7.8	21-1	2
Stoneville ST 4993B3XF	4.4	1.08	81.3	31.9	6.5	80.7	7.8	21-2	2
PhytoGen PHY 394 W3FE	3.7	1.18	80.3	31.2	6.1	79.6	7.1	31-2	5
Stoneville ST 5707B2XF	4.6	1.14	82.5	33.1	6.8	79.7	8.2	21-2,31-1	2
PhytoGen PHY 210 W3FE	4.4	1.10	82.0	31.4	5.7	81.3	7.3	31-1	3
Deltapine DP 2012 B3XF	3.8	1.11	80.7	28.7	5.6	80.7	7.6	21-2,31-4	3
Brownfield Seed and Delinting BS&D 224	4.1	1.12	80.6	32.0	5.5	81.3	7.3	21-2,31-1	3
FiberMax FM 1730GLTP	4.2	1.16	82.1	32.2	5.7	81.2	7.2	21-2,31-1	3
Stoneville ST 5600B2XF	4.0	1.07	81.6	31.1	7.3	78.9	8.3	31-1	3
Deltapine DP 2044 B3XF	3.8	1.17	80.3	32.6	5.9	78.1	8.0	31-1	4
NexGen NG 5150 B3XF	4.5	1.07	80.4	27.5	5.8	80.4	7.6	21-2,31-1	3

Table 2A, cont. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
PhytoGen PHY 350 W3FE	3.9	1.12	81.5	30.3	6.4	80.6	7.4	31-1	3
NexGen NG 4098 B3XF	3.8	1.15	80.9	33.4	6.4	78.6	7.6	31-1,31-2	4
Deltapine DP 2123 B3XF	4.5	1.11	81.0	30.5	5.6	79.6	7.5	31-1,31-2	3
DynaGro DG 3520 B3XF	3.8	1.19	82.5	32.4	7.7	80.0	7.5	31-1	4
NexGen NG 3299 B3XF	4.4	1.10	81.1	31.4	5.9	81.5	7.8	21-1	1
NexGen NG 3195 B3XF	4.4	1.09	81.1	29.4	6.0	80.7	7.3	31-1	2
PhytoGen PHY 250 W3FE	3.8	1.08	81.2	30.9	5.7	80.6	7.3	31-1,31-2	3
NexGen NG 3930 B3XF	4.1	1.13	81.3	29.5	6.4	80.0	7.7	31-1	3
Deltapine DP 2020 B3XF	4.4	1.14	81.5	29.4	5.8	80.8	7.4	21-2,31-1	4
FiberMax FM 1830GLT	3.8	1.17	81.0	32.4	5.7	82.4	7.2	21-1,31-1	2
NexGen NG 4190 B3XF	3.7	1.13	80.2	29.4	6.5	82.2	7.4	21-2	2
IST International Seed Technology BRS 293	4.4	1.17	80.9	32.8	5.9	80.7	7.4	21-2,31-1	2
PhytoGen PHY 545 W3FE	3.9	1.10	81.0	31.5	7.0	80.3	7.8	31-1	3
NexGen NG 4050 XF	4.1	1.14	81.1	31.1	6.6	79.0	7.1	31-2	4
Deltapine DP 2115 B3XF	4.2	1.09	80.0	28.0	6.4	80.7	7.5	31-1	2
NexGen NG 4936 B3XF	3.9	1.13	81.8	29.4	6.8	83.0	7.1	21-1,21-2	2
PhytoGen PHY 764 WRF	3.7	1.12	81.2	33.4	6.3	79.6	7.8	31-1	3
Brownfield Seed and Delinting BS&D Ton Buster Elite	4.5	1.10	81.6	30.0	7.2	79.2	7.9	31-1	2
NexGen NG 5711 B3XF	3.8	1.11	80.1	29.6	6.9	80.3	7.8	31-1	2
Mean	4.2	1.11	81.1	30.6	6.3	80.5	7.6		3
c.v.%	6.1	1.9	1.1	3.7	3.7	0.8	2.9		29.3
LSD 0.05	0.4	0.03	1.5	1.9	0.4	1.1	0.4		1

Table 3. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	7-Oct	Rating
Deltapine DP 2123 B3XF	842	25.0	33.7	37.3	29.0	5.6	9.7	7.6	27.2	58	3
FiberMax FM 2498GLT	836	27.1	30.9	40.0	29.8	6.3	10.8	9.2	27.6	42	5
FiberMax FM 1621GL	732	25.9	24.7	43.2	31.9	5.7	9.8	10.7	23.2	42	6
Deltapine DP 2127 B3XF	725	27.4	26.9	43.0	31.5	5.5	9.5	9.2	25.4	48	4
PhytoGen PHY 411 W3FE	696	25.2	23.4	40.0	28.7	4.4	8.1	9.8	18.2	53	5
Stoneville ST 4993B3XF	691	26.3	26.6	44.1	33.0	5.2	9.4	9.2	25.1	50	6
Deltapine DP 2044 B3XF	681	24.7	32.1	35.5	26.6	6.0	10.9	7.9	26.9	40	4
PhytoGen PHY 250 W3FE	681	23.2	29.0	36.5	25.4	4.9	10.2	7.6	23.4	52	6
Stoneville ST 5707B2XF	681	23.6	35.5	35.1	27.4	6.0	10.6	6.9	30.6	38	4
NexGen NG 4098 B3XF	679	24.9	31.1	37.9	29.1	5.6	10.6	8.2	25.8	35	4
PhytoGen PHY 205 W3FE	668	23.7	30.5	38.3	27.0	5.0	9.7	7.9	24.1	55	7
NexGen NG 3299 B3XF	667	26.8	27.6	41.5	30.7	5.6	9.3	9.0	25.7	48	6
Brownfield Seed and Delinting BS&D 9X	660	24.1	31.0	35.6	25.2	5.3	10.5	7.4	25.3	35	5
PhytoGen PHY 332 W3FE	658	22.3	26.9	36.4	26.3	5.3	9.1	7.2	26.6	50	6
FiberMax FM 1830GLT	652	25.3	26.4	40.1	29.6	5.5	9.7	9.1	24.1	55	5
DynaGro DG 3520 B3XF	650	22.6	33.8	36.9	27.7	5.1	10.9	7.6	24.7	42	6
PhytoGen PHY 350 W3FE	649	23.1	29.7	37.3	26.4	5.1	10.0	7.6	24.7	50	5
FiberMax FM 2398GLTP	648	25.8	26.7	42.6	31.4	5.7	9.7	8.9	27.1	50	5
Deltapine DP 1646 B2XF	642	26.1	24.5	42.7	31.5	4.7	8.0	8.2	24.8	55	4
Deltapine DP 2020 B3XF	637	24.4	28.3	38.6	27.7	4.9	9.0	7.9	24.1	52	4
IST International Seed Technology BRS 335	624	24.3	31.4	35.9	27.6	5.2	9.9	7.0	26.3	32	6
PhytoGen PHY 394 W3FE	621	23.4	26.7	37.1	26.5	5.3	9.5	8.1	24.4	42	5
Deltapine DP 2022 B3XF	617	22.7	34.5	36.4	25.6	5.5	10.8	7.3	27.2	37	4
PhytoGen PHY 210 W3FE	613	23.0	27.6	40.1	28.1	4.8	9.7	8.7	22.4	57	6
PhytoGen PHY 443 W3FE	613	22.6	26.1	39.4	27.5	5.1	9.6	8.1	24.5	40	5
NexGen NG 3930 B3XF	610	21.4	28.8	37.6	26.7	4.9	9.0	7.2	25.5	48	6
PhytoGen PHY 545 W3FE	604	25.9	26.3	39.9	28.6	5.0	9.1	8.4	23.9	23	5
IST International Seed Technology BRS 286	601	23.0	30.7	37.0	27.5	4.9	10.2	7.7	23.4	38	4
PhytoGen PX3E33W3FE	601	24.7	28.0	39.4	25.9	5.2	9.2	7.5	27.5	25	5
NexGen NG 3195 B3XF	598	25.6	27.3	40.1	29.8	5.0	9.1	8.4	23.7	52	4

Table 3. cont. Yield and agronomic property data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Yield	Agronomic Properties						% Open				
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 7-Oct	Storm Rating	
		Lint	Seed	Picked	Pulled						Height	
NexGen NG 4050 XF	595	24.7	27.9	37.5	27.3	6.0	9.8	8.2	27.5	47	5	27
NexGen NG 5150 B3XF	579	25.7	28.5	40.7	31.6	5.4	8.2	7.8	27.7	33	5	27
Deltapine DP 2115 B3XF	568	26.6	24.5	40.8	29.8	5.3	8.6	9.3	23.2	48	5	22
Stoneville ST 4550GLTP	563	24.2	23.9	41.0	29.4	5.4	9.0	8.8	25.2	45	5	26
Seed Source Genetics SSG UA 222	560	23.1	29.8	35.6	27.5	5.4	10.9	7.7	24.9	23	5	24
Stoneville ST 5600B2XF	552	25.9	27.0	35.6	26.7	6.2	9.2	7.2	30.3	28	5	26
Deltapine DP 2012 B3XF	550	23.4	25.8	39.2	28.2	4.6	8.8	7.5	23.9	50	5	25
FiberMax FM 1730GLTP	549	23.1	25.7	39.9	29.5	5.2	9.2	8.4	24.9	57	5	22
Brownfield Seed and Delinting BS&D Ton Buster Magnum	532	23.0	33.5	35.6	24.6	5.5	11.2	7.5	25.9	33	6	23
Brownfield Seed and Delinting BS&D 224	530	21.5	27.9	35.7	25.9	5.4	10.0	7.0	27.3	35	6	23
PhytoGen PHY 400 W3FE	521	23.9	26.8	39.3	27.9	4.7	8.5	7.6	24.1	42	5	19
NexGen NG 4190 B3XF	481	24.0	25.7	41.1	29.2	5.3	9.6	8.3	26.3	33	5	29
Seed Source Genetics SSG UA 107	466	23.4	29.8	39.4	28.7	6.1	10.8	8.3	29.1	28	5	28
Brownfield Seed and Delinting BS&D 4X	450	22.7	29.3	34.8	25.5	6.2	11.2	7.5	29.2	30	7	21
IST International Seed Technology BRS 293	438	20.4	33.4	32.5	23.8	5.9	11.7	6.8	28.5	27	4	24
PhytoGen PHY 764 WRF	404	20.7	27.1	35.8	25.5	5.1	10.4	7.5	24.1	42	3	24
Brownfield Seed and Delinting BS&D Ton Buster Elite	362	20.3	32.0	33.8	24.3	5.3	10.5	6.3	28.1	27	6	26
NexGen NG 4936 B3XF	351	23.2	26.4	36.8	27.4	5.4	9.7	7.4	27.1	27	4	24
NexGen NG 5711 B3XF	305	21.8	26.1	36.1	26.4	4.6	9.1	6.5	25.8	30	5	24
Mean	597	24.0	28.5	38.3	27.9	5.3	9.7	8.0	25.6	41	5	25
c.v.%	13.7	4.5	7.2	1.8	2.5	5.2	4.1	4.4	5.7	20.6	14.1	9.4
LSD 0.05	95	1.3	2.4	1.1	1.2	0.5	0.7	0.6	2.5	12	1	3

