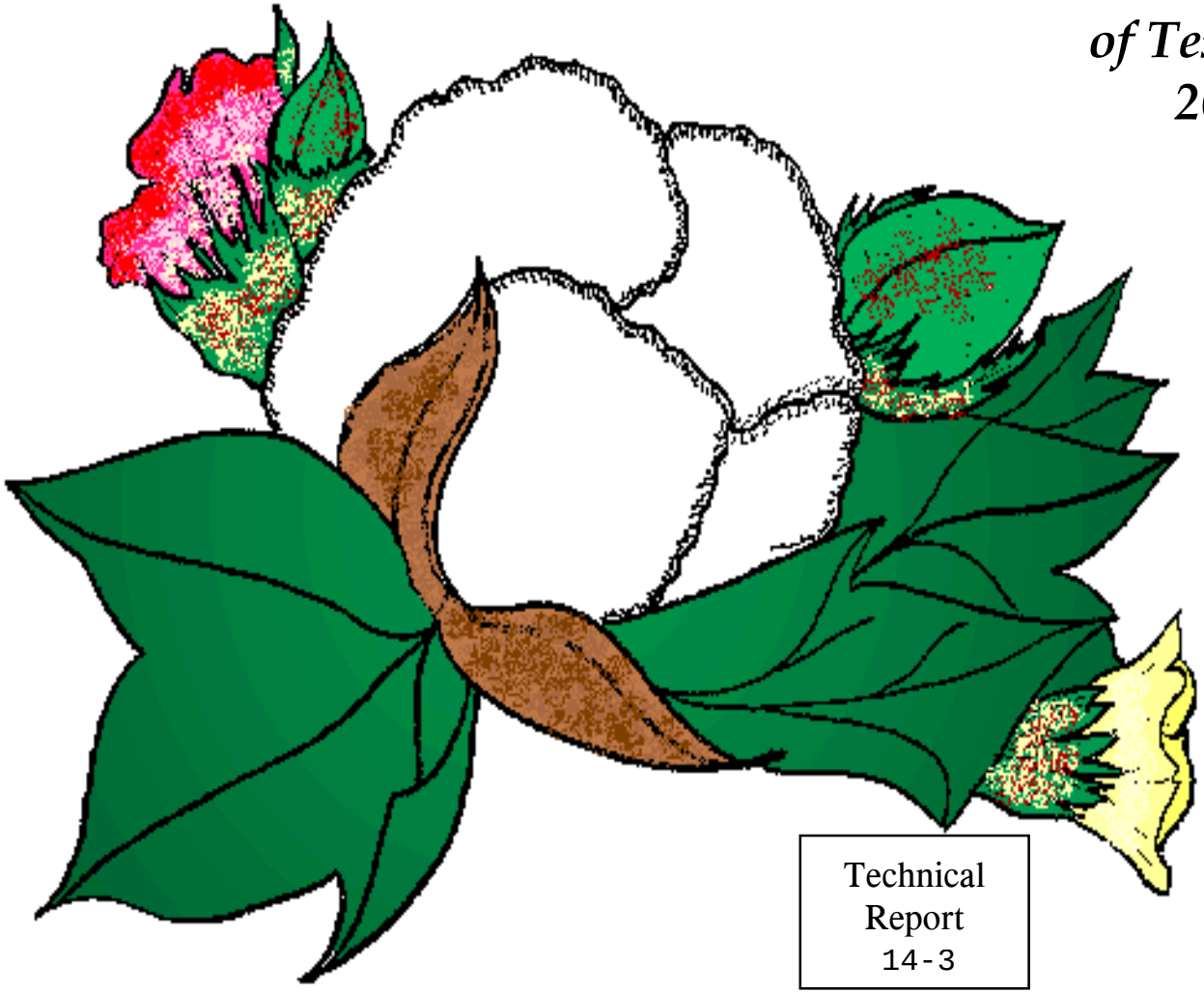
COTTON PERFORMANCE TESTS

in the Texas High Plains and Trans Pecos Areas of Texas 2013



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Cotton Performance Tests in the Texas High Plains and Trans-Pecos Areas of Texas 2013[1/]

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INTRODUCTION

Cotton performance trials were conducted during 2013 at Lubbock, Halfway, and Pecos Texas A&M AgriLife Research Stations. Lamesa variety tests were planted on the AG-CARES research farm.

The Lubbock tests were planted in either Amarillo or Olton soils, the Halfway tests in Pullman clay loam soils, AG-CARES tests in Amarillo fine sandy loam, and Pecos tests in Hoban silty clay loam soils.

The 2013 cotton growing season provided challenges to producers as did the prior two years. Later than normal freeze and early season storm events took their toll on the 3.76 million acres planted in the Texas High Plains and Panhandle regions. These events left producers with approximately 1.8 million acres to maintain through harvest that was, in many cases, two weeks behind normal. However, with the moderate temperatures (as compared to 2011) through most of the season, the crop developed at an excellent pace and by seasons end most had overcome the delayed start. Although the drought was lessened somewhat from 2011 and 2012, it still attributed to 52% abandonment of cotton acres in the Texas High Plains and Panhandle regions. There were however, some areas where significant rainfall was received and producers harvested some dryland production fields. As the season progressed, some beneficial rains assisted irrigation but an additional rainfall event in August would have been welcomed in most locations. In terms of heat unit accumulations, the area was closer to the long term average than had been observed in the prior two years. Insect pressure was considered light for most cotton pests. There were some hot spots during the season that suffered light to moderate thrips damage early as well as some worm damage to non-bt cotton varieties. As a result of the light insect pressure and moderate temperatures, overall fruit retention was optimal going into first bloom with reports and observations of as high as 100%. At seasons end and prior to harvest, freeze events provided assistance to some producers by preparing the crop for harvest but also, contributed to some poor quality issues for others. After all cotton had been harvested, the Texas High Plains and Panhandle regions had produced a total of 2.67 million bales of cotton. Quality was fair to good, with micronaire values averaging 3.63 and 4.01 from the Lubbock and Lamesa classing offices, respectively. Also, from the Lubbock classing office, staple averaged 35.8, strength averaged 30.3 g/tex, and an average uniformity of 79.9% was observed. Averages for length, strength, and uniformity from Lamesa were 35.5, 30.15g/tex, and 80.3%, respectively. Color grades were mostly 21 and 31 and leaf grades were 3 from both locations. As was previously mentioned, the season ending freeze event contributed to poor quality issues for some producers with bark content observed in 25.6 and 24.9% of bales classed at the Lubbock and Lamesa classing offices, respectively.

ACKNOWLEDGMENTS

Fiber properties were measured at the Fiber and Biopolymer Research Institute, Texas Tech University. Response to germination in saline conditions was estimated for entries in the uniform commercial variety trials by experiments conducted at Texas A&M AgriLife Research in Lubbock with financial support from the Ogallala Aquifer project.

Plains Cotton Improvement Program 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. Support from National Institute of Food and Agriculture is also gratefully acknowledged.

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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.

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 measure 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/]

Salt Tolerance- Greenhouse screening

Salt Index- Calculated by (Germination%*.5) + (Root Lenth %*.5), a measure of possible salt tolerance.

Germination %- Variety germinated in a salt solution, reported as the percent of control (same variety in RO water).

Root Length %- Variety germinated in a salt solution and the hypocotyl measured, reported as the percent of control (same variety in RO water).

[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.

Caparol and Dual-registered trademark of Syngenta
Prowl-trademark of BASF
Trust-registered trademark of Winfield Solutions
Staple-registered trademark of Dupont
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Carbine-trademark of FMC corporation
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Orthene-registered trade mark of Amvac
Prep-trademark of Bayer CropScience

Table 1. Production information for the irrigated regional cotton performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Test:	Regional Variety
Planting Date:	May 21
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @1.5pt/A applied pre-plant Dual Magnum @1qt/A applied June 17
Insecticide:	Orthene @3.2 oz/A applied after emergence
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations(furrow):	5.1 acre inches pre-plant 2.4 acre inches May 24 2.4 acre inches June29 1.3 acre inches July 27 2.0 acre inches August 10 2.8 acre inches August 30 16.0 acre inches total
Harvest Aids:	none
Freeze Date:	October 19
Harvest Date:	December 12

Table 2.Yield and agronomic property results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	23-Oct	Resistance	Height
Stoneville ST 5288B2F	946	24.8	39.3	39.5	32.8	6.5	9.9	6.7	38.3	51	5	25
PhytoGen PHY 367 WRF	887	23.4	38.4	38.6	30.5	5.0	9.1	6.2	31.6	65	3	23
NexGen NG 4111 RF	818	22.9	37.6	38.6	31.3	5.4	10.2	6.7	30.7	74	5	23
FiberMax FM 2011GT	802	24.8	37.3	41.1	33.6	6.0	11.1	8.2	30.3	75	5	17
NexGen NG 4010 B2RF	801	22.4	38.0	37.7	30.5	5.6	9.9	6.3	33.2	73	4	25
Dyna-Gro DG 13125 B2RF	786	24.2	38.1	41.1	33.6	5.3	10.3	7.4	29.5	74	4	22
Stoneville ST 5458B2F	783	22.6	36.5	38.2	31.9	4.7	10.1	6.6	27.3	34	4	25
Deltapine DP 1321 B2RF	773	24.6	37.9	41.8	33.9	4.8	9.4	7.1	28.1	75	4	23
Deltapine DP 0912 B2RF	751	23.4	39.3	38.5	31.4	5.0	9.8	6.5	29.4	75	3	21
Deltapine DP 1219 B2RF	750	25.1	40.0	39.0	31.1	4.6	8.4	5.7	31.0	55	4	28
Seed Source Genetics UA 222	717	20.8	36.1	38.9	32.5	5.7	10.6	7.0	31.5	45	5	24
FiberMax FM 2484B2F	714	22.1	37.1	38.4	31.3	4.9	9.9	6.5	29.2	76	4	21
FiberMax FM 9250GL	714	24.1	39.5	37.8	30.8	5.8	11.3	7.2	30.3	78	5	22
FiberMax FM 1944GLB2	701	22.1	38.8	34.9	28.1	5.5	10.3	5.8	33.0	65	4	23
NexGen NG 4012 B2RF	696	23.2	38.8	40.4	32.8	4.9	9.2	6.4	30.8	64	5	24
All-Tex AT Epic RF	692	22.4	37.2	38.9	32.4	4.5	10.0	6.7	26.0	64	5	24
Deltapine DP 1044 B2RF	647	22.2	38.9	37.0	30.7	4.4	10.0	6.2	26.4	55	5	23
NexGen NG 1511 B2RF	621	22.8	35.3	41.5	34.4	5.2	9.3	7.0	30.9	68	4	23
Stoneville ST 4946GLB2	607	21.8	36.8	38.4	31.4	5.9	11.0	7.2	31.6	50	5	21
PhytoGen PHY 375 WRF	602	21.0	37.4	40.0	32.4	5.2	9.3	6.4	32.2	64	4	22
PhytoGen PHY 339 WRF	600	23.3	40.7	38.4	31.8	4.5	8.7	5.7	30.7	71	4	21
Dyna-Gro DG 12353 B2RF	593	23.4	36.8	39.9	31.9	4.8	9.3	6.5	29.2	65	6	22
All-Tex AT Nitro 44 B2RF	592	23.0	37.6	38.1	31.1	5.4	10.6	6.8	29.9	55	5	19
FiberMax FM 2989GLB2	590	20.8	35.8	38.0	31.4	5.8	9.9	6.3	34.5	59	4	23
Seed Source Genetics HQ 210 CT	590	21.3	40.3	38.2	32.2	5.8	9.0	5.7	38.2	63	4	20
FiberMax FM 9058F	584	19.1	37.6	37.4	30.4	4.8	10.3	6.5	27.8	85	6	20
PhytoGen PHY 499 WRF	565	21.8	36.0	39.1	31.4	5.1	9.3	6.3	31.7	54	5	24
FiberMax FM 9180B2F	530	22.4	38.6	35.9	29.0	4.9	10.7	6.2	27.9	79	5	18
NexGen NG 2051 B2RF	530	18.7	39.0	33.5	26.5	5.6	10.4	5.6	33.9	76	4	20
NexGen NGX 3305B2RF	508	21.6	37.3	37.2	30.7	4.4	9.3	5.8	28.0	68	4	23

Table 2.Yield and agronomic property results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	23-Oct	Resistance	Height
NexGen NGX 2306B2RF	504	20.9	37.7	35.4	28.8	5.0	9.5	5.4	32.5	80	4	23
NexGen NG 3348 B2RF	409	19.2	37.5	36.3	30.1	4.9	11.0	6.6	26.9	71	4	18
NexGen NG 3306B2RF	405	22.4	38.4	38.5	31.4	4.7	9.7	6.2	29.3	54	5	19
UA 48	398	22.2	38.7	35.0	28.3	6.0	11.1	6.1	34.0	71	3	21
PhytoGen PHY 725 RF	281	16.7	32.4	34.7	27.8	4.5	10.5	5.9	26.4	48	3	20
Mean	642	22.2	37.8	38.1	31.1	5.1	9.9	6.5	30.6	65.0	4	22
c.v.%	19.5	7.4	4.9	2.3	3.3	6.8	3.5	4.9	7.1	15.9	18.0	10.1
LSD 0.05	176	2.3	2.6	1.8	2.1	0.7	0.7	0.6	4.4	14.0	1	3

