

COTTON PERFORMANCE TESTS

In the Texas High Plains

♦ 2015 ♦

The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos - 2016



♦ Technical Report ♦
16-1

Texas A&M AgriLife Research/ Craig Nessler, Director
TEXAS A&M UNIVERSITY SYSTEM / COLLEGE STATION, TEXAS

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Cotton Performance Tests in the Texas High Plains 2015^{1/}

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INTRODUCTION

Cotton performance tests were conducted during 2015 at the Texas A&M Agricultural Research and Extension Center at Lubbock and the AG-CARES research farm in Lamesa. A regional uniform irrigated variety test and Verticillium wilt test were planted at the Texas A&M AgriLife Research Station at Halfway, but not harvested due to a severe, defoliating hail storm on August 28. National standards and Western regional standards for the National Cotton Variety Testing Program were evaluated at the Texas A&M AgriLife Research Station at Pecos. Tests were conducted in the presence of root-knot nematode at Lamesa, and bacterial blight (screening only) in Lubbock. The Uniform Variety Test includes the same commercial or soon to be commercial entries at 4 locations. New varieties and strains, and performance after late planting, were evaluated at an irrigated location in Lubbock. The Regional High Quality test, with breeder releases and commercial varieties that meet high fiber quality standards, was grown in several locations across the cotton belt; the Lubbock location is presented. 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, 30-40 ft long plots on 40 in wide centers. Seth Byrd joined the Lubbock Research and Extension Center at the end of 2015 as Extension Cotton Agronomist, and Assistant Professor in the Department of Soil and Crop Sciences, Texas A&M University. He will work closely with the cotton breeding team on variety testing, and contribute seasonal information to help understand variety performance.

Timely rainfall delayed planting across the Southern High Plains, and the 2015 crop was estimated early in the season to be delayed up to two weeks across the region, compared to long-term average. Germination and stand establishment was excellent, with blooming only slightly delayed. Insect pressure was low, and despite good moisture and delayed crop maturity, Verticillium wilt pressure was low. Root-knot nematode pressure was consistent and uniform, resulting in reliable ratings. Bacterial blight appeared in several area fields, but did not affect performance data in the tests presented here. First freeze occurred November 12, and Lubbock tied a 1963 record with 242 days between freezing temperatures. Humidity levels occasionally decreased the daily hours of ideal harvest conditions. Rainfall events delayed harvest operations in some areas, with a few fields still standing into late December and January. Sporadic cases of unusually high leaf grades occurred. Higher than normal leaf grade values did not appear to be specific to particular varieties or harvest-aid practices, as they were present across multiple varieties and various harvest regimes. The tests reported here were harvested with a research plot stripper with no burr extractor. Coefficient of variation for leaf trash is unusually high, reflecting the seemingly random nature of leaf grade in 2015.

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, Gates Anderson, Mark Arnold, Reid Barker, David Brockman, Chris Coulombe, Jacob Duncan, Heather Elkins, Sheldon Franks, Johnny Fuentes, Ryan Gregory, Cody Halfmann, Jimmy Mabry, Hunter Parrott, Bradley Selby, Monica Sheehan, Cody Striker, Raymond Tillis, Dylan Wann, Halee Watson, Leslie Wells, Garrett Wesley, and Zane Wyatt. Bacterial blight and root-knot nematode ratings were performed 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- 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.^{1/}

^{1/}*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 variety tests in the Texas High Plains, 2015.

Soil Type	Date Planted	Date Harvested	Production Information
			Lubbock Uniform Irrigated, New Varieties and Strains, And Regional High Quality
Acuff Loam	May 27	November 9	fertilizer 100-0-0 lbs/A 2 herbicide applications 2 irrigations 5.4 acre inches (uni and nvst) 2 irrigations 5.2 acre inches (rhq) 1 irrigation 2.4 acre inches (late) 2 defoliant applications
			Lubbock Late Planted Irrigated
	June 18	November 12	
			Lubbock Uniform Dryland
Olton Clay Loam	May 27	November 3	fertilizer 100-0-0 lbs/A 1 herbicide application 2 defoliant applications 27.2 inches rainfall in season
			Lamesa AG-CARES Uniform Dryland
Amarillo Fine Sandy Loam	May 15	October 28	32-0-0 lbs/A fertigation 1 herbicide application 1 boll opener + defoliant 1 defoliant + crop oil 23.5 inches rainfall in season
			Lamesa AG-CARES Nematode Irrigated
Amarillo Fine Sandy Loam	May 15	October 27	32-0-0 lbs/A fertigation 1 herbicide application 5.7 acre inches in season (pivot)rkn 5.4 acre inches in season (pivot) 1 defoliant + boll opener 1 defoliant + crop oil
			Lamesa AG-CARES Uniform Irrigated
	May 16	October 29	
			Pecos Regional Irrigated
Hoban Silty Clay Loam	May 26	December 8	1 fertilizer application irrigated in season harvest aids applied

Table 2. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties							% Open Bolls 29-Sep	Storm Resistance	Height	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index				
		Lint	Seed	Picked	Pulled							
NexGen NG 3500 XF	1287	29.5	45.5	40.5	31.2	9.1	4.6	6.8	29.1	59	5	35
Americot AMDG-3-7040XF	1275	29.5	48.2	38.9	30.5	5.0	9.5	6.6	29.3	53	5	34
PhytoGen PHY 417 WRF	1251	29.3	47.0	34.8	26.3	4.7	8.4	5.1	32.4	50	5	32
Americot AMDG-7824	1155	29.2	43.9	41.2	31.7	4.8	9.0	6.9	28.9	63	5	35
Americot AMDG-3X2XF	1149	28.4	45.3	38.2	29.4	5.1	9.5	6.4	30.4	64	6	33
FiberMax FM 2334GLT	1094	29.7	43.4	40.1	31.7	5.1	8.6	6.4	32.2	68	6	33
Deltapine DP 1212 B2RF	1087	28.3	46.8	38.0	30.1	5.3	8.4	5.6	35.9	66	4	34
PhytoGen PHY 312 WRF	1085	28.1	45.9	39.0	28.9	4.8	9.8	6.6	28.2	63	4	31
Americot AMDG-2-6489B2XF	1082	29.7	45.1	39.7	30.5	5.5	9.1	6.4	34.7	64	5	32
NexGen NG 3405B2XF	1066	29.3	44.0	37.4	28.9	5.4	9.1	6.1	32.8	64	4	33
Deltapine DP 1522 B2XF	1061	27.8	45.4	42.0	32.3	4.6	8.6	6.4	30.3	58	4	33
NexGen NG 4545 B2XF	1051	29.2	46.1	39.8	25.6	5.0	8.9	6.3	31.7	50	4	35
Americot AMDG-3-6951XF	1046	31.2	46.7	39.5	29.2	5.3	9.1	6.5	31.8	64	5	31
FiberMax FM 2011GT	1024	29.0	46.5	38.1	29.9	6.3	10.8	7.2	33.3	60	6	31
Dyna-Gro DG2615B2RF	1023	27.9	44.7	39.7	31.0	5.4	10.3	7.2	29.9	45	6	35
Americot AMDG-5964-B2XF	1017	28.1	47.8	37.5	28.9	5.3	9.5	6.1	32.6	64	4	31
PhytoGen PHY 444 WRF	1012	28.7	43.8	39.9	31.5	5.3	9.9	7.1	29.4	40	4	33
NexGen NG 3406B2XF	989	30.4	47.0	39.7	30.7	5.0	9.1	6.5	30.4	50	4	32
Dyna-Gro DG3544B2XF	983	29.0	45.6	39.5	27.1	5.9	10.3	7.2	32.3	65	5	32
Deltapine DP 1219 B2RF	981	28.0	43.1	40.4	29.8	4.4	8.6	6.1	29.0	63	3	32
Deltapine DP 1518 B2XF	978	28.4	46.3	37.3	28.5	5.0	9.1	5.9	31.1	63	4	35
PhytoGen PHY 333 WRF	978	27.4	45.2	38.2	29.1	5.2	9.4	6.2	32.4	59	4	32
NexGen NG 3517 B2XF	973	27.8	48.9	37.8	30.6	5.2	9.2	6.1	32.9	56	5	33
Stoneville ST 4747GLB2	967	28.4	46.0	38.9	26.5	4.6	9.5	6.5	27.5	73	5	31
Americot AMDG-1-5999B2XF	965	28.0	47.2	38.9	29.3	5.1	8.9	6.1	32.8	70	4	32
Deltapine DP 0912 B2RF	962	28.0	45.8	38.5	29.9	4.6	9.2	6.0	29.6	76	4	31
FiberMax FM 2007GLT	957	27.3	47.0	36.5	27.6	5.2	9.6	6.0	31.7	54	6	28
PhytoGen PHY 222 WRF	956	26.2	43.5	36.7	28.0	4.9	10.1	6.4	28.0	66	5	30
Stoneville ST 4946GLB2	954	27.3	45.0	37.9	28.5	5.5	10.2	6.6	31.9	63	4	32
All-Tex CT 15445 B2RF	948	29.1	46.4	39.7	30.5	5.3	9.1	6.5	32.5	46	6	28

Table 2. Yield and agronomic property results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties						% Open Bolls 29-Sep	Storm Resistance	Height		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
Seed Source Genetics SSG UA 222	946	28.7	48.5	37.1	28.4	5.1	9.8	6.3	30.3	50	5	30
NexGen NG 1511B2F	923	27.9	42.9	39.0	31.7	5.6	8.8	6.1	35.6	68	4	35
Deltapine DP 1044 B2F	919	26.6	46.4	36.8	29.0	5.7	9.0	5.6	37.0	50	4	32
PhytoGen PHY 499 WRF	916	29.1	46.0	36.2	20.3	3.0	9.7	6.0	17.9	58	4	33
All-Tex Nitro 44B2RF	913	26.8	46.8	39.0	27.1	5.0	10.5	7.1	27.6	51	5	30
BRS 293	913	28.7	46.9	36.7	27.4	5.0	9.5	6.1	30.2	55	4	32
FiberMax FM 2322GL	907	31.4	41.0	42.6	31.2	5.0	9.4	7.8	27.5	48	5	30
FiberMax FM 1900GLT	895	28.2	46.1	38.0	29.2	5.4	9.8	6.4	32.0	66	5	32
PhytoGen PHY 339 WRF	883	28.7	47.1	36.7	29.4	4.6	8.4	5.5	31.4	66	4	33
BRS 286	877	26.8	46.8	37.2	28.5	5.0	9.5	6.0	31.0	61	4	31
FiberMax FM 2484B2F	873	27.2	44.8	38.8	30.8	4.5	9.0	6.2	28.2	49	6	31
BRS 335	857	27.6	48.1	36.0	26.9	5.0	9.9	6.0	30.4	54	5	33
Deltapine DP 1410 B2RF	852	28.4	46.0	36.3	28.7	5.3	9.4	5.8	33.0	43	5	32
All-Tex Concho B2XF	851	26.3	43.8	38.9	29.5	6.2	10.6	7.2	33.7	63	5	34
FiberMax FM 1830GLT	841	30.2	45.2	37.0	28.9	5.3	8.6	6.0	32.6	69	5	29
PhytoGen PHY 725 RF	784	26.1	47.6	37.0	29.2	5.8	9.7	6.1	35.8	61	3	32
Seed Source Genetics SSG HQ 210 CT	757	26.5	46.6	36.4	29.0	5.1	9.0	5.5	34.4	41	4	26
BRS 269	742	28.2	45.8	36.5	28.7	5.9	10.1	6.2	34.9	49	4	34
Mean	979	28.4	45.8	38.3	29.1	5.1	9.4	6.3	31.2	58	4	32
c.v.%	15.0	5.3	4.7	4.1	5.8	10.5	4.7	5.7	9.3	21.6	18.1	10.1
LSD 0.05	172	1.8	2.5	2.6	2.8	0.9	0.7	0.6	4.9	14	1	4