Table 3A. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
Deltapine DP 2123 B3XF	4.1	1.12	80.6	30.1	5.7	80.7	7.7	21-2,31-1	3
FiberMax FM 2498GLT	4.1	1.09	80.3	29.7	6.0	82.4	7.4	21-2	2
FiberMax FM 1621GL	3.8	1.11	81.5	31.8	5.7	80.4	7.2	31-1	3
Deltapine DP 2127 B3XF	4.4	1.08	80.6	27.3	6.4	81.7	7.7	21-1	1
PhytoGen PHY 411 W3FE	4.0	1.04	79.3	30.0	6.6	80.2	7.5	21-2,31-1	3
Stoneville ST 4993B3XF	4.1	1.09	81.5	31.5	6.9	81.3	8.0	21-1,21-2	2
Deltapine DP 2044 B3XF	3.4	1.12	79.0	31.5	6.3	80.2	7.8	31-1	3
PhytoGen PHY 250 W3FE	3.5	1.08	80.2	30.5	5.7	81.9	7.3	21-1,31-1	2
Stoneville ST 5707B2XF	4.0	1.11	81.4	33.0	6.6	80.2	8.3	21-2	3
NexGen NG 4098 B3XF	3.9	1.14	81.0	32.7	6.3	79.9	7.8	31-1	3
PhytoGen PHY 205 W3FE	3.7	1.07	81.2	31.4	5.8	81.3	7.6	21-2	3
NexGen NG 3299 B3XF	4.0	1.10	80.5	31.1	6.3	81.5	8.1	21-1	2
Brownfield Seed and Delinting BS&D 9X	3.7	1.08	80.5	31.7	6.1	80.9	7.7	21-1,31-1	2
PhytoGen PHY 332 W3FE	3.8	1.12	80.5	29.9	6.8	80.2	8.0	21-1,31-1	3
FiberMax FM 1830GLT	3.9	1.14	80.8	31.8	5.7	81.9	7.3	21-2	1
DynaGro DG 3520 B3XF	3.6	1.18	82.7	33.2	6.7	81.3	7.5	21-2,31-1	2
PhytoGen PHY 350 W3FE	4.0	1.10	80.9	30.0	6.8	80.5	8.0	21-1,31-1	3
FiberMax FM 2398GLTP	4.1	1.08	80.2	29.2	6.1	81.3	8.0	21-1,31-1	2
Deltapine DP 1646 B2XF	3.8	1.13	80.4	28.6	7.3	82.2	7.7	21-1	3
Deltapine DP 2020 B3XF	3.9	1.15	81.6	30.3	5.8	81.8	7.8	21-1,21-2	2
IST International Seed Technology BRS 335	4.2	1.04	79.9	27.5	6.1	81.7	7.5	21-1,21-2	2
PhytoGen PHY 394 W3FE	3.5	1.11	79.2	29.4	6.1	81.2	7.3	31-1	2
Deltapine DP 2022 B3XF	3.6	1.08	79.6	28.5	5.6	81.1	7.1	31-1	3
PhytoGen PHY 210 W3FE	3.8	1.09	81.5	30.3	5.8	81.9	7.3	21-2	3
PhytoGen PHY 443 W3FE	3.8	1.06	80.5	29.7	6.2	80.2	8.0	31-1	2
NexGen NG 3930 B3XF	3.2	1.12	80.3	28.8	6.5	80.0	7.9	31-1	4
PhytoGen PHY 545 W3FE	3.9	1.06	80.4	29.6	6.8	80.8	7.9	21-2	3
IST International Seed Technology BRS 286	4.0	1.05	79.9	30.7	6.2	80.8	7.8	21-2	2
PhytoGen PX3E33W3FE	3.9	1.07	79.4	29.8	6.6	80.8	8.3	21-1,21-2	3
NexGen NG 3195 B3XF	3.9	1.09	79.7	28.2	6.1	81.1	7.7	21-1,21-2	2

Table 3A, cont. Fiber quality data from the irrigated uniform cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
NexGen NG 4050 XF	3.3	1.09	79.3	30.3	6.7	80.9	7.6	21-1,31-1	4
NexGen NG 5150 B3XF	4.2	1.10	79.8	27.8	6.3	81.3	7.9	21-1,21-2	2
Deltapine DP 2115 B3XF	4.2	1.06	80.9	28.6	6.8	80.9	7.9	21-1,31-1	2
Stoneville ST 4550GLTP	3.9	1.09	81.1	31.4	7.1	80.4	8.2	21-1,21-2	2
Seed Source Genetics SSG UA 222	4.0	1.11	80.7	30.0	7.7	80.5	7.9	21-2,31-1	3
Stoneville ST 5600B2XF	4.5	1.08	80.8	30.6	6.8	80.0	8.7	21-1	2
Deltapine DP 2012 B3XF	3.6	1.09	80.2	28.8	5.7	80.9	7.7	21-2,31-1	3
FiberMax FM 1730GLTP	3.6	1.14	81.6	32.2	5.8	81.3	7.2	31-1	3
Brownfield Seed and Delinting BS&D Ton Buster Magnum	3.6	1.07	79.2	28.4	6.1	81.6	7.8	21-1,21-2	2
Brownfield Seed and Delinting BS&D 224	3.4	1.07	79.7	30.2	5.9	82.2	7.5	21-1,21-2	2
PhytoGen PHY 400 W3FE	3.4	1.07	79.7	29.8	6.2	80.4	7.7	21-2,31-1	4
NexGen NG 4190 B3XF	3.7	1.09	79.5	28.1	6.5	81.4	7.9	21-1	1
Seed Source Genetics SSG UA 107	4.1	1.11	81.0	31.0	6.6	81.1	7.8	21-1,21-2	2
Brownfield Seed and Delinting BS&D 4X	3.7	1.04	79.2	27.5	5.7	81.9	8.0	21-1	1
IST International Seed Technology BRS 293	3.7	1.21	81.4	33.6	5.5	81.6	7.6	21-1,31-1	3
PhytoGen PHY 764 WRF	4.0	1.09	81.1	32.0	6.6	80.3	8.2	21-1,21-2	2
Brownfield Seed and Delinting BS&D Ton Buster Elite	3.7	1.05	80.6	28.2	6.7	81.1	8.1	21-1	2
NexGen NG 4936 B3XF	4.0	1.13	81.1	29.9	7.0	81.7	7.7	21-2	3
NexGen NG 5711 B3XF	3.5	1.07	80.2	28.8	7.1	80.4	9.0	11-2,21-1	2
Mean	3.8	1.09	80.4	30.1	6.3	81.0	7.8		2
c.v.%	7.0	1.6	1.0	2.7	2.9	0.8	2.8		29.9
LSD 0.05	0.4	0.03	1.3	1.4	0.3	1.1	0.4		1

Table 4. Yield and agronomic property data from the water limited uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	5-Oct	Rating	
Brownfield Seed and Delinting BS&D 9X	729	24.6	31.7	35.6	25.7	5.7	10.5	6.9	29.2	59	5	24
FiberMax FM 1621GL	728	27.6	25.9	40.6	29.8	5.3	9.2	8.6	25.2	58	7	24
Seed Source Genetics SSG UA 222	709	23.2	32.4	35.7	27.4	5.4	10.5	7.0	27.8	56	4	25
Deltapine DP 2012 B3XF	665	28.1	27.9	38.8	28.1	4.6	8.2	6.7	26.6	50	4	26
FiberMax FM 2498GLT	665	27.4	32.2	38.8	28.4	6.2	10.4	7.8	30.6	53	5	26
PhytoGen PX3E33W3FE	658	25.4	28.7	35.9	24.0	5.0	9.0	6.1	29.3	46	5	28
Deltapine DP 2020 B3XF	635	27.8	29.2	37.0	26.3	4.9	8.6	6.7	27.2	46	5	25
FiberMax FM 2398GLTP	631	27.8	27.8	39.3	28.3	5.7	9.8	7.6	29.4	44	5	24
PhytoGen PHY 400 W3FE	629	25.6	27.5	37.8	26.6	4.6	8.6	6.4	26.9	44	5	24
IST International Seed Technology BRS 286	626	24.6	32.6	34.5	25.4	5.2	10.2	6.3	28.6	64	2	29
PhytoGen PHY 205 W3FE	601	24.5	31.3	37.9	25.7	4.6	9.1	7.0	25.0	60	8	21
NexGen NG 4098 B3XF	599	24.9	33.3	36.0	26.1	5.5	10.1	6.7	29.6	38	3	22
Brownfield Seed and Delinting BS&D 4X	594	23.7	35.1	34.8	25.2	5.4	9.9	6.3	29.9	58	6	24
Brownfield Seed and Delinting BS&D 224	587	23.6	29.7	33.7	22.7	5.5	9.9	6.2	29.9	50	4	26
PhytoGen PHY 411 W3FE	584	27.1	23.8	39.4	28.2	4.3	8.2	8.0	21.6	61	4	25
PhytoGen PHY 332 W3FE	581	24.2	30.0	35.1	24.8	5.2	9.4	6.5	28.6	48	5	26
Stoneville ST 4550GLTP	578	26.7	24.7	38.5	28.0	4.6	8.5	7.1	25.2	49	4	27
PhytoGen PHY 394 W3FE	575	23.5	27.1	33.9	24.1	5.5	9.4	6.5	28.6	44	5	23
PhytoGen PHY 443 W3FE	575	24.3	28.4	37.0	25.1	5.1	10.1	7.2	26.1	48	4	27
NexGen NG 3299 B3XF	566	28.3	27.6	38.5	27.7	5.2	9.4	7.5	27.0	49	4	27
Deltapine DP 2044 B3XF	562	26.8	32.8	37.1	27.8	5.4	10.1	6.9	28.7	45	4	23
Stoneville ST 5707B2XF	557	24.9	34.9	36.1	26.9	5.7	10.8	6.9	30.0	44	3	30
Deltapine DP 2123 B3XF	550	24.0	30.0	34.5	26.1	5.7	9.4	6.2	31.7	54	4	23
PhytoGen PHY 545 W3FE	549	27.4	26.0	37.6	26.3	4.9	8.9	7.1	25.9	35	3	25
FiberMax FM 1830GLT	547	27.0	25.2	39.2	28.7	5.4	9.5	7.2	29.0	50	5	29
Seed Source Genetics SSG UA 107	544	26.3	31.7	36.1	26.0	5.4	10.2	6.8	28.8	54	2	28
PhytoGen PHY 210 W3FE	542	24.5	28.6	38.4	26.0	4.7	9.3	7.4	24.5	66	7	20
IST International Seed Technology BRS 335	538	23.0	31.8	33.4	25.8	5.6	10.3	6.1	30.6	51	4	28
PhytoGen PHY 250 W3FE	535	23.3	29.2	36.3	23.6	5.0	9.3	6.6	27.5	59	6	23
PhytoGen PHY 350 W3FE	529	24.8	28.9	34.7	24.6	5.0	9.9	6.5	26.6	43	5	24