Table 2A. Fiber quality results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Stoneville ST 5288 B2F	4.1	1.06	80.1	30.3	7.4	3	73.2	9.8	32-1,32-2
PhytoGen PHY 367 WRF	3.8	1.09	81.3	31.3	8.6	1	73.6	10.1	32-1
NexGen NG 4111 RF	3.9	1.09	82.7	33.3	7.2	3	71.3	10.5	32-2,33-2
FiberMax FM 2011GT	4.3	1.11	81.8	30.2	6.0	1	77.3	8.3	31-2
NexGen NG 4010 B2RF	4.6	1.10	81.4	32.2	6.8	1	74.0	9.4	31-4,32-2
Dyna-Gro DG 13125 B2RF	3.6	1.14	81.4	30.3	8.3	2	78.2	8.6	31-1
Stoneville ST 5458B2F	3.9	1.09	80.3	31.0	7.1	2	71.2	10.2	32-2
Deltapine DP 1321 B2RF	4.4	1.07	81.6	31.1	9.0	2	73.1	9.2	31-4,42-1
Deltapine DP 0912 B2RF	4.1	1.07	80.9	31.4	7.1	1	73.4	10.2	32-1,32-2
Deltapine DP 1219 B2RF	3.9	1.12	81.1	32.6	7.9	1	76.1	9.3	31-3
Seed Source Genetics UA 222	3.7	1.16	81.2	31.0	7.0	2	73.7	10.0	31-4,33-1
FiberMax FM 2484B2F	3.6	1.16	82.7	30.9	6.3	2	75.4	8.5	31-3,41-1
FiberMax FM 9250GL	4.1	1.14	81.6	32.7	5.0	3	76.7	8.3	21-2,41-1
FiberMax FM 1944GLB2	3.3	1.14	81.1	30.9	5.7	1	72.9	10.0	32-2,33-1
NexGen NG 4012 B2RF	4.0	1.11	81.7	32.3	6.8	2	73.7	9.8	31-4,33-1
All-Tex AT Epic RF	3.9	1.06	81.3	29.4	9.0	1	74.6	9.9	32-1
Deltapine DP 1044 B2RF	3.5	1.07	80.7	29.9	8.1	3	74.9	9.9	31-3,32-1
NexGen NG 1511 B2RF	4.1	1.08	81.7	32.0	8.3	2	72.2	10.4	32-1,32-2
Stoneville ST 4946GLB2	3.3	1.10	81.4	32.9	8.0	2	72.3	11.5	23-2,23-4
PhytoGen PHY 375 WRF	4.2	1.07	80.4	29.8	7.1	1	74.3	9.3	31-2,32-2
PhytoGen PHY 339 WRF	3.6	1.11	81.4	31.2	7.8	1	73.0	9.8	32-1,42-1
Dyna-Gro DG 12353 B2RF	4.2	1.07	81.7	31.5	7.2	2	74.0	10.0	31-3,32-1
All-Tex AT Nitro 44 B2RF	3.6	1.16	82.5	33.6	7.4	3	72.4	9.5	41-3,42-1
FiberMax FM 2989GLB2	3.9	1.09	80.2	28.9	6.3	1	74.4	8.8	31-2,42-1
Seed Source Genetics HQ 210 CT	4.2	1.08	80.6	32.1	7.7	2	77.4	8.7	31-1
FiberMax FM 9058F	3.5	1.10	80.3	30.6	6.3	2	76.4	8.4	31-1,31-2
PhytoGen PHY 499 WRF	3.7	1.11	81.5	31.3	8.3	3	69.5	11.6	33-2,33-3
FiberMax FM 9180B2F	3.6	1.11	81.7	32.4	6.3	2	74.9	9.2	21-2,42-1
NexGen NG 2051 B2RF	4.2	1.09	80.1	27.2	6.5	2	75.0	8.8	31-4,41-1
NexGen NGX 3305B2RF	3.6	1.10	81.1	30.4	7.6	2	75.4	9.6	31-4,32-1

Table 2A. Fiber quality results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
NexGen NGX 2306B2RF	3.9	1.09	82.6	30.3	7.2	2	74.2	9.2	31-4,32-2
NexGen NG 3348 B2RF	3.7	1.08	80.4	30.3	6.3	3	73.3	9.6	32-2
NexGen NG 3306B2RF	3.9	1.13	83.1	33.1	7.8	2	74.6	9.7	32-1,32-2
UA 48	3.3	1.18	80.7	32.9	5.6	2	73.6	10.1	22-2,32-2
PhytoGen PHY 725 RF	3.5	1.15	81.8	33.3	7.2	3	71.4	10.5	33-1,42-1
Mean	3.8	1.10	81.3	31.3	7.2	2	74.0	9.6	
c.v.%	6.0	1.9	0.6	3.4	9.2	35.3	2.1	7.0	
LSD 0.05	0.5	0.04	1.0	2.2	1.3	1	3.2	1.4	

Table 3. Yield summary over years of the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2009-2013.

	2009	2010	2011	2012	2013	Average	Comp. Average[1/]
Designation			Five Year Average				
Stoneville ST 5458 B2RF	1964	2014	995	888	783	1329	
PhytoGen PHY 367 WRF	1682	1789	873	1019	887	1250	
Deltapine DP 0912 B2RF	2029	1820	821	728	751	1230	
All-Tex Epic RF	1347	1854	930	810	692	1127	
Seed Source Genetics SSG HQ 210 CT	1789	1826	823	535	590	1113	
PhytoGen PHY 375 WRF	1821	1783	762	581	602	1110	
FiberMax FM 9058F	1421	1615	711	698	584	1006	
FiberMax FM 9180B2F	1172	1601	804	608	530	943	
NexGen NG3348 B2RF	1364	1575	722	612	409	936	
			Four Year Average				
Deltapine DP 1044 B2RF		1815	917	596	647	994	1120
PhytoGen PHY 499 WRF		1720	860	757	565	976	1102
			Three Year Average				
FiberMax FM 2989GLB2			1030	939	590	853	1237
FiberMax FM 2011GT			1009	717	802	843	1227
Deltapine DP 1219 B2RF			949	725	750	808	1192
NexGen NG4111RF			854	722	818	798	1182
All-Tex Nitro 44 B2RF			877	888	592	786	1170
FiberMax FM 2484B2F			624	875	714	738	1122
FiberMax FM 9250GL			654	830	714	733	1117
NexGen NG4010 B2RF			715	672	801	729	1113
PhytoGen PHY 725 RF			579	771	281	544	928

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

Table 4. Production information for the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

Test:	Uniform Variety
Planting Date:	May 15
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @1 qt/A applied pre-plant
Fertilizer:	65-30-0 lbs/A pre-plant 30lbN applied June 13
Irrigations (pivot):	12.52 acre inches during season
Insecticide:	Carbine @2.8lbs/A applied August 20
Growth Regulator:	Mepiquat @8oz/A applied July 25 Mepiquat @8oz/A applied August 20
Harvest Aids:	ET with Finish @2 oz+ 24oz/A applied October 17
Harvest Date:	November 18
Freeze Date:	October 19

Table 5. Yield and agronomic property results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Reserch in Halfway, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9-Oct	Resistance	Height
FiberMax FM 1944GLB2	1771	28.2	45.1	38.0	30.4	6.3	10.6	6.7	35.6	79	5	41
FiberMax FM 2011GT	1702	28.2	42.1	38.9	29.8	6.7	10.7	7.1	37.0	88	7	37
FiberMax FM 2484B2F	1652	28.8	42.1	39.5	32.3	5.5	10.0	6.8	31.6	75	5	41
Deltapine DP 0912 B2RF	1631	28.1	42.6	38.8	31.7	5.8	10.3	6.8	32.8	79	4	41
PhytoGen PHY 499 WRF	1629	26.9	40.7	39.8	30.9	5.1	9.5	6.6	31.0	81	5	41
NexGen NG 1511 B2RF	1628	29.3	41.9	40.4	32.4	5.8	10.4	7.4	32.0	80	5	39
FiberMax FM 9058F	1612	26.3	41.1	37.1	29.2	5.6	10.0	6.1	33.7	89	6	37
Stoneville ST 5288B2F	1610	28.9	43.9	38.4	30.1	5.9	11.2	7.2	31.5	78	7	40
PhytoGen PHY 367 WRF	1599	26.6	41.2	38.4	30.6	5.1	9.1	5.9	33.0	86	5	39
NexGen NG 2051 B2RF	1598	28.0	49.2	36.0	28.3	5.2	10.3	5.8	32.5	85	6	38
FiberMax FM 2989GLB2	1574	28.3	43.8	38.4	30.2	6.0	10.7	6.9	33.4	80	4	39
PhytoGen PHY 339 WRF	1559	27.7	43.3	39.3	31.3	5.3	9.2	6.1	34.4	81	4	42
NexGen NG 4111 RF	1550	28.7	44.6	37.8	30.4	5.7	10.0	6.3	34.2	80	6	38
Stoneville ST 5458B2F	1544	27.1	43.5	36.5	28.4	5.6	10.5	6.3	31.9	80	5	40
Stoneville ST 4946GLB2	1543	27.1	40.7	39.3	31.0	6.0	10.7	7.0	33.4	76	5	39
NexGen NG 4010 B2RF	1536	25.9	42.8	35.5	27.4	5.4	10.2	5.8	33.4	81	6	39
All-Tex AT Nitro 44 B2RF	1533	26.7	44.2	37.0	29.4	5.9	11.2	6.9	31.7	73	6	39
FiberMax FM 9180B2F	1459	25.3	43.2	35.7	28.4	6.1	11.2	6.5	33.2	84	7	38
Dyna-Gro DG 12353 B2RF	1427	30.6	42.8	39.6	30.7	5.6	10.1	6.9	32.2	65	7	41
PhytoGen PHY 725 RF	1425	27.3	42.0	35.6	29.0	6.0	10.5	6.1	34.8	79	4	42
NexGen NG 3306B2RF	1425	27.3	45.0	35.7	29.3	4.9	9.5	5.5	31.4	73	6	40
NexGen NG 3348 B2RF	1405	26.3	42.8	36.1	28.4	5.5	10.4	6.2	32.2	88	5	39
PhytoGen PHY 375 WRF	1398	26.7	41.1	38.1	30.6	5.3	9.6	6.2	32.5	84	4	39
All-Tex AT Epic RF	1396	27.0	41.5	38.7	31.5	5.6	9.9	6.5	33.2	84	5	40
FiberMax FM 9250GL	1367	24.8	39.9	38.2	30.2	6.4	11.4	7.3	33.5	86	6	38
Seed Source Genetics UA 222	1339	26.1	40.7	39.4	32.2	5.6	10.1	6.9	32.1	89	5	38
Seed Source Genetics HQ 210 CT	1337	27.1	43.6	37.3	31.0	5.4	9.2	5.7	35.1	88	6	39
Deltapine DP 1321 B2RF	1330	27.7	41.0	37.7	26.9	5.8	10.1	6.3	35.1	80	5	39
NexGen NGX 3305B2RF	1327	26.7	42.9	36.6	30.2	5.2	9.9	5.9	32.0	81	5	42
NexGen NGX 2306B2RF	1319	26.0	44.7	35.9	27.0	5.1	9.7	5.6	33.1	86	4	39

Table 5. Yield and agronomic property results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Reserch in Halfway, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9-Oct	Resistance	Height
Dyna-Gro DG 13125 B2RF	1311	27.6	42.3	36.7	30.2	5.8	10.2	6.2	34.0	86	7	36
Deltapine DP 1219 B2RF	1308	26.8	42.3	37.4	30.2	4.8	8.9	5.5	32.3	50	6	44
Deltapine DP 1044 B2RF	1280	25.6	43.6	35.4	29.4	5.3	9.7	5.6	33.5	74	6	42
NexGen NG 4012 B2RF	1268	26.2	42.2	37.6	30.1	6.0	9.5	5.9	37.8	70	5	42
UA 48	1019	24.8	41.6	36.0	28.7	6.2	11.5	6.8	33.2	89	4	38
Mean	1469	27.2	42.7	37.6	29.9	5.6	10.2	6.4	33.2	80	5	40
c.v.%	12.5	5.9	5.0	2.8	3.7	4.7	4.4	5.7	4.9	8.7	16.0	5.6
LSD 0.05	259	2.3	3.0	2.2	2.3	0.5	0.9	0.7	3.3	10	1	3

Table 5A. Fiber quality results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1944GLB2	3.4	1.16	80.8	32.3	6.0	3	76.8	7.2	31-1,41-2
FiberMax FM 2011GT	3.2	1.16	81.3	31.6	6.2	4	78.4	7.8	31-1,31-2
FiberMax FM 2484B2F	3.5	1.13	80.4	31.3	6.2	2	78.9	7.9	31-1
Deltapine DP 0912 B2RF	4.2	1.13	81.5	31.7	6.5	2	73.9	8.0	31-2,51-1
PhytoGen PHY 499 WRF	4.0	1.14	82.2	32.3	7.9	3	75.3	8.1	31-1,41-2
NexGen NG 1511 B2RF	3.9	1.11	81.0	31.3	8.7	2	76.7	8.3	31-1,41-1
FiberMax FM 9058F	3.1	1.14	79.5	29.7	5.7	3	79.1	7.2	31-1,41-1
Stoneville ST 5288B2F	4.0	1.13	80.4	31.9	7.0	3	75.7	8.8	31-1,41-3
PhytoGen PHY 367 WRF	3.4	1.11	82.1	31.8	7.2	2	76.1	8.4	31-1,41-1
NexGen NG 2051 B2RF	3.6	1.10	80.4	30.0	6.6	3	78.0	7.6	31-1,31-2
FiberMax FM 2989GLB2	3.4	1.08	79.1	29.8	7.4	2	77.3	8.0	31-1,31-2
PhytoGen PHY 339 WRF	3.6	1.16	82.0	30.7	8.0	3	74.0	7.5	31-2,51-1
NexGen NG 4111 RF	3.4	1.09	80.8	32.1	7.6	2	79.2	8.8	21-1,21-2
Stoneville ST 5458B2F	3.5	1.16	80.0	31.0	6.2	3	76.6	7.8	31-2,41-1
Stoneville ST 4946GLB2	3.7	1.11	81.2	31.5	8.5	3	75.9	8.3	31-2,41-1
NexGen NG 4010 B2RF	4.0	1.14	82.0	32.3	7.4	2	75.7	8.1	31-2,41-1
All-Tex AT Nitro 44 B2RF	3.5	1.21	82.3	33.9	7.3	4	75.7	7.6	41-1
FiberMax FM 9180B2F	3.5	1.18	82.5	33.4	6.1	4	79.3	7.5	31-1,31-2
Dyna-Gro DG 12353 B2RF	4.1	1.10	81.3	30.6	7.6	2	77.8	8.1	31-1
PhytoGen PHY 725 RF	3.8	1.20	82.0	33.8	6.9	2	77.6	8.3	31-1,31-2
NexGen NG 3306 B2RF	3.7	1.19	81.2	32.8	7.8	2	79.3	8.2	21-2,31-1
NexGen NG 3348 B2RF	3.0	1.13	80.7	30.5	6.6	3	78.3	7.7	21-2,41-1
PhytoGen PHY 375 WRF	3.3	1.14	80.6	30.3	7.0	3	79.7	8.2	21-2
All-Tex AT Epic RF	3.5	1.11	79.9	29.4	8.6	2	76.2	8.3	31-1,41-1
FiberMax FM 9250GL	3.1	1.11	79.4	29.8	6.5	3	77.0	7.5	31-1,41-2
Seed Source Genetics UA 222	3.4	1.16	81.2	31.7	8.8	3	79.0	8.0	31-1
Seed Source Genetics HQ 210 CT	3.5	1.10	79.6	32.0	7.8	2	77.5	7.6	31-2
Deltapine DP 1321 B2RF	3.8	1.13	81.3	30.4	9.1	3	77.5	8.3	21-2,41-1
NexGen NGX 3305B2RF	3.7	1.18	82.1	30.7	7.0	3	78.1	7.8	31-1,41-1
NexGen NGX 2306B2RF	3.6	1.14	82.1	31.0	6.9	3	78.2	8.3	21-2,31-2

Table 5A. Fiber quality results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Dyna-Gro DG 13125 B2RF	3.4	1.15	81.6	31.7	7.9	3	80.0	7.8	21-1,31-2
Deltapine DP 1219 B2RF	3.7	1.12	79.1	31.8	6.2	1	80.2	8.3	21-1,31-1
Deltapine DP 1044 B2RF	3.7	1.09	80.2	30.8	8.4	2	78.3	8.0	21-1,41-1
NexGen NG 4012 B2RF	3.7	1.11	80.9	30.8	6.5	2	78.9	8.6	21-1,31-1
UA 48	3.9	1.21	83.1	34.9	6.4	2	79.1	8.1	21-2,31-1
Mean	3.6	1.14	81.0	31.5	7.2	2	77.5	8.0	
c.v.%	7.6	2.3	1.3	2.8	9.2	36.3	2.7	5.1	
LSD 0.05	0.6	0.05	2.1	1.8	1.3	2	4.3	0.8	

Table 6. Yield summary over years of the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2009-2013.