Table 2A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NG 3500 XF	4.1	1.08	80.6	32.5	10.0	3	73.6	8.1	41-3,51-1
Americot AMDG-3-7040XF	4.0	1.12	80.8	32.7	7.7	4	74.5	8.0	41-1,41-3
PhytoGen PHY 417 WRF	3.0	1.13	80.4	30.1	9.5	4	75.1	7.8	41-1
Americot AMDG-7824	3.7	1.06	79.0	27.5	8.9	3	76.6	8.4	21-2,31-2
Americot AMDG-3X2XF	4.0	1.09	82.1	33.0	8.6	3	74.2	8.5	41-2,41-3
FiberMax FM 2334GLT	3.8	1.20	82.1	33.4	6.4	4	76.5	7.0	31-2,41-1
Deltapine DP 1212 B2RF	4.0	1.16	82.3	33.5	8.8	4	73.0	8.0	41-1
PhytoGen PHY 312 WRF	4.0	1.15	81.8	31.1	8.4	4	74.3	7.6	41-1,41-2
Americot AMDG-2-6489B2XF	4.4	1.10	80.6	32.5	6.7	3	74.6	8.6	41-1,41-4
NexGen NG 3405B2XF	3.8	1.08	80.0	29.4	7.5	3	74.5	8.2	31-2,41-2
Deltapine DP 1522 B2XF	3.7	1.13	81.3	31.9	9.7	4	74.2	7.7	41-1
NexGen NG 4545 B2XF	4.4	1.12	81.8	32.6	6.8	3	72.9	8.5	31-4,41-3
Americot AMDG-3-6951XF	4.7	1.03	80.9	32.1	8.4	2	75.5	8.6	31-2,41-1
FiberMax FM 2011GT	3.6	1.15	82.1	33.1	7.2	4	76.9	7.4	31-2,41-1
Dyna-Gro DG2615B2RF	4.0	1.13	80.3	32.5	8.5	4	75.6	8.6	31-2
Americot AMDG-5964-B2XF	3.5	1.18	82.0	33.5	7.1	5	72.8	7.6	31-1,41-1
PhytoGen PHY 444 WRF	3.0	1.21	81.4	32.3	7.9	2	77.8	8.3	31-1
NexGen NG 3406B2XF	4.0	1.08	80.5	30.0	9.6	4	75.3	7.9	41-1
Dyna-Gro DG3544B2XF	3.8	1.16	82.2	34.5	5.7	3	75.9	7.5	31-2
Deltapine DP 1219 B2RF	3.6	1.08	79.5	31.9	8.5	3	75.2	7.6	41-1,51-1
Deltapine DP 1518 B2XF	3.8	1.14	80.4	31.8	7.5	5	74.5	7.5	41-1,41-2
PhytoGen PHY 333 WRF	3.8	1.12	80.7	29.1	7.9	3	74.9	8.5	31-1,41-3
NexGen NG 3517 B2XF	3.8	1.11	80.9	31.2	7.5	3	73.6	7.9	41-2,41-3
Stoneville ST 4747GLB2	4.1	1.10	80.2	30.7	7.7	5	74.3	7.7	42-1,41-3
Americot AMDG-1-5999B2XF	4.2	1.10	80.3	30.7	7.0	4	74.0	8.3	41-1,41-3
Deltapine DP 0912 B2RF	4.0	1.09	80.3	32.9	8.3	3	73.9	7.8	41-1,41-2
FiberMax FM 2007GLT	3.4	1.16	80.0	32.8	7.4	5	77.1	7.2	41-1
PhytoGen PHY 222 WRF	3.8	1.14	81.8	30.9	9.1	4	73.1	8.0	41-2
Stoneville ST 4946GLB2	3.4	1.12	81.5	33.1	8.9	4	74.5	7.8	41-1
All-Tex CT 15445 B2RF	3.9	1.11	82.2	32.3	8.8	3	76.1	7.8	41-1

Table 2A. Fiber quality results from the irrigated uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Seed Source Genetics SSG UA 222	3.7	1.16	81.2	31.6	9.8	4	75.6	7.7	31-2,41-1
NexGen NG 1511B2F	3.5	1.11	80.4	31.7	8.9	4	74.4	7.8	41-1
Deltapine DP 1044 B2F	3.8	1.13	81.8	31.3	9.6	4	76.2	7.7	31-2,41-1
PhytoGen PHY 499 WRF	3.7	1.16	81.2	33.2	7.3	3	74.6	8.3	41-1,41-3
All-Tex Nitro 44B2RF	4.0	1.18	82.2	34.7	6.8	4	76.9	7.5	31-2,41-1
BRS 293	4.1	1.11	81.1	32.1	7.9	2	76.1	8.1	31-2,41-1
FiberMax FM 2322GL	4.1	1.14	79.3	32.9	6.9	5	74.6	7.8	41-1,41-2
FiberMax FM 1900GLT	3.6	1.15	80.8	33.1	6.9	4	74.1	7.7	41-1
PhytoGen PHY 339 WRF	3.5	1.12	80.4	32.0	8.3	4	73.0	7.3	41-2,51-1
BRS 286	3.5	1.09	80.5	32.6	7.7	4	74.2	7.6	31-1,41-2
FiberMax FM 2484B2F	3.4	1.15	81.6	32.4	8.1	4	75.7	7.5	41-1
BRS 335	3.9	1.16	81.6	33.1	8.4	3	77.4	7.5	41-1,41-2
Deltapine DP 1410 B2RF	3.7	1.15	79.6	31.5	8.6	6	73.6	7.4	41-1,41-2
All-Tex Concho B2XF	3.8	1.19	82.3	33.9	7.6	2	76.8	7.6	41-1
FiberMax FM 1830GLT	3.9	1.16	81.6	33.7	6.7	3	75.8	7.0	41-2
PhytoGen PHY 725 RF	3.8	1.17	81.4	35.3	8.4	4	72.2	7.6	41-2
Seed Source Genetics SSG HQ 210 CT	3.6	1.09	79.9	31.2	8.2	5	75.8	7.4	41-1
BRS 269	4.1	1.12	79.8	33.5	6.2	2	78.2	7.9	41-1,41-2
Mean	3.8	1.13	80.9	32.2	8.0	3	75.0	7.8	
c.v.%	10.1	2.8	1.3	3.8	10.4	39.5	1.7	5.2	
LSD 0.05	0.7	0.05	1.8	2.1	1.4	2	2.2	0.7	

II

Table 3. Yield and agronomic property results from the irrigated uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties								% Open Bolls 30-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
FiberMax FM 2011GT	1183	29.3	45.2	39.4	29.8	5.9	11.4	8.1	28.8	73	6	27
PhytoGen PHY 417 WRF	1124	30.8	46.9	41.2	32.3	5.0	8.8	6.5	31.4	69	5	30
Stoneville ST 4946GLB2	1093	28.6	46.8	39.8	30.3	4.9	10.7	7.3	26.4	53	6	27
Americot AMDG-5964-B2XF	1035	27.9	46.5	37.0	27.3	4.7	9.8	6.3	27.8	50	6	27
Americot AMDG-3X2XF	1017	31.0	45.5	38.7	29.0	4.4	9.7	6.6	25.5	59	5	26
Americot AMDG-3-6951XF	977	30.5	45.2	39.5	29.8	4.7	9.9	7.0	26.4	54	4	26
NexGen NG 4545 B2XF	975	29.0	47.0	39.3	29.1	5.1	9.3	6.4	30.8	59	5	28
PhytoGen PHY 312 WRF	971	29.0	45.1	40.2	29.6	4.7	9.9	7.2	26.2	41	5	28
NexGen NG 3500 XF	965	29.6	46.0	39.9	29.5	4.7	9.7	6.8	27.7	48	6	27
Americot AMDG-2-6489B2XF	954	29.4	44.8	39.3	28.2	5.0	9.5	6.5	29.8	56	5	28
Deltapine DP 1044 B2F	953	28.9	46.6	37.2	27.6	4.1	9.3	5.9	25.8	61	5	29
Americot AMDG-3-7040XF	950	29.0	46.5	38.7	28.9	4.8	10.0	6.8	27.5	46	5	25
Stoneville ST 4747GLB2	939	28.0	46.0	38.9	27.8	4.6	10.6	7.5	24.0	63	6	25
Deltapine DP 0912 B2RF	931	29.0	44.8	38.3	30.3	5.2	9.8	6.5	30.4	60	4	28
Deltapine DP 1219 B2RF	917	28.3	44.8	37.6	27.8	4.3	9.1	6.2	26.4	51	5	28
NexGen NG 3517 B2XF	911	27.6	46.2	36.7	27.2	4.4	9.8	6.1	26.6	68	5	27
NexGen NG 1511B2F	889	30.5	44.3	40.2	30.8	4.9	9.9	7.2	27.6	60	6	29
Americot AMDG-1-5999B2XF	882	28.0	46.8	35.0	25.9	4.4	9.9	5.8	26.2	55	5	26
PhytoGen PHY 339 WRF	875	29.2	45.9	38.0	27.7	4.1	9.2	6.3	24.5	73	5	26
Dyna-Gro DG2615B2RF	865	28.1	46.1	39.1	29.6	5.4	11.2	7.6	27.8	35	6	30
PhytoGen PHY 333 WRF	836	28.3	43.4	40.6	29.4	5.2	10.1	7.3	28.9	56	6	29
Deltapine DP 1522 B2XF	825	29.8	46.0	38.4	29.7	4.7	9.4	6.5	28.1	54	6	29
All-Tex Nitro 44B2RF	823	25.9	45.8	35.2	23.8	4.5	11.5	6.6	23.4	39	5	24
FiberMax FM 2322GL	814	31.2	42.5	42.2	31.2	5.4	10.0	7.9	28.5	66	5	25
All-Tex CT 15445 B2RF	782	28.7	45.7	38.8	30.5	4.6	10.0	6.8	26.3	56	5	24
BRS 335	762	27.6	47.6	36.9	27.4	4.9	10.8	6.7	27.4	31	6	30
FiberMax FM 2484B2F	753	27.9	46.1	37.6	28.9	4.8	10.1	6.6	27.3	50	5	25
Americot AMDG-7824	750	31.2	44.1	38.9	28.4	4.6	9.9	7.1	25.5	65	5	26
NexGen NG 3406B2XF	748	28.0	45.1	42.5	32.0	4.8	9.4	7.2	27.7	59	5	24
FiberMax FM 2334GLT	740	29.1	43.6	43.4	32.0	4.7	9.1	7.2	27.7	71	5	23

Table 3. Yield and agronomic property results from the irrigated uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties								% Open Bolls 30-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
Deltapine DP 1518 B2XF	739	27.8	46.0	38.8	29.1	4.6	9.2	6.3	28.0	64	5	26
Deltapine DP 1212 B2RF	719	28.1	45.5	36.8	28.6	5.2	9.7	6.3	30.4	59	4	25
NexGen NG 3405B2XF	690	27.8	45.4	38.0	27.6	4.7	9.7	6.5	27.3	55	5	23
Seed Source Genetics SSG UA 222	679	26.3	46.1	36.8	27.6	5.3	11.1	7.0	28.3	48	5	26
PhytoGen PHY 499 WRF	677	29.2	44.4	38.3	26.9	4.1	9.5	6.5	23.9	33	6	27
FiberMax FM 2007GLT	674	27.0	46.7	36.8	27.7	4.9	10.5	6.5	27.5	68	6	23
PhytoGen PHY 444 WRF	670	29.8	44.9	40.5	30.2	4.9	10.3	7.4	26.5	36	5	25
PhytoGen PHY 222 WRF	657	26.5	43.7	40.2	28.6	4.4	9.6	7.1	24.8	74	5	23
Deltapine DP 1410 B2RF	633	27.7	45.1	39.5	30.6	5.3	10.1	7.0	29.9	69	6	24
BRS 293	613	28.0	46.8	36.6	28.2	5.3	10.4	6.4	30.2	31	5	27
BRS 269	607	27.6	47.0	36.0	25.5	4.6	10.7	6.4	25.8	25	4	23
FiberMax FM 1830GLT	590	28.8	45.5	40.9	30.8	5.1	9.4	7.1	29.4	74	5	23
BRS 286	572	27.8	46.0	35.9	26.8	5.1	11.1	6.6	27.8	24	2	13
PhytoGen PHY 725 RF	540	25.1	46.8	35.2	26.9	5.2	10.3	6.1	29.4	65	4	28
Dyna-Gro DG3544B2XF	513	28.3	45.0	37.6	26.4	5.6	12.0	7.7	27.3	55	6	22
Seed Source Genetics SSG HQ 210 CT	501	26.0	47.7	34.8	26.2	4.6	9.2	5.2	30.5	44	5	23
All-Tex Concho B2XF	475	25.1	45.6	39.8	27.9	5.3	11.1	7.6	28.0	63	5	25
FiberMax FM 1900GLT	396	27.3	43.9	39.3	28.9	5.1	10.1	7.2	27.7	59	4	18
Mean	795	28.4	45.6	38.5	28.6	4.8	10.0	6.8	27.5	55	5	26
c.v.%	16.6	4.2	2.6	3.1	5.4	8.5	3.1	4.7	8.1	25.2	19.5	16.8
LSD 0.05	155	1.4	1.4	2.0	2.6	0.7	0.5	0.5	4.0	16	1	5