Table 4. cont. Yield and agronomic property data from the water limited uniform cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties						% Open				
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 5-Oct	Storm Rating	
		Lint	Seed	Picked	Pulled						Height	
DynaGro DG 3520 B3XF	522	28.1	36.2	34.5	25.9	5.1	11.2	6.7	26.4	31	5	24
Brownfield Seed and Delinting BS&D Ton Buster Magnum	522	21.6	33.7	34.5	25.0	4.7	9.7	6.3	26.0	59	6	25
FiberMax FM 1730GLTP	520	24.9	29.1	37.6	26.8	5.6	9.2	7.3	28.9	65	5	22
DeltaPine DP 1646 B2XF	519	30.4	31.3	40.8	30.2	4.3	7.8	6.7	26.5	39	4	29
Stoneville ST 4993B3XF	517	26.8	27.5	40.2	28.5	5.0	9.3	7.6	26.5	40	5	29
NexGen NG 4190 B3XF	514	26.7	25.3	36.1	26.5	4.9	9.3	6.5	27.1	45	3	26
Stoneville ST 5600B2XF	511	27.3	29.1	36.9	27.5	5.7	9.6	7.1	30.1	30	3	26
NexGen NG 5150 B3XF	510	28.2	29.9	38.2	28.1	5.1	8.6	6.9	28.4	33	3	26
DeltaPine DP 2127 B3XF	497	28.5	27.1	38.0	27.3	5.3	9.7	7.4	26.9	41	5	27
NexGen NG 3930 B3XF	488	23.6	31.2	34.5	25.3	5.0	8.7	6.1	28.0	59	5	23
NexGen NG 4050 XF	485	26.8	29.0	38.5	28.2	5.9	9.3	6.9	32.8	49	5	25
NexGen NG 3195 B3XF	460	25.6	25.6	39.8	29.0	4.9	9.8	8.5	22.9	51	4	26
NexGen NG 4936 B3XF	456	27.4	28.6	35.0	26.4	5.2	9.5	6.1	29.9	39	4	25
DeltaPine DP 2022 B3XF	449	24.6	37.2	33.0	24.5	5.4	10.5	6.2	28.8	49	3	23
DeltaPine DP 2115 B3XF	445	27.0	23.3	39.0	27.7	4.9	8.9	7.5	25.5	49	5	25
IST International Seed Technology BRS 293	437	21.8	35.4	28.8	20.4	5.5	11.0	5.1	30.8	53	3	26
PhytoGen PHY 764 WRF	366	22.7	30.3	35.5	25.7	4.8	9.7	6.3	27.1	51	3	24
Brownfield Seed and Delinting BS&D Ton Buster Elite	337	22.6	29.5	32.6	22.2	5.4	10.1	6.0	29.3	46	5	29
NexGen NG 5711 B3XF	329	26.6	26.1	39.2	26.0	4.6	8.4	6.1	29.0	26	4	27
Mean	548	25.6	29.6	36.6	26.3	5.2	9.5	6.8	27.9	48	4	25
c.v.%	17.7	4.2	7.7	1.9	2.7	6.6	4.1	4.7	6.7	19.4	15.5	10.7
LSD 0.05	113	1.3	2.7	1.2	1.2	0.6	0.7	0.5	3.1	11	1	3

Table 4A. Fiber quality data from the water limited uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
Brownfield Seed and Delinting BS&D 9X	3.7	1.07	79.8	29.0	5.7	82.2	7.7	21-1,21-2	3
FiberMax FM 1621GL	3.4	1.06	78.3	27.1	5.5	80.5	7.8	31-1	4
Seed Source Genetics SSG UA 222	3.2	1.10	78.7	28.1	7.1	80.4	7.8	21-2,31-1	4
Deltapine DP 2012 B3XF	4.1	1.05	78.5	25.9	5.4	81.8	7.9	21-1	2
FiberMax FM 2498GLT	3.4	1.08	78.7	25.5	5.5	82.6	7.6	21-1	3
PhytoGen PX3E33W3FE	3.6	1.06	78.7	26.9	6.1	79.8	8.4	21-2,31-1	3
Deltapine DP 2020 B3XF	3.8	1.08	79.3	26.0	5.6	81.6	8.1	21-1	2
FiberMax FM 2398GLTP	4.0	1.06	79.3	27.7	5.5	80.9	7.8	21-1,31-1	2
PhytoGen PHY 400 W3FE	3.4	1.04	78.3	26.1	6.1	80.5	7.7	21-2,31-1	3
IST International Seed Technology BRS 286	3.5	1.02	78.6	27.6	5.6	81.2	7.9	21-2	2
PhytoGen PHY 205 W3FE	3.1	1.00	78.4	28.6	5.7	81.2	7.9	21-1,21-2	3
NexGen NG 4098 B3XF	3.1	1.12	77.2	29.3	5.7	79.4	7.7	31-1	5
Brownfield Seed and Delinting BS&D 4X	3.0	1.05	78.1	26.2	5.5	81.9	8.3	11-2,21-2	2
Brownfield Seed and Delinting BS&D 224	3.2	1.07	78.8	29.0	5.3	81.2	7.6	21-1,21-2	2
PhytoGen PHY 411 W3FE	4.1	1.02	78.2	26.7	6.1	80.5	8.1	21-1,31-1	3
PhytoGen PHY 332 W3FE	3.6	1.04	78.2	25.5	6.1	79.7	8.4	21-2	3
Stoneville ST 4550GLTP	4.2	1.02	80.8	28.7	7.0	80.3	8.3	21-1,21-2	3
PhytoGen PHY 394 W3FE	3.2	1.10	78.1	28.3	5.7	80.7	7.2	31-1	4
PhytoGen PHY 443 W3FE	3.8	1.02	78.3	27.7	6.3	79.2	8.4	21-2	3
NexGen NG 3299 B3XF	4.4	1.04	79.5	29.1	6.0	81.1	8.1	21-1	2
Deltapine DP 2044 B3XF	3.2	1.11	76.9	26.9	5.5	80.7	8.1	21-1	4
Stoneville ST 5707B2XF	3.9	1.06	79.8	29.8	6.3	80.3	8.5	21-2,21-2	2
Deltapine DP 2123 B3XF	3.7	1.07	78.2	26.2	5.5	80.7	7.9	21-2	2
PhytoGen PHY 545 W3FE	4.1	0.99	78.6	26.1	6.5	80.8	8.2	21-1,31-1	3
FiberMax FM 1830GLT	4.2	1.09	79.1	27.9	5.4	82.2	7.5	21-1,21-2	3
Seed Source Genetics SSG UA 107	4.4	1.07	79.6	28.1	6.2	80.7	8.2	21-1	2
PhytoGen PHY 210 W3FE	3.1	1.08	79.8	27.7	5.4	81.3	7.7	211,21-2	2
IST International Seed Technology BRS 335	3.7	1.07	79.3	27.8	5.8	81.7	7.5	21-2	3
PhytoGen PHY 250 W3FE	3.3	1.08	79.9	27.7	5.0	81.5	7.6	21-1	3
PhytoGen PHY 350 W3FE	4.0	1.03	79.5	27.4	6.3	81.1	8.0	21-1,21-2	3