	2009	2010	2011	2012	2013	Average	Comp. Average[1/]
Designation			Five Year Average				
FiberMax FM 9058F	1538	2011	1249	1210	1612	1524	
Deltapine DP 0912 B2RF	1708	1881	1226	1103	1631	1510	
PhytoGen PHY 367 WRF	1521	1850	1035	1183	1599	1438	
Stoneville ST 5458 B2RF	1513	1720	1075	1332	1544	1437	
PhytoGen PHY 375 WRF	1346	1836	1218	1243	1398	1408	
All-Tex Epic RF	1420	1700	1327	1111	1396	1391	
FiberMax FM 9180B2F	1357	1670	1147	1209	1459	1368	
NexGen NG3348 B2RF	1693	1483	1131	1114	1405	1365	
Seed Source Genetics SSG HQ 210 CT	1127	1791	1086	752	1337	1219	
			Four Year Average				
PhytoGen PHY 499 WRF		1945	978	1233	1629	1446	1462
Deltapine DP 1044 B2RF		1814	1258	1100	1280	1363	1379
			Three Year Average				
All-Tex Nitro 44 B2RF			1366	1297	1533	1399	1506
FiberMax FM 2484B2F			1080	1363	1652	1365	1472
FiberMax FM 2011GT			1118	1268	1702	1363	1470
FiberMax FM 2989GLB2			1175	1221	1574	1323	1430
NexGen NG4111RF			1336	1048	1550	1311	1418
FiberMax FM 9250GL			1190	1227	1367	1261	1368
NexGen NG4010 B2RF			1005	1189	1536	1243	1350
Deltapine DP 1219 B2RF			1075	1167	1308	1183	1290
PhytoGen PHY 725 RF			1030	1084	1425	1180	1287

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

Table 7. Production information for the irrigated regional cotton variety performance test at Texas A&M AgriLife Research at the AG-CARES farm in Lamesa, 2013.

Test:	Uniform Variety
Planting Date:	May 8
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @1.5 pt/A applied pre-plant Caparol @1.5 pt/A applied May 8 Staple @ 2oz/A applied June 21
Fertilizer:	11-40-0 lbs/A applied pre-plant 30 lbs/A nitrogen applied June 26 (fertigation) 30 lbs/A nitrogen applied July 8 (fertigation) 30 lbs/A nitrogen applied July 25 (fertigation)
Irrigations(pivot):	3.7 acre-in applied pre-plant 8.40 acre-in applied May-September
Harvest Aids:	Bollbuster @1 qt/A + ET @2 oz/A applied October 24
Freeze Date:	October 19
Harvest Date:	November 7

Table 8. Yield and agronomic property results from the irrigated regional cotton variety performance test at the AG-CARES farm in Lamesa 2013.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Nov	Resistance	Height
Deltapine DP 1219 B2RF	1262	28.9	42.0	39.3	31.3	4.4	8.7	5.8	29.4	70	4	24
Deltapine DP 1044 BR2F	1163	29.1	43.7	35.7	29.0	4.3	9.1	5.4	28.2	83	4	23
NexGen NG 3306 B2RF	1131	28.3	42.8	38.8	30.5	4.6	9.0	6.0	29.5	80	4	23
Stoneville ST 5458B2F	1130	28.2	42.7	37.5	30.2	4.7	9.5	6.0	29.4	81	5	23
Stoneville ST 4946GLB2	1127	27.8	42.8	39.8	31.6	5.8	10.4	7.3	31.7	81	6	23
Stoneville ST 5288B2F	1060	28.1	42.1	39.1	31.7	4.9	9.8	6.6	28.7	83	5	24
FiberMax FM 2011GT	1040	29.8	40.6	40.0	31.5	5.6	10.9	7.8	28.9	76	6	21
NexGen NG 4111 RF	1036	27.5	39.6	39.9	31.8	5.5	9.5	6.7	32.7	71	5	23
NexGen NGX 3305B2RF	999	27.8	41.2	39.1	30.5	4.3	8.9	6.0	27.5	75	4	24
Deltapine DP 0912 B2RF	980	26.7	38.6	38.7	30.7	4.6	9.1	6.1	28.7	80	4	24
PhytoGen PHY 367 WRF	978	27.3	38.9	38.6	29.9	4.4	8.8	5.8	29.1	83	3	22
FiberMax FM 9250GL	973	27.6	42.9	37.5	29.5	5.6	11.0	6.9	30.6	78	6	22
FiberMax FM 2484B2F	917	27.1	40.2	37.9	30.5	4.5	9.8	6.3	27.1	80	5	22
FiberMax FM 9180B2F	896	25.8	41.5	36.1	28.4	5.0	10.4	6.2	29.2	85	6	20
PhytoGen PHY 339 WRF	885	28.5	40.4	36.7	28.6	4.5	8.6	5.4	30.6	79	4	21
PhytoGen PHY 499 WRF	882	27.4	40.0	39.7	31.5	4.8	8.9	6.2	30.4	81	5	26
All-Tex AT Epic RF	871	29.3	41.4	39.8	31.7	4.7	9.5	6.6	28.8	85	4	22
NexGen NG 1511 B2RF	867	26.5	38.5	39.1	30.5	4.4	9.4	6.3	27.4	78	5	16
NexGen NG 4010 B2RF	863	25.4	41.2	39.5	31.5	4.9	9.4	6.5	29.7	73	6	22
All-Tex AT Nitro 44 B2RF	833	26.2	42.4	35.6	28.5	4.9	10.5	6.2	28.6	86	5	21
Deltapine DP 1321 B2RF	830	28.4	40.3	40.1	30.6	4.7	9.5	6.7	28.1	79	4	23
FiberMax FM 2989GLB2	787	26.2	40.0	37.3	29.0	5.0	10.5	6.6	28.4	84	5	23
Seed Source Genetics UA 222	763	24.7	37.5	39.0	31.2	5.0	10.1	6.8	28.8	78	4	22
NexGen NG 3348 B2RF	748	25.4	40.5	37.0	28.8	5.1	10.3	6.4	29.4	81	6	19
NexGen NG 4012 B2RF	727	25.9	38.9	37.5	29.3	5.2	9.0	5.8	33.9	74	5	21
NexGen NG 2051 B2RF	721	23.0	40.7	35.4	27.2	4.7	9.7	5.6	30.1	81	6	19
FiberMax FM 9058F	698	24.7	39.6	38.5	30.1	4.7	9.7	6.4	28.2	81	6	21
NexGen NGX 2306B2RF	694	25.9	43.1	36.3	28.9	5.0	9.3	5.5	33.2	86	3	23
Dyna-Gro DG 13125 B2RF	693	27.3	40.0	39.2	30.1	4.8	9.6	6.5	28.7	91	5	21
FiberMax FM 1944GLB2	677	26.5	41.6	37.5	29.8	5.4	10.1	6.4	31.2	80	5	22

Table 8. Yield and agronomic property results from the irrigated regional cotton variety performance test at the AG-CARES farm in Lamesa 2013.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Nov	Resistance	Height
PhytoGen PHY 725 RF	601	23.2	38.0	35.6	27.0	3.9	9.9	5.9	23.4	74	3	22
Dyna-Gro DG 12353 B2RF	532	30.0	41.7	39.5	29.6	4.9	9.3	6.4	30.1	85	6	23
PhytoGen PHY 375 WRF	505	24.9	37.2	37.0	26.1	4.1	8.5	5.4	27.6	90	3	16
Seed Source Genetics HQ 210 CT	477	25.4	41.3	36.4	27.8	4.7	8.5	5.2	32.7	88	3	20
UA 48	407	26.8	41.2	37.1	28.3	4.8	10.2	6.4	27.8	79	4	20
Mean	850	26.9	40.7	38.0	29.8	4.8	9.7	6.2	29.3	81	4	22
c.v.%	21.9	6.2	4.5	3.1	3.5	7.8	2.8	4.5	7.7	7.4	19.7	13.4
LSD 0.05	261	2.3	2.6	2.4	2.1	0.8	0.5	0.6	4.6	8	1	4

Table 8A. Fiber quality results from the irrigated regional cotton variety performance test at the AG-CARES farm in Lamesa 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1219 B2RF	4.3	1.09	80.7	33.5	8.0	3	74.8	8.6	31-4,41-1
Deltapine DP 1044 B2RF	4.4	1.09	80.2	31.0	9.6	3	74.2	8.7	41-1,41-3
NexGen NG 3306 B2RF	4.5	1.11	81.6	33.6	8.4	2	72.8	9.1	31-4,42-1
Stoneville ST 5458B2F	4.6	1.05	80.2	29.8	8.3	4	71.6	9.5	32-2,42-2
Stoneville ST 4946GLB2	4.3	1.07	81.6	32.4	8.8	3	73.3	9.2	31-4,42-1
Stoneville ST 5288B2F	4.8	1.05	79.6	30.8	8.2	3	71.5	9.0	41-3,42-2
FiberMax FM 2011GT	4.5	1.08	81.3	31.3	7.7	3	74.8	8.6	31-4,41-1
NexGen NG 4111 RF	4.9	1.05	81.5	31.8	9.8	3	71.4	9.3	42-1
NexGen NGX 3305B2RF	4.4	1.09	81.3	31.8	8.4	2	72.9	8.7	41-3
Deltapine DP 0912 B2RF	4.9	1.02	80.3	28.9	9.2	3	70.7	8.9	41-4,42-2
PhytoGen PHY 367 WRF	4.2	1.07	80.8	31.2	9.5	3	73.3	8.9	31-4,41-3
FiberMax FM 9250GL	4.3	1.05	79.5	30.0	6.2	4	73.0	8.5	41-3,41-4
FiberMax FM 2484B2F	4.1	1.11	79.8	32.8	6.5	2	75.0	8.4	31-2,41-3
FiberMax FM 9180B2F	4.5	1.06	81.2	31.2	7.9	3	74.4	8.4	41-1,41-3
PhytoGen PHY 339 WRF	4.3	1.08	81.1	31.8	8.7	2	74.7	8.4	41-1,41-3
PhytoGen PHY 499 WRF	4.2	1.05	81.6	33.6	9.0	3	72.0	9.6	41-3,42-1
All-Tex AT Epic RF	4.3	1.04	81.2	30.1	9.8	2	71.4	9.5	42-1
NexGen NG 1511 B2RF	4.7	1.04	79.8	31.3	10.5	3	72.2	9.0	31-4,42-2
NexGen NG 4010 B2RF	4.8	1.06	80.5	30.6	8.2	4	73.4	8.9	41-3
All-Tex AT Nitro 44 B2RF	4.1	1.12	80.5	34.0	9.0	4	70.7	8.5	41-4,42-2
Deltapine DP 1321 B2RF	4.5	1.06	81.8	32.1	10.7	3	71.3	9.0	42-1
FiberMax FM 2989GLB2	4.6	1.06	80.0	30.0	7.0	3	73.1	8.6	41-3
Seed Source Genetics UA 222	4.5	1.09	80.4	30.4	9.3	4	71.4	8.8	41-4,42-1
NexGen NG 3348 B2RF	4.3	1.05	80.3	29.7	7.3	5	71.1	8.9	42-1,52-1
NexGen NG 4012 B2RF	4.6	1.04	80.4	28.9	7.5	3	71.7	9.2	42-1
NexGen NG 2051 B2RF	4.6	1.05	78.8	27.6	7.7	4	71.2	8.0	41-4
FiberMax FM 9058F	4.1	1.06	80.5	30.3	6.7	3	74.4	8.6	41-1,41-3
NexGen NGX 2306B2RF	4.5	1.09	82.2	33.3	8.0	3	69.5	8.7	42-1,52-1
Dyna-Gro DG 13125 B2RF	4.2	1.07	79.7	29.7	9.5	3	72.8	9.1	31-3,42-2
FiberMax FM 1944GLB2	4.2	1.08	78.7	29.1	6.7	2	75.1	8.1	41-1

Table 8A. Fiber quality results from the irrigated regional cotton variety performance test at the AG-CARES farm in Lamesa 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 725 RF	4.2	1.12	80.1	32.9	8.8	2	73.4	8.5	41-3,41-4
Dyna-Gro DG 12353 B2RF	4.7	1.02	80.2	30.3	8.6	3	72.5	8.6	41-3
PhytoGen PHY 375 WRF	3.7	1.04	79.3	30.4	8.1	4	70.9	9.3	42-1
Seed Source Genetics HQ 210 CT	4.9	1.00	79.4	28.9	8.7	3	72.2	8.8	41-3,42-1
UA 48	4.8	1.15	81.1	36.4	7.1	3	71.6	8.8	41-3,42-2
Mean	4.4	1.06	30.5	31.2	8.4	3	72.6	8.8	
c.v.%	5.0	2.2	1.3	4.5	8.3	30.9	1.9	3.7	
LSD 0.05	0.4	0.05	2.0	2.8	1.4	2	2.8	0.7	

Table 9. Yield summary over years of the irrigated regional cotton variety performance test at the AG-CARES farm in Lamesa, 2008-2013.