Table 3A. Fiber quality results from the irrigated uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 2011GT	4.3	1.10	81.3	30.7	6.7	4	73.9	8.5	41-3
PhytoGen PHY 417 WRF	4.1	1.08	81.0	30.7	9.2	3	73.5	9.2	32-2,41-3
Stoneville ST 4946GLB2	4.2	1.10	82.1	33.1	8.6	3	72.0	9.6	32-2,42-1
Americot AMDG-5964-B2XF	4.6	1.12	80.7	30.8	6.8	3	72.6	9.4	32-2,41-3
Americot AMDG-3X2XF	4.9	1.08	82.1	32.7	8.5	2	72.3	9.8	32-2,42-1
Americot AMDG-3-6951XF	5.1	1.05	81.9	31.6	7.6	2	73.0	9.8	32-1,32-2
NexGen NG 4545 B2XF	4.8	1.08	81.3	31.2	6.0	2	72.4	9.8	32-1,42-1
PhytoGen PHY 312 WRF	4.3	1.12	82.2	31.9	7.6	6	71.8	9.1	32-2,42-2
NexGen NG 3500 XF	4.9	1.07	82.8	33.1	7.9	2	73.7	10.0	32-1,32-2
Americot AMDG-2-6489B2XF	4.8	1.06	81.2	30.0	5.9	3	72.4	9.6	32-2,42-1
Deltapine DP 1044 B2F	4.1	1.09	80.1	30.4	10.3	3	73.1	9.8	32-1,32-2
Americot AMDG-3-7040XF	4.9	1.08	82.5	33.8	8.9	2	72.2	10.0	32-1,42-1
Stoneville ST 4747GLB2	4.3	1.11	80.3	27.5	6.8	5	71.0	8.1	41-4,51-1
Deltapine DP 0912 B2RF	4.6	1.04	81.1	29.6	8.5	3	71.3	9.6	32-2,42-1
Deltapine DP 1219 B2RF	4.3	1.10	80.4	31.6	7.3	2	74.6	9.4	31-3,32-2
NexGen NG 3517 B2XF	4.7	1.09	81.5	30.1	8.3	3	73.0	9.6	32-2,42-1
NexGen NG 1511B2F	4.4	1.08	81.7	32.3	8.6	2	72.3	9.5	32-2,42-1
Americot AMDG-1-5999B2XF	4.4	1.11	80.2	29.2	6.6	3	71.7	9.8	32-2,42-1
PhytoGen PHY 339 WRF	4.2	1.09	81.4	32.3	8.2	3	73.9	8.5	41-1,41-3
Dyna-Gro DG2615B2RF	4.6	1.09	81.2	30.2	8.1	3	74.2	9.4	32-1,32-2
PhytoGen PHY 333 WRF	4.3	1.11	82.3	30.8	7.0	4	72.6	9.8	32-1,42-1
Deltapine DP 1522 B2XF	4.5	1.09	82.0	31.2	9.5	3	71.5	9.4	42-1
All-Tex Nitro 44B2RF	3.7	1.16	82.6	35.0	7.9	4	73.5	9.3	32-2,42-1
FiberMax FM 2322GL	4.6	1.12	82.1	33.1	5.9	3	72.5	9.2	41-3,42-1
All-Tex CT 15445 B2RF	4.4	1.11	82.8	34.1	8.5	3	74.1	9.2	31-3,32-2
BRS 335	3.7	1.12	80.6	30.9	8.0	4	75.1	9.1	31-4
FiberMax FM 2484B2F	3.8	1.15	81.9	32.0	6.7	3	75.2	8.8	31-4,41-1
Americot AMDG-7824	4.8	1.01	80.6	26.4	7.0	2	73.1	9.8	32-1,32-2
NexGen NG 3406B2XF	4.3	1.10	82.4	30.8	9.5	3	74.0	9.8	32-1,32-2
FiberMax FM 2334GLT	4.5	1.13	82.0	32.6	6.2	3	74.3	9.0	31-3,41-3

Table 3A. Fiber quality results from the irrigated uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1518 B2XF	4.5	1.09	81.0	28.7	7.6	3	73.9	9.4	32-1,42-1
Deltapine DP 1212 B2RF	4.5	1.10	81.1	31.7	7.8	3	71.1	9.5	42-1
NexGen NG 3405B2XF	4.4	1.03	79.7	25.8	7.4	3	72.3	9.8	32-2
Seed Source Genetics SSG UA 222	4.1	1.15	82.1	32.3	8.9	5	71.6	9.3	42-1
PhytoGen PHY 499 WRF	4.1	1.07	81.3	32.1	9.0	3	75.4	9.7	22-2,32-1
FiberMax FM 2007GLT	3.7	1.12	80.1	31.7	7.9	4	74.5	8.8	32-2,41-1
PhytoGen PHY 444 WRF	4.1	1.11	80.5	29.4	8.5	2	75.1	9.7	22-2,32-2
PhytoGen PHY 222 WRF	4.7	1.08	82.0	29.9	9.0	4	72.0	9.3	42-1
Deltapine DP 1410 B2RF	3.9	1.12	80.1	31.4	6.8	4	72.3	8.7	41-3
BRS 293	4.3	1.02	79.8	31.4	8.1	1	72.3	10.5	32-2,33-1
BRS 269	4.3	1.08	80.2	30.3	6.1	3	74.2	9.3	31-3,42-1
FiberMax FM 1830GLT	4.4	1.12	81.5	32.3	6.1	1	75.1	8.7	31-4
BRS 286	4.0	1.13	82.0	33.7	8.0	3	73.4	9.0	31-4,41-3
PhytoGen PHY 725 RF	4.3	1.16	81.8	35.4	8.1	2	72.6	9.5	32-2,42-1
Dyna-Gro DG3544B2XF	4.7	1.12	82.1	32.1	7.4	2	75.3	8.4	31-4,41-1
Seed Source Genetics SSG HQ 210 CT	4.0	1.05	79.9	31.1	7.8	2	74.3	9.4	31-3,32-2
All-Tex Concho B2XF	4.4	1.16	82.8	33.7	6.3	2	76.2	8.5	31-1,31-2
FiberMax FM 1900GLT	4.1	1.12	80.8	30.9	6.1	3	71.5	9.4	42-1
Mean	4.3	1.10	81.3	31.3	7.7	3	73.2	9.3	
c.v.%	5.7	1.8	1.0	4.0	8.2	35.0	1.5	3.3	
LSD 0.05	0.4	0.03	1.4	2.1	1.1	2	1.7	0.5	

Table 4. Yield and agronomic property results from the dryland uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	25-Sep	Resistance	Height
Americot AMDG-3-6951XF	816	31.3	47.6	38.8	29.6	5.4	9.7	6.7	31.0	70	6	28
All-Tex CT 15445 B2RF	801	30.5	47.0	39.3	28.7	4.8	9.7	6.8	27.3	56	5	25
NexGen NG 3500 XF	796	30.3	45.4	39.1	29.7	5.2	9.3	6.4	31.7	63	5	27
PhytoGen PHY 499 WRF	790	31.2	45.4	40.6	31.2	4.8	9.3	6.9	28.4	73	5	28
NexGen NG 3517 B2XF	790	29.3	47.1	39.5	29.9	5.0	9.4	6.5	30.1	81	5	31
Americot AMDG-2-6489B2XF	789	32.0	44.8	40.9	30.5	5.4	9.1	6.7	33.1	66	5	30
PhytoGen PHY 444 WRF	783	31.3	44.0	40.3	30.5	5.0	9.6	7.1	28.3	55	5	27
NexGen NG 3405B2XF	772	30.1	44.3	44.3	33.5	4.8	9.2	7.7	27.8	69	4	27
PhytoGen PHY 312 WRF	772	30.1	44.7	41.9	31.9	5.4	10.2	7.9	28.5	59	5	28
Americot AMDG-3-7040XF	766	30.1	46.0	40.4	29.7	5.0	9.8	7.1	28.5	74	5	28
Stoneville ST 4747GLB2	763	29.6	44.1	36.9	27.5	5.2	9.8	6.5	29.6	81	5	28
All-Tex Nitro 44B2RF	754	29.6	46.5	38.4	29.8	5.2	10.1	6.8	29.4	69	5	28
PhytoGen PHY 417 WRF	749	30.3	44.9	41.5	32.8	5.1	8.1	6.2	34.6	60	4	27
Deltapine DP 1410 B2RF	740	30.6	45.2	38.5	30.1	5.5	9.6	6.5	32.5	58	5	27
Americot AMDG-7824	735	31.9	44.0	42.0	30.4	5.0	9.1	7.0	29.6	68	4	28
FiberMax FM 2007GLT	735	29.8	45.7	38.5	28.3	4.7	9.5	6.4	28.0	54	5	26
Stoneville ST 4946GLB2	724	31.1	46.7	41.5	32.6	5.5	10.3	7.7	29.6	54	5	29
NexGen NG 4545 B2XF	723	30.8	45.3	38.1	28.3	5.3	10.2	6.8	29.5	79	5	30
NexGen NG 1511B2F	720	31.2	42.7	43.6	33.0	4.7	8.9	7.4	27.9	68	4	29
NexGen NG 3406B2XF	716	31.1	44.9	41.9	32.7	5.3	9.3	7.1	31.3	71	4	27
Deltapine DP 0912 B2RF	705	30.2	45.9	40.1	30.9	5.0	9.6	6.8	29.8	79	4	30
Americot AMDG-5964-B2XF	696	30.2	45.4	41.2	31.7	4.8	9.2	6.7	29.2	51	5	30
PhytoGen PHY 222 WRF	696	30.0	45.0	40.3	29.1	4.9	9.8	7.3	26.8	74	4	26
PhytoGen PHY 333 WRF	692	30.1	43.6	39.3	30.0	5.5	9.6	6.8	32.0	58	4	27
Americot AMDG-3X2XF	689	31.2	46.2	39.2	29.8	5.1	9.8	6.8	29.1	79	6	30
FiberMax FM 2011GT	682	30.4	45.8	40.8	30.4	5.7	10.7	7.9	29.8	73	6	26
Deltapine DP 1044 B2F	681	29.4	44.7	38.0	28.4	4.2	9.0	5.9	26.9	61	4	28
FiberMax FM 1830GLT	677	32.4	43.9	43.6	33.4	4.6	9.6	8.1	24.6	85	6	27
Americot AMDG-1-5999B2XF	650	30.1	46.8	40.0	30.6	4.9	9.5	6.7	29.1	83	5	30
BRS 335	648	28.7	47.5	36.3	28.1	5.1	9.2	5.8	31.9	59	5	27

Table 4. Yield and agronomic property results from the dryland uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties						% Open Bolls 25-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	
		Lint	Seed	Picked	Pulled					
FiberMax FM 2334GLT	645	31.0	42.2	43.2	33.0	5.2	9.4	7.6	29.0	63
FiberMax FM 2484B2F	638	30.5	45.0	39.8	29.5	4.5	9.4	6.8	26.0	45
FiberMax FM 2322GL	634	32.7	41.6	39.8	29.7	5.7	9.5	7.4	30.3	50
Dyna-Gro DG2615B2RF	633	30.2	45.1	39.3	29.9	5.2	9.7	6.8	29.6	33
Dyna-Gro DG3544B2XF	629	30.0	44.8	39.6	28.8	6.0	11.1	7.9	29.7	80
PhytoGen PHY 339 WRF	620	30.8	46.0	37.5	28.9	5.0	9.6	6.4	29.1	66
Seed Source Genetics SSG UA 222	614	29.3	46.7	39.6	31.6	5.6	10.4	7.2	31.1	53
FiberMax FM 1900GLT	600	30.9	45.7	40.3	31.3	5.4	10.2	7.5	29.1	70
Deltapine DP 1212 B2RF	598	30.2	45.5	39.8	31.3	4.5	9.3	6.6	27.0	75
Deltapine DP 1518 B2XF	587	31.3	45.1	40.5	31.5	4.9	9.4	6.9	28.8	68
All-Tex Concho B2XF	581	29.1	44.2	39.6	28.1	6.2	10.3	7.3	33.9	71
BRS 293	573	28.6	46.7	38.2	28.6	5.1	9.9	6.6	29.7	46
Seed Source Genetics SSG HQ 210 CT	570	27.6	47.5	35.4	27.3	4.7	8.9	5.3	31.5	54
BRS 286	562	27.1	46.0	38.1	28.6	4.5	9.5	6.3	27.0	56
PhytoGen PHY 725 RF	553	26.6	45.8	37.9	28.2	5.1	10.1	6.6	29.0	76
Deltapine DP 1219 B2RF	525	29.6	44.8	40.0	29.7	4.4	8.3	6.2	28.6	51
Deltapine DP 1522 B2XF	524	31.3	44.7	40.9	30.7	4.2	8.9	6.5	26.4	80
BRS 269	490	28.2	48.1	36.9	27.2	4.9	10.8	6.7	26.9	49
Mean	680	30.2	45.3	39.8	30.1	5.0	9.6	6.8	29.3	64
c.v.%	16.4	3.7	2.4	3.0	3.9	7.1	3.5	4.8	6.3	15.6
LSD 0.05	130	1.3	1.3	2.0	2.0	0.6	0.6	0.5	3.1	23
										1
										2