Table 4A, cont. Fiber quality data from the water limited uniform cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
DynaGro DG 3520 B3XF	3.7	1.11	81.2	31.1	7.4	81.1	7.7	21-1,21-2	3
Brownfield Seed and Delinting BS&D Ton Buster Magnum	3.2	1.04	78.3	25.9	5.7	80.9	8.4	21-1	2
FiberMax FM 1730GLTP	3.4	1.15	80.6	31.3	5.4	80.7	7.7	21-2,31-1	3
Deltapine DP 1646 B2XF	3.9	1.04	77.6	25.0	6.5	82.2	8.1	21-1	2
Stoneville ST 4993B3XF	4.2	1.04	79.8	30.4	6.4	81.7	8.1	21-1	1
NexGen NG 4190 B3XF	4.3	1.05	80.0	25.6	6.1	81.7	8.0	21-1,21-2	2
Stoneville ST 5600B2XF	4.5	1.03	79.5	28.2	6.5	79.4	8.5	21-1,31-1	2
NexGen NG 5150 B3XF	4.2	1.02	78.5	25.6	5.6	81.2	8.0	21-1,21-2	2
Deltapine DP 2127 B3XF	4.6	0.99	79.5	25.1	5.8	80.8	8.0	21-1,21-2	2
NexGen NG 3930 B3XF	2.9	1.08	78.0	27.2	6.3	80.5	8.4	21-1,21-2	3
NexGen NG 4050 XF	3.7	1.05	78.4	27.4	5.9	80.2	7.7	21-2,31-1	4
NexGen NG 3195 B3XF	3.8	1.07	78.7	27.4	5.8	80.8	7.7	21-1,31-1	1
NexGen NG 4936 B3XF	3.9	1.04	79.0	25.3	6.3	81.8	7.5	21-1,21-2	2
Deltapine DP 2022 B3XF	3.3	1.07	78.4	25.4	5.3	79.9	7.2	31-1	5
Deltapine DP 2115 B3XF	4.5	1.00	78.6	24.8	6.2	81.6	8.3	21-1	2
IST International Seed Technology BRS 293	3.2	1.16	77.1	28.0	5.3	82.2	7.6	21-1,21-2	3
PhytoGen PHY 764 WRF	3.3	1.04	78.2	29.9	6.2	80.0	8.2	21-2	3
Brownfield Seed and Delinting BS&D Ton Buster Elite	4.3	1.02	79.2	26.6	6.4	79.5	8.4	21-2,31-1	3
NexGen NG 5711 B3XF	3.8	0.99	77.1	24.7	6.2	80.8	8.3	21-1,21-2	3
Mean	3.7	1.05	78.8	27.3	5.9	80.9	7.9		2
c.v.%	8.6	2.4	1.2	4.9	2.8	0.6	2.4		31.6
LSD 0.05	0.5	0.04	1.5	2.3	0.3	0.8	0.3		1

Table 5. Yield summary over three locations of the uniform cotton variety performance tests conducted by Texas A&M AgriLife Research, 2021.

Designation	Average Yield	Lubbock Irr Rank	Lubbock dry Rank	Halfway Irr Rank
PhytoGen PHY 411 W3FE	773	1	15	5
PhytoGen PX3E33W3FE	765	2	6	29
PhytoGen PHY 205 W3FE	760	3	11	11
FiberMax FM 1621GL	750	9	2	3
PhytoGen PHY 332 W3FE	740	4	16	14
FiberMax FM 2498GLT	727	20	5	2
Seed Source Genetics SSG UA 222	701	8	3	35
Brownfield Seed and Delinting BS&D 9X	701	17	1	13
IST International Seed Technology BRS 286	694	6	10	28
PhytoGen PHY 443 W3FE	688	5	19	25
FiberMax FM 2398GLTP	668	15	8	18
Deltapine DP 2123 B3XF	667	33	23	1
Deltapine DP 2127 B3XF	655	14	39	4
PhytoGen PHY 400 W3FE	638	12	9	41
Deltapine DP 1646 B2XF	636	13	34	19
Stoneville ST 5707B2XF	634	23	22	9
NexGen NG 4098 B3XF	631	32	12	10
Brownfield Seed and Delinting BS&D 4X	630	7	13	44
Deltapine DP 2044 B3XF	626	29	21	7
Stoneville ST 4993B3XF	625	21	35	6
Deltapine DP 2012 B3XF	621	25	4	37
PhytoGen PHY 394 W3FE	620	22	18	22
Stoneville ST 4550GLTP	618	18	17	34
IST International Seed Technology BRS 335	617	19	28	21
Brownfield Seed and Delinting BS&D Ton Buster Magnum	612	10	32	39
NexGen NG 3299 B3XF	609	35	20	12
Deltapine DP 2020 B3XF	605	39	7	20
PhytoGen PHY 210 W3FE	603	24	27	24
PhytoGen PHY 350 W3FE	600	31	30	17
PhytoGen PHY 250 W3FE	598	37	29	8
Seed Source Genetics SSG UA 107	597	11	26	43
Deltapine DP 2022 B3XF	593	16	44	23
DynaGro DG 3520 B3XF	590	34	31	16
Brownfield Seed and Delinting BS&D 224	587	26	14	40
FiberMax FM 1830GLT	580	40	25	15
NexGen NG 5150 B3XF	574	30	38	32
FiberMax FM 1730GLTP	569	27	33	38
Stoneville ST 5600B2XF	566	28	37	36
NexGen NG 3930 B3XF	551	38	40	26
NexGen NG 3195 B3XF	546	36	42	30
PhytoGen PHY 545 W3FE	545	43	24	27
NexGen NG 4050 XF	520	44	41	31
NexGen NG 4190 B3XF	498	41	36	42
Deltapine DP 2115 B3XF	495	45	45	33
IST International Seed Technology BRS 293	455	42	46	45
NexGen NG 4936 B3XF	424	46	43	48
PhytoGen PHY 764 WRF	407	47	47	46
Brownfield Seed and Delinting BS&D Ton Buster Elite	371	48	48	47
NexGen NG 5711 B3XF	349	49	49	49

Notes

Table 6. Yield and agronomic property data for the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties								% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11-Nov	Rating	Height	
PhytoGen PHY 443 W3FE	706	21.1	34.5	37.2	27.5	5.6	10.6	7.5	27.8	66	4	38	
PhytoGen PHY 332 W3FE	701	21.9	33.3	38.6	28.8	5.6	9.8	7.6	28.8	61	5	35	
PhytoGen PHY 205 W3FE	630	23.7	33.3	37.6	27.6	5.4	10.7	7.8	26.4	78	7	30	
PhytoGen PX1125A221-04W3FE	615	22.5	33.2	39.6	30.1	5.3	9.8	7.6	27.3	66	5	33	
PhytoGen PHY 400 W3FE	603	22.1	32.2	43.7	32.8	5.2	10.0	8.7	25.9	61	5	30	
PhytoGen PHY 411 W3FE	576	21.0	27.2	38.6	28.8	4.4	8.8	8.0	21.5	75	5	34	
NexGen NG 3299 B3XF	562	24.3	31.4	41.5	31.7	5.1	9.5	8.8	24.0	68	7	35	
Brownfield Seed and Delinting 4X	562	20.2	34.6	35.4	26.6	5.9	11.6	7.5	28.0	43	7	35	
Brownfield Seed and Delinting BS&D Ton Buster Magnum	538	20.7	35.5	34.0	24.9	5.3	11.7	7.2	24.7	63	4	33	
FiberMax FM 1621GL	533	23.4	29.4	38.1	29.1	5.6	9.8	8.7	24.8	54	7	30	
FiberMax FM 1730GLTP	520	23.6	32.0	37.9	28.9	5.4	9.6	7.5	27.1	70	5	29	
Deltapine DP 2012 B3XF	518	23.7	36.3	39.0	28.3	4.1	8.6	6.8	23.4	73	4	34	
PhytoGen PX3E33W3FE	518	22.9	31.7	39.0	28.7	5.3	9.6	7.5	27.3	50	6	33	
NexGen NG 4098 B3XF	497	20.8	33.0	36.7	27.8	5.6	10.2	7.5	27.0	49	4	31	
PhytoGen PX1140A383-04W3FE	495	20.6	33.3	37.7	28.1	4.6	9.6	7.4	23.5	63	5	34	
22	NexGen NG 3930 B3XF	484	21.4	33.7	37.4	28.0	4.8	9.3	7.3	24.5	78	4	31
	PhytoGen PHY 250 W3FE	484	21.0	32.0	34.8	27.0	4.9	10.1	7.0	24.0	69	5	31
	NexGen NG 4190 B3XF	472	19.0	30.9	37.9	28.2	4.5	9.8	7.2	23.4	56	3	34
	PhytoGen PHY 210 W3FE	470	20.9	29.6	36.7	26.2	5.0	10.2	7.5	24.3	70	6	30
	Brownfield Seed and Delinting 9X	460	20.6	34.2	37.2	27.2	5.5	11.1	7.8	26.4	64	5	32
NexGen NG 3195 B3XF	460	21.2	29.0	38.0	28.7	4.8	8.6	7.9	22.8	66	5	33	
	Deltapine DP 1822 XF	451	22.1	30.4	36.1	28.1	5.0	10.5	7.3	24.3	74	5	34
	PhytoGen PX1130A329-04W3FE	445	24.1	29.7	39.7	29.0	4.6	8.9	8.4	21.9	69	4	32
	PhytoGen PX1122A214-04W3FE	443	22.1	30.7	37.2	27.1	4.4	10.4	7.5	21.9	75	6	30
	PhytoGen PX1122A213-04W3FE	435	19.0	32.6	36.4	25.9	4.6	10.4	7.2	23.4	68	7	30
Deltapine DP 1908 B3XF	419	19.9	32.6	37.1	27.6	4.5	9.0	6.6	25.4	75	4	32	
	NexGen NG 4050 XF	412	20.8	34.2	39.0	29.5	5.7	10.1	8.4	26.5	46	5	36
	Deltapine DP 2115 B3XF	389	21.4	25.7	36.8	27.2	4.7	8.6	7.0	24.4	65	6	30
	PhytoGen PX1124A222-04W3FE	372	19.7	30.3	37.7	28.5	5.6	10.5	7.9	26.7	58	6	30
	Brownfield Seed and Delinting 224	365	18.1	32.4	36.0	27.1	5.7	11.0	7.3	28.0	54	5	34
Brownfield Seed and Delinting BS&D Ton Buster Elite	345	18.7	34.5	34.0	24.7	5.3	10.9	6.6	27.3	55	4	32	
	PhytoGen PHY 394 W3FE	339	15.7	24.5	36.1	26.6	5.6	9.9	7.5	27.1	45	6	29
	PhytoGen PX1140A385-04W3FE	269	18.0	25.3	40.3	29.9	4.9	9.7	8.3	23.7	41	5	31
Mean	487	21.1	31.6	37.6	28.0	5.1	9.9	7.6	25.2	63	5	32	
c.v.%	20.9	4.7	7.3	1.3	2.3	4.6	4.1	3.6	4.7	22.4	20.6	5.1	
LSD 0.05	120	1.2	2.7	0.8	1.1	0.4	0.7	0.5	2.0	16	1	2	

