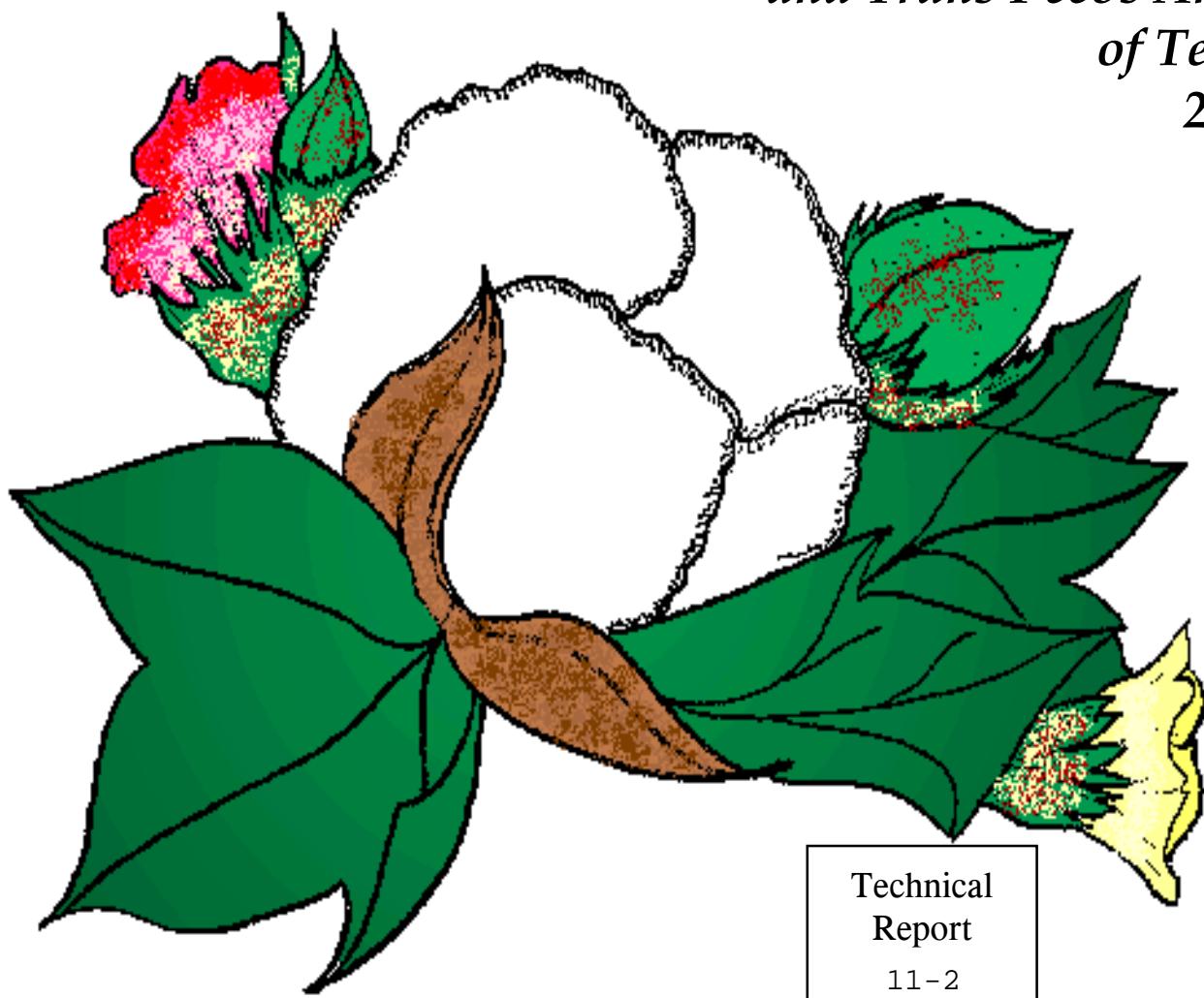


COTTON PERFORMANCE TESTS

*in the Texas High Plains
and Trans Pecos Areas
of Texas
2010*



Technical
Report

11-2

Cotton Performance Tests in the Texas High Plains and Trans-Pecos Areas of Texas 2010^{2/}

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INTRODUCTION

Cotton performance trials were conducted during 2010 at Lubbock, Halfway, and Pecos, Texas AgriLife Research Stations. The Lamesa variety tests were planted on the AG-CARES research farm.

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

In the South Plains and Panhandle regions of Texas during 2010, approximately 3.73 million acres of cotton was planted, of which 3.56 million acres (95.4%) were harvested. This represents a much lower than normal amount of failed or abandoned acres. Roughly, 50% of these acres were irrigated and yields across all acres averaged 982 lbs/acre in the Panhandle and 689 lbs/acre in the South Plains, resulting in 1.5 and 4.1 million bales respectively.