	2008	2009	2010	2012	2013	Average	Comp. Average[1/]
Designation			Five Year Average				
Stoneville ST 5458B2RF	1824	1657	1389	1028	1103	1400	
FiberMax FM 9058F	1782	1401	1036	811	698	1146	
PhytoGen 375 WRF	1729	1586	1094	780	505	1139	
FiberMax FM 9180B2F	1492	1382	957	801	896	1106	
NexGen NG3348 B2RF	1390	1328	935	770	748	1034	
Seed Source Genetics SSG HQ 210 CT	1381	1288	860	692	477	940	
			Four Year Average				
PhytoGen PHY 367 WRF		1948	1334	987	505	1194	1313
Deltapine DP 0912 B2RF		1562	1052	948	980	1136	1255
All-Tex Epic RF		1153	1250	975	871	1062	1181
			Three Year Average				
Deltapine DP 1044 B2RF			1285	1036	1163	1161	1423
PhytoGen PHY 499WRF			1108	1071	882	1020	1282

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

Table 10. Production information for the dryland regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Test:	Uniform Variety
Planting Date:	May 20
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @ 1.5pt/A applied pre-plant Dual Magnum @1qt/A applied June 12
Fertilizer:	100-20-0 lbs/A applied pre-plant
Rainfall:	11.66 inches during season
Irrigation:	8.4 inches pre-plant
Harvest Aids:	Firestorm @3.2oz/A applied November 7
Harvest Date:	November 21
Freeze Date:	October 19

Table 11. Yield and agronomic property results from the dryland regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock 2013.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height
Dyna-Gro DG 13125 B2RF	470	29.3	41.0	39.4	31.7	4.7	9.3	6.6	28.0	80	5	21
NexGen NG 4010 B2RF	468	27.8	41.5	37.0	29.4	4.2	8.6	5.4	28.9	75	5	21
NexGen NG 4111 RF	459	30.3	42.1	38.0	30.0	4.5	9.0	6.0	28.3	79	5	19
FiberMax FM 2011GT	445	29.5	42.6	40.4	32.0	5.2	10.5	7.6	27.5	79	6	18
FiberMax FM 9180B2F	442	27.1	44.4	33.0	25.9	4.5	9.8	5.3	28.1	86	6	19
Stoneville ST 5288B2F	437	28.4	41.1	38.5	31.7	4.8	9.4	6.3	28.7	55	5	19
Deltapine DP 1219 B2RF	399	28.9	40.8	38.5	30.8	4.0	8.2	5.6	27.6	56	5	22
All-Tex AT Epic RF	393	29.5	41.8	39.1	31.6	4.8	8.6	6.1	31.1	73	6	20
Deltapine DP 1044 B2RF	367	29.4	42.4	36.7	29.6	3.7	8.2	5.3	25.8	65	5	18
Stoneville ST 4946GLB2	365	30.7	43.0	37.9	30.2	5.0	10.3	6.7	28.3	70	5	19
All-Tex AT Nitro 44 B2RF	362	28.9	43.1	37.5	29.2	4.6	9.6	6.3	27.0	76	5	18
Deltapine DP 0912 B2RF	359	27.8	40.3	38.3	30.6	4.5	9.2	6.2	27.9	75	3	20
PhytoGen PHY 375 WRF	349	27.8	40.6	38.4	30.2	4.5	8.9	6.1	28.3	69	4	19
Deltapine DP 1321 B2RF	344	29.0	40.9	41.2	32.9	4.0	8.6	6.3	26.3	76	4	20
PhytoGen PHY 367 WRF	329	26.3	40.3	40.1	31.7	4.0	8.7	6.1	26.3	70	5	19
PhytoGen PHY 339 WRF	323	29.5	42.4	38.7	30.9	3.9	8.7	5.9	25.6	75	4	20
NexGen NG 2051 B2RF	317	24.0	42.9	32.4	24.8	4.0	9.6	5.0	25.9	83	5	17
Dyna-Gro DG 12353 B2RF	314	30.9	41.7	39.0	31.1	4.4	9.0	6.2	27.5	63	6	22
FiberMax FM 2989GLB2	312	28.5	41.1	38.1	31.0	5.0	9.9	6.5	29.0	75	5	19
FiberMax FM 9058F	311	27.3	42.2	37.7	30.2	4.2	8.9	5.9	27.0	78	6	17
NexGen NG 4012 B2RF	304	28.3	41.2	38.9	31.3	4.4	8.6	5.9	29.5	74	4	21
FiberMax FM 9250GL	295	29.1	44.1	36.0	29.0	5.1	10.7	6.5	28.5	83	6	18
Stoneville ST 5458B2F	293	29.7	42.5	39.8	32.4	4.7	9.2	6.5	28.4	53	5	18
Seed Source Genetics UA 222	286	27.6	41.9	36.5	29.6	4.6	8.9	5.7	29.2	75	4	20
NexGen NG 3348 B2RF	280	27.6	44.0	36.3	29.3	4.5	10.0	6.1	26.9	80	5	19
NexGen NGX 2306B2RF	280	26.0	43.4	35.7	28.2	4.4	9.2	5.4	29.2	74	3	21
FiberMax FM 1944GLB2	269	28.0	39.5	37.9	30.7	4.7	9.2	6.0	29.8	61	6	18
NexGen NG 1511 B2RF	269	30.5	40.3	42.5	33.6	4.1	8.4	6.7	25.7	78	4	20
PhytoGen PHY 499 WRF	268	29.1	40.7	40.1	32.6	4.6	8.7	6.3	29.1	60	5	21
FiberMax FM 2484B2F	254	28.9	40.1	37.7	29.9	4.0	8.8	5.8	25.9	74	5	19

Table 11. Yield and agronomic property results from the dryland regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock 2013.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height
NexGen NGX 3305B2RF	229	28.4	43.5	37.3	30.5	4.0	8.9	5.7	26.5	68	4	18
Seed Source Genetics HQ 210 CT	227	28.7	45.2	35.9	28.5	4.1	8.3	5.2	28.4	75	5	18
NexGen NG 3306 B2RF	210	29.6	45.3	38.1	31.5	4.1	8.6	5.6	27.2	78	5	19
PhytoGen PHY 725 RF	190	25.2	41.7	33.8	27.0	3.7	9.5	5.3	23.4	76	3	19
UA 48	150	24.5	40.7	34.7	27.3	5.0	10.6	6.0	28.6	76	4	17
Mean	325	28.3	42.0	37.7	30.2	4.4	9.1	6.0	27.7	73	5	19
c.v.%	34.3	5.9	5.3	3.8	4.2	7.0	4.2	5.9	7.0	14.1	18.5	10.0
LSD 0.05	157	2.3	3.1	2.9	2.6	0.6	0.8	0.7	3.9	14	1	3

Table 11A. Fiber quality results from the dryland regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock 2013.

Designation	Micronaire	Length	Uniformity	Strenth	Elongation	Leaf	Rd	+b	Color Grade
Dyna-Gro DG 13125 B2RF	4.1	1.05	80.7	30.6	9.0	2	76.7	9.0	31-1,31-3
NexGen NG 4010 B2RF	4.3	1.03	79.8	30.0	7.8	2	73.4	9.6	32-2
NexGen NG 4111 RF	4.1	1.00	80.1	31.3	8.1	2	73.1	9.4	32-2,42-1
FiberMax FM 2011GT	3.5	1.08	78.2	29.8	6.5	3	78.2	7.6	21-1,41-2
FiberMax FM 9180B2F	3.8	1.08	79.9	30.7	7.2	2	76.3	8.5	31-1,41-1
Stoneville ST 5288B2F	4.6	1.04	78.7	30.0	7.3	3	72.9	9.8	32-2
Deltapine DP 1219 B2RF	3.6	1.05	79.3	30.4	7.1	2	74.9	9.6	22-2,32-2
All-Tex AT Epic RF	4.0	1.04	80.4	29.6	8.0	2	77.0	9.7	22-1,31-3
Deltapine DP 1044 B2RF	4.1	1.05	79.7	29.7	7.6	1	73.7	9.3	32-2,41-3
Stoneville ST 4946GLB2	4.3	1.03	81.0	32.0	7.8	2	76.0	9.2	31-3
All-Tex AT Nitro 44 B2RF	3.8	1.10	79.8	31.9	7.7	3	74.5	8.8	31-4,41-3
Deltapine DP 0912 B2RF	4.6	1.02	80.1	30.1	7.5	3	72.6	9.3	41-3,42-1
PhytoGen PHY 375 WRF	4.0	1.03	79.1	29.8	7.7	2	74.2	9.2	32-1,41-3
Deltapine DP 1321 B2RF	4.2	1.02	80.2	31.5	8.1	3	75.4	9.4	31-3,32-1
PhytoGen PHY 367 WRF	4.0	1.02	80.0	29.7	7.7	1	74.2	9.7	32-1,32-2
PhytoGen PHY 339 WRF	3.7	1.05	79.5	30.4	8.1	1	75.9	9.0	21-4,41-3
NexGen NG 2051 B2RF	3.9	1.02	78.4	27.6	6.2	2	74.0	8.6	31-1,42-2
Dyna-Gro DG 12353 B2RF	4.8	1.00	80.1	29.3	6.9	1	74.0	9.0	32-2,41-3
FiberMax FM 2989GLB2	4.5	1.05	80.4	29.2	5.8	1	74.4	8.9	31-4
FiberMax FM 9058F	3.7	1.05	78.8	29.3	6.6	2	77.4	8.7	21-2,31-2
NexGen NG 4012 B2RF	4.3	1.03	79.6	29.3	6.4	1	74.6	9.2	31-3,31-4
FiberMax FM 9250GL	4.1	1.03	78.4	27.5	5.9	2	77.2	8.9	21-2,31-1
Stoneville ST 5458B2F	4.6	1.02	79.2	29.4	6.5	2	73.8	9.7	32-2
Seed Source Genetics UA 222	4.1	1.08	80.1	30.6	8.6	2	74.1	9.0	31-3,42-1
NexGen NG 3348 B2RF	3.8	1.05	79.7	29.7	6.9	3	73.5	9.5	31-3,42-1
NexGen NGX 2306B2RF	3.9	1.05	80.9	30.2	7.3	2	73.9	9.6	32-1,32-2
FiberMax FM 1944GLB2	4.3	1.08	79.4	29.9	6.5	2	75.3	8.4	41-1
NexGen NG 1511 B2RF	4.4	1.02	80.0	29.9	8.9	2	72.7	9.4	32-2,42-1
PhytoGen PHY 499 WRF	4.3	1.05	80.3	31.5	8.8	1	73.6	9.8	32-1,32-2
FiberMax FM 2484B2F	3.9	1.06	79.9	29.8	6.8	2	76.0	8.6	31-3,41-1

Table 11A. Fiber quality results from the dryland regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock 2013.

Designation	Micronaire	Length	Uniformity	Strenth	Elongation	Leaf	Rd	+b	Color Grade
NexGen NGX 3305B2RF	3.9	1.05	79.2	29.4	7.8	2	76.4	9.4	21-4,32-1
Seed Source Genetics HQ 210 CT	4.1	0.99	78.6	30.0	7.7	2	76.5	8.9	31-3
NexGen NG 3306 B2RF	4.1	1.07	80.5	31.4	8.5	2	73.9	9.2	32-1,41-3
PhytoGen PHY 725 RF	3.9	1.09	80.7	32.5	7.5	3	74.3	9.5	31-3,32-2
UA 48	4.2	1.13	80.2	32.8	5.7	1	75.0	8.8	31-2,41-3
Mean	4.1	1.04	79.7	30.2	7.4	2	74.8	9.1	
c.v.%	6.3	2.6	1.0	3.3	6.3	42.1	2.4	3.0	
LSD 0.05	0.5	0.06	1.6	2.0	0.9	2	3.6	0.6	

Table 12. Yield summary over years of the dryland cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2009-2013.

	2009	2010	2011	2012	2013	Average	Comp. Average1/
Designation			Five Year Average				
Deltapine DP 0912 B2RF	721	1335	306	499	359	644	
All-Tex Epic RF	701	1099	412	592	393	639	
FiberMax FM 9058 F	668	1485	350	356	311	634	
Stoneville ST 5458 B2RF	775	1294	364	439	293	633	
PhytoGen 367 WRF	576	1398	333	452	329	618	
FiberMax FM 9180 B2F	565	1327	308	355	442	599	
Seed Source Genetics SSG HQ 210 CT	663	1126	403	400	227	564	
NexGen NG3348 B2RF	609	979	260	429	280	511	
			Four Year Average				
Deltapine DP 1044 B2RF		1560	306	593	367	707	721
PhytoGen PHY 499 WRF		1396	345	488	268	624	638
			Three Year Average				
FiberMax FM 2011GT			572	363	445	460	694
Deltapine DP 1219 B2RF			522	333	399	418	652
NexGen NG4111RF			412	306	459	392	626
All-Tex Nitro 44 B2RF			397	316	362	358	592
FiberMax FM 2989GLB2			472	251	312	345	579
FiberMax FM 9250GL			402	311	295	336	570
NexGen NG4010 B2RF			267	231	468	322	556
PhytoGen PHY 725 RF			515	186	190	297	531
FiberMax FM 2484B2F			384	248	245	292	526

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

Table 13. Production information for the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

Test:	Uniform Variety
Planting Date:	May 8
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @1.5 pt/A applied pre-plant Caparol @ 1.5pt/A applied May 15 Staple @ 2oz/A applied June
Fertilizer:	11-40-0 lbs/A applied pre-plant
Harvest Aid:	Bollbuster @1qt/A + Sharpen @1 oz/A + crop oil @1% applied October 1 ET @3 oz/A applied on October 11
Rainfall:	12.57 inches in season
Irrigation:	4.5 acre inches pre-plant
Harvest Date:	November 1

Table 14. Yield and agronomic property results from the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Oct	Resistance	Height
Deltapine DP 1044 B2RF	378	27.0	36.6	37.4	28.1	4.1	9.3	5.9	25.7	84	5	16
FiberMax FM 2011GT	376	29.1	37.6	41.0	30.6	5.0	9.7	7.0	29.4	81	6	15
Stoneville ST 4946GLB2	376	29.2	38.4	38.0	29.9	4.9	9.2	6.0	30.1	80	5	15
NexGen NGX 3305B2RF	331	25.2	37.3	38.5	28.7	3.7	8.2	5.6	25.2	79	5	17
FiberMax FM 9058F	316	26.0	38.0	38.6	29.0	4.3	9.1	6.0	27.2	85	7	14
NexGen NG 4111 RF	315	26.1	36.7	38.9	28.1	4.4	9.0	6.2	27.3	79	4	16
PhytoGen PHY 499 WRF	315	28.3	37.2	39.9	30.0	3.6	8.0	5.7	25.3	71	4	18
Deltapine DP 1219 B2RF	313	26.8	35.5	38.3	26.9	3.7	7.7	5.2	27.2	73	4	17
FiberMax FM 9250GL	313	28.3	38.5	37.9	28.0	4.1	9.6	6.3	24.3	79	6	17
Stoneville ST 5458B2F	312	25.4	36.4	38.1	28.6	4.5	9.4	6.3	27.4	69	6	17
NexGen NG 2051 B2RF	310	23.8	37.5	35.7	26.4	4.1	9.3	5.5	26.6	80	5	15
FiberMax FM 9180B2F	309	25.4	37.8	35.3	26.4	4.2	10.0	5.9	25.5	79	6	15
All-Tex AT Epic RF	306	25.4	34.9	39.3	28.3	3.9	8.1	5.7	27.0	78	4	17
NexGen NG 3306 B2RF	300	25.9	35.9	36.5	28.1	3.7	8.4	5.3	25.5	81	4	18
NexGen NG 4012 B2RF	297	27.2	37.9	37.4	27.8	4.0	8.4	5.5	27.8	76	5	17
FiberMax FM 2484B2F	294	25.6	35.9	35.6	31.7	4.0	8.3	5.1	28.2	80	5	17
NexGen NG 1511 B2RF	292	29.0	36.0	40.4	30.4	4.0	8.5	6.3	25.9	76	4	17
Seed Source Genetics HQ 210 CT	291	24.8	38.2	35.1	26.0	4.0	8.5	4.9	28.3	84	3	15
NexGen NG 4010 B2RF	286	25.4	37.6	36.9	27.8	4.0	8.8	5.5	26.5	83	5	17
All-Tex AT Nitro 44 B2RF	285	23.4	35.6	37.6	27.5	3.9	9.7	6.2	23.3	75	5	16
Stoneville ST 5288B2F	281	24.1	35.2	37.9	27.2	3.3	7.5	5.0	25.0	83	4	17
PhytoGen PHY 375 WRF	270	25.5	35.4	39.3	28.1	3.8	8.4	5.8	26.0	84	3	18
Deltapine DP 1321 B2RF	264	25.7	32.4	40.5	29.8	3.9	8.5	6.2	25.3	78	2	17
Deltapine DP 0912 B2RF	257	26.7	34.4	39.0	28.8	3.6	7.9	5.7	24.7	75	4	18
FiberMax FM 2989GLB2	256	24.9	36.5	39.3	28.9	3.8	8.9	6.1	24.9	75	4	16
PhytoGen PHY 339 WRF	244	26.1	36.2	36.8	27.6	4.4	8.4	5.3	30.1	86	3	18
NexGen NGX 2306B2RF	241	26.5	36.4	37.5	27.5	3.8	8.4	5.3	26.5	80	3	17
Dyna-Gro DG 13125 B2RF	240	26.9	36.3	39.2	28.2	4.2	9.1	6.3	25.6	78	5	17
PhytoGen PHY 367 WRF	233	25.2	34.2	37.9	28.0	4.0	8.5	5.7	26.4	79	4	16
PhytoGen PHY 725 RF	221	21.0	31.6	34.1	25.4	3.4	9.2	5.2	22.4	79	4	16