Table 6A. Fiber quality data from the irrigated late planted cotton variety performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
PhytoGen PHY 443 W3FE	3.6	1.10	80.9	31.1	6.7	80.6	8.4	21-1	2
PhytoGen PHY 332 W3FE	3.8	1.16	81.6	32.6	7.2	81.9	8.4	11-2,21-1	2
PhytoGen PHY 205 W3FE	4.5	1.07	82.0	32.5	6.1	80.4	8.0	21-2	2
PhytoGen PX1125A221-04W3FE	4.6	1.05	82.1	33.0	6.6	79.8	8.4	21-1,31-1	3
PhytoGen PHY 400 W3FE	4.0	1.12	81.8	32.6	6.9	81.5	8.3	21-1	3
PhytoGen PHY 411 W3FE	3.8	1.11	81.3	30.0	7.1	82.3	7.6	21-1,21-2	3
NexGen NG 3299 B3XF	4.0	1.12	81.9	32.6	6.7	81.9	8.2	21-1	2
Brownfield Seed and Delinting 4X	3.4	1.12	80.5	31.3	6.1	81.7	8.0	21-1	2
Brownfield Seed and Delinting BS&D Ton Buster Magnum	3.5	1.07	79.8	28.4	6.5	80.7	8.6	21-1	2
FiberMax FM 1621GL	3.8	1.09	81.3	31.0	5.9	80.2	8.1	21-1,31-1	3
FiberMax FM 1730GLTP	3.8	1.14	81.9	32.1	6.2	82.8	7.8	11-2,21-2	2
Deltapine DP 2012 B3XF	3.5	1.13	80.7	29.8	6.3	82.3	8.0	11-1,21-1	2
PhytoGen PX3E33W3FE	3.7	1.16	80.7	33.7	7.1	80.1	8.3	21-1,31-1	2
NexGen NG 4098 B3XF	3.2	1.16	81.1	33.7	6.9	80.2	8.1	21-1,31-1	3
PhytoGen PX1140A383-04W3FE	3.6	1.14	81.8	34.2	6.9	80.8	8.2	21-1,21-2	3
NexGen NG 3930 B3XF	4.1	1.10	81.1	29.1	6.6	80.7	8.5	21-1	3
PhytoGen PHY 250 W3FE	3.8	1.11	82.0	30.5	6.1	82.0	7.6	21-1,21-2	3
NexGen NG 4190 B3XF	3.1	1.10	80.7	30.7	6.9	82.0	7.8	21-1,21-2	2
PhytoGen PHY 210 W3FE	3.9	1.09	81.6	31.6	6.1	81.3	7.6	21-2	5
Brownfield Seed and Delinting 9X	3.8	1.08	80.7	30.5	6.1	82.2	7.9	21-1	2
NexGen NG 3195 B3XF	3.7	1.10	81.5	29.7	6.9	81.8	8.4	11-2,21-1	2
Deltapine DP 1822 XF	3.9	1.16	81.6	34.0	6.6	81.0	7.9	21-1,21-2	2
PhytoGen PX1130A329-04W3FE	3.7	1.08	81.4	31.7	7.5	80.2	8.6	21-1,21-2	2
PhytoGen PX1122A214-04W3FE	3.9	1.09	80.8	32.0	6.6	80.9	8.0	21-1,21-2	3
PhytoGen PX1122A213-04W3FE	3.4	1.12	80.3	31.1	6.8	81.8	7.2	21-2,31-1	3
Deltapine DP 1908 B3XF	3.8	1.15	81.1	32.4	6.1	83.7	7.0	21-1	2
NexGen NG 4050 XF	3.5	1.15	81.2	32.2	7.0	79.9	8.4	21-2	3
Deltapine DP 2115 B3XF	3.4	1.10	80.4	29.4	7.4	81.2	8.3	21-1	1
PhytoGen PX1124A222-04W3FE	3.9	1.06	81.4	30.6	6.2	80.6	8.6	21-1	3
Brownfield Seed and Delinting 224	3.2	1.11	80.5	31.1	6.3	81.5	7.8	21-1,21-2	2
Brownfield Seed and Delinting BS&D Ton Buster Elite	3.7	1.07	80.4	29.8	7.0	80.9	8.5	21-1	2
PhytoGen PHY 394 W3FE	3.1	1.13	80.4	30.5	6.4	79.8	7.9	21-2,31-1	4
PhytoGen PX1140A385-04W3FE	3.4	1.06	80.5	31.4	7.9	80.9	8.2	21-1,21-2	4
Mean	3.6	1.11	81.1	31.4	6.6	81.2	8.1		2
c.v.%	9.8	1.8	0.9	3.0	3.8	1.3	4.5		37.4
LSD 0.05	0.6	0.03	1.3	1.6	0.4	1.8	0.6		1

Table 7. Yield and agronomic property data from the irrigated new variety and strains cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	25-Oct	Rating	
PhytoGen PX1150A453-04W3FE	975	26.7	29.3	41.5	30.3	5.2	9.3	10.8	20.0	51	5	34
PhytoGen PHY 411 W3FE	943	27.7	31.7	41.7	30.0	4.4	8.5	9.1	20.1	59	5	34
PhytoGen PX 3E33W3FE	931	27.2	35.2	42.1	29.9	5.7	8.9	8.5	28.0	58	6	35
PhytoGen PHY 332 W3FE	903	27.8	35.0	40.7	30.6	5.7	9.6	8.8	26.3	56	6	33
PhytoGen PHY 205 W3FE	854	27.4	35.2	39.0	27.9	5.5	10.1	8.3	25.7	63	8	28
PhytoGen PX1140A383-04W3FE	726	24.9	35.1	41.3	30.1	4.9	10.0	8.4	23.6	50	6	33
PhytoGen PX1150A450-04W3FE	713	26.4	32.0	41.0	29.4	4.5	8.8	8.5	21.5	49	6	37
Deltapine DP 2143NR B3XF	691	27.1	31.8	39.7	29.3	4.6	8.6	8.6	21.4	55	4	35
Deltapine DP 2123 B3XF	685	27.8	39.4	37.6	29.4	5.3	9.8	8.2	24.1	59	4	30
PhytoGen PX1130A329-04W3FE	656	26.8	30.1	43.0	31.2	4.8	8.4	9.1	22.4	49	5	31
BASF BX2296B3XF	643	30.2	31.7	42.0	31.3	4.3	8.5	9.4	19.2	53	5	32
BASF BX2298B3XF	638	28.1	34.2	40.7	30.1	4.7	8.5	8.2	23.5	58	5	34
Bayer 20R732B3XF	618	29.0	37.7	39.4	29.4	5.7	10.6	8.9	25.5	58	5	30
PhytoGen PX1125A221-04W3FE	617	26.8	34.8	40.7	29.4	5.0	9.4	8.1	25.2	53	5	31
Deltapine DP 2127 B3XF	616	27.2	35.0	42.4	31.5	5.2	9.9	9.1	24.1	55	4	34
PhytoGen PHY 394 W3FE	612	24.4	32.0	38.3	26.3	5.0	9.5	8.6	22.5	43	6	26
Bayer 20R727B3XF	599	29.3	35.4	41.3	30.4	4.8	9.7	8.9	22.0	58	5	29
PhytoGen PX1122A213-04W3FE	594	24.6	35.5	37.9	27.5	4.8	10.1	7.6	24.2	60	7	27
NexGen NG 4098 B3XF	592	27.0	37.9	41.2	31.7	5.9	10.4	9.1	26.7	49	5	30
NexGen NG 4190 B3XF	592	27.0	33.3	41.5	31.8	4.9	9.3	8.7	23.4	58	4	31
FiberMax FM 958	590	27.2	36.2	38.6	28.8	5.2	10.0	8.2	24.4	59	5	28
PhytoGen PX1122A214-04W3FE	587	27.5	36.6	38.4	27.3	4.6	9.7	8.7	20.1	61	6	26
NexGen 3299 B3XF	570	30.3	35.2	43.0	34.2	5.1	9.3	9.5	23.2	60	7	30
NexGen NG 3930 B3XF	552	26.4	37.1	38.8	28.8	4.7	9.2	7.8	23.1	58	6	30
NexGen NG 3195 B3XF	547	29.1	31.4	39.9	29.2	4.7	8.5	8.9	20.9	61	3	31
PhytoGen PX1150A452-04W3FE	538	26.8	26.3	42.9	35.2	4.0	7.9	9.0	19.0	50	6	31
PhytoGen PHY 210 W3FE	528	26.8	33.6	38.5	26.6	5.1	9.6	8.5	22.8	59	8	24
Bayer 20R739B3XF	524	28.0	36.8	38.9	29.0	4.6	10.0	8.2	22.0	56	5	28
PhytoGen PX1124A222-04W3FE	492	28.6	35.3	43.3	30.5	4.8	9.4	8.8	23.8	51	6	26
BASF BX2297B3XF	482	27.6	34.3	40.4	30.0	4.7	8.6	7.8	24.2	49	4	30

Table 7. cont. Yield and agronomic property data from the irrigated new variety and strains cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 25-Oct	Storm Rating	Height
		Lint	Seed	Picked	Pulled							
Stoneville ST 4595B3XF	479	27.3	31.8	40.5	30.1	5.1	8.7	8.4	24.5	54	6	27
NexGen NG 4050 XF	474	25.7	35.1	36.8	27.8	5.7	9.8	8.1	25.8	51	5	31
Bayer 20R744B3XF	445	27.6	31.9	44.0	32.6	4.7	8.4	9.3	22.2	56	4	30
Deltapine DP 2115 B3XF	445	26.7	31.1	40.7	29.5	4.7	8.2	9.0	21.3	59	6	30
NexGen NG 5150 B3XF	430	27.4	34.8	39.7	29.3	4.9	8.8	8.0	24.5	54	5	30
PhytoGen PX1140A385-04W3FE	419	25.7	27.7	39.1	27.8	4.2	8.7	7.9	20.9	48	6	31
Bayer 20R722NRB3XF	416	29.4	29.1	38.4	28.4	4.7	8.5	9.6	19.0	53	4	29
Mean	614	27.3	33.7	40.4	29.8	4.9	9.2	8.6	23.0	55	5	30
c.v.%	13.8	2.8	4.9	1.4	2.5	3.6	3.5	4.2	5.2	6.8	14.0	6.0
LSD 0.05	99	0.9	1.9	0.9	1.3	0.3	0.5	0.6	2.0	4	1	2