Table 4A. Fiber quality results from the dryland uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Americot AMDG-3-6951XF	4.9	1.06	81.2	31.2	8.8	2	73.2	8.9	41-3,42-1
All-Tex CT 15445 B2RF	4.0	1.08	82.2	33.7	9.0	4	73.0	8.1	41-2,41-3
NexGen NG 3500 XF	5.1	1.02	81.8	30.6	9.2	3	72.3	8.8	41-3
PhytoGen PHY 499 WRF	4.4	1.09	81.0	32.8	9.3	4	72.6	8.0	41-1,41-2
NexGen NG 3517 B2XF	4.5	1.11	80.5	32.7	7.0	3	73.7	8.6	41-3
Americot AMDG-2-6489B2XF	4.8	1.05	81.7	31.0	5.8	2	72.0	8.7	41-3,42-2
PhytoGen PHY 444 WRF	3.5	1.15	81.3	31.0	7.9	2	75.4	8.8	31-3,41-1
NexGen NG 3405B2XF	5.0	1.03	77.8	26.5	7.7	2	72.3	8.9	41-3,42-1
PhytoGen PHY 312 WRF	4.3	1.09	81.1	30.4	8.1	4	72.5	8.0	41-2
Americot AMDG-3-7040XF	4.7	1.05	81.4	32.0	9.5	3	72.8	9.1	42-1
Stoneville ST 4747GLB2	4.7	1.07	79.8	27.4	6.9	5	73.1	7.4	41-2
All-Tex Nitro 44B2RF	4.2	1.12	82.2	33.9	8.8	3	72.2	8.2	41-2,41-3
PhytoGen PHY 417 WRF	3.8	1.06	80.4	29.1	8.7	5	73.7	8.4	41-1,41-3
Deltapine DP 1410 B2RF	4.1	1.15	81.4	33.2	7.3	3	73.5	8.0	41-1
Americot AMDG-7824	4.5	1.03	80.0	26.5	8.4	3	73.3	8.5	31-4,41-4
FiberMax FM 2007GLT	4.3	1.11	81.2	31.3	7.4	4	76.2	7.8	31-2,41-1
Stoneville ST 4946GLB2	4.8	1.10	82.3	33.0	8.6	3	73.6	8.6	31-4,41-3
NexGen NG 4545 B2XF	4.5	1.07	81.3	32.0	6.6	2	73.4	8.6	41-3
NexGen NG 1511B2F	4.8	1.03	80.1	28.8	8.8	3	70.7	8.2	41-4,51-3
NexGen NG 3406B2XF	4.3	1.06	80.9	29.4	10.3	3	72.5	8.1	41-1,41-2
Deltapine DP 0912 B2RF	5.0	1.04	80.5	30.3	8.5	4	71.8	8.0	41-2,41-4
Americot AMDG-5964-B2XF	5.1	1.03	79.4	29.6	6.5	3	71.5	8.6	41-3,41-4
PhytoGen PHY 222 WRF	5.0	1.08	81.9	29.9	8.6	3	72.3	8.3	41-3,41-4
PhytoGen PHY 333 WRF	4.3	1.09	80.4	29.8	8.2	4	71.8	8.8	41-3,41-4
Americot AMDG-3X2XF	5.2	1.05	81.1	32.4	8.2	2	72.6	8.9	41-3,42-1
FiberMax FM 2011GT	4.1	1.09	82.2	31.1	7.2	5	74.1	8.0	41-1
Deltapine DP 1044 B2F	3.9	1.06	79.9	29.9	10.6	4	73.8	8.0	41-1,41-2
FiberMax FM 1830GLT	4.9	1.09	80.3	31.1	6.3	2	73.8	7.6	41-2
Americot AMDG-1-5999B2XF	4.9	1.13	80.0	31.9	6.6	3	71.9	8.9	42-1
BRS 335	3.6	1.10	80.6	31.1	7.5	5	73.4	7.3	41-2

Table 4A. Fiber quality results from the dryland uniform cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 2334GLT	4.4	1.14	81.5	32.8	6.5	2	76.1	8.0	31-2,41-1
FiberMax FM 2484B2F	4.4	1.12	81.2	32.7	7.0	3	75.8	7.8	41-1
FiberMax FM 2322GL	4.8	1.10	81.4	33.4	6.2	3	73.1	8.3	41-1,41-4
Dyna-Gro DG2615B2RF	4.5	1.08	80.5	32.3	9.6	2	75.1	9.2	31-4,32-1
Dyna-Gro DG3544B2XF	5.2	1.11	83.2	34.3	6.1	3	75.2	7.6	41-1,41-2
PhytoGen PHY 339 WRF	4.2	1.08	81.2	31.5	9.0	3	74.1	8.3	41-1,41-2
Seed Source Genetics SSG UA 222	4.1	1.10	80.0	30.8	9.2	5	73.1	8.0	41-1,41-2
FiberMax FM 1900GLT	4.5	1.10	80.9	30.7	6.8	4	72.5	8.4	41-3,41-4
Deltapine DP 1212 B2RF	4.9	1.10	80.7	31.9	7.8	3	70.8	8.4	41-4,51-3
Deltapine DP 1518 B2XF	4.3	1.09	81.1	29.5	8.3	5	72.2	7.4	42-1,51-1
All-Tex Concho B2XF	5.0	1.05	80.5	29.3	7.3	2	74.6	8.1	31-2,41-1
BRS 293	4.5	1.06	80.6	32.3	9.2	3	74.2	8.8	41-3
Seed Source Genetics SSG HQ 210 CT	4.3	1.06	80.9	30.9	8.1	3	74.6	7.6	41-1
BRS 286	4.4	1.03	80.0	31.2	8.1	3	73.3	7.9	41-1,41-2
PhytoGen PHY 725 RF	4.3	1.13	82.1	34.1	8.2	3	71.2	8.6	42-1,51-3
Deltapine DP 1219 B2RF	4.8	1.05	79.9	30.7	7.7	2	74.7	8.3	41-1
Deltapine DP 1522 B2XF	4.9	1.05	80.7	30.1	10.0	3	72.1	8.0	41-2,41-4
BRS 269	4.2	1.13	80.2	32.7	7.8	1	76.1	8.2	31-2,41-1
Mean	4.5	1.08	80.9	31.1	8.0	3	73.3	8.2	
c.v.%	6.1	2.3	0.8	3.9	9.0	33.8	1.4	3.7	
LSD 0.05	0.5	0.04	1.1	2.0	1.2	2	1.7	0.5	

Table 5. Yield and agronomic property results from the dryland uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties							% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	22-Sep	Resistance
Stoneville ST 4946GLB2	853	29.6	46.1	40.2	32.7	6.0	9.8	7.0	33.9	63	5
FiberMax FM 2011GT	793	30.0	45.0	39.3	28.2	5.1	9.9	7.1	28.1	79	5
PhytoGen PHY 339 WRF	782	30.1	45.4	38.6	28.5	3.9	8.3	6.3	23.6	70	4
Dyna-Gro DG2615B2RF	767	30.1	46.5	40.3	32.3	5.4	9.6	6.9	31.5	58	6
NexGen NG 1511B2F	765	30.8	43.0	42.7	31.7	4.5	8.2	6.6	29.2	63	4
Americot AMDG-3X2XF	763	30.4	45.9	40.3	29.7	4.8	8.8	6.5	29.7	65	6
Americot AMDG-7824	743	30.3	44.6	44.5	36.2	5.7	8.6	7.4	34.1	81	5
All-Tex CT 15445 B2RF	741	29.9	47.6	39.5	31.2	4.6	8.5	6.5	27.7	83	6
Stoneville ST 4747GLB2	741	28.1	44.7	38.9	28.3	4.7	9.0	6.4	28.3	75	5
NexGen NG 3406B2XF	723	29.7	45.9	41.9	32.5	4.9	8.6	6.8	30.3	65	4
Deltapine DP 1212 B2RF	706	29.3	45.3	38.9	28.5	4.8	8.8	6.6	27.9	70	5
FiberMax FM 2322GL	698	31.0	41.7	43.3	31.4	5.0	8.3	7.6	28.7	68	5
All-Tex Nitro 44B2RF	690	26.3	47.2	36.4	27.7	4.7	9.9	6.1	28.2	70	5
Americot AMDG-3-7040XF	687	29.2	46.2	41.8	31.5	4.7	8.6	6.5	29.9	71	6
FiberMax FM 2334GLT	685	29.4	42.3	42.3	29.4	4.8	8.3	6.7	30.1	80	4
NexGen NG 3405B2XF	683	29.5	43.7	41.5	32.3	5.0	8.4	6.5	32.0	75	4
Deltapine DP 1410 B2RF	676	28.9	44.8	40.1	32.1	5.5	8.9	6.7	33.3	78	6
Americot AMDG-3-6951XF	673	28.5	43.3	41.6	29.4	4.2	8.3	6.3	27.1	65	5
Deltapine DP 0912 B2RF	667	28.9	46.8	38.6	28.2	4.6	9.0	6.3	28.1	70	4
PhytoGen PHY 499 WRF	657	30.0	45.0	40.5	31.4	4.3	8.5	6.4	27.4	70	5
PhytoGen PHY 333 WRF	657	29.6	43.6	41.5	31.0	5.1	8.7	7.0	30.3	68	4
FiberMax FM 2484B2F	655	28.0	46.7	39.3	29.6	4.3	8.9	6.1	27.7	75	5
PhytoGen PHY 312 WRF	655	29.6	46.1	41.6	31.2	4.2	9.0	7.2	24.4	65	4
BRS 335	649	29.9	48.9	39.0	29.8	5.4	9.5	6.6	31.9	53	5
FiberMax FM 2007GLT	643	28.8	47.2	38.8	28.0	4.7	8.7	6.1	29.9	75	6
PhytoGen PHY 444 WRF	640	30.8	44.5	40.8	28.9	4.5	9.1	6.9	26.4	58	6
PhytoGen PHY 417 WRF	635	31.1	43.9	41.3	30.8	4.8	7.6	6.1	32.4	68	6
NexGen NG 3500 XF	634	28.8	45.0	41.2	29.8	4.3	8.5	6.4	27.3	70	5
NexGen NG 4545 B2XF	633	29.3	47.4	39.7	31.0	4.9	8.9	6.4	30.9	71	5
Deltapine DP 1044 B2F	630	28.1	45.8	38.9	29.0	3.9	8.3	5.8	26.3	64	4

Table 5. Yield and agronomic property results from the dryland uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties								% Open Bolls 22-Sep	Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll			
		Lint	Seed	Picked	Pulled							
FiberMax FM 1900GLT	629	29.3	45.4	38.1	27.5	5.1	9.4	6.7	28.8	70	6	29
Deltapine DP 1518 B2XF	623	29.2	45.6	41.6	32.4	4.4	8.5	6.8	27.2	70	5	32
NexGen NG 3517 B2XF	620	27.5	46.4	39.6	31.6	5.0	8.5	6.0	33.0	73	5	30
Deltapine DP 1522 B2XF	618	29.0	43.9	40.7	28.9	4.2	8.3	6.4	27.2	68	5	31
Americot AMDG-5964-B2XF	607	28.7	47.1	38.0	26.8	4.3	8.0	5.6	28.8	70	6	31
FiberMax FM 1830GLT	602	30.0	43.5	42.1	33.5	5.2	8.3	6.7	32.2	78	5	28
Americot AMDG-2-6489B2XF	587	28.7	44.6	42.4	29.9	4.8	8.1	6.4	32.0	63	6	30
Americot AMDG-1-5999B2XF	547	27.3	47.0	39.3	31.0	4.8	8.9	6.1	30.7	78	6	29
Deltapine DP 1219 B2RF	534	28.7	45.6	40.5	30.5	4.4	8.2	6.0	29.4	60	5	29
Dyna-Gro DG3544B2XF	532	28.3	45.1	39.1	28.0	5.0	10.4	7.3	26.7	70	5	29
PhytoGen PHY 725 RF	525	24.6	43.7	37.9	29.3	4.8	9.1	5.9	31.1	65	3	30
BRS 286	519	27.8	47.2	38.1	29.6	4.7	9.3	6.2	28.9	63	5	28
All-Tex Concho B2XF	518	26.4	45.4	37.1	26.3	5.2	10.1	6.7	28.8	73	6	30
PhytoGen PHY 222 WRF	508	26.9	42.7	41.7	28.7	4.0	8.5	6.7	24.6	83	5	29
Seed Source Genetics SSG UA 222	491	28.1	46.4	37.2	29.5	5.4	9.9	6.5	30.8	50	5	27
BRS 293	489	29.6	46.3	37.7	28.5	5.5	9.2	6.2	33.4	50	5	28
Seed Source Genetics SSG HQ 210 CT	484	28.2	47.7	38.7	30.5	4.7	7.9	5.5	32.9	63	5	24
BRS 269	347	28.6	46.4	36.7	27.5	4.5	9.8	6.3	26.0	45	5	27
Mean	640	29.0	45.4	40.0	30.0	4.8	8.8	6.5	29.3	6.8	5	30
c.v.%	17.4	4.3	3.0	3.6	6.3	10.0	3.5	5.7	10.0	13.5	14.0	6.9
LSD 0.05	130	1.4	1.6	2.4	3.2	0.8	0.5	0.6	4.9	11	1	2