Table 14. Yield and agronomic property results from the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Oct	Resistance	Height
FiberMax FM 1944GLB2	221	25.2	34.8	37.7	27.5	4.0	9.1	5.9	25.4	74	6	16
NexGen NG 3348 B2RF	217	24.3	36.9	36.6	26.1	3.9	9.3	5.9	24.1	75	5	15
Dyna-Gro DG 12353 B2RF	211	25.7	35.4	39.4	29.2	4.5	9.1	6.2	28.4	79	7	17
Seed Source Genetics UA 222	205	22.5	34.0	37.5	26.7	4.8	9.4	6.2	28.6	80	2	17
UA 48	142	21.8	33.7	38.8	27.5	4.1	10.3	6.7	23.4	79	4	15
Mean	281	25.7	36.1	37.9	28.1	4.0	8.8	5.8	26.3	79	4	16
c.v.%	22.7	6.9	5.7	3.3	3.9	10.2	6.1	6.7	8.7	7.1	31.5	6.9
LSD 0.05	90	2.5	2.9	2.5	2.2	0.8	1.1	0.8	4.7	8	2	2

Table 14A. Fiber quality results from the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1044 B2RF	4.4	1.04	80.8	31.3	8.8	2	68.0	10.1	43-1,53-1
FiberMax FM 2011GT	4.6	1.01	79.4	30.3	6.6	2	69.5	9.8	42-1,43-2
Stoneville ST 4946GLB2	4.3	1.01	79.7	31.0	7.8	8	58.0	10.6	63-3
NexGen NGX 3305B2RF	4.6	1.00	78.7	29.0	6.7	2	67.7	10.1	42-2,43-1
FiberMax FM 9058F	4.2	1.00	78.8	27.1	5.5	2	71.7	9.5	42-1
NexGen NG 4111 RF	4.3	1.02	80.0	31.2	6.6	2	67.7	10.7	43-1
PhytoGen PHY 499 WRF	4.5	0.98	80.4	31.6	8.5	3	67.2	10.4	43-1,43-2
Deltapine DP 1219 B2RF	4.1	1.00	79.0	31.0	6.2	2	67.7	10.6	43-1,43-2
FiberMax FM 9250GL	4.6	0.99	79.5	29.2	6.0	2	69.2	9.8	42-1,42-2
Stoneville ST 5458B2F	4.5	1.02	78.8	28.9	6.0	2	68.6	10.0	42-1,43-2
NexGen NG 2051 B2RF	4.0	0.98	79.3	28.8	6.6	4	66.2	10.6	43-2,43-4
FiberMax FM 9180B2F	4.2	1.03	79.7	32.1	5.7	3	70.9	9.4	32-2,42-2
All-Tex AT Epic RF	4.5	0.98	81.3	29.7	8.0	2	68.7	10.7	43-1
NexGen NG 3306 B2RF	4.2	1.05	81.6	33.2	7.5	2	68.3	10.6	43-1
NexGen NG 4012 B2RF	4.2	1.02	79.6	29.5	5.7	3	66.5	10.2	32-2,53-4
FiberMax FM 2484B2F	4.1	1.03	79.3	30.4	5.7	2	69.6	9.5	42-1,42-2
NexGen NG 1511 B2RF	4.5	0.98	79.0	31.1	8.7	4	67.2	10.5	43-1,43-4
Seed Source Genetics HQ 210 CT	4.6	0.99	78.6	29.6	6.7	1	69.2	10.4	43-1
NexGen NG 4010 B2RF	4.6	1.01	80.0	30.6	7.3	2	67.9	10.6	43-1
All-Tex AT Nitro 44 B2RF	4.2	1.05	81.6	32.7	6.9	3	68.4	10.1	42-2,43-1
Stoneville ST 5288B2F	4.5	0.99	78.2	28.6	6.3	3	67.0	10.3	43-1,43-2
PhytoGen PHY 375 WRF	4.2	0.97	78.8	28.1	6.5	3	68.1	10.4	42-1,43-1
Deltapine DP 1321 B2RF	4.5	1.01	80.0	32.0	7.8	2	69.1	10.6	43-1
Deltapine DP 0912 B2RF	4.7	0.98	78.4	29.8	7.3	2	67.9	10.1	43-2
FiberMax FM 2989GLB2	4.4	1.00	78.9	30.4	6.7	2	68.6	10.1	42-1,43-2
PhytoGen PHY 339 WRF	4.0	1.06	80.5	31.6	6.8	3	70.1	9.6	42-1,42-2
NexGen NGX 2306B2RF	4.5	1.01	80.0	30.4	7.1	2	68.2	10.1	42-1,43-2
Dyna-Gro DG 13125 B2RF	4.2	1.00	78.6	27.8	7.2	3	67.2	10.2	43-1,43-2
PhytoGen PHY 367 WRF	4.1	1.02	79.8	30.9	7.0	3	67.1	10.5	43-1,43-4
PhytoGen PHY 725 RF	4.1	1.10	80.6	34.1	6.9	3	67.2	10.6	43-1,43-2

Table 14A. Fiber quality results from the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 1944GLB2	4.3	1.00	77.8	28.0	5.3	2	67.9	10.2	43-2
NexGen NG 3348 B2RF	4.1	1.00	79.0	28.2	6.2	5	63.7	10.2	43-1,63-1
Dyna-Gro DG 12353 B2RF	4.5	0.98	79.5	30.7	6.4	2	69.5	9.6	42-1,42-2
Seed Source Genetics UA 222	4.4	1.06	79.4	29.5	7.5	3	66.0	10.6	43-1,43-4
UA 48	4.4	1.11	80.7	34.6	6.1	1	65.6	10.3	42-2,53-3
Mean	4.3	1.01	79.5	30.3	6.8	2	67.7	10.2	
c.v.%	4.1	2.8	1.4	4.2	10.6	31.7	4.1	4.0	
LSD 0.05	0.4	0.06	2.3	2.6	1.5	2	5.7	0.8	

Table 15. Yield summary over years of the dryland regional cotton variety performance test at the AG-CARES farm in Lamesa, 2009-2013.

	2009	2010	2011	2012	2013	Average	Comp. Average[1/]
Designation			Five Year Average				
All-Tex Epic RF	670	964	412	410	306	552	
Stoneville ST 5458 B2RF	652	869	364	363	312	512	
PhytoGen PHY 375 WRF	678	961	302	327	270	508	
PhytoGen PHY 367 WRF	689	791	333	299	233	469	
Deltapine DP 0912 B2RF	639	636	306	328	257	433	
FiberMax FM 9058F	544	667	350	271	316	430	
FiberMax FM 9180B2F	452	552	308	289	309	382	
NexGen NG3348 B2RF	616	498	260	256	217	369	
			Four Year Average				
PhytoGen PHY 499 WRF		934	345	412	315	502	542
Deltapine DP 1044 B2RF		845	306	306	378	459	499
Seed Source Genetics SSG HQ 210 CT	605	704	403		291	501	466
			Three Year Average				
Deltapine DP 1219 B2RF			333	373	313	340	489
FiberMax FM 2011GT			363	337	276	325	474
FiberMax FM 9250GL			311	317	313	314	463
All-Tex Nitro 44 B2RF			316	305	285	302	451
NexGen NG4111RF			306	276	315	299	448
FiberMax FM 2484B2F			248	347	294	296	445
FiberMax FM 2989GLB2			251	283	256	263	412
NexGen NG4010 B2RF			231	262	286	260	409
PhytoGen PHY 725 RF			186	189	221	199	348

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

Table 16. Yield summary over five locations of the uniform regional cotton variety performance tests conducted by Texas A&M AgriLife Research at Lubbock, 2013.

Designation	Overall Yield	Lub Irr Rank	Lub Dry Rank	Halfway Rank	Lamesa Irr Rank	Lamesa Dry Rank
FiberMax FM 2011GT	873	4	4	2	7	2
Stoneville ST 5288B2F	867	1	6	8	6	21
NexGen NG 4111 RF	836	3	3	13	8	6
Stoneville ST 5458B2F	812	7	23	14	4	10
Deltapine DP 1219 B2RF	806	10	7	32	1	8
PhytoGen PHY 367 WRF	805	2	15	9	11	29
Stoneville ST 4946GLB2	804	19	10	15	5	3
Deltapine DP 0912 B2RF	796	9	12	4	10	24
NexGen NG 4010 B2RF	791	5	2	16	19	19
Deltapine DP 1044 B2RF	767	17	9	33	2	1
FiberMax FM 2484B2F	766	12	30	3	13	16
NexGen NG 1511 B2RF	735	18	28	6	18	17
FiberMax FM 9250GL	732	13	22	25	12	9
PhytoGen PHY 499 WRF	732	27	29	5	16	7
All-Tex AT Epic RF	732	16	8	24	17	13
FiberMax FM 1944GLB2	728	14	27	1	30	31
FiberMax FM 9180B2F	727	28	5	18	14	12
PhytoGen PHY 339 WRF	722	21	16	12	15	26
All-Tex AT Nitro 44 B2RF	721	23	11	17	20	20
Deltapine DP 1321 B2RF	708	8	14	28	21	23
FiberMax FM 9058F	704	26	20	7	27	5
FiberMax FM 2989GLB2	704	24	19	11	22	25
Dyna-Gro DG 13125 B2RF	700	6	1	31	29	28
NexGen NG 2051 B2RF	695	29	17	10	26	11
NexGen NG 3306B2RF	694	33	33	21	3	14
NexGen NGX 3305B2RF	679	30	31	29	9	4
Seed Source Genetics UA 222	662	11	24	26	23	34
NexGen NG 4012 B2RF	658	15	21	34	25	15
PhytoGen PHY 375 WRF	625	20	13	23	33	22
Dyna-Gro DG 12353 B2RF	615	22	18	19	32	33
NexGen NG 3348 B2RF	612	32	25	22	24	32
NexGen NGX 2306B2RF	608	31	26	30	28	27
Seed Source Genetics HQ 210 CT	584	25	32	27	34	18
PhytoGen PHY 725 RF	544	35	34	20	31	30
UA 48	423	34	35	35	35	35

Table 17. Result of cotton variety germination salinity tolerance screening conducted at Texas A&M AgriLife Research Lubbock greenhouse, 2013.

Designation	Salt Index[1/]	Germination %[2/]		Root Length %[2/]	
NexGen NGX 3305B2RF	80	102.5	a[3/]	57.8	a[3/]
NexGen NG 3306B2RF	77	99.9	ab	54.2	ab
Seed Source Genetics HQ 210 CT	72	92.3	abcdef	50.8	abc
All-Tex AT Nitro 44 B2RF	71	92.5	abcde	49.0	bcde
PhytoGen PHY 725 RF	68	95.0	abcd	40.0	fghi
PhytoGen PHY 499 WRF	67	95.0	abcd	38.6	fghij
UA 48	66	82.5	bcdefghi	50.3	abcd
PhytoGen PHY 367 WRF	65	87.5	abcdefg	42.9	defg
Seed Source Genetics UA 222	65	96.1	abc	33.3	ijkl
PhytoGen PHY 375 WRF	65	87.2	abcdefg	42.1	efgh
NexGen NG 2051 B2RF	65	94.6	abcd	34.6	hijkl
PhytoGen PHY 339 WRF	64	77.5	cdefghij	51.1	abc
Deltapine DP 1321 B2RF	62	79.5	cdefghij	44.8	cdef
NexGen NG 4111 RF	61	85.5	abcdefgh	35.9	ghijk
Dyna-Gro DG 12353 B2RF	60	69.2	ghijkl	50.6	abc
Stoneville ST 5458B2F	60	86.3	abcdefg	33.2	ijkl
Stoneville ST 5288B2F	59	75.7	defghij	42.5	efg
Deltapine DP 1219 B2RF	58	80.8	bcdefghij	35.9	ghijk
NexGen NG 4010 B2RF	54	79.0	cdefghij	29.5	klmno
Deltapine DP 1044 B2RF	54	74.4	efghijk	33.2	ijkl
Deltapine DP 0912 B2RF	53	70.0	ghijkl	36.1	ghijk
NexGen NG 1511 B2RF	52	73.1	fghijk	31.8	jklm
Stoneville ST 4946GLB2	51	69.5	ghijkl	33.3	ijkl
NexGen NG 3348 B2RF	50	68.4	ghijkl	32.1	jklm
FiberMax FM 9180B2F	50	72.1	ghijk	27.6	lmnop
FiberMax FM 9250GL	48	66.3	hijklm	29.5	klmno
NexGen NG 4012 B2RF	47	61.6	jklm	33.3	ijkl
FiberMax FM 9058F	47	64.5	ijklm	29.9	klmn
All-Tex AT Epic RF	45	56.3	klm	32.8	ijklm
FiberMax FM 2011GT	44	48.6	mno	39.9	fghi
FiberMax FM 2989GLB2	37	52.5	lmn	21.9	op
Dyna-Gro DG 13125 B2RF	30	34.6	no	25.2	mnop
NexGen NGX 2306B2RF	27	30.9	o	23.5	nop
FiberMax FM 2484B2F	27	30.6	o	23.3	nop
FiberMax FM 1944GLB2	25	29.7	o	21.0	p
Mean		73.2		36.9	
c.v.%		18.9		14.8	
LSD 0.05		19.4		7.7	

[1/]Salt Index is calculated by (germ% *.5)+(root%*.5)

[2/]Germination and Root Length are both reported as percentages of the control (same variety germinated in RO water)

[3/]Means followed by the same letter are not significantly different at p> 0.05

Table 18. Production information for the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Pecos, 2013.