Table 7A. Fiber quality data from the irrigated new variety and strains cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
PhytoGen PX1150A453-04W3FE	4.5	1.09	81.9	33.6	6.2	81.5	7.7	21-2	3
PhytoGen PHY 411 W3FE	4.5	1.09	81.7	31.2	6.9	82.2	7.2	21-2,31-1	2
PhytoGen PX 3E33W3FE	4.2	1.13	80.0	31.4	6.8	82.4	8.0	11-2,21-1	2
PhytoGen PHY 332 W3FE	4.3	1.14	80.8	31.4	6.8	80.9	8.1	21-1	3
PhytoGen PHY 205 W3FE	4.6	1.06	81.9	31.1	5.9	81.4	7.4	21-2,31-1	3
PhytoGen PX1140A383-04W3FE	4.3	1.11	80.0	31.4	6.9	79.9	8.3	21-2	3
PhytoGen PX1150A450-04W3FE	4.4	1.11	82.2	31.6	7.3	81.0	7.9	21-1,21-2	1
Deltapine DP 2143NR B3XF	4.7	1.10	80.2	30.3	6.8	81.3	8.0	21-1	1
Deltapine DP 2123 B3XF	4.5	1.11	80.2	29.4	5.8	81.3	7.6	21-2	2
PhytoGen PX1130A329-04W3FE	4.8	1.10	81.1	31.8	6.9	80.7	8.1	21-1	3
BASF BX2296B3XF	4.3	1.13	81.8	29.2	7.0	82.1	7.8	21-1	1
BASF BX2298B3XF	4.4	1.04	80.5	28.5	6.5	81.5	7.9	21-1,21-2	1
Bayer 20R732B3XF	4.1	1.15	81.2	32.0	5.9	82.9	7.1	21-1,21-2	2
PhytoGen PX1125A221-04W3FE	4.7	1.06	80.8	31.5	6.4	80.4	8.0	21-1,31-1	3
Deltapine DP 2127 B3XF	4.6	1.07	81.5	28.0	6.4	82.0	7.6	21-1,21-2	2
PhytoGen PHY 394 W3FE	3.8	1.14	79.6	31.0	6.1	81.0	7.4	21-2,31-1	4
Bayer 20R727B3XF	4.2	1.11	80.9	31.0	5.9	81.6	7.2	21-2,31-1	3
PhytoGen PX1122A213-04W3FE	3.8	1.12	80.4	32.1	6.5	82.5	7.3	21-2	3
NexGen NG 4098 B3XF	4.0	1.12	79.2	32.5	6.5	80.4	7.6	21-2,31-1	3
NexGen NG 4190 B3XF	4.0	1.11	81.2	28.5	6.4	82.0	7.5	21-1,21-2	2
FiberMax FM 958	4.4	1.05	79.8	28.6	5.8	82.0	7.3	21-2	2
PhytoGen PX1122A214-04W3FE	4.1	1.07	80.6	31.5	6.3	82.1	7.2	21-1,31-1	3
NexGen 3299 B3XF	4.7	1.11	81.4	31.5	6.2	82.3	7.8	21-1	1
NexGen NG 3930 B3XF	4.2	1.10	81.2	28.3	6.4	81.3	8.2	21-1	2
NexGen NG 3195 B3XF	4.1	1.11	80.6	28.8	6.3	81.9	7.3	21-2	2
PhytoGen PX1150A452-04W3FE	4.4	1.07	80.4	30.9	6.2	80.5	7.5	21-2,31-1	3
PhytoGen PHY 210 W3FE	4.4	1.07	80.4	28.9	6.0	81.7	7.3	21-2,31-1	2
Bayer 20R739B3XF	3.9	1.08	79.8	29.7	5.7	80.8	7.3	31-1	3
PhytoGen PX1124A222-04W3FE	4.6	1.04	81.1	30.2	6.1	81.7	7.8	21-1,21-2	1
BASF BX2297B3XF	4.3	1.08	80.1	27.3	6.7	81.2	7.8	21-2	3

Table 7A, cont. Fiber quality data from the irrigated new variety and strains cotton performance test at Texas A&M AgriLife Research, Lubbock, 2021.

Designation	Micronarne	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
Stoneville ST 4595B3XF	4.2	1.10	80.4	28.4	6.8	80.8	7.5	21-2,31-1	3
NexGen NG 4050 XF	4.0	1.11	80.9	29.9	6.8	80.9	7.4	31-1	3
Bayer 20R744B3XF	3.9	1.07	79.9	28.8	6.6	81.6	7.4	21-1,31-1	3
Deltapine DP 2115 B3XF	4.5	1.08	80.7	29.2	6.8	81.2	7.8	21-2	3
NexGen NG 5150 B3XF	4.4	1.08	80.5	27.1	6.1	81.4	7.7	21-1,21-2	2
PhytoGen PX1140A385-04W3FE	4.5	1.03	81.7	31.6	7.5	79.5	8.4	21-2,31-1	2
Bayer 20R722NRB3XF	4.7	1.09	81.5	30.1	6.9	81.0	7.4	31-1	4
Mean	4.3	1.09	80.7	30.2	6.4	81.3	7.6		2
c.v.%	4.2	2.1	0.9	3.2	3.5	0.7	2.4		28.4
LSD 0.05	0.3	0.04	1.3	1.6	0.4	1.0	0.3		1

Table 8. Yield and agronomic property data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Yield	Agronomic Properties							% Open			% Defoliation			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	% Wilt	23-Sep	Waller	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	2-Nov	Rating	Height	31-Aug	Waller	
Deltapine DP 2123 B3XF	738	23.2	37.4	36.5	28.6	5.7	10.0	7.3	28.7	68	3	28	10.4	d-m	24.0 a-j
PhytoGen PX1122A214-04W3FE	699	21.3	29.2	39.0	27.2	4.9	10.1	8.1	23.9	71	7	27	17.0	c-j	26.9 a-g
PhytoGen PHY 210 W3FE	693	22.3	30.4	39.5	27.1	4.9	10.2	8.0	24.1	65	7	25	18.2	c-h	25.4 a-i
PhytoGen PX1122A213-04W3FE	680	21.9	33.2	39.7	28.5	5.3	10.9	8.8	24.1	71	6	27	6.1	klm	26.0 a-h
PhytoGen PHY 250 W3FE	653	21.6	32.4	39.8	27.8	5.0	10.1	7.9	25.4	66	6	26	20.2	b-e	23.6 a-j
NexGen NG 3930 B3XF	633	21.7	34.4	37.1	26.8	5.0	9.9	7.2	25.7	70	6	28	18.5	c-g	30.7 a-d
FiberMax FM 2334 GLT	621	22.7	30.7	40.0	28.7	5.0	9.6	8.7	23.3	54	5	27	4.0	lm	8.3 k
18-16-3507V	618	20.5	28.7	38.3	27.2	5.6	10.5	8.1	26.8	36	6	26	9.2	f-m	12.5 ijk
16-13-601V	607	21.5	38.2	33.3	23.9	6.0	12.6	7.4	27.0	53	5	29	7.4	i-m	19.5 b-k
Deltapine DP 2022 B3XF	596	23.5	36.9	36.9	27.1	5.6	11.7	7.7	26.6	59	4	26	17.4	c-i	16.3 f-k
Deltapine DP 1612	588	22.4	33.0	36.7	25.8	4.8	9.7	7.4	24.0	56	4	28	30.4	ab	36.1 a
PhytoGen PX3E33W3FE	578	22.7	33.4	38.6	27.6	5.0	9.9	7.8	24.9	60	7	24	11.5	d-m	21.1 b-k
FiberMax FM 2202GL	572	22.1	29.4	39.0	27.6	5.9	10.1	8.6	26.7	46	6	28	12.3	d-m	14.3 g-k
NexGen NG 4050 XF	570	21.8	30.5	38.0	27.5	5.7	10.0	8.0	26.9	46	4	28	15.9	c-k	20.3 b-k
PhytoGen PX1130A329-04W3FE	534	21.2	27.8	40.8	29.3	5.0	9.7	8.9	22.6	39	5	25	8.7	g-m	17.8 d-k
Brownfield Seed and Delinting BS&D 9X	529	20.1	36.5	36.1	26.7	5.7	11.0	7.3	27.8	45	4	28	10.5	d-m	16.8 f-k
PhytoGen PX1125A221-04W3FE	521	22.5	31.9	37.5	26.2	5.0	9.8	7.2	26.3	48	7	26	23.0	abc	32.3 ab
PhytoGen PHY 394 W3FE	518	21.3	31.8	38.9	27.4	5.6	10.5	8.4	25.7	45	6	25	10.1	e-m	14.0 g-k
Gowan Seed Company GS-1432	514	13.3	31.6	30.9	22.2	4.9	12.7	6.9	22.2	25	1	37	6.5	j-m	8.9 k
PhytoGen PHY 350 W3FE	514	20.3	32.6	36.1	24.8	5.1	10.8	7.6	24.3	50	5	28	16.5	c-k	18.8 c-k
Stoneville ST 4993B3XF	510	24.8	31.3	41.0	30.6	4.8	9.5	8.9	22.2	60	6	29	33.3	a	35.7 a
Brownfield Seed and Delinting BS&D 224	506	18.7	32.4	37.5	26.9	5.6	10.8	7.4	28.1	41	6	28	10.1	e-m	12.8 ijk
FiberMax FM 1730GLTP	495	21.3	33.3	38.3	28.3	5.4	10.0	8.0	25.6	51	6	26	8.6	g-m	13.0 h-k
PhytoGen PX1124A222-04W3FE	480	23.3	32.5	41.6	28.9	5.3	10.0	8.2	26.7	51	7	26	21.0	bcd	30.2 a-e
Stoneville ST 5091B3XF	475	20.5	30.7	38.5	28.3	5.4	9.6	7.5	27.4	40	6	31	6.0	klm	30.9 abc
Deltapine DP 2115 B3XF	463	20.4	28.0	40.0	28.2	5.1	9.1	8.2	25.1	68	5	24	20.4	b-e	17.0 f-k
Deltapine DP 2012 B3XF	456	21.3	32.3	38.9	28.2	4.5	9.1	7.1	24.6	56	5	28	10.0	e-m	22.2 b-j
PhytoGen PHY 205 W3FE	452	21.8	31.5	37.5	27.1	5.1	10.2	7.1	26.9	58	8	23	13.1	c-l	16.5 f-k
PhytoGen PHY 411 W3FE	452	23.6	30.0	38.9	27.4	4.5	8.3	7.8	22.2	43	5	27	6.6	j-m	17.8 d-k
BASF BX 2298 B3XF	448	21.1	30.3	38.9	28.0	4.6	9.1	7.3	24.4	53	5	30	17.0	c-j	29.0 a-f