Table 5A. Fiber quality results from the dryland uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Stoneville ST 4946GLB2	4.8	1.06	81.2	30.9	7.2	2	70.1	9.6	42-1,42-2
FiberMax FM 2011GT	4.1	1.08	81.7	29.7	6.7	5	71.6	8.8	41-3,42-2
PhytoGen PHY 339 WRF	4.4	1.05	80.3	30.6	7.2	4	71.1	8.5	42-1,51-3
Dyna-Gro DG2615B2RF	4.6	1.08	81.6	32.1	7.7	2	73.7	9.2	32-2
NexGen NG 1511B2F	4.7	1.04	80.3	30.2	8.6	3	69.6	9.3	42-1,42-2
Americot AMDG-3X2XF	5.0	1.07	81.1	30.8	8.0	2	72.5	9.5	32-2,42-1
Americot AMDG-7824	4.8	1.00	79.5	25.4	7.2	2	69.2	9.5	42-1,42-2
All-Tex CT 15445 B2RF	4.4	1.05	81.5	32.6	8.4	4	71.2	8.8	42-2
Stoneville ST 4747GLB2	4.4	1.06	79.2	26.3	5.0	3	68.1	8.7	52-1
NexGen NG 3406B2XF	4.6	1.03	80.6	28.2	9.0	3	71.3	9.4	42-1
Deltapine DP 1212 B2RF	5.0	1.07	81.1	30.3	9.8	3	69.2	9.1	42-2,52-1
FiberMax FM 2322GL	4.6	1.06	79.5	30.0	6.9	3	71.2	9.2	42-1
All-Tex Nitro 44B2RF	4.0	1.12	81.6	33.1	8.4	7	67.1	8.4	52-1,52-2
Americot AMDG-3-7040XF	5.1	1.06	81.8	31.8	7.9	2	70.7	10.0	42-1
FiberMax FM 2334GLT	4.8	1.11	81.6	30.9	5.7	2	73.2	8.4	41-3
NexGen NG 3405B2XF	4.7	1.02	78.5	25.4	7.1	3	69.8	9.7	42-1,42-2
Deltapine DP 1410 B2RF	4.4	1.08	80.0	29.8	6.9	3	71.0	8.9	42-1,42-2
Americot AMDG-3-6951XF	5.1	1.01	80.4	30.3	7.8	3	70.0	9.7	42-1
Deltapine DP 0912 B2RF	5.0	1.03	80.1	29.2	8.0	3	71.3	9.2	42-1
PhytoGen PHY 499 WRF	4.8	1.06	82.1	30.3	9.4	4	71.9	9.4	42-1
PhytoGen PHY 333 WRF	4.5	1.09	81.1	29.2	6.8	4	68.3	9.5	42-2
FiberMax FM 2484B2F	4.0	1.11	80.7	32.5	5.5	4	71.6	8.0	41-2,41-4
PhytoGen PHY 312 WRF	4.6	1.08	81.0	28.3	7.1	3	69.8	9.2	42-1,42-2
BRS 335	4.6	1.08	80.1	29.9	7.2	3	72.3	8.9	41-3,42-1
FiberMax FM 2007GLT	4.3	1.08	79.8	30.8	5.5	4	71.4	8.7	41-4,42-2
PhytoGen PHY 444 WRF	3.9	1.10	80.2	29.3	7.2	2	72.8	9.7	32-1,42-1
PhytoGen PHY 417 WRF	4.4	1.02	80.1	27.7	8.0	3	71.4	9.5	42-1
NexGen NG 3500 XF	4.7	1.03	80.5	28.6	7.4	2	70.4	9.5	42-1
NexGen NG 4545 B2XF	4.9	1.04	80.4	27.6	6.5	2	72.4	9.6	32-2,42-1
Deltapine DP 1044 B2F	4.6	1.06	79.7	29.5	8.3	3	71.9	8.8	41-3,42-1

Table 5A. Fiber quality results from the dryland uniform cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1900GLT	4.2	1.07	79.8	28.5	6.6	3	71.5	8.9	41-3,42-1
Deltapine DP 1518 B2XF	4.7	1.05	80.4	28.4	7.3	4	70.6	9.1	42-1,42-2
NexGen NG 3517 B2XF	4.6	1.05	79.9	29.1	7.2	4	70.2	9.3	42-1,42-2
Deltapine DP 1522 B2XF	4.8	1.03	80.0	29.2	9.8	3	71.1	9.1	41-3,42-2
Americot AMDG-5964-B2XF	4.7	1.04	79.0	27.6	6.1	4	70.2	9.5	42-1
FiberMax FM 1830GLT	4.4	1.09	80.6	30.2	5.8	3	72.9	8.4	41-1,41-4
Americot AMDG-2-6489B2XF	4.9	1.01	80.0	26.9	7.0	3	70.9	9.6	42-1,42-2
Americot AMDG-1-5999B2XF	4.5	1.10	80.0	29.3	6.8	3	70.5	9.8	32-2,42-2
Deltapine DP 1219 B2RF	4.3	1.07	79.8	30.1	6.9	2	71.9	9.3	32-2,42-1
Dyna-Gro DG3544B2XF	4.9	1.08	81.9	31.7	6.5	2	73.2	8.7	41-3
PhytoGen PHY 725 RF	4.5	1.06	80.4	29.2	8.1	3	69.7	9.2	42-1,42-2
BRS 286	4.4	1.03	80.1	30.0	7.7	2	73.3	9.1	32-2,41-3
All-Tex Concho B2XF	4.5	1.12	80.3	31.3	6.9	3	72.6	8.5	41-1,42-1
PhytoGen PHY 222 WRF	4.6	1.04	80.6	28.3	8.1	4	68.5	9.4	42-2,52-1
Seed Source Genetics SSG UA 222	4.5	1.10	80.8	31.6	8.3	5	71.0	9.5	32-2,42-2
BRS 293	4.6	1.02	79.2	29.2	7.6	2	72.7	9.8	32-2
Seed Source Genetics SSG HQ 210 CT	4.6	1.03	79.5	30.6	7.6	2	72.4	9.3	32-1,42-2
BRS 269	4.6	1.07	80.6	28.9	6.4	2	73.4	9.5	32-2
Mean	4.6	1.06	80.4	29.6	7.3	3	71.1	9.2	
c.v.%	4.8	2.3	1.2	4.6	9.2	40.7	1.9	3.1	
LSD 0.05	0.4	0.04	1.6	2.3	1.1	2	2.2	0.5	

Table 6. Yield summary over four locations of the uniform cotton variety performance tests conducted by Texas A&M AgriLife Research Lubbock, 2015.

Designation	Overall Yield	Lubbock Irr Rank	Lubbock Dry Rank	Lamesa Irr Rank	Lamesa Dry Rank
PhytoGen PHY 417 WRF	940	3	13	2	27
FiberMax FM 2011GT	921	14	26	1	2
NexGen 3500 WRF	921	1	3	9	28
Americot AMDG-3-7040XF	920	2	10	12	14
Stoneville ST 4946GLB2	906	29	17	3	1
Americot AMDG-3X2XF	905	5	25	5	6
Americot AMDG-3-6951XF	878	13	1	6	18
PhytoGen PHY 312 WRF	871	8	9	8	23
Americot AMDG-2-6489B2XF	853	9	6	10	37
Stoneville ST 4747GLB2	853	24	11	13	9
Americot AMDG-7824	846	4	15	28	7
NexGen NG 4545 B2XF	846	12	18	7	29
Americot AMDG-5964-B2XF	839	16	22	4	35
NexGen NG 1511B2F	824	32	19	17	5
NexGen NG 3517 B2XF	824	23	5	16	33
Dyna-Gro DG2615B2RF	822	15	34	20	4
All-Tex CT 15445 B2RF	818	30	2	25	8
Deltapine DP 0912 B2RF	816	26	21	14	19
NexGen NG 3405B2XF	803	10	8	33	16
Deltapine DP 1044 B2F	796	33	27	11	30
All-Tex Nitro 44B2RF	795	35	12	23	13
NexGen NG 3406B2XF	794	18	20	29	10
FiberMax FM 2334GLT	791	6	31	30	15
PhytoGen PHY 333 WRF	791	22	24	21	21
PhytoGen PHY 339 WRF	790	39	36	19	3
Deltapine DP 1212 B2RF	778	7	39	32	11
PhytoGen PHY 444 WRF	776	17	7	37	26
FiberMax FM 2322GL	763	37	33	24	12
Americot AMDG-1-5999B2XF	761	25	29	18	38
PhytoGen PHY 499 WRF	760	34	4	35	20
Deltapine DP 1522 B2XF	757	11	47	22	34
FiberMax FM 2007GLT	752	27	16	36	25
Deltapine DP 1219 B2RF	739	20	46	15	39
Deltapine DP 1518 B2XF	732	21	40	31	32
FiberMax FM 2484B2F	730	41	32	27	22
BRS 335	729	42	30	26	24
Deltapine DP 1410 B2RF	725	43	14	39	17
PhytoGen PHY 222 WRF	704	28	23	38	44
Seed Source Genetics SSG UA 222	683	31	37	34	45
FiberMax FM 1830GLT	678	45	28	42	36
Dyna-Gro DG3544B2XF	664	19	35	45	40
BRS 293	647	36	42	40	46
BRS 286	633	40	44	43	42
FiberMax FM 1900GLT	630	38	38	48	31
All-Tex Concho B2XF	606	44	41	47	43
PhytoGen PHY 725 RF	601	46	45	44	41
Seed Source Genetics SSG HQ 210 CT	578	47	43	46	47
BRS 269	547	48	48	41	48

Table 7. Yield summaries of the irrigated and dryland uniform cotton variety performance tests at Texas A&M AgriLife Research Lubbock and the AG-CARES farm in Lamesa, 2010-2015.

Lubbock Irrigated							
Designation	2011	2012	2013	2014	2015	Average	Comp. ¹
	Five Year Average				Average ¹		
FiberMax FM 2011GT	1009	717	802	546	1024	820	
Deltapine DP 0912 B2RF	821	728	751	652	962	783	
Deltapine DP 1219 B2RF	949	725	750	456	981	772	
All-Tex Nitro 44 B2RF	877	888	592	435	913	741	
FiberMax FM 2484B2F	624	875	714	577	873	733	
Deltapine DP 1044 B2RF	917	596	647	554	919	727	
PhytoGen PHY 499 WRF	860	757	565	526	916	725	
PhytoGen PHY 725 RF	579	771	281	379	784	559	
	Four Year Average						
Stoneville ST 4946GLB2	810	607	531	954	726	745	
NexGen NG 1511 B2RF	821	621	499	923	716	735	
Seed Source Genetics SSG HQ 210 CT	823	535	590	757	676	633	
	Three Year Average						
PhytoGen PHY 339 WRF	600	615	883	699	723		

Lamesa Irrigated							
Designation	2010	2012	2013	2014	2015	Average	Comp. ¹
	Five Year Average				Average ¹		
Deltapine DP 1044 B2RF	1285	1036	1163	891	953	1066	
Deltapine DP 0912 B2RF	1052	948	980	958	931	974	
PhytoGen PHY 499WRF	1108	1071	882	873	677	922	
	Four Year Average						
Stoneville ST 4946GLB2	1115	1127	982	1093	1079	1111	
Deltapine DP 1219 B2RF	931	1262	1029	917	1035	1067	
FiberMax FM 2011GT	910	1040	943	1183	1019	1051	
NexGen NG 1511 B2RF	1027	867	866	889	912	944	
FiberMax FM 2484B2RF	955	917	824	753	862	894	
All-Tex Nitro 44 B2RF	866	833	696	823	805	837	
Seed Source Genetics SSG HQ 210 CT	860	692	477	501	633	617	
PhytoGen PHY 725 RF	458	601	664	540	566	598	
	Three Year Average						
PhytoGen PHY 339 WRF	885	821	875	860	894		

Lamesa Dryland							
Designation	2011	2012	2013	2014	2015	Average	Comp. ¹
	Five Year Average				Average ¹		
FiberMax FM 2011GT	363	337	276	493	793	452	
PhytoGen PHY 499 WRF	345	412	315	442	657	434	
Deltapine DP 1044 B2RF	306	306	378	457	630	415	
Deltapine DP 1219 B2RF	333	373	313	470	534	405	
Deltapine DP 0912 B2RF	306	328	257	440	667	400	
FiberMax FM 2484B2F	248	347	294	426	655	394	
All-Tex Nitro 44 B2RF	316	305	285	354	690	390	
PhytoGen PHY 725 RF	186	189	221	325	525	290	
	Four Year Average						
Stoneville ST 4946GLB2	342	376	468	853	510	490	
NexGen NG 1511 B2RF	271	292	359	765	422	402	
	Three Year Average						
PhytoGen PHY 339 WRF	244	483	782	503	468		
Seed Source Genetics SSG HQ 210 CT	403	291	484	393	384		