Conditions during early to mid-May were dry and cool, and cold soil temperatures deterred much planting. Most cotton was seeded in mid-May through mid-June. Conditions were extremely wet during June and July, especially early July. Cloudy cool conditions during early July caused significant square shed across the region. The remainder of the season was fairly dry and warm through November. The extended dry and warm fall led it a fully mature and high quality crop.

Abundant rainfall, particularly in the southern South Plains, led to difficulty in timely application of glyphosate and fertilizer, resulting in weedy, N-deficient fields. Additionally, zinc deficiencies were apparent in this region.

Cotton seeded during early May suffered emergence and damping off problems. Nematodes continue to be problematic, but were most severe in the southern and western South Plains. Nematode tolerant varieties, along with Temik and early-season applications of Vydate continue to be the mainstay for managing nematodes. Verticillium was troublesome in some areas causing severe yield loss on the more susceptible varieties.

Early-season thrips pressure was moderate across the region. Counties south of Lubbock experienced significant damage from thrips in early planted cotton. Much of the cotton north of Lubbock was planted under warm conditions and did not suffer heavy damage from thrips. Cotton fleahoppers were abundant in the central and eastern areas of the South Plains, and portions of the Panhandle, but a single insecticide application was all that was required for control. An estimated 564,000 acres were treated for cotton fleahopper. However, because of the extended warm fall, fleahopper damage in non-treated cotton caused little yield loss.

Aphids were abundant in the southern, central and eastern South Plains. Approximately 700,000 acres of cotton were successfully treated for aphids. Lygus were

abundant in the central, northeastern and western South Plains, and occurred earlier than normal. However, most Lygus remained relegated to weedy areas. Approximately 140,000 acres were treated for Lygus. Stinkbugs were prevalent in light to moderate numbers throughout the South Plains. Because of the infrequency of this pest on the South Plains, insecticide applications and timings were sometimes sub-optimal. Only 137,000 acres were treated for stinkbugs.

Lepidopterous pest were problematic in non-Bt cotton in the southwestern central, western and northern portions of the South Plains. These included bollworms, fall armyworms, beet armyworms, yellowstriped armyworms and cotton square borers. Populations of bollworms and cotton square borers occurred during mid to late July in the western and southwestern counties and throughout August most other areas. Non-Bt cotton comprised an estimated 40% of the total cotton acreage; somewhat lower than previous years.

Spider mites were a problem in the Lubbock area, particularly east of Lubbock. Approximately 70,000 acres were treated for mites.

ACKNOWLEDGMENTS

Fiber properties were measured at the Fiber and Biopolymer Research Institute, Texas Tech University, with financial support from the Food and Fibers Research Grant Program of the Texas Department of Agriculture.

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 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: Reagan Anders, Joel Arce, Troy Arce, Mark Arnold, Aaron Bost, Kenzie Buckner, Natalia Castillo, Trey Cutts, Heather Flippin, Joe Flores, Johnny Fuentes, Mitch Juenke, Brad Harris, Carol Kelly, Josephine Kirch, Jimmy Mabry, Nick Macha, Juliana Osorio-Marin, Kim Peters, Alexa Roberts, Monica Sheehan, Raymond Tillis, and Leslie Wells. Bacterial blight, verticillium wilt, and nematode ratings were performed Dr. Terry Wheeler, with the assistance of Evan Arnold, and Victor Mendoza. 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 openness 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 of a given variety.

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 a inch, which 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 to 7.

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/}*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

Finish- Registered trademark of Bayer CropScience

Gramoxone Inteon-trademark of Syngenta

Temik- registered trademark of Bayer CropScience

Treflan-trademark of Dow AgriScience

Pix- trademark of BASF

Folex-registered trademark of Amvac

Super Boll-registered trademark of NuFarm

Prep and Def-trademarks of Bayer CropScience

Parazone-Registered trademark of MANA

Prowl-trademark of BASF

Roundup-registered trademark of Monsanto

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Trust- Registered trademark of AgriSolutions

Array and Zenith-registered trademarks of Midtech R&D

Telone II-Registered trademark of Dow AgriScience

NOTES

Table 1. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2010.