Table 8, cont. Yield and agronomic property data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Yield	Agronomic Properties								% Open			% Defoliation			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	% Wilt	Waller	23-Sep	Waller	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	2-Nov	Rating	Height	31-Aug	Waller		
PhytoGen PX1150A453-04W3FE	439	20.8	25.8	39.2	28.0	4.6	9.0	8.9	20.3	35	5	27	11.5	d-m	11.6	jk
Gowan Seed Company GS-701	437	14.7	29.5	32.7	23.6	4.5	14.0	7.6	19.4	18	2	35	1.8	m	15.5	g-k
NexGen NG 3195 B3XF	433	20.2	28.9	36.4	25.7	4.8	9.6	7.6	23.0	49	4	28	19.2	c-f	25.4	a-i
PhytoGen PHY 332 W3FE	433	20.8	30.4	40.5	29.0	5.4	9.8	8.6	25.3	44	5	27	15.3	c-k	16.1	f-k
NexGen NG 4098 B3XF	426	21.7	33.1	37.3	27.0	5.6	11.1	8.0	25.8	38	4	25	12.0	d-m	17.2	f-k
FiberMax FM 2398GLTP	423	20.6	28.4	40.4	29.5	6.0	10.1	8.2	29.9	43	5	25	11.5	d-m	18.9	c-k
Deltapine DP 2020 B3XF	422	20.9	31.9	38.3	27.7	4.6	9.4	7.1	24.8	65	5	28	7.8	h-m	15.0	g-k
Stoneville ST 4595B3XF	419	20.1	31.7	37.6	27.4	4.9	9.3	7.2	25.2	38	5	24	16.7	c-j	19.6	b-k
NexGen NG 3299 B3XF	412	23.5	31.2	41.6	29.9	4.9	9.4	8.4	24.0	56	6	28	30.3	ab	28.6	a-f
BASF BX 2297 B3XF	377	20.6	29.3	41.7	30.1	4.7	9.4	8.3	23.4	41	4	25	13.8	c-l	13.8	h-k
PhytoGen PX1140A385-04W3FE	373	21.6	28.5	40.3	28.0	4.4	8.5	7.7	23.1	34	5	27	8.3	g-m	17.4	e-k
Brownfield Seed and Delinting BS&D Ton													14.6	c-l	14.0	
Buster Elite	367	16.7	31.9	34.4	24.2	4.5	10.8	6.4	24.5	37	5	26			g-k	
PhytoGen PX1140A383-04W3FE	362	19.8	30.3	38.2	26.8	4.4	9.2	7.0	24.1	38	5	26	8.2	g-m	16.3	f-k
PhytoGen PX1150A450-04W3FE	362	16.9	27.6	39.2	27.8	4.6	8.7	7.7	23.4	26	6	27	9.0	f-m	11.4	jk
PhytoGen PX1150A452-04W3FE	346	18.4	25.1	38.2	28.0	4.1	8.0	8.0	19.6	35	6	26	8.1	g-m	14.3	g-k
BASF BX 2296 B3XF	340	19.0	26.9	41.2	29.3	4.2	9.2	8.4	21.0	38	5	27	12.3	d-m	11.0	jk
Brownfield Seed and Delinting BS&D Ton													16.0	c-k	19.2	
Buster Magnum	319	20.5	35.7	35.9	26.2	5.6	11.3	7.2	28.1	36	6	26			c-k	
17-17-206V	292	15.4	33.7	31.1	21.8	5.4	11.3	6.0	28.2	42	5	26	12.2	d-m	15.0	g-k
Brownfield Seed and Delinting BS&D 4X	272	20.1	34.2	37.0	27.1	6.0	11.6	7.8	28.7	28	6	26	7.1	i-m	13.4	h-k
NexGen NG 4190 B3XF	272	17.1	29.9	35.4	25.7	4.5	10.1	6.6	24.2	35	4	30	13.1	c-l	16.1	f-k
NexGen NG 5711 B3XF	254	17.7	32.8	35.3	25.7	4.8	9.6	6.3	26.9	32	5	27	13.8	c-l	12.7	ijk
Mean	480	20.6	31.3	37.9	27.2	5.0	10.1	7.7	24.9	47	5	27	0.0001		0.0001	
c.v.%	21.9	6.9	7.1	1.7	2.6	4.5	3.8	4.8	3.7	20.1	15.3	6.8	10.6		4.0	
LSD 0.05	123	1.7	2.6	1.1	1.2	0.4	0.6	0.6	1.6	11	1	2				

Table 8A. Fiber quality data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
Deltapine DP 2123 B3XF	3.6	1.13	80.4	30.4	6.0	76.7	9.7	21-3,22-2	3
PhytoGen PX1122A214-04W3FE	3.2	1.09	80.4	31.6	6.6	76.7	9.4	31-3,32-1	4
PhytoGen PHY 210 W3FE	3.3	1.07	79.8	29.4	5.8	78.9	9.3	11-4,21-1	3
PhytoGen PX1122A213-04W3FE	3.3	1.11	81.4	32.5	6.9	78.1	8.6	21-1	2
PhytoGen PHY 250 W3FE	3.0	1.08	79.2	28.1	5.7	80.6	8.9	11-2,21-1	3
NexGen NG 3930 B3XF	3.3	1.10	80.8	28.6	6.7	74.7	10.4	22-2,32-1	4
FiberMax FM 2334 GLT	3.4	1.15	80.9	29.8	5.9	78.6	9.1	21-2,21-3	3
18-16-3507V	2.3	1.15	80.1	29.4	6.0	76.2	9.7	21-4,32-1	3
16-13-601V	3.7	1.15	82.4	32.6	6.4	78.9	9.1	11-2,21-4	4
Deltapine DP 2022 B3XF	3.2	1.09	79.7	27.2	5.9	76.8	9.6	21-1,32-1	2
Deltapine DP 1612	3.4	1.11	80.4	30.7	7.5	78.2	9.5	21-1,22-1	5
PhytoGen PX3E33W3FE	3.6	1.05	81.0	30.9	6.0	79.8	9.1	21-1,21-3	2
FiberMax FM 2202GL	3.5	1.09	81.3	32.2	6.7	75.0	9.8	32-1	3
NexGen NG 4050 XF	3.0	1.08	80.0	29.3	6.5	78.8	8.9	21-1,21-2	4
PhytoGen PX1130A329-04W3FE	3.1	1.10	80.3	30.9	7.2	77.5	10.0	11-2,22-2	2
Brownfield Seed and Delinting BS&D 9X	3.0	1.07	80.4	30.2	5.9	78.1	9.8	11-4,21-3	2
PhytoGen PX1125A221-04W3FE	3.7	1.03	80.5	29.7	6.4	76.5	10.4	22-1	3
PhytoGen PHY 394 W3FE	3.1	1.14	78.8	28.9	6.2	79.0	8.9	21-2,21-4	4
Gowan Seed Company GS-1432	2.5	1.23	80.9	36.5	6.1	67.6	11.5	33-2,43-3	3
PhytoGen PHY 350 W3FE	3.1	1.09	80.2	29.2	6.6	78.4	9.6	12-2,21-1	3
Stoneville ST 4993B3XF	3.8	1.09	81.0	29.6	7.0	78.9	9.3	21-1,21-3	3
Brownfield Seed and Delinting BS&D 224	3.0	1.05	79.4	27.9	5.9	78.4	9.4	21-1,22-2	3
FiberMax FM 1730GLTP	3.3	1.16	82.5	33.0	6.0	78.6	9.3	21-3,21-4	3
PhytoGen PX1124A222-04W3FE	3.2	1.03	79.4	27.2	5.9	76.8	10.4	12-2,22-1	2
Stoneville ST 5091B3XF	3.0	1.06	79.2	26.2	6.1	75.5	10.5	22-1,22-2	2
Deltapine DP 2115 B3XF	3.2	1.08	80.0	28.4	6.8	76.8	10.0	21-3,22-1	4
Deltapine DP 2012 B3XF	3.3	1.10	80.3	28.2	5.8	78.8	9.7	11-1,22-1	3
PhytoGen PHY 205 W3FE	3.4	1.04	80.7	30.0	6.0	78.7	9.7	11-4,21-3	3
PhytoGen PHY 411 W3FE	3.6	1.03	80.3	29.3	6.6	75.8	10.1	21-3,33-1	3
BASF BX 2298 B3XF	3.2	1.06	79.6	27.1	6.7	77.8	9.7	21-1,22-2	3