Lubbock Dryland							
Designation	2011	2012	2013	2014	2015	Average	Comp. ¹
	Five Year Average				Average ¹		
FiberMax FM 2011GT	572	363	445	395	682	491	
Deltapine DP 1044 B2RF	306	593	367	436	681	477	
Deltapine DP 0912 B2RF	306	499	359	399	705	454	
PhytoGen PHY 499 WRF	345	488	268	362	790	451	
All-Tex Nitro 44 B2RF	397	316	362	404	754	447	
Deltapine DP 1219 B2RF	522	333	399	385	525	432	
FiberMax FM 2484B2F	384	248	245	498	638	403	
PhytoGen PHY 725 RF	515	186	190	300	553	349	
	Four Year Average						
Stoneville ST 4969GLB2	395	365	499	724	496	492	
NexGen NG 1511 B2RF	481	269	304	720	444	440	
Seed Source Genetics SSG HQ 210 CT	403	400	227		570	400	392
	Three Year Average						
PhytoGen PHY 339 WRF	323	483	620	475	459		

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

Table 8. Yield, agronomic, and fiber property results from the irrigated regional cotton performance test at Texas A&M AgriLife Research Pecos, 2015.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	Height
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	3-Oct	Resistance	
PhytoGen PHY 499WRF	1123	31.7	43.0	41.7	31.6	5.0	8.8	7.0	29.7	44	4	27
Deltapine DP 1359 B2RF	990	31.3	41.9	40.7	31.9	4.5	7.8	6.0	31.1	36	4	27
PhytoGen PHY 755 WRF	913	30.2	46.0	36.2	26.5	4.1	9.0	5.6	26.6	78	4	24
FiberMax FM 2322GL	912	31.3	41.8	44.1	34.1	4.9	8.5	7.6	28.5	71	5	24
Deltapine DP 0912 B2RF	901	29.9	43.7	38.8	25.9	4.5	9.2	6.6	26.7	83	3	24
PhytoGen PHY 725RF	851	30.2	43.6	38.1	29.3	5.0	9.3	6.3	30.1	71	3	25
FiberMax FM 2484B2F	799	29.9	43.3	42.8	33.9	5.2	9.2	7.4	30.0	78	6	24
Mean	927	30.6	43.3	40.3	30.4	4.7	8.8	6.6	28.9	66	4	25
c.v.%	19.2	6.1	6.6	2.7	4.5	9.8	2.1	3.5	10.0	10.9	4.6	7.1
LSD 0.05	218	2.3	3.5	2.1	2.7	0.9	0.4	0.4	5.6	9	2	2

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Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 499WRF	4.6	1.09	80.8	30.5	7.5	5	74.2	7.2	41-2
Deltapine DP 1359 B2RF	4.5	1.10	79.9	31.3	5.8	2	76.0	7.0	41-1,41-2
PhytoGen PHY 755 WRF	4.5	1.10	81.5	31.8	7.5	3	74.9	7.1	41-1,41-2
FiberMax FM 2322GL	4.6	1.14	81.4	33.0	6.8	4	74.3	7.4	41-1,41-2
Deltapine DP 0912 B2RF	4.5	1.09	81.3	31.2	7.1	4	75.4	6.9	41-1,51-1
PhytoGen PHY 725RF	4.5	1.08	80.0	31.5	7.0	3	74.9	7.5	41-1,41-2
FiberMax FM 2484B2F	4.1	1.13	79.1	32.0	6.7	3	75.7	7.4	31-2,41-4
Mean	4.4	1.10	80.5	31.6	6.9	3	75.0	7.2	
c.v.%	7.8	4.9	1.6	10.2	15.9	44.8	3.8	7.8	
LSD 0.05	0.7	0.10	2.5	6.3	2.1	3	5.5	1.1	

Notes

Table 9. Yield and agronomic property results from the irrigated late planted cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	16-Oct	Resistance	Height
Americot AMDG-3X2 XF	1284	31.5	46.5	38.9	30.7	5.4	10.2	7.0	30	55	5	30
PhytoGen PHY 312 WRF	1247	29.8	45.6	38.0	29.6	5.8	10.7	7.1	30.9	40	5	32
NexGen NG 3500 XF	1241	31.5	46.5	38.4	29.1	5.0	10.0	6.7	28.6	59	5	30
Americot AMDG-3-6951 XF	1176	30.7	45.2	40.0	31.3	5.3	10.0	7.1	29.3	50	5	31
NexGen NG 4545 B2XF	1162	30.6	46.0	38.2	29.1	5.2	10.1	6.9	28.9	69	5	31
Americot AMDD-2-6489 B2XF	1161	31.8	45.7	39.7	30.7	6.0	10.0	7.2	33.1	60	5	32
Americot AMDG-7824	1156	31.9	45.6	39.7	31.8	5.5	10.2	7.3	30	44	5	32
NexGen NG 3406 B2XF	1147	31.3	47.0	37.6	30.4	5.4	10.1	6.7	30.2	46	5	30
PhytoGen PHY 333 WRF	1143	29.7	44.5	38.1	30.0	5.7	10.1	6.9	31.9	59	4	32
Americot AMDG-3-7040 XF	1127	29.9	46.5	37.3	29.4	5.4	10.6	6.8	29.2	51	6	30
Deltapine DP 0912 B2RF	1126	30.1	47.7	37.9	29.7	5.4	9.9	6.6	31	53	3	30
NexGen NG 3517 B2XF	1122	29.5	48.3	37.8	30.1	5.9	10.4	6.7	33	56	5	32
PhytoGen PHY 222 WRF	1103	30.3	48.5	38.2	29.8	5.6	10.3	6.9	30.7	61	5	32
NexGen NG 3405 B2XF	1091	31.3	45.8	37.3	28.6	5.5	10.2	6.7	30.6	40	5	31
FiberMax FM 2011GT	1090	31.6	45.7	40.5	30.9	6.5	11.6	8.4	31	44	5	26
Deltapine DP 1212 B2RF	1080	28.4	45.5	38.4	29.9	5.4	10.7	7.2	29.2	40	4	32
Americot AMDG-5964-B2XF	1079	29.2	46.2	39.3	29.3	5.3	10.0	6.9	30.5	51	5	32
Americot AMDG-1-5999 B2XF	1067	28.2	47.1	36.6	29.2	5.3	9.9	6.3	30.7	66	5	31
All-Tex CT 15445 B2RF	1058	31.1	44.7	37.7	30.4	5.1	10.2	6.8	27.7	28	6	30
Deltapine DP 1410 B2RF	1048	30.2	46.1	36.7	30.1	5.7	10.3	6.6	31.7	44	5	28
FiberMax FM 1320GL	1045	29.9	45.7	38.8	29.0	6.1	10.7	7.5	31.1	66	6	27
NexGen NG 1511 B2RF	1024	29.6	43.5	39.4	30.8	5.0	9.7	7.0	28.1	58	4	31
Stoneville ST 4747GLB2	991	28.9	45.1	38.4	29.9	5.9	9.9	6.8	33.8	44	5	29
FiberMax FM 1900GLT	979	29.2	46.7	36.3	28.6	6.1	11.2	7.1	31.4	34	5	28
Deltapine DP 1518 B2RF	949	30.5	46.8	38.5	30.5	5.3	10.2	6.9	29.3	39	5	29
Monsanto MON 15R511 B2XF	935	30.9	47.3	37.0	28.2	5.4	9.8	6.3	31.6	49	6	32
PhytoGen PHY 339 WRF	934	30.4	47.5	37.9	29.7	5.3	9.5	6.4	31.2	36	4	33
All-Tex DG 3109 B2XF	772	30.3	43.8	38.1	30.1	5.0	8.9	6.2	30.9	30	5	27
Mean	1083	30.3	46.1	38.2	29.9	5.5	10.2	6.9	30.5	49	5	30
c.v.%	14.9	3.5	3.4	2.5	3.5	4.7	3.0	3.2	4.8	31.2	14.4	8.5
LSD 0.05	190	1.3	1.8	1.6	1.8	0.4	0.5	0.4	2.5	18	1	3

Table 9A. Fiber quality results from the irrigated late planted cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Americot AMDG-3X2 XF	4.5	1.09	82.2	34.6	9.8	1	77.6	9.4	21-3,21-4
PhytoGen PHY 312 WRF	4.1	1.16	83.9	33.3	9.0	3	77.7	8.8	31-1
NexGen NG 3500 XF	4.6	1.07	81.7	32.6	8.8	3	76.2	8.9	31-3
Americot AMDG-3-6951 XF	4.3	1.09	82.8	33.4	9.2	1	76.4	9.0	31-1,31-3
NexGen NG 4545 B2XF	4.4	1.09	81.3	31.3	8.0	3	77.7	8.9	31-1,31-3
Americot AMDD-2-6489 B2XF	4.5	1.05	80.3	31.2	6.9	1	77.0	9.3	21-2,31-3
Americot AMDG-7824	4.0	1.04	79.0	26.9	9.2	2	78.9	9.2	11-2,21-2
NexGen NG 3406 B2XF	3.8	1.15	81.0	30.7	8.2	3	79.4	8.1	21-1,31-1
PhytoGen PHY 333 WRF	3.8	1.14	82.9	32.5	8.1	3	76.7	9.1	31-1,31-3
Americot AMDG-3-7040 XF	4.5	1.11	83.2	37.0	9.4	2	77.3	9.3	21-4,31-3
Deltapine DP 0912 B2RF	4.3	1.07	81.1	31.4	10.4	3	77.7	8.6	21-1,31-2
NexGen NG 3517 B2XF	4.0	1.14	81.5	32.5	9.4	2	78.6	9.1	21-1,21-2
PhytoGen PHY 222 WRF	4.1	1.13	82.7	33.1	8.6	3	76.5	8.6	31-1,31-2
NexGen NG 3405 B2XF	3.9	1.06	79.6	27.4	9.2	1	80.4	9.0	11-2,21-1
FiberMax FM 2011GT	3.8	1.14	81.2	33.3	7.3	2	79.3	8.1	21-2,31-1
Deltapine DP 1212 B2RF	3.6	1.17	82.2	34.1	10.2	4	77.0	8.4	31-1,31-2
Americot AMDG-5964-B2XF	3.8	1.14	81.1	32.6	7.8	3	77.7	9.0	21-1,31-1
Americot AMDG-1-5999 B2XF	4.1	1.15	80.0	32.9	7.4	2	75.2	9.0	31-2,31-3
All-Tex CT 15445 B2RF	4.0	1.13	83.2	34.1	10.5	5	76.7	7.8	31-1,41-1
Deltapine DP 1410 B2RF	4.0	1.16	80.2	32.9	8.5	3	79.2	8.5	21-1,31-1
FiberMax FM 1320GL	4.2	1.11	81.8	31.7	8.9	2	77.8	8.6	21-2,31-1
NexGen NG 1511 B2RF	4.0	1.07	81.2	32.1	10.7	2	77.6	8.7	31-1
Stoneville ST 4747GLB2	3.7	1.09	79.6	30.8	8.0	4	77.2	8.2	31-1,41-1
FiberMax FM 1900GLT	3.4	1.16	81.7	36.6	6.3	4	77.2	8.0	31-1,41-1
Deltapine DP 1518 B2RF	3.9	1.15	82.5	31.3	8.5	2	79.3	8.2	31-1
Monsanto MON 15R511 B2XF	3.7	1.16	79.9	31.4	8.2	1	82.0	8.4	11-2,21-1
PhytoGen PHY 339 WRF	3.9	1.13	82.1	33.1	8.8	2	79.4	8.3	21-1,31-1
All-Tex DG 3109 B2XF	4.0	1.11	82.5	33.1	9.0	4	75.6	8.4	31-2
Mean	4.0	1.11	81.5	32.4	8.7	2	77.8	8.6	
c.v.%	5.4	1.8	1.0	3.5	12.8	41.8	1.2	3.8	
LSD 0.05	0.4	0.03	1.4	2.0	1.9	2	1.6	0.6	

Table 10. Yield and agronomic property results from the irrigated new variety and strains cotton performance test at Texas AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	Height
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	17-Oct	Resistance	
All-Tex CT 15574 B2RF	1095	30.3	41.8	37.4	31.1	4.8	8.4	6.7	26.7	80	4	30
Bayer CropScience BX 1637 GLT	1082	29.7	47.4	35.2	30.1	7.1	11.1	7.5	33.9	70	7	27
PhytoGen PHY 444 WRF	1069	30.0	45.5	36.4	29.7	5.2	10.4	7.7	24.9	68	5	30
Bayer CropScience BX 1634 GLT	1037	27.9	44.9	36.4	30.8	5.6	10.0	7.1	28.8	91	6	33
PhytoGen PHY 333 WRF	1028	29.1	43.4	34.2	30.1	6.1	9.8	6.5	32.3	83	5	33
PhytoGen PHY 308 WRF	1022	27.2	44.1	33.8	27.8	5.5	10.2	6.6	28.0	74	4	32
All-Tex CT 12WSTR4-309-1 B2RF	1015	27.9	45.1	34.7	31.7	5.7	10.7	7.4	27.2	38	5	32
PhytoGen PHY 312 WRF	990	28.5	44.7	35.2	30.3	5.7	10.5	7.2	27.9	53	5	31
All-Tex Nitro-44 B2RF	990	29.1	47.2	32.6	27.6	5.7	11.2	6.8	27.1	65	5	29
Bayer CropScience BX 1636 GLT	989	29.9	45.2	37.2	29.9	6.0	11.6	8.5	26.3	68	7	28
PhytoGen PHY 499 WRF	980	28.2	44.2	35.1	29.5	5.3	9.7	6.8	27.5	83	4	32
PhytoGen PHY 243 WRF	972	28.0	45.2	33.6	27.0	5.2	10.6	6.6	26.5	71	5	29
PhytoGen PHY 339 WRF	955	29.5	44.7	34.4	30.3	5.4	9.3	6.4	29.2	78	4	29
FiberMax FM 1911GLT	949	28.9	45.7	38.2	31.3	6.8	12.1	9.3	28.0	79	7	27
FiberMax FM 2484B2F	945	29.7	46.0	35.1	30.5	5.4	10.1	6.9	27.3	76	5	28
PhytoGen PHY 223 WRF	940	27.0	46.6	33.9	28.2	5.2	10.4	6.7	26.6	81	5	30
Mean	1003	28.8	45.1	35.2	29.7	5.6	10.4	7.1	28.0	72	5	30
c.v.%	13.5	3.1	3.2	2.6	3.4	5.8	3.4	5.9	8.1	18.8	17.5	7.7
LSD 0.05	161	1.0	1.7	1.6	1.8	0.6	0.6	0.7	4.0	16	1	3