Test: Uniform Variety

Planting Date: May 21

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Prowl @ 1 qt/A applied pre plant

Fertilizer: 100-20-0 lbs/A applied pre-plant

Irrigations: 3.5 acre inches May 7
2.1 acre inches June 17
1.9 acre inches August 5

Insecticide: Temik @ 2.4 lbs/A at planting

Harvest Aids: Def @ 8oz/A October 14
Gramoxone @ 24oz/A + ½% crop oil applied October 20

Harvest Date: November 2

Freeze Date: November 13

Table 2. Results of the irrigated regional uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout		Agronomic Properties				% Open			
		Lint	Seed	% Lint	Picked	Boll	Seed	Index	Lint	Seed per	Bolls
						Size	Index	Index	Boll	10/11/10	Storm
Stoneville ST 5458B2RF	2014	28.9	46.0	37.1	26.6	6.8	11.2	7.3	35.0	89	5
Croplan Genetics CG 3035RF	1899	31.8	45.3	38.7	30.1	6.2	10.9	7.4	32.6	83	5
Monsanto 10R052B2RF	1890	32.3	42.7	40.4	30.6	5.8	9.6	6.9	33.8	80	5
FiberMax FM 958	1877	29.6	44.3	38.0	30.4	6.9	12.3	7.9	33.3	85	6
DeltaPine DP 555B2G/RR	1873	31.8	46.4	37.7	30.8	5.8	9.5	6.2	35.3	88	5
Croplan Genetics CG 3220B2RF	1862	31.8	48.3	38.2	30.2	6.0	11.2	7.3	31.3	93	6
All-Tex AT Epic B2RF	1854	29.6	44.9	38.8	31.2	6.2	11.0	7.8	31.2	78	5
NexGen NG4111 RF	1846	30.5	55.7	37.9	29.8	6.3	11.0	7.2	33.2	86	7
Stoneville ST 5288B2F	1831	30.7	47.7	38.2	30.1	5.7	9.8	6.3	34.6	90	6
Seed Source Genetics SSG HQ 210 CT	1826	29.3	48.2	36.4	29.4	6.0	9.7	5.9	37.3	88	5
DeltaPine DP 0912 B2F	1820	30.3	44.6	36.9	29.7	6.4	10.7	6.9	34.2	95	4
Stoneville ST 4288B2F	1815	29.7	50.8	36.1	28.9	6.2	11.0	6.6	34.0	90	5
DeltaPine DP 1044 B2RF	1815	30.0	47.3	37.0	30.0	5.4	10.8	6.6	30.2	88	5
PhytoGen PHY 565WRF	1802	29.0	46.6	36.5	28.3	6.1	10.9	6.7	32.9	91	5
Monsanto 09R348B2R2	1796	30.7	44.5	38.4	30.5	6.9	11.4	7.6	40.8	89	6
PhytoGen PHY 367WRF	1789	28.1	36.0	39.4	31.0	5.9	10.3	6.9	33.8	89	4
PhytoGen PHY 375WRF	1783	30.1	42.5	37.0	29.1	5.9	10.4	6.8	31.9	93	3
FiberMax FM 1740B2RF	1733	28.9	39.3	38.9	30.8	6.1	11.2	7.5	31.5	95	6
DeltaPine DP 121 RF	1729	30.1	43.0	39.2	30.0	6.4	10.6	7.2	34.7	86	4
PhytoGen PHY 499WRF	1720	29.5	43.0	39.0	30.9	5.7	10.7	7.3	30.8	96	6
FiberMax FM 1773LLB2	1713	28.6	48.7	34.3	27.2	6.5	12.8	7.1	31.4	88	6
DeltaPine DP 1133B2RF	1713	30.9	41.7	36.1	29.9	5.9	10.7	6.3	32.1	81	5
DeltaPine DP 1028 B2RF	1713	32.3	41.6	41.8	32.3	6.0	10.4	7.7	32.6	83	5
NexGen NG4010 B2RF	1713	29.5	47.0	36.8	27.4	5.8	10.3	6.3	30.2	89	6
FiberMax FM 9160B2F	1711	29.3	46.1	36.8	29.5	6.1	11.2	6.9	32.4	91	6
DeltaPine DP 1137 B2RF	1696	31.1	43.5	40.0	29.0	5.8	9.5	6.8	33.9	86	6
Stoneville ST 4554B2RF	1681	28.5	45.2	36.0	29.1	6.8	11.0	6.9	35.3	90	5
NexGen NG4012 B2RF	1678	27.6	44.2	34.2	28.4	5.8	11.1	6.1	26.6	90	4
NexGen NG2349 B2RF	1678	28.7	47.5	35.2	28.0	5.2	10.5	6.2	29.9	94	7
All-Tex AT 65207 B2RF	1674	30.8	47.6	37.1	29.4	6.4	10.9	6.8	34.9	94	5