Test:	Regional Cotton Variety
Planting Date:	May 8
Row Spacing:	34-42in variable (equivalent to 38in)
Planting Pattern:	Solid
Herbicide:	Prowl @2pt/A applied pre-plant
Fertilizer:	None
Irrigations (furrow)	Furrow irrigations approximately every 2 weeks in season
Rainfall:	May-October = 2.91 inches
Harvest Aids:	Gramoxone @1pt/A
Harvest Date:	December 16

Table 19. Yield and agronomic property results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Pecos, 2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	4-Nov	Resistance	Height
Deltapine DP 1359 B2RF	713	24.4	37.0	40.6	31.7	4.8	8.7	6.3	31.1	29	4	22
Deltapine DP 1219 B2RF	672	25.4	39.8	38.7	30.5	4.7	8.7	5.9	31.0	21	5	22
PhytoGen PHY 725 RF	660	24.2	41.0	37.3	29.1	5.0	10.1	6.2	29.9	34	5	25
NexGen NG 3306B2RF	612	28.1	42.5	36.9	29.4	4.6	9.1	5.7	29.8	54	5	19
PhytoGen PHX 3122-40 WRF	608	27.4	38.4	38.6	29.9	5.2	9.5	6.6	30.4	68	4	18
PhytoGen PHY 575 WRF	582	25.7	39.4	36.7	28.6	4.7	9.4	5.8	29.4	44	5	23
Stoneville ST 4946GLB2	578	28.6	40.8	39.5	31.6	5.5	10.7	7.3	29.4	34	5	19
FiberMax FM 2989GLB2	575	27.3	43.1	39.6	31.0	5.1	10.0	7.0	29.0	40	6	19
PhytoGen PHY 499 WRF	573	27.1	38.5	39.2	30.6	5.3	9.6	6.7	30.9	39	5	22
FiberMax FM 9170B2F	555	28.3	40.2	40.4	31.9	4.5	9.3	6.5	28.0	55	6	17
FiberMax FM 2484B2F	548	28.2	41.3	40.1	31.5	4.4	9.6	6.8	25.8	35	6	17
PhytoGen PHY 375 WRF	541	26.5	41.2	38.9	29.5	4.8	9.7	6.5	28.4	48	4	18
PhytoGen PHY 755 WRF	526	22.6	40.1	35.7	27.6	4.5	10.2	5.9	26.9	21	5	21
NexGen NG 2051 B2RF	486	22.7	39.1	33.9	25.5	4.5	9.7	5.5	27.7	60	4	16
NexGen NG 1511 B2RF	461	27.0	39.1	39.4	30.8	4.9	9.4	6.5	29.3	44	3	18
Deltapine DP 0912B2RF	453	26.2	41.6	37.9	29.5	4.3	9.2	5.9	27.0	50	4	18
NexGen NG 4010 B2RF	447	24.7	38.2	37.1	28.5	4.1	8.9	5.6	27.2	54	4	18
FiberMax FM 9058F	434	24.5	38.5	38.3	29.9	4.4	9.9	6.5	26.4	43	6	16
Deltapine DP 1044 B2RF	430	24.8	42.1	37.5	29.5	4.3	8.7	5.6	28.9	29	4	21
NexGen NG 4111 RF	417	26.6	39.6	39.9	30.6	4.7	9.6	6.7	27.6	25	5	23
NexGen NGX 3305B2RF	408	24.0	38.9	37.9	28.6	4.5	9.8	6.4	26.7	39	5	19
PhytoGen PHY 399 WRF	405	29.1	42.0	37.3	29.3	4.3	8.9	5.6	28.0	47	4	17
NexGen NGX 2306B2RF	403	22.4	41.5	35.3	27.5	4.5	9.0	5.4	29.2	29	3	17
NexGen NG 5315 B2RF	356	27.6	39.8	40.6	31.5	4.5	8.9	6.3	29.6	26	4	23
NexGen NG 3348 B2RF	334	24.1	39.8	35.5	27.0	4.5	10.4	6.2	25.6	36	5	18
FiberMax FM 1944GLB2	323	26.4	43.0	37.0	28.6	4.8	10.0	6.3	27.8	34	4	17
NexGen NG 4012 B2RF	310	23.8	36.6	36.7	29.3	4.8	9.5	5.9	30.0	20	4	20
Deltapine DP 161 B2RF	241	19.7	39.4	34.7	27.7	4.3	9.4	5.2	28.2	27	5	23
Mean	488	25.6	40.1	37.9	29.5	4.6	9.5	6.2	28.5	39	5	19
c.v.%	24.5	5.7	4.1	2.8	3.7	7.4	3.7	6.5	6.4	40.6	17.5	11.3
LSD 0.05	169	2.1	2.3	2.2	2.2	0.7	0.7	0.8	3.8	22	1	3

Table 19A. Fiber quality results from the irrigated regional cotton variety performance test at Texas A&M AgriLife Reserach in Pecos, 2013.

Designation	Micronaire	Length	Unifromity	Strength	Elongation	Leaf	Rd	+b	Color Grade
Deltapine DP 1359 B2RF	4.3	1.07	78.9	27.9	6.6	1	76.5	8.3	31-2
Deltapine DP 1219 B2RF	3.7	1.09	80.3	30.2	6.2	1	79.6	8.1	21-2,31-1
PhytoGen PHY 725 RF	4.3	1.14	82.0	33.8	7.1	1	76.2	8.4	31-1
NexGen NG 3306B2RF	4.2	1.11	82.3	31.3	8.1	1	77.2	8.5	31-1
PhytoGen PHX 3122-40 WRF	4.5	1.09	81.7	28.8	5.9	3	76.3	7.9	31-2,41-1
PhytoGen PHY 575 WRF	4.2	1.12	81.9	30.6	7.0	1	77.9	8.2	31-1,31-2
Stoneville ST 4946GLB2	4.3	1.08	82.8	30.6	7.1	2	76.0	8.7	31-1,41-1
FiberMax FM 2989GLB2	4.3	1.08	81.4	29.8	6.1	1	77.9	7.9	31-1
PhytoGen PHY 499 WRF	4.4	1.09	82.6	32.2	8.0	2	75.5	8.4	31-2,41-1
FiberMax FM 9170B2F	3.8	1.08	80.8	29.2	5.7	2	77.0	7.3	31-2,41-1
FiberMax FM 2484B2F	3.8	1.11	79.9	30.1	5.6	1	77.0	7.2	41-1
PhytoGen PHY 375 WRF	4.2	1.04	80.2	27.3	6.3	2	76.0	8.3	31-2
PhytoGen PHY 755 WRF	3.6	1.17	82.0	35.7	6.5	2	74.6	9.1	31-4,32-2
NexGen NG 2051 B2RF	4.2	1.03	78.3	26.4	5.8	3	74.4	7.5	41-1,41-2
NexGen NG 1511 B2RF	4.4	1.05	81.9	29.8	8.0	2	75.8	8.0	31-1,41-1
Deltapine DP 0912B2RF	4.8	1.02	80.3	28.7	7.1	4	75.2	8.1	31-2,41-3
NexGen NG 4010 B2RF	4.2	1.08	80.5	30.3	6.2	2	75.4	8.6	31-4,41-1
FiberMax FM 9058F	3.7	1.11	79.8	28.2	5.6	2	75.9	7.8	31-2,41-1
Deltapine DP 1044 B2RF	3.4	1.05	80.6	30.1	8.5	2	77.2	8.1	31-1,41-1
NexGen NG 4111 RF	4.4	1.06	82.1	31.6	7.0	3	76.0	8.4	31-1,41-1
NexGen NGX 3305B2RF	4.2	1.09	81.4	30.6	7.0	1	76.5	8.0	31-1,41-4
PhytoGen PHY 399 WRF	3.9	1.09	81.6	30.5	6.7	2	77.6	7.7	31-2,41-1
NexGen NGX 2306B2RF	3.9	1.08	81.8	29.3	7.3	2	75.1	8.4	41-1
NexGen NG 5315 B2RF	3.9	1.09	81.8	29.2	7.7	1	75.5	8.9	31-3,31-4
NexGen NG 3348 B2RF	4.2	1.09	82.7	29.8	6.9	3	76.3	7.9	41-1
FiberMax FM 1944GLB2	3.9	1.08	81.2	29.2	5.1	2	78.1	7.9	31-2
NexGen NG 4012 B2RF	4.1	1.07	80.8	28.5	6.1	2	76.3	8.4	31-2
Deltapine DP 161 B2RF	3.5	1.16	81.8	32.0	5.9	2	73.3	8.7	41-3
Mean	4.1	1.08	81.2	30.0	6.7	2	76.3	8.2	
c.v.%	9.7	1.8	1.0	3.4	8.3	38.6	1.8	5.0	
LSD 0.05	0.8	0.04	1.7	2.1	1.2	1	2.9	0.9	

Table 20. Yield summary over years of the irrigated regional cotton variety performance test at Texas A&M AgriLife Research in Pecos, 2009-2013.

	2009	2010	2011	2012	2013	Average	Comp. Average[1/]
Designation			Five Year Average				
FiberMax 9058F	859	850	685	613	434	688	
PhytoGen PHY 755 WRF	954	1025	700	569	526	755	
FiberMax FM 9170B2F	1078	888	983	535	555	808	
			Four Year Average				
Deltapine DP 1044 B2RF		723	1200	637	430	748	801
Deltapine DP 0912 B2RF		1040	934	645	453	768	821
PhytoGen PHY 499 WRF		821	1166	794	573	839	892
			Three Year Average				
FiberMax FM 2484B2F			914	579	548	680	808
FiberMax FM 2989GLB2			955	524	575	685	813
PhytoGen PHY 725 RF			960	601	660	740	868

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

Table 21. Production information for the irrigated late planted regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Test:	Late Planted Variety
Planting Date:	June 11
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @1.5pt/A applied pre-plant Dual Magnum @1qt/A applied June 17
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.1 acre inches pre-plant 2.4 acre inches June29 1.3 acre inches July 27 2.0 acre inches August 10 2.8 acre inches August 30 13.6 acre inches total
Harvest Aids:	none
Freeze Date:	October 19
Harvest Date:	December 13

Table 22. Yield and agronomic property results from the irrigated late planted regional cotton variety test at Texas A&M AgriLife Research in Lubbock, 2013.

		Agronomic Properties							
		% Turnout		% Lint		Boll	Seed	Lint	Seed per
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll
PhytoGen PHX 4433-27 WRF	650	22.6	39.3	35.7	28.9	5.2	9.2	5.3	34.8
FiberMax FM 2011GT	582	25.5	40.9	36.2	26.9	6.4	11.5	6.9	33.4
PhytoGen PHX 3080-01 WRF	428	22.7	41.8	32.2	23.9	5.4	11.0	5.6	30.9
Deltapine DP 0912 B2RF	426	23.1	40.0	35.3	27.5	5.7	9.8	5.7	35.0
Deltapine DP 1212 B2RF	403	24.7	39.4	38.1	29.1	6.0	10.8	6.9	33.2
PhytoGen PHX 4433-25 WRF	354	25.6	37.6	35.9	29.5	6.0	9.7	6.0	36.0
Seed Source Genetics HQ 210 CT	332	21.9	41.5	33.4	26.4	5.4	9.4	4.9	36.5
PhytoGen PHX 3122-40 WRF	331	23.0	38.7	34.5	26.6	5.6	10.1	5.6	35.1
Deltapine DP 1219 B2RF	328	20.2	37.5	36.7	27.8	5.3	9.3	5.7	34.6
Deltapine DP 1321 B2RF	305	24.3	39.6	37.1	29.4	5.8	10.6	6.7	32.4
PhytoGen PHY 367 WRF	291	21.2	37.8	37.2	28.5	5.3	10.3	6.2	31.7
NexGen NG 3348 B2RF	281	24.0	42.3	33.0	25.5	6.6	11.8	6.1	36.0
FiberMax FM 9250GT	259	22.7	39.7	31.5	23.9	6.7	12.0	6.0	35.3
FiberMax FM 1944GLB2	245	20.8	39.4	33.6	26.0	5.4	10.7	5.6	32.3
NexGen NG 1511 B2RF	245	26.0	39.1	37.8	29.6	5.6	10.6	6.8	30.9
NexGen NG 3306 B2RF	236	21.6	40.4	34.8	28.3	4.4	10.1	5.6	29.7
PhytoGen PHY 339 WRF	221	23.0	41.2	34.8	27.2	5.4	9.9	5.5	34.3
FiberMax FM 9180B2F	210	20.3	38.9	31.9	24.3	5.8	11.7	5.7	32.5
PhytoGen PHY 499 WRF	207	21.3	37.0	36.5	28.5	5.8	10.4	6.7	31.9
Deltapine 104 B2RF	197	22.4	41.0	31.7	25.0	6.2	11.8	5.8	34.0
NexGen NGX 3305B2RF	196	20.7	38.5	31.1	24.7	4.6	10.2	4.9	29.3
Paymaster HS 26	187	21.5	40.6	33.7	26.3	5.8	11.4	6.0	33.0
FiberMax FM 958	175	21.3	39.0	33.4	25.0	6.2	11.2	5.7	35.6
FiberMax FM 989	151	19.3	37.3	32.6	25.3	5.7	10.9	5.5	33.5
NexGen NGX 2306B2RF	95	20.3	40.4	28.6	21.8	5.1	10.9	4.6	31.7
Mean	293	22.4	39.5	34.3	26.6	5.6	10.6	5.8	33.3
c.v.%	36.6	6.3	4.4	3.2	4.6	5.8	3.4	5.8	6.0
LSD 0.05	152	2.0	2.4	2.3	2.5	0.7	0.7	0.7	4.2

Table 22A. Fiber quality results from the late planted regional cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Leaf	Color Grade
PhytoGen PHX 4433-27 WRF	2.6	1.11	80.4	29.9	8.4	72.2	11.9	2	23-2,23-3
FiberMax FM 2011GT	2.8	1.12	81.3	29.1	7.1	69.6	11.8	1	33-1,33-3
PhytoGen PHX 3080-01 WRF	3.1	1.12	82.6	30.1	9.7	72.0	11.6	2	22-2,23-4
Deltapine DP 0912 B2RF	3.3	1.07	79.0	29.6	8.3	65.3	12.7	3	34-1,44-1
Deltapine DP 1212 B2RF	3.2	1.13	81.7	31.8	9.6	67.5	13.0	2	34-1
PhytoGen PHX 4433-25 WRF	2.7	1.06	79.7	28.9	8.7	69.4	12.9	1	23-4,24-2
Seed Source Genetics HQ 210 CT	3.0	1.06	79.7	30.4	8.0	74.8	11.0	1	22-1
PhytoGen PHX 3122-40 WRF	3.0	1.09	79.9	28.7	8.0	70.9	11.0	2	33-2,33-4
Deltapine DP 1219 B2RF	2.3	1.12	79.2	30.6	7.7	71.7	11.9	2	23-3,33-1
Deltapine DP 1321 B2RF	3.1	1.11	81.1	30.4	9.3	66.7	13.2	2	33-3,34-3
PhytoGen PHY 367 WRF	2.6	1.10	80.7	29.9	8.2	69.1	13.1	1	23-4,24-2
NexGen NG 3348 B2RF	2.7	1.11	80.7	30.6	7.9	68.9	11.9	2	32-2,34-1
FiberMax FM 9250GT	2.5	1.10	80.4	28.7	5.7	71.1	11.7	2	23-2
FiberMax FM 1944GLB2	2.5	1.13	79.3	29.1	6.8	69.6	12.7	2	23-4,24-2
NexGen NG 1511 B2RF	2.4	1.06	78.4	29.3	8.9	65.4	13.7	1	34-1,34-3
NexGen NG 3306 B2RF	2.4	1.16	81.8	32.4	8.5	68.4	12.6	2	23-2,33-4
PhytoGen PHY 339 WRF	2.9	1.13	81.3	30.4	8.0	73.2	11.0	2	22-2,33-1
FiberMax FM 9180B2F	2.8	1.14	81.4	31.3	7.7	73.1	10.9	2	23-4,32-1
PhytoGen PHY 499 WRF	2.4	1.08	79.8	30.4	8.6	65.4	14.2	1	24-4
Deltapine 104 B2RF	2.6	1.09	81.2	31.2	8.1	70.1	12.0	2	33-1,33-3
NexGen NGX 3305 B2RF	2.6	1.11	80.7	29.1	8.2	70.1	12.4	1	23-2,34-1
Paymaster HS 26	2.9	1.04	80.9	29.9	7.6	71.9	11.4	1	23-2,33-1
FiberMax FM 958	2.5	1.06	80.0	29.6	7.0	67.6	12.5	2	33-3,34-2
FiberMax FM 989	2.4	1.08	80.0	28.8	6.9	67.1	13.1	1	34-1
NexGen NGX 2306B2RF	2.4	1.10	80.1	29.1	8.5	68.1	13.1	1	23-2,34-1
Mean	2.7	1.10	80.4	29.9	8.0	69.6	12.3	1	
c.v.%	8.3	1.9	1.3	3.0	5.5	2.7	6.2	50.1	
LSD 0.05	0.5	0.04	2.2	1.9	0.9	3.9	1.6	1	