Table 10A. Fiber quality results from the irrigated new variety and strains cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
All-Tex CT 15574 B2RF	3.7	1.11	79.7	30.9	7.6	5	74.2	7.6	41-1,41-2
Bayer CropScience BX 1637 GLT	3.4	1.18	81.0	33.0	6.9	4	76.4	7.4	41-1
PhytoGen PHY 444 WRF	3.5	1.18	82.0	32.6	7.8	3	76.9	8.2	31-1,31-2
Bayer CropScience BX 1634 GLT	3.6	1.12	81.0	30.8	7.0	3	75.1	8.1	31-2,41-1
PhytoGen PHY 333 WRF	3.7	1.13	81.6	31.0	7.5	6	72.2	7.8	41-2
PhytoGen PHY 308 WRF	4.0	1.09	81.2	32.9	9.1	6	72.7	8.0	41-1,41-2
All-Tex CT 12WSTR4-309-1 B2RF	3.6	1.14	80.5	33.1	9.0	5	74.7	8.4	31-2,41-1
PhytoGen PHY 312 WRF	3.9	1.15	82.5	32.6	8.2	5	73.8	7.6	41-1,41-2
All-Tex Nitro-44 B2RF	3.7	1.18	82.2	34.7	8.1	5	73.8	7.2	41-1,51-1
Bayer CropScience BX 1636 GLT	3.2	1.21	80.2	32.5	7.3	4	76.6	7.5	31-1,41-1
PhytoGen PHY 499 WRF	3.8	1.12	82.1	33.6	9.3	5	73.4	7.9	41-1,41-2
PhytoGen PHY 243 WRF	3.5	1.16	80.0	30.4	8.6	4	74.8	7.7	41-1,41-2
PhytoGen PHY 339 WRF	3.5	1.16	81.7	31.7	8.9	4	75.8	7.3	41-1,41-2
FiberMax FM 1911GLT	3.6	1.16	81.5	32.7	8.1	4	77.5	7.4	31-2,41-1
FiberMax FM 2484B2F	3.5	1.18	80.8	33.5	7.1	3	78.1	7.3	31-1,41-1
PhytoGen PHY 223 WRF	3.6	1.16	81.5	33.6	7.4	6	73.0	7.4	41-1,51-1
Mean	3.6	1.15	81.2	32.4	8.0	4	74.9	7.7	
c.v.%	6.4	2.0	1.5	3.0	10.2	18.6	2.1	2.5	
LSD 0.05	0.4	0.04	2.1	1.7	1.4	1	2.8	0.3	

Table 11. Yield and agronomic property results from the irrigated regional high quality cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Yield	Agronomic Properties							% Open			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	Bolls 25-Sep	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 1830GLT	1233	31.7	45.1	42.3	32.5	5.0	9.0	7.3	29.2	33	5	29
Deltapine DP 1321B2RF	1171	29.7	45.8	41.0	34.3	5.3	9.3	6.8	32.3	26	5	30
PhytoGen PHY 552WRF	1169	28.0	43.4	40.1	31.8	4.2	7.9	5.9	29.0	30	5	30
FiberMax FM 2322GL	1168	32.1	40.5	44.4	32.4	5.3	9.2	7.8	30.1	19	6	30
FiberMax FM 2484B2F	1160	30.0	45.9	40.3	31.1	4.9	9.7	6.9	28.9	28	5	29
PhytoGen PHY 444WRF	1143	29.0	44.3	40.9	32.5	4.8	9.7	7.2	27.5	25	4	30
Ark 0606-50	1113	27.7	45.3	40.2	29.9	5.3	10.1	6.9	31.2	51	3	30
Ark 0703-10	1101	27.9	46.0	39.3	30.6	5.0	9.5	6.6	29.8	46	5	31
Stoneville ST 6448GLB2	1081	27.1	46.2	36.0	27.3	4.4	8.9	5.8	27.1	18	4	31
Deltapine DP 1555B2RF	1080	29.1	41.9	43.4	33.1	4.5	8.0	6.7	29.6	14	5	30
Deltapine DP 1410B2RF	1057	27.5	44.1	38.8	30.7	4.9	9.4	6.5	29.9	31	5	30
LA 11309134	1052	27.7	46.0	36.1	26.4	5.2	10.2	6.1	30.7	5	4	30
MD 87	1017	28.1	45.6	40.0	31.3	4.9	8.6	6.3	31.5	43	5	31
MD 10-5	1003	25.8	49.0	36.5	28.2	5.3	10.2	6.3	30.6	24	4	31
FiberMax FM 2334GLT	1000	30.1	42.8	42.2	32.0	4.6	8.4	6.8	28.6	26	5	29
Ark 0701-4	978	26.1	47.7	38.9	29.0	5.2	10.4	6.9	29.4	39	4	28
PhytoGen PHY 725RF	894	27.2	46.9	37.0	27.7	5.2	10.1	6.3	30.4	38	4	31
NM 13P1088	852	27.7	48.5	36.0	27.0	4.9	10.2	6.1	29.1	26	4	30
Mean	1071	28.5	45.3	39.6	30.4	4.9	9.4	6.6	29.7	29	4	29
c.v.%	10.2	4.9	3.4	4.2	7.6	10.8	3.4	6.4	11.0	41.1	16.1	5.6
LSD 0.05	129	1.6	1.8	2	2.7	0.6	0.4	0.5	3.9	16	1	2

Table 11A. Fiber quality results from the irrigated regional high quality cotton performance test at Texas A&M AgriLife Research Lubbock, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1830GLT	4.0	1.21	81.3	33.6	7.2	3	74.7	7.3	41-1,41-2
Deltapine DP 1321B2RF	4.1	1.12	81.5	31.5	9.4	4	71.2	7.6	41-2,51-1
PhytoGen PHY 552WRF	3.6	1.15	81.3	33.4	7.4	5	74.0	7.2	41-2
FiberMax FM 2322GL	4.7	1.13	80.5	31.4	6.7	4	73.6	7.7	41-1,41-2
FiberMax FM 2484B2F	3.8	1.17	81.3	32.5	7.3	4	75.8	7.1	41-1
PhytoGen PHY 444WRF	3.3	1.20	82.0	31.9	6.9	4	75.7	8.2	41-1
Ark 0606-50	4.0	1.10	78.6	30.9	8.7	3	72.8	7.7	41-1,51-1
Ark 0703-10	4.2	1.15	81.3	33.4	7.1	3	72.7	7.7	41-1,41-2
Stoneville ST 6448GLB2	3.7	1.18	80.1	31.0	6.8	3	74.5	7.9	41-1
Deltapine DP 1555B2RF	4.1	1.13	80.9	32.0	8.0	2	74.6	8.1	31-2,41-1
Deltapine DP 1410B2RF	4.2	1.17	79.8	30.8	7.5	6	71.9	7.6	41-2,51-1
LA 11309134	4.2	1.22	82.1	34.9	7.9	5	72.2	8.2	41-1,41-4
MD 87	3.8	1.14	80.6	31.8	8.6	4	72.3	7.3	41-2,51-1
MD 10-5	3.6	1.16	82.4	36.4	7.3	4	73.0	7.8	41-1,41-2
FiberMax FM 2334GLT	4.4	1.21	82.2	32.9	7.9	3	75.7	7.2	41-1
Ark 0701-4	3.6	1.17	81.7	33.7	6.8	3	75.3	8.0	31-2,41-1
PhytoGen PHY 725RF	3.8	1.18	81.4	35.8	8.0	3	70.6	8.1	41-4,51-3
NM 13P1088	3.9	1.17	81.6	34.8	9.4	6	70.4	7.3	51-1
Mean	3.9	1.16	81.1	32.9	7.7	4	73.4	7.6	
c.v.%	3.2	2.2	1.2	4.3	7.7	19.1	1.7	3.9	
LSD 0.05	0.2	0.05	1.7	2.5	1.0	1	2.2	0.5	

Table 12. Yield and agromonic property results from the irrigated root-knot nematode cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties								% Open Bolls 29-Sep	Storm Resistance	Height	RK/500cc soil	Log10 (RK)	LOG10) (mean sep. P=0.05)
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll						
		Lint	Seed	Picked	Pulled										
FiberMax FM 2011GT	1510	30.4	47.1	40.6	31.9	6.7	10.5	7.6	35.6	65	5	33	3210	3.500	fg
Stoneville ST 4946GLB2	1408	29.6	48.1	39.5	31.3	6.0	10.5	7.3	32.6	53	5	33	4320	3.618	c-g
Deltapine DP 1558NR B2RF	1367	31.4	45.2	41.6	32.2	6.0	9.9	7.3	34.1	38	5	35	1260	2.875	hi
Americot AMDG-7824	1335	30.8	45.1	41.5	31.9	5.3	9.5	7.1	30.6	59	5	34	24630	4.203	abc
Americot AMDG-3-6951 XF	1291	30.2	47.2	41.4	31.7	6.1	9.6	7.1	35.5	55	6	34	18150	4.094	a-e
FiberMax FM 1911GLT	1289	30.3	47.0	39.9	30.1	6.2	11.6	8.2	30.1	71	6	31	4740	3.588	d-g
Stoneville ST 6182GLT	1286	32.1	44.7	44.7	34.6	5.3	8.8	7.7	30.3	48	4	35	19830	4.187	abc
Deltapine DP 1454NR B2RF	1280	31.5	44.1	41.7	30.0	5.4	9.2	7.1	31.9	38	5	36	7230	3.695	b-g
NexGen NG 3500 XF	1278	30.1	46.8	38.9	29.2	5.1	9.5	6.5	30.4	64	5	33	14160	4.029	a-f
Bayer CropScience BX 1636GLT	1269	30.8	46.8	41.9	31.5	6.0	10.7	8.2	30.6	71	6	32	3300	3.264	gh
Americot AMDG-3X2 XF	1267	29.7	45.4	40.7	32.3	5.5	9.2	6.6	33.5	68	5	34	32640	4.418	a
NexGen NG 3517 B2XF	1241	28.1	47.0	38.5	29.9	5.1	9.4	6.2	31.5	63	5	34	36930	4.483	a
NexGen NG 3405 B2XF	1235	30.3	45.4	39.8	30.6	5.2	9.8	6.9	30.1	60	5	31	18000	4.150	a-d
PhytoGen PHY 308 WRF	1231	27.7	46.0	38.9	29.6	5.3	10.5	7.1	29.4	56	5	33	2970	3.273	gh
Bayer CropScience BX 1637GLT	1226	29.8	47.5	38.6	29.2	6.7	11.0	7.4	35.2	70	6	32	1980	3.140	ghi
FiberMax FM 2484B2F	1224	30.4	47.8	38.4	32.9	6.1	10.1	6.7	34.9	64	5	32	36180	4.468	a
NexGen NG 3406 B2XF	1222	30.1	45.9	40.4	31.1	5.5	9.5	7.0	31.7	68	5	31	19200	4.255	ab
Bayer CropScience BX 1532GLT	1220	32.7	42.7	43.8	33.9	5.3	9.0	7.7	30.4	64	5	33	3570	3.529	efg
PhytoGen PX 3003-04 WRF	1211	28.5	47.9	37.4	28.8	5.4	9.8	6.2	32.6	38	5	34	600	2.666	ij
Americot AMDG-1-5999 B2XF	1193	28.7	47.2	37.2	28.5	4.9	10.0	6.2	29.3	59	5	31	22650	4.245	ab
Americot AMDG-3-7040 XF	1168	30.3	47.0	38.4	28.3	5.0	9.4	6.3	30.4	61	5	33	43260	4.592	a
Americot AMDG-2-6489 B2XF	1154	30.4	46.9	40.3	30.4	5.7	9.7	6.9	33.2	61	5	33	30990	4.275	ab
Americot AMDG-5964-B2XF	1145	29.5	47.5	39.1	30.6	5.6	9.5	6.5	34.2	68	5	34	22680	4.263	ab
PhytoGen PHY 487 WRF	1140	28.3	46.8	39.4	28.6	4.7	8.9	6.2	30.2	46	5	36	1590	2.854	hi
Stoneville ST 5115GLT	1092	27.8	45.5	38.6	30.3	5.7	10.5	7.0	31.5	58	5	33	13530	4.005	a-f
PhytoGen PHY 417 WRF	1071	30.5	47.5	40.4	32.0	5.0	8.7	6.3	31.7	48	5	32	140	2.138	j
Stoneville ST 4949GLT	1063	30.0	44.0	42.1	31.5	5.2	9.4	7.2	30.5	49	5	34	15210	4.134	a-d
Stoneville ST 4848GLT	1058	29.8	45.2	41.3	33.1	5.5	9.4	7.1	31.9	68	5	31	30150	3.715	b-g
Bayer CropScience BX 1634GLT	1058	28.8	46.8	39.9	29.6	5.2	9.5	6.7	31.0	76	6	31	28530	4.367	a
PhytoGen 427 WRF	1048	28.6	47.2	40.3	29.0	4.4	9.3	6.5	26.9	58	5	34	1400	2.781	hi