Table 8A, cont. Fiber quality data from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research, Halfway, 2021.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade	Leaf
PhytoGen PX1150A453-04W3FE	3.1	1.07	80.3	30.1	6.0	74.1	10.7	22-2	2
Gowan Seed Company GS-701	2.4	1.25	80.4	33.1	6.3	73.7	10.4	32-1	4
NexGen NG 3195 B3XF	3.2	1.09	80.8	28.7	6.5	77.3	10.0	21-3,22-1	2
PhytoGen PHY 332 W3FE	3.3	1.13	81.1	30.9	6.9	73.0	10.7	32-1	4
NexGen NG 4098 B3XF	3.2	1.14	79.8	31.7	6.2	77.1	9.6	21-1,22-2	4
FiberMax FM 2398GLTP	3.3	1.10	81.2	30.5	6.5	77.8	9.4	21-1,22-2	3
Deltapine DP 2020 B3XF	3.3	1.11	80.0	27.3	5.8	80.8	9.4	11-1,11-4	2
Stoneville ST 4595B3XF	3.0	1.11	81.0	28.2	6.8	75.3	10.1	22-1,32-1	3
NexGen NG 3299 B3XF	3.4	1.10	81.4	30.8	6.2	77.3	9.8	21-3,22-1	2
BASF BX 2297 B3XF	3.2	1.07	79.6	26.2	6.8	76.5	9.6	21-4,32-1	3
PhytoGen PX1140A385-04W3FE	3.1	1.08	81.2	30.2	7.2	75.0	10.3	22-1,32-1	4
Brownfield Seed and Delinting BS&D Ton Buster Elite	2.8	1.05	79.3	27.4	7.0	74.4	10.7	22-2	3
PhytoGen PX1140A383-04W3FE	2.9	1.09	80.0	30.0	6.7	72.6	10.9	32-1,33-1	4
PhytoGen PX1150A450-04W3FE	2.9	1.06	80.5	29.5	7.2	74.7	10.4	22-1,33-1	3
PhytoGen PX1150A452-04W3FE	2.9	1.07	81.0	29.6	6.1	77.2	10.2	21-3,22-1	2
BASF BX 2296 B3XF	3.6	1.13	81.6	29.7	6.8	75.3	10.1	32-1	3
Brownfield Seed and Delinting BS&D Ton Buster Magnum	2.9	1.08	79.5	28.4	6.2	79.6	9.3	21-1,21-3	3
17-17-206V	2.6	1.08	79.8	27.3	5.9	75.2	10.4	22-2	2
Brownfield Seed and Delinting BS&D 4X	2.7	1.07	80.0	27.9	5.9	80.5	9.3	11-3,21-1	2
NexGen NG 4190 B3XF	2.6	1.10	78.6	28.7	6.4	76.8	10.0	21-1	1
NexGen NG 5711 B3XF	3.1	1.10	79.6	29.5	6.8	75.2	10.1	21-3,32-1	2
Mean	3.1	1.09	80.3	29.6	6.4	76.9	9.8		3
c.v.%	7.7	2.1	1.0	3.4	3.1	10.3	11.9		30.6
LSD 0.05	0.4	0.04	1.3	1.7	1.7	13.1	1.9		2

Table 9. Results of the irrigated bacterial blight cotton variety screening at Texas A&M AgriLife Research, Lubbock, 2021.

Entry	Designation	Bacterial Blight	Waller	Type
15	Deltapine DP 2044 B3XF	0.00 g		Resistant
18	Gowan Seed Company GS 1432	0.00 g		Resistant
19	Gowan Seed Company GS 701	0.00 g		Resistant
23	NexGen NG 4098 B3XF	0.00 g		Resistant
28	PhytoGen PX1122A213-04W3FE	0.00 g		Resistant
33	PhytoGen PX1140A385-04W3FE	0.00 g		Resistant
34	PhytoGen PX1150A450-04W3FE	0.00 g		Resistant
21	NexGen NG 3930 B3XF	0.75 g		Resistant
13	Deltapine DP 2020 B3XF	1.25 g		Resistant
14	Deltapine DP 2022 B3XF	1.25 g		Resistant
27	PhytoGen PX1122A214-04W3FE	1.25 g		Resistant
36	PhytoGen PX1150A453-04W3FE	1.25 g		Resistant
2	NexGen NG 3299 B3XF	2.50 fg		Resistant
26	NexGen NG 5711 B3XF	2.50 fg		Resistant
31	PhytoGen PX1130A329-04W3FE	2.50 fg		Resistant
32	PhytoGen PX1140A383-04W3FE	2.50 fg		Resistant
35	PhytoGen PX1150A452-04W3FE	2.50 fg		Resistant
22	NexGen NG 4050 XF	3.75 efg		Resistant
12	Deltapine DP 2012 B3XF	5.00 efg		Resistant
6	Brownfield Seed and Delinting BS&D 224	6.25 efg		Resistant
1	16-2-418BB	8.75 ef		Resistant
8	Brownfield Seed and Delinting BS&D 9X	10.00 e		Resistant
11	Deltapine DP 1646 B2XF	23.75 d		Partial Resistant
5	BASF BX 2298B3XF	26.25 d		Partial Resistant
16	Deltapine DP 2123 B3XF	62.50 c		Partial Susceptible
3	Stoneville ST 4595B3XF	85.00 b		Moderate Susceptible
9	Brownfield Seed and Delinting BS&D Ton Buster Elite	86.25 b		Moderate Susceptible
29	PhytoGen PX1124A222-04W3FE	95.00 a		Susceptible
7	Brownfield Seed and Delinting BS&D 4X	100.00 a		Susceptible
17	BASF BX 2296B3XF	100.00 a		Susceptible
4	BASF BX 2297B3XF	100.00 a		Susceptible
20	NexGen NG 3195 B3XF	100.00 a		Susceptible
24	NexGen NG 4190 B3XF	100.00 a		Susceptible
25	NexGen NG 5150 B3XF	100.00 a		Susceptible
30	PhytoGen PX1125A221-04W3FE	100.00 a		Susceptible
10	Brownfield Seed and Delinting BS&D Ton Buster Magnum	100.00 a		Susceptible
Prob>F		0.0001		
MSD (0.05)		7.03		

Notes

Table 10. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2021.

Designation	page	Uniform OVT 8-19	Location Summary 20	Late Planted 22	New Varieties 24	Verticillium Wilt 28	Bacterial Blight 32
16-13-601V						*	
16-2-418BB							*
17-17-206V						*	
18-16-3507V						*	
BASF BX 2296B3XF					*	*	*
BASF BX 2297B3XF					*	*	*
BASF BX 2298B3XF					*	*	*
Bayer 20R722NRB3XF					*		
Bayer 20R727B3XF					*		
Bayer 20R732B3XF					*		
Bayer 20R739B3XF					*		
Bayer 20R744B3XF					*		
Brownfield Seed and Delinting BS&D 224		*	*	*		*	*
Brownfield Seed and Delinting BS&D 4X		*	*	*		*	*
Brownfield Seed and Delinting BS&D 9X		*	*	*		*	*
Brownfield Seed and Delinting BS&D Ton Buster Elite		*	*	*		*	*
Brownfield Seed and Delinting BS&D Ton Buster Magnum		*	*	*		*	*
Deltapine DP 1612 B2XF						*	
Deltapine DP 1646 B2XF		*	*				*
Deltapine DP 1822 XF				*			
Deltapine DP 1908 B3XF				*			
Deltapine DP 2012 B3XF		*	*	*		*	*
Deltapine DP 2020 B3XF		*	*			*	*
Deltapine DP 2022 B3XF		*	*			*	*
Deltapine DP 2044 B3XF		*	*				*
Deltapine DP 2115 B3XF		*	*	*	*	*	
Deltapine DP 2123 B3XF		*	*		*	*	*
Deltapine DP 2127 B3XF		*	*		*		
Deltapine DP 2143NR B3XF					*		
DynaGro DG 3520 B3XF		*	*				
FiberMax FM 1621GL		*	*	*			
FiberMax FM 1730GLTP						*	
FiberMax FM 1830GLT		*	*				
FiberMax FM 2202GL						*	
FiberMax FM 2334 GLT						*	
FiberMax FM 2398GLTP		*	*			*	
FiberMax FM 2498GLT		*	*				
FiberMax FM 958					*		
Gowan Seed Company GS 1432						*	*
Gowan Seed Company GS 701						*	*
IST International Seed Technology BRS 286		*	*				
IST International Seed Technology BRS 293		*	*				
IST International Seed Technology BRS 335		*	*				
NexGen NG 3195 B3XF		*	*	*	*	*	*
NexGen NG 3299 B3XF		*	*	*	*	*	*
NexGen NG 3930 B3XF		*	*	*	*	*	*
NexGen NG 4050 XF		*	*	*	*	*	*
NexGen NG 4098 B3XF		*	*	*	*	*	*
NexGen NG 4190 B3XF		*	*	*	*	*	*
NexGen NG 4936 B3XF		*	*				
NexGen NG 5150 B3XF		*	*		*		*

Table 10, cont. Variety Index for the cotton performance tests conducted by Texas A&M AgriLife Research, Lubbock, 2021.

Designation	page	Uniform OVT 9-19	Location Summary 20	Late Planted 22	New Varieties 24	Verticillium Wilt 28	Bacterial Blight 32
NexGen NG 5711 B3XF		*	*			*	*
PhytoGen PHY 205 W3FE		*	*	*	*	*	
PhytoGen PHY 210 W3FE		*	*	*	*	*	
PhytoGen PHY 250 W3FE		*	*	*		*	
PhytoGen PHY 332 W3FE		*	*	*	*	*	
PhytoGen PHY 350 W3FE		*	*			*	
PhytoGen PHY 394 W3FE				*	*	*	
PhytoGen PHY 400 W3FE		*	*	*			
PhytoGen PHY 411 W3FE		*	*	*	*	*	
PhytoGen PHY 443 W3FE		*	*	*			
PhytoGen PHY 545 W3FE		*	*				
PhytoGen PHY 764 WRF		*	*				
PhytoGen PX1122A213-04W3FE				*	*	*	*
PhytoGen PX1122A214-04W3FE				*	*	*	*
PhytoGen PX1124A222-04W3FE				*	*	*	*
PhytoGen PX1125A221-04W3FE				*	*	*	*
PhytoGen PX1130A329-04W3FE				*	*	*	*
PhytoGen PX1140A383-04W3FE				*	*	*	*
PhytoGen PX1140A385-04W3FE				*	*	*	*
PhytoGen PX1150A450-04W3FE				*	*	*	*
PhytoGen PX1150A452-04W3FE				*	*	*	*
PhytoGen PX1150A453-04W3FE				*	*	*	*
PhytoGen PX3E33W3FE		*	*	*	*	*	
Seed Source Genetics SSG UA 107		*	*				
Seed Source Genetics SSG UA 222		*	*				
Stoneville ST 4550GLTP		*	*				
Stoneville ST 4595B3XF					*	*	*
Stoneville ST 5091B3XF						*	
Stoneville ST 4993B3XF		*	*			*	
Stoneville ST 5600B2XF		*	*				
Stoneville ST 5707B2XF		*	*				