Notes

Table 23. Production information for the irrigated new variety and strains performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Test:	New Varieties and Strains
Planting Date:	May 21
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @1.5pt/A applied pre-plant Dual Magnum @1qt/A applied June 17
Insecticide:	Orthene @3.2 oz/A applied after emergence
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations(furrow):	5.1 acre inches pre-plant 2.4 acre inches May 24 2.4 acre inches June29 1.3 acre inches July 27 2.0 acre inches August 10 2.8 acre inches August 30 16.0 acre inches total
Harvest Aids:	none
Freeze Date:	October 19
Harvest Date:	November 28

Table 24. Yield and agronomic property results from the irrigated new cotton variety and strains performance test at Texas A&M AgriLife Research in Lubbock ,2013.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	31-Oct	Resistance	Height
PhytoGen PHX 4433-25 WRF	947	27.4	44.0	39.2	33.0	5.0	8.4	5.7	34.2	84	6	30
PhytoGen PHX 4433-27 WRF	764	26.6	46.1	37.2	30.2	4.7	8.6	5.4	32.5	73	6	27
09-16-306P	704	24.4	44.3	37.4	29.1	4.9	9.9	6.1	29.9	73	4	25
Monsanto MON 12R249B2R2	691	27.2	45.0	40.1	33.6	4.5	8.6	6.0	30.3	44	6	29
Dyna-Gro DGX 12WSTR755 B2RF	688	26.3	42.8	37.5	30.2	5.6	11.1	7.2	29.1	76	5	22
Dyna-Gro DGX 11WSRF794 RF	663	26.6	43.9	39.2	31.6	4.9	8.8	5.9	32.6	78	5	26
Monsanto MON 13R341B2R2	639	26.4	41.0	41.8	34.6	5.3	9.1	6.8	32.8	41	5	29
PhytoGen PHX 3080-01 WRF	635	25.4	44.8	36.4	28.2	4.3	10.3	6.2	25.3	80	5	24
Deltapine DP 1441 RF	619	23.9	43.7	35.5	28.3	4.6	9.8	5.7	28.7	79	3	25
PhytoGen PHX 4444-13 WRF	584	27.3	42.6	40.3	33.0	5.2	9.9	7.0	30.1	65	5	24
Monsanto MON 12R242B2R2	582	25.8	41.8	40.2	33.4	4.9	8.6	6.0	32.6	81	5	25
FiberMax FM 989	551	22.9	45.6	35.9	28.3	5.6	10.1	5.9	34.2	68	5	23
PhytoGen 499 WRF	539	25.6	42.1	38.4	30.1	5.3	9.6	6.2	32.7	69	5	27
09-16-304P	529	22.2	43.5	35.5	28.8	5.4	10.8	6.2	31.0	65	5	27
FiberMax FM 2484B2F	524	22.6	39.1	38.6	31.7	5.2	9.9	6.5	30.7	70	5	23
09-1-514-FQ	518	22.2	45.4	35.6	28.7	5.5	11.4	6.6	29.4	63	5	25
09-1-1030-FQ	504	24.9	44.6	34.7	27.3	5.1	11.0	6.3	28.5	85	7	22
Dyna-Gro DGX 11-1548 B2RF	466	22.8	41.7	37.7	31.7	5.2	11.3	7.3	26.9	50	5	26
Dyna-Gro DGX 11WSRF592 RF	465	24.5	40.6	40.4	33.0	5.1	9.1	6.7	30.6	58	5	27
All-Tex Expt-1	456	25.3	46.8	35.5	29.4	5.6	11.2	6.7	29.8	74	5	23
Deltapine DP 491	456	22.8	43.9	36.4	29.8	5.3	9.3	5.6	34.4	70	5	21
All-Tex Expt-2	455	20.0	45.2	32.2	25.4	4.5	11.1	5.5	26.3	71	4	26
Dyna-Gro DG CT 13343 B2RF	448	23.4	42.3	35.8	28.0	4.5	9.8	5.7	28.5	81	5	20
PhytoGen PHX 4444-14 WRF	442	24.4	42.2	37.9	29.1	4.0	9.1	5.8	25.7	68	3	23
Dyna-Gro DGX 11WSRF691-2 RF	438	23.8	42.2	39.2	32.0	4.9	9.0	6.0	31.8	76	6	26
All-Tex Expt-3	424	20.7	44.9	35.2	28.3	5.0	11.0	6.2	28.2	70	4	24
Deltapine DP 1454*NR* B2RF	379	21.9	40.8	37.2	29.7	4.8	9.2	5.7	30.9	44	5	28
PhytoGen PHX 3122-40 WRF	350	23.3	43.1	35.8	27.4	4.4	9.2	5.5	28.6	70	4	23
Dyna-Gro DGX 12WSTR257 B2RF	329	22.1	38.8	37.5	29.6	4.8	9.8	6.2	28.7	50	5	23
PhytoGen PHX 3003-10 WRF	296	22.6	41.3	36.4	29.2	4.7	8.8	5.4	32.4	51	5	26
Mean	539	24.2	42.1	34.3	30.1	4.9	9.8	6.1	30.2	67	5	25
c.v.%	22.6	6.2	4.4	2.6	3.5	7.4	3.5	4.9	6.2	17.5	18.3	9.6
LSD 0.05	171	2.1	2.7	2.0	2.1	0.7	0.7	0.6	3.8	17	1	3

Table 24A. Fiber quality results from the irrigated new cotton varity and strains performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHX 4433-25 WRF	2.9	1.09	80.1	29.2	7.8	1	74.5	10.6	22-2
PhytoGen PHX 4433-27 WRF	3.2	1.09	79.8	29.8	8.8	1	76.1	9.5	21-4,32-1
09-16-306P	3.0	1.21	82.1	34.6	5.7	2	73.5	10.0	31-4,33-1
Monsanto MON 12R249B2R2	3.1	1.08	78.6	30.3	6.7	1	75.0	11.0	22-1,23-1
Dyna-Gro DGX 12WSTR755 B2RF	3.8	1.14	80.8	33.1	8.2	2	73.0	9.9	32-2
Dyna-Gro DGX 11WSRF794 RF	3.4	1.09	80.0	27.9	8.3	1	73.8	10.7	22-2
Monsanto MON 13R341B2R2	3.6	1.14	80.0	31.1	7.2	1	70.4	12.2	23-2,33-3
PhytoGen PHX 3080-01 WRF	3.6	1.08	80.8	28.7	8.9	2	75.0	9.6	32-1,32-2
Deltapine DP 1441 RF	3.1	1.08	80.4	28.7	7.7	1	73.9	10.4	32-1,33-1
PhytoGen PHX 4444-13 WRF	2.8	1.16	81.0	30.4	7.8	1	73.7	10.6	31-3,33-1
Monsanto MON 12R242B2R2	3.2	1.11	80.2	29.2	8.5	2	74.0	10.4	32-2,31-3
FiberMax FM 989	2.7	1.12	81.1	31.6	5.6	1	72.0	11.4	23-4,33-1
PhytoGen 499 WRF	3.2	1.11	80.4	31.7	7.9	2	69.2	12.1	33-3
09-16-304P	3.1	1.14	80.5	31.0	6.7	2	73.3	10.5	23-2,32-1
FiberMax FM 2484B2F	2.9	1.15	81.1	28.9	6.5	2	71.4	10.7	32-1,33-2
09-1-514-FQ	3.3	1.14	81.8	32.4	7.7	2	70.8	11.6	23-2,33-4
09-1-1030-FQ	3.3	1.16	81.9	32.4	7.3	2	74.7	9.8	32-1,32-2
Dyna-Gro DGX 11-1548 B2RF	2.9	1.17	80.3	31.3	7.3	2	67.1	12.9	34-1,34-2
Dyna-Gro DGX 11WSRF592 RF	2.7	1.10	79.9	29.9	9.6	2	72.5	11.1	23-4,32-1
All-Tex Expt-1	3.6	1.03	81.5	29.0	7.9	1	74.9	9.4	31-1,32-2
Deltapine DP 491	3.2	1.16	81.0	33.1	6.2	3	73.3	9.8	31-3,32-2
All-Tex Expt-2	2.9	1.16	80.4	30.4	6.5	2	72.7	11.0	32-1,33-1
Dyna-Gro DG CT 13343 B2RF	3.4	1.11	81.6	32.7	6.1	2	71.3	10.8	32-2,33-3
PhytoGen PHX 4444-14 WRF	2.6	1.10	80.2	29.5	7.3	2	72.0	11.6	23-3,32-1
Dyna-Gro DGX 11WSRF691-2 RF	2.6	1.12	81.2	29.6	7.3	2	72.9	11.1	22-2,23-4
All-Tex Expt-3	2.7	1.08	79.3	27.6	7.8	2	75.0	9.5	21-4,32-2
Deltapine DP 1454*NR* B2RF	2.7	1.10	79.5	29.6	6.8	3	71.5	11.4	23-4,33-1
PhytoGen PHX 3122-40 WRF	3.0	1.11	80.5	29.8	6.8	3	71.3	10.9	33-1,33-2
Dyna-Gro DGX 12WSTR257 B2RF	2.8	1.16	81.0	32.1	8.0	3	69.4	11.9	23-4,33-4
PhytoGen PHX 3003-10 WRF	2.5	1.05	78.6	27.7	7.2	3	69.4	12.5	23-4,34-1
Mean	3.0	1.12	80.5	30.4	7.4	2	72.6	10.8	
c.v.%	11.3	2.0	1.3	4.7	8.2	37.2	2.6	7.7	
LSD 0.05	0.7	0.05	2.2	2.9	1.2	1	3.8	1.7	

Notes

Table 25. Production information for the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

Test:	Verticillium wilt
Planting Date:	May 14
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @1 qt/A applied pre plant
Fertilizer:	none
Irrigations (furrow):	5.9 acre inches pre-plant 1.9 acre inches August 26 7.8 acre inches total
Harvest Aids:	none
Harvest Date:	November 13
Freeze Date:	October 19

Table 26. Yield and agronomic property results from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

				Agronomic Properties									
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm		
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-Oct	Resistance	Height	% Wilt
FiberMax FM 2011GT	1229	31.0	42.5	41.2	33.4	6.5	10.7	8.0	33.7	79	7	26	6.75
Deltapine DP 1212 B2RF	1195	30.5	44.5	40.9	33.1	5.3	9.8	6.8	30.7	71	4	28	7.75
NexGen NG 4111 RF	1185	31.5	47.0	39.8	32.3	5.7	10.1	6.7	32.9	74	6	29	5.00
PhytoGen PHY 499 WRF	1169	32.3	45.6	41.1	33.0	4.7	9.0	6.5	29.2	78	5	30	9.00
FiberMax FM 2989GLB2	1168	30.9	46.6	40.6	33.0	5.8	9.8	6.7	33.5	79	5	28	4.00
NexGen NG 3306 B2RF	1164	29.9	45.7	38.5	31.9	5.0	9.5	6.4	30.0	74	5	29	19.50
FiberMax FM 2484B2F	1158	32.0	45.3	41.2	33.6	5.0	9.4	6.9	29.8	78	5	28	4.50
Stoneville ST 5458B2F	1157	30.6	45.4	41.5	34.2	5.6	10.3	6.9	31.0	70	5	29	8.50
Dyna-Gro DG CT 13343 B2RF	1152	31.1	46.1	38.2	31.1	4.9	9.7	6.5	29.3	74	6	26	9.00
FiberMax FM 9250GL	1128	31.0	46.8	40.9	32.6	6.3	10.6	7.4	33.2	84	6	28	9.00
Stoneville ST 4946GLB2	1126	31.2	45.5	42.0	35.0	6.1	10.3	7.2	32.9	65	6	29	6.75
NexGen NG 4010 B2RF	1114	31.2	48.4	38.1	30.8	5.4	9.9	6.3	32.4	80	6	28	2.25
FiberMax FM 1944GLB2	1105	31.0	46.7	38.7	31.3	5.8	9.9	6.8	33.5	83	5	28	8.50
NexGen NGX 3305 B2RF	1090	31.0	46.7	38.6	32.0	4.5	9.5	6.3	27.8	75	5	30	15.00
Dyna-Gro DGX 11-1548 B2RF	1089	31.7	46.6	39.1	31.5	5.4	10.7	7.3	28.7	79	5	29	3.50
NexGen NG 1511 B2RF	1061	31.5	42.7	42.9	34.7	5.0	9.8	7.2	27.9	73	5	28	7.75
NexGen NG 4012 B2RF	1058	31.2	46.1	40.3	32.0	5.1	9.2	6.6	32.3	76	5	29	3.75
Deltapine DP 1321 B2RF	1051	32.4	44.9	40.9	32.8	5.1	9.5	6.9	30.1	73	5	30	8.00
PhytoGen PHY 367 WRF	1037	30.7	44.3	38.4	30.8	5.1	8.8	6.3	33.2	76	6	28	10.00
PhytoGen PHY 339 WRF	1034	31.4	45.5	39.4	32.0	4.9	8.7	6.1	31.6	85	6	28	4.25
NexGen NG 3348 B2RF	1025	31.3	46.9	39.2	31.6	5.5	10.3	6.7	31.3	80	6	27	5.00
PhytoGen PHX 3080-01 WRF	1018	31.1	43.3	40.1	31.8	5.3	10.2	7.4	28.9	86	6	26	9.25
Deltapine DP 1219 B2RF	1016	31.7	45.6	38.3	31.1	4.3	8.6	6.2	29.0	70	5	30	6.50
Seed Source Genetics UA 222	990	30.2	46.1	39.5	32.7	5.5	10.0	7.0	31.2	61	5	24	3.25
NexGen NG 2051 B2RF	978	27.8	45.9	36.1	28.5	5.1	10.2	6.3	30.3	75	5	27	4.25
08-10-706V	949	28.4	46.2	36.5	29.3	5.7	9.9	6.3	34.8	86	6	27	3.50
NexGen NGX 2306B2RF	872	28.9	46.6	37.3	30.4	5.2	9.1	5.8	34.2	75	6	27	6.50
Seed Source Genetics HQ 210 CT	867	30.5	47.9	37.4	31.6	5.2	8.8	5.9	34.9	80	5	26	6.00
Mean	1078	30.8	45.7	39.5	32.0	5.3	9.7	6.7	31.3	76	5	28	MSD
c.v.%	12.3	4.0	3.7	2.5	2.8	4.9	2.8	4.8	4.6	8.7	10.8	4.7	(0.05)
LSD 0.05	187	1.7	2.4	2.0	1.9	0.5	0.5	0.7	3.0	9	1	2	5.5