Table 12. Yield and agromonic property results from the irrigated root-knot nematode cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Yield	Agronomic Properties								% Open Bolls 29-Sep	Storm Resistance	Height	RK/500cc soil	Log10 (RK)	LOG10) (mean sep. P=0.05)
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll						
		Lint	Seed	Picked	Pulled										
Bayer CropScience BX 1638GLT	1013	29.2	45.5	37.2	28.5	5.2	9.7	6.1	31.3	40	5	33	12360	4.051	a-f
NexGen NG 4545 B2XF	1010	29.1	46.1	39.0	29.7	5.1	9.3	6.3	31.5	59	5	32	15810	4.169	a-d
Mean	1206	29.9	46.3	40.0	30.7	5.5	9.7	6.9	31.7	58	5	33			
c.v.%	7.7	3.3	2.9	2.0	3.3	6.2	2.4	2.7	6.0	15.7	12.2	6.3			
LSD 0.05	109	1.1	1.6	1.4	1.7	0.6	0.4	0.3	3.2	11	1	2			

Table 12A. Fiber quality results from the irrigated root-knot nematode cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 2011GT	4.2	1.09	81.8	31.1	7.3	5	72.7	8.1	41-1,51-3
Stoneville ST 4946GLB2	4.2	1.11	82.5	32.8	8.8	5	71.4	8.9	42-1,42-2
DeltaPine DP 1558NR B2RF	4.6	1.11	81.9	33.3	8.4	5	73.1	9.6	32-2
Americot AMDG-7824	4.6	1.03	80.0	26.9	7.4	3	72.0	9.4	32-2,42-1
Americot AMDG-3-6951 XF	4.9	1.06	81.9	32.1	8.5	3	73.4	9.6	32-1,32-2
FiberMax FM 1911GLT	4.2	1.14	82.1	31.9	7.3	4	73.9	8.5	31-4,41-3
Stoneville ST 6182GLT	4.5	1.08	80.8	28.4	7.7	4	74.5	9.1	31-4
DeltaPine DP 1454NR B2RF	4.5	1.06	80.5	29.9	8.9	4	71.6	9.3	42-1
NexGen NG 3500 XF	4.8	1.08	81.5	31.9	8.5	3	72.4	9.2	42-1
Bayer CropScience BX 1636GLT	3.9	1.16	81.1	30.6	6.4	5	72.3	8.6	41-3
Americot AMDG-3X2 XF	4.8	1.06	81.3	32.7	8.5	5	71.1	9.2	42-1
NexGen NG 3517 B2XF	4.6	1.10	80.9	31.0	8.1	3	71.3	9.1	42-1
NexGen NG 3405 B2XF	4.3	1.03	79.3	26.2	7.7	3	73.6	9.3	31-4,32-2
PhytoGen PHY 308 WRF	4.0	1.11	83.1	34.4	8.1	6	68.6	8.8	42-2,52-1
Bayer CropScience BX 1637GLT	3.5	1.14	80.9	31.7	6.5	5	73.3	8.6	41-3
FiberMax FM 2484B2F	3.6	1.14	81.2	32.4	7.1	5	73.3	7.9	41-2
NexGen NG 3406 B2XF	4.4	1.09	82.3	31.2	8.4	3	72.1	9.0	41-3,42-2
Bayer CropScience BX 1532GLT	4.6	1.07	80.5	28.5	8.3	4	73.6	8.9	32-2,41-3
PhytoGen PX 3003-04 WRF	4.3	1.09	80.5	30.6	7.7	3	73.9	8.7	31-4,41-3
Americot AMDG-1-5999 B2XF	4.2	1.10	80.0	29.7	7.6	3	70.5	9.1	42-1
Americot AMDG-3-7040 XF	4.9	1.06	81.7	33.0	8.4	3	71.6	9.6	42-1
Americot AMDG-2-6489 B2XF	4.8	1.06	81.7	30.1	6.7	4	71.0	9.3	42-1,42-2
Americot AMDG-5964-B2XF	4.6	1.09	80.4	29.5	6.0	4	71.9	9.2	42-1
PhytoGen PHY 487 WRF	4.0	1.05	79.6	29.4	8.4	4	71.6	8.8	41-4,42-1
Stoneville ST 5115GLT	4.1	1.06	79.3	30.7	8.0	3	74.6	8.5	41-1,41-3
PhytoGen PHY 417 WRF	3.5	1.08	81.4	30.4	9.2	5	71.2	8.8	41-3,42-2
Stoneville ST 4949GLT	4.2	1.10	82.3	31.5	7.2	3	71.6	9.0	42-1
Stoneville ST 4848GLT	4.3	1.10	81.2	30.1	7.3	5	71.6	9.1	42-1
Bayer CropScience BX 1634GLT	3.8	1.12	81.7	31.4	7.3	4	72.7	8.9	41-3
PhytoGen 427 WRF	3.8	1.10	81.2	31.7	8.2	4	71.9	8.9	32-2,41-4

Table 12A. Fiber quality results from the irrigated root-knot nematode cotton performance test at the AG-CARES farm in Lamesa, 2015.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Bayer CropScience BX 1638GLT	3.8	1.12	80.1	31.0	8.1	5	73.2	9.6	32-1,42-1
NexGen NG 4545 B2XF	4.5	1.08	81.2	30.4	6.6	3	72.3	9.2	42-1
Mean	4.3	1.09	81.1	30.8	7.7	4	72.3	9.0	
c.v.%	4.9	1.7	0.8	3.0	10.1	28.3	1.4	3.0	
LSD 0.05	0.4	0.03	1.1	1.6	1.3	2	1.7	0.5	

Table 13. Results of the irrigated bacterial blight cotton performance screening test at Texas A&M AgriLife Reserach Lubbock, 2015.

Variety	Blight%	Waller-Duncan	Rating
Stoneville ST 5115GLT	0	f	resistant
FiberMax FM 1911GLT	1	f	resistant
All-TexAT15445 B2RF	1	f	resistant
Bayer CropScience BX 1637GLT	1	f	resistant
PhytoGen PHY 223 WRF	1	f	resistant
PhytoGen PHY 339 WRF	3	ef	resistant
FiberMax FM 2484B2F	3	ef	resistant
Bayer CropScience BX 1636GLT	4	ef	resistant
PhytoGen PX 2037-04 WRF	11	de	resistant
Dyna-Gro DG2615B2RF	18	d	partially resistant
11-11-607BB	28	c	partially resistant
11-11-307BB	29	c	partially resistant
11-11-505BB	36	c	partially resistant
Bayer CropScience BX 1532GLT	76	b	susceptible
PhytoGen PHY 312 WRF	80	b	susceptible
Bayer CropScience BX 1531GLT	81	b	susceptible
PhytoGen PHY 444 WRF	91	a	susceptible
Stoneville ST 4946GLB2	94	a	susceptible
Bayer CropScience BX 1634GLT	96	a	susceptible
Stoneville ST 6182GLT	98	a	susceptible
Bayer CropScience BX 1638GLT	100	a	susceptible
PhytoGen PX 2048-11 WRF	100	a	susceptible
Stoneville ST 4949GLT	100	a	susceptible
Stoneville ST 4848GLT	100	a	susceptible

MSD(0.05)

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Notes

Table 14. Variety index for the cotton performance tests conducted by Texas A&M AgriLife Research Lubbock, 2015.

Designation	Pages:	Uniform Ct var test	Location Summary	5 yr Summary	Late Plated	New Varieties	Root-knot Nematode	Bacterial Blight
All-Tex Concho B2XF	*	*						
All-Tex CT 12WSTR4-309-1 B2RF						*		
All-Tex CT 15445 B2RF	*	*			*			*
All-Tex CT 15574 B2RF						*		
All-Tex DG 3109 B2XF					*			
All-Tex Nitro 44B2RF	*	*	*	*		*		
Americot AMDD-2-6489 B2XF					*			
Americot AMDG-1-5999B2XF	*	*			*		*	
Americot AMDG-2-6489B2XF	*	*					*	
Americot AMDG-3-6951XF	*	*			*		*	
Americot AMDG-3-7040XF	*	*			*		*	
Americot AMDG-3X2XF	*	*			*		*	
Americot AMDG-5964-B2XF	*	*			*		*	
Americot AMDG-7824	*	*			*		*	
Bayer CropScience BX 1531GLT							*	
Bayer CropScience BX 1532GLT						*	*	
Bayer CropScience BX 1634 GLT						*	*	*
Bayer CropScience BX 1636 GLT						*	*	*
Bayer CropScience BX 1637 GLT						*	*	*
Bayer CropScience BX 1638GLT						*	*	
BRS 269	*	*						
BRS 286	*	*						
BRS 293	*	*						
BRS 335	*	*						
Deltapine DP 0912 B2RF	*	*	*	*	*			
Deltapine DP 1044 B2F	*	*		*				
Deltapine DP 1212 B2RF	*	*			*			
Deltapine DP 1219 B2RF	*	*		*				
Deltapine DP 1410 B2RF	*	*			*			
Deltapine DP 1454NR B2RF							*	
Deltapine DP 1518 B2XF	*	*			*			
Deltapine DP 1522 B2XF	*	*						
Deltapine DP 1558NR B2RF							*	
Dyna-Gro DG2615B2RF	*	*						*
Dyna-Gro DG3544B2XF	*	*						
FiberMax FM 1320GL					*			
FiberMax FM 1830GLT	*	*						
FiberMax FM 1900GLT	*	*			*			
FiberMax FM 1911GLT						*	*	*
FiberMax FM 2007GLT	*	*						
FiberMax FM 2011GT	*	*	*	*	*			
FiberMax FM 2322GL	*	*						
FiberMax FM 2334GLT	*	*						
FiberMax FM 2484B2F	*	*	*			*	*	*
Monsanto MON 15R511 B2XF					*			
NexGen NG 1511B2F	*	*	*	*	*			
NexGen NG 3405B2XF	*	*			*		*	
NexGen NG 3406B2XF	*	*			*		*	
NexGen NG 3500 XF	*	*			*		*	
NexGen NG 3517 B2XF	*	*			*		*	
NexGen NG 4545 B2XF	*	*			*		*	

Table 14. Variety index for the cotton performance tests conducted by Texas A&M AgriLife Research Lubbock, 2015.

Designation	Pages:	Uniform Ct var test	Location Summary	5 yr Summary	Late Plated	New Varieties	Root-knot Nematode	Bacterial Blight
PhytoGen PHY 222 WRF		*	*		*			
PhytoGen PHY 223 WRF						*		*
PhytoGen PHY 243 WRF						*		
PhytoGen PHY 308 WRF						*	*	
PhytoGen PHY 312 WRF		*	*		*	*		*
PhytoGen PHY 333 WRF		*	*		*	*		
PhytoGen PHY 339 WRF		*	*	*	*	*		*
PhytoGen PHY 417 WRF		*	*				*	
PhytoGen PHY 427 WRF							*	
PhytoGen PHY 444 WRF		*	*			*		*
PhytoGen PHY 487 WRF							*	
PhytoGen PHY 499 WRF		*	*	*		*		
PhytoGen PHY 725 RF		*	*	*				
PhytoGen PX 2037-04 WRF								*
PhytoGen PX 2048-11 WRF								*
PhytoGen PX 3003-04 WRF							*	
Seed Source Genetics SSG HQ 210 CT		*	*	*				
Seed Source Genetics SSG UA 222		*	*					
Stoneville ST 4747GLB2		*	*		*			
Stoneville ST 4848GLT							*	*
Stoneville ST 4946GLB2		*	*	*		*		*
Stoneville ST 4949GLT						*		*
Stoneville ST 5115GLT						*		*
Stoneville ST 6182GLT						*		*
11-11-307BB								*
11-11-505BB								*
11-11-607BB								*