Table 26A. Fiber quality results from the irrigated Verticillium wilt cotton variety performance test at Texas A&M AgriLife Research in Halfway, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
FiberMax FM 2011GT	4.0	1.06	80.9	30.8	7.1	2	77.2	8.1	31-1,31-2
Deltapine DP 1212 B2RF	4.6	1.08	82.1	30.8	8.6	2	73.0	8.7	41-1,42-1
NexGen NG 4111 RF	4.4	1.07	82.8	32.3	7.6	1	75.6	8.7	31-2,31-4
PhytoGen PHY 499 WRF	4.4	1.06	81.8	32.1	8.7	1	75.5	8.9	31-1,31-4
FiberMax FM 2989GLB2	4.7	1.03	79.7	29.0	5.9	1	74.6	8.2	31-2,41-1
NexGen NG 3306 B2RF	4.4	1.13	82.4	32.6	8.8	1	77.1	8.8	31-1
FiberMax FM 2484B2F	4.1	1.09	80.6	30.7	6.4	1	77.9	7.9	31-2
Stoneville ST 5458B2F	4.7	1.03	80.0	29.7	7.2	1	74.3	9.2	31-4,32-2
Dyna-Gro DG CT 13343 B2RF	4.7	1.04	81.3	31.0	6.9	1	75.5	8.1	31-2,41-1
FiberMax FM 9250GL	4.5	1.03	80.8	28.8	5.4	2	76.3	8.4	31-2,41-1
Stoneville ST 4946GLB2	4.9	1.02	81.8	32.0	7.5	1	75.9	8.8	31-2,31-3
NexGen NG 4010 B2RF	4.5	1.06	81.4	30.8	6.9	1	76.0	8.9	31-1,31-4
FiberMax FM 1944GLB2	4.3	1.08	79.9	30.1	5.7	2	78.4	7.8	31-1,31-2
NexGen NGX 3305 B2RF	4.4	1.07	81.4	30.5	7.7	1	75.0	8.2	31-2,41-1
Dyna-Gro DGX 11-1548 B2RF	3.9	1.08	81.3	32.0	8.4	1	76.0	8.4	31-1,41-1
NexGen NG 1511 B2RF	4.7	1.02	80.3	29.8	8.9	1	73.8	8.6	41-1,41-3
NexGen NG 4012 B2RF	4.3	1.03	80.2	30.0	6.1	1	76.0	9.1	31-3
Deltapine DP 1321 B2RF	4.4	1.04	81.5	30.9	8.4	1	74.9	8.6	31-4
PhytoGen PHY 367 WRF	4.3	1.04	81.1	29.8	7.4	2	72.9	9.1	41-3,42-1
PhytoGen PHY 339 WRF	4.2	1.09	82.2	31.5	7.2	1	77.8	8.3	31-1
NexGen NG 3348 B2RF	4.5	1.07	81.3	29.7	7.0	2	75.3	8.4	31-2,41-1
PhytoGen PHX 3080-01 WRF	4.8	1.04	82.5	28.9	8.5	1	75.0	8.8	31-4,41-3
Deltapine DP 1219 B2RF	4.1	1.07	79.5	30.9	6.8	2	75.9	8.6	31-1,41-1
Seed Source Genetics UA 222	4.0	1.12	82.2	33.5	8.2	2	75.5	9.0	31-1,32-2
NexGen NG 2051 B2RF	4.1	1.01	78.9	28.0	7.1	2	75.0	8.0	31-2,41-1
08-10-706V	3.8	1.05	80.8	32.5	6.7	2	74.1	9.0	32-2,41-3
NexGen NGX 2306B2RF	4.6	1.03	81.8	29.2	7.8	2	77.1	8.6	31-1
Seed Source Genetics HQ 210 CT	4.8	1.03	80.8	31.1	7.6	1	76.7	7.9	31-2,41-1
Mean	4.4	1.05	81.1	30.7	7.4	1	75.6	8.5	
c.v.%	6.2	2.5	1.2	3.2	7.4	37.5	1.5	3.9	
LSD 0.05	0.6	0.05	2.0	2.0	1.1	1	2.4	0.7	

Notes

Table 27. Production information for the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

Test:	Nematode Variety
Planting Date:	May 30
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @1.5 pt/A applied pre-plant Caparol @1.5pt/A applied May 31st Staple @2.0 oz/A applied June 21
Fertilizer:	11-40-0 lbs/A applied pre-plant
Irrigations:	2.75 acre-in applied pre-plant 8.8 acre-in applied May-September
Growth Regulators:	Pix @12 oz/A applied July 30
Harvest Aids:	Prep @3pt/A + 2oz ET November 8
Harvest Date:	December 4

Table 28. Yield and agronomic propery results from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

				Agronomic Properties						% Open				Log10
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		Root-knot	(mean sep.
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	1-Nov	Resistance	Height	/500 cc soil	P=0.05)
PhytoGen PHY 499 WRF	2215	28.0	42.9	38.9	31.5	5.6	10.5	7.1	30.7	70	4	33	2,420	ab
NexGen NGX 3305 B2RF	2200	27.7	45.3	35.6	28.7	5.1	10.8	6.3	28.7	81	5	32	4,035	a
PhytoGen PHX 4433-25 WRF	2191	28.3	44.6	39.1	32.2	5.5	9.7	6.4	33.3	74	5	31	630	bc
NexGen NG 1511 B2RF	2113	31.0	42.2	40.1	31.6	5.4	11.0	7.9	27.3	78	4	31	5,490	ab
Stoneville ST 5458B2F	2089	27.6	45.2	37.1	30.5	6.1	11.9	7.4	30.8	70	4	31	13,590	a
Monsanto MON 13R341B2R2	2055	27.0	43.4	38.0	29.9	6.1	10.9	7.1	32.7	69	3	32	2,820	ab
Stoneville ST 4946GLB2	2035	28.7	44.9	38.2	31.1	6.9	12.6	8.1	32.3	75	6	29	3,325	a
NexGen NG 4111 RF	2031	27.8	44.6	37.7	30.3	5.7	11.1	7.0	30.8	82	5	28	3,645	ab
Deltapine DP 1454*NR* B2RF	1965	28.2	43.2	40.6	31.9	6.2	10.4	7.4	33.6	59	5	36	1,640	abc
FiberMax FM 2011GT	1964	28.7	43.0	40.1	32.1	6.8	12.1	8.5	32.6	80	7	29	50	c
NexGen NG 4010 B2RF	1940	27.2	45.3	36.6	29.3	5.5	11.3	6.9	29.7	88	4	29	4,200	ab
Deltapine DP 1044 B2RF	1914	27.7	46.7	36.1	29.4	5.0	10.2	6.1	29.6	66	4	29	10,230	a
FiberMax FM 1944GLB2	1895	26.9	44.1	36.4	29.6	5.8	11.3	6.8	31.1	76	5	29	2,210	ab
FiberMax FM 9160B2F	1891	27.9	45.2	37.3	30.5	5.8	11.1	7.0	30.9	85	6	30	3,450	a
NexGen NG 3348 B2RF	1838	27.2	46.1	36.6	29.6	5.9	12.0	7.3	29.8	83	5	27	4,695	ab
Deltapine DP 1219 B2RF	1829	27.0	44.2	39.5	31.0	5.2	8.7	6.0	35.2	64	4	36	3,930	a
NexGen NG 3306 B2RF	1805	28.2	46.1	37.9	30.6	5.5	10.5	6.7	31.2	70	5	32	5,610	a
Deltapine DP 174 RF	1778	28.7	44.9	38.7	30.6	6.0	10.7	7.1	32.9	71	4	29	4,470	ab
PhytoGen PHY 367 WRF	1765	27.1	43.0	37.8	29.7	5.7	10.1	6.5	33.3	79	4	28	1,320	ab
PhytoGen PHX 4433-27 WRF	1715	27.7	47.0	37.3	29.9	5.4	10.2	6.4	31.7	78	4	32	1,930	ab
NexGen NG 2051 B2RF	1686	24.2	46.0	32.7	25.2	5.5	11.1	5.8	31.3	86	6	26	7,325	a
NexGen NG 4012 B2RF	1683	27.7	44.9	38.0	30.2	5.7	10.8	7.0	30.9	80	5	30	17,970	a
PhytoGen PHY 339 WRF	1596	29.3	44.5	37.2	29.9	5.3	9.9	6.2	32.0	80	4	32	5,310	a
NexGen NGX 2306B2RF	1368	24.4	44.4	34.6	27.7	5.6	10.7	5.9	33.0	80	5	33	9,450	a
LA001	1178	25.4	41.6	37.8	29.7	6.6	12.9	8.1	30.7	58	5	30	7,890	a
Mean	1870	27.6	44.5	37.6	30.1	5.7	10.9	6.9	31.4	75	5	30		
c.v.%	17.7	4.4	3.7	2.1	2.4	5.3	5.4	5.4	7.3	11.5	18.7	8.9		
LSD 0.05	469	1.7	2.3	1.6	1.5	0.6	1.2	0.8	4.8	12	1	4		

Table 28A. Fiber quality results from the irrigated root-knot nematode cotton variety performance test at the AG-CARES farm in Lamesa, 2013.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color Grade
PhytoGen PHY 499 WRF	4.3	1.16	83.2	31.9	7.8	3	72.0	8.7	41-3,41-4
NexGen NGX 3305 B2RF	3.8	1.18	82.4	31.2	7.3	3	76.0	8.8	31-2,32-1
PhytoGen PHX 4433-25 WRF	3.3	1.14	81.9	31.3	8.4	3	77.0	9.6	21-3,31-3
NexGen NG 1511 B2RF	4.3	1.13	80.6	30.6	8.1	2	75.8	8.8	31-2,31-3
Stoneville ST 5458B2F	4.4	1.14	82.0	32.3	7.3	3	75.1	9.3	31-2,32-1
Monsanto MON 13R341B2R2	3.9	1.13	80.3	30.3	7.3	3	76.8	9.3	31-3
Stoneville ST 4946GLB2	4.0	1.17	83.1	31.9	7.6	2	78.3	8.7	21-2,31-1
NexGen NG 4111 RF	4.0	1.18	82.4	32.2	8.3	2	76.7	8.8	31-1,32-1
Deltapine DP 1454*NR* B2RF	3.9	1.14	81.4	30.2	7.5	2	75.0	9.7	32-1
FiberMax FM 2011GT	3.8	1.14	81.6	30.2	7.0	3	78.3	8.3	31-1
NexGen NG 4010 B2RF	4.0	1.14	82.3	32.3	7.1	2	73.8	9.5	31-4,32-2
Deltapine DP 1044 B2RF	3.7	1.14	82.8	30.5	8.8	2	76.2	9.6	22-1,33-1
FiberMax FM 1944GLB2	4.1	1.17	80.7	32.0	6.3	3	77.4	8.5	31-1,31-3
FiberMax FM 9160B2F	3.7	1.20	83.7	32.9	5.3	3	78.1	8.0	31-1,31-2
NexGen NG 3348 B2RF	4.0	1.14	82.5	31.8	6.9	4	75.8	8.1	31-2,41-1
Deltapine DP 1219 B2RF	3.4	1.18	80.5	32.4	7.2	1	77.9	9.6	21-3
NexGen NG 3306 B2RF	4.0	1.17	82.4	32.7	7.1	2	78.2	8.5	21-2,31-1
Deltapine DP 174 RF	3.4	1.18	81.1	29.9	7.5	2	74.6	9.5	31-4,32-1
PhytoGen PHY 367 WRF	3.7	1.15	81.4	31.0	8.0	2	75.2	9.4	31-2,32-1
PhytoGen PHX 4433-27 WRF	3.6	1.14	82.1	31.8	7.5	3	76.3	8.9	31-1,31-4
NexGen NG 2051 B2RF	3.9	1.14	79.8	28.9	6.3	3	75.2	7.6	41-1
NexGen NG 4012 B2RF	4.3	1.13	82.8	31.2	7.4	2	74.5	8.9	31-3,41-3
PhytoGen PHY 339 WRF	4.2	1.18	82.4	31.1	7.9	1	75.3	8.6	31-2,31-4
NexGen NGX 2306B2RF	3.8	1.17	82.8	31.3	7.3	2	75.7	8.8	31-1,41-3
LA001	3.4	1.14	81.6	33.1	7.6	2	73.7	10.7	21-4,23-4
Mean	3.8	1.15	81.9	31.4	7.4		75.9	8.9	2.0
c.v.%	7.2	1.8	1.0	3.3	9.0		2.0	7.4	43.3
LSD 0.05	0.6	0.04	1.7	2.1	1.4		3.1	1.4	2.0

Notes

Table 29. Production information for the irrigated bacterial blight cotton variety performance test at Texas A&M AgriLife Research in Lubbock, 2013.

Test:	Bacterial Blight
Planting Date:	May 25
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @1.5pt/A applied pre-plant Dual Magnum @1qt/A applied June 17
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations(furrow):	4.8 acre inches pre-plant 2.0 acre inches May 25 2.0 acre inches June 28 1.7 acre inches August 9 1.7 acre inches August 28 12.2 acre inches total
Freeze Date:	October 19

Table 30. Results of the irrigated bacterial blight cotton vareity screening test at Texas A&M AgriLife Research in Lubbock, 2013.

Designation	%Blight	Waller-Duncan	Rating
FiberMax FM 8270GLB2	0	d	Resistant
PhytoGen PHY 339WRF	0	d	Resistant
NexGen NG 4111 RF	3	d	Resistant
NexGen NG 4012 B2RF	4	d	Resistant
NexGen NG 4010 B2RF	5	d	Resistant
NexGen NG 2051 B2RF	18	c	Intermediate
NexGen NG 1511 B2RF	74	b	Moderately Susceptible
PhytoGen PHX 3080-01 WRF	95	a	Susceptible
NexGen NG 5315 B2RF	100	a	Susceptible
NexGen NGX 2306 B2RF	100	a	Susceptible
NexGen NGX 3305 B2RF	100	a	Susceptible
NexGen NG 3306 B2RF	100	a	Susceptible
PhytoGen PHX 3122-40 WRF	100	a	Susceptible
PhytoGen PHY 367WRF	100	a	Susceptible
PhytoGen PHY 499 WRF	100	a	Susceptible