Table 2. Results of the irrigated regional uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout		Agronomic Properties				% Open		
		Lint	Seed	% Lint	Picked	Boll	Seed Index	Lint Index	Seed per Boll	Boils 10/11/10
					Pulled	Size				Height
Deltapine DP 1032B2RF	1664	29.9	41.0	38.9	31.4	6.2	10.3	7.0	34.5	88
Bayer Crop Science BCSSX 1010B2F	1657	28.9	49.7	35.4	27.5	6.1	12.8	7.4	29.2	91
Seed Source Genetics SSG HQ 212 CT	1648	30.1	49.7	35.5	28.4	6.3	10.4	6.0	37.1	88
All-Tex AT 81158 RF	1636	27.8	47.9	34.8	27.3	7.2	11.9	6.8	36.8	80
Bayer Crop Science BCSSX 1030B2F	1633	29.5	46.1	38.4	29.5	6.1	10.0	6.4	37.4	96
Deltapine DP 174 RF	1615	29.8	43.2	41.8	31.9	6.2	10.5	7.9	32.9	83
PhytoGen PHY 72	1615	28.2	45.9	34.0	26.6	6.6	11.5	6.6	33.9	80
All-Tex AT Apex B2RF	1606	27.2	46.4	37.4	28.6	5.7	10.8	6.8	31.4	90
PhytoGen PHY 519WRF	1605	27.9	44.8	37.0	28.8	5.6	10.6	6.6	31.4	84
FiberMax FM 9180B2F	1601	27.5	46.4	34.4	27.2	6.3	12.1	7.0	31.3	91
All-Tex AT 81220 B2RF	1591	27.1	46.1	35.3	24.7	5.6	11.0	6.4	31.1	94
FiberMax FM 9170B2F	1576	28.5	44.8	37.1	28.4	6.0	11.5	7.2	31.0	90
NexGen NG3348 B2RF	1575	28.3	46.6	34.9	28.3	6.6	12.0	7.1	32.5	91
Americot AM 1532 B2RF	1572	28.1	43.8	36.2	26.3	6.3	11.3	6.7	34.2	95
Monsanto 09R637R2	1572	30.1	44.1	38.3	29.6	6.0	10.4	6.9	33.5	91
PhytoGen PHY 569WRF	1566	29.1	44.6	38.2	29.7	5.7	10.0	6.8	31.9	95
FiberMax FM 1845LLB2	1561	28.2	45.7	34.5	25.7	6.3	12.1	6.7	32.6	86
Croplan Genetics CGX 1001B2RF	1559	27.8	48.0	34.0	25.2	5.6	10.6	5.8	33.2	96
Croplan Genetics CG 4020B2RF	1550	28.2	45.4	37.0	28.6	5.4	10.4	6.5	30.9	93
FiberMax FM 9058F	1516	27.0	44.6	36.2	27.8	6.2	11.5	7.0	31.8	90
Bayer Crop Science BCSSX 1040B2F	1482	25.9	46.8	33.6	26.9	6.1	12.1	6.6	33.4	93
Deltapine DP 104 B2RF	1461	25.5	46.4	35.6	28.4	6.5	11.7	6.7	34.6	98
Croplan Genetics CG 3520B2RF	1428	27.8	46.7	37.0	28.4	5.4	10.6	6.8	29.1	94
Croplan Genetics CG 3020B2RF	1428	26.5	46.4	35.2	27.7	5.9	11.4	6.4	32.2	94
NexGen NG3410 RF	1423	27.2	46.6	35.2	28.2	7.0	11.7	6.8	36.2	85
Mean	1686	29.1	45.6	37.0	28.9	6.1	10.9	6.8	33.1	89
c.v.%	13.4	5.6	8.9	3.3	4.4	7.4	4.5	5.9	4.8	6.2
LSD 0.05	264	1.9	4.7	2.0	2.2	0.8	0.8	0.7	2.6	6

Table 2A. Results of the irrigated regional uniform variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 5458B2RF	4.5	1.15	81.2	32.9	8.4	4	76.1	9.2	21-4,31-4
Croplan Genetics CG 3035RF	4.3	1.15	82.3	31.1	10.2	2	78.7	9.3	21-1,21-4
Monsanto 10R052B2R2	4.5	1.15	82.8	30.7	10.1	2	78.5	9.3	21-1,21-4
FiberMax FM 958	4.2	1.18	82.4	33.2	7.1	2	80.1	8.3	21-2
Deltapine DP 555BG/RR	4.0	1.15	81.0	31.1	7.1	2	80.7	8.4	21-1,21-2
Croplan Genetics CG 3220B2RF	4.5	1.16	82.4	31.2	9.2	1	79.6	9.1	11-2,21-2
All-Tex AT Epic B2RF	4.3	1.17	82.5	32.4	9.7	2	77.5	9.3	21-1,32-1
NexGen NG4111 RF	4.2	1.17	82.9	33.4	8.7	2	78.1	9.2	21-1,31-3
Stoneville ST 5288B2F	4.4	1.17	82.3	30.9	8.0	3	79.6	8.5	21-1,21-2
Seed Source Genetics SSG HQ 210 CT	4.5	1.15	82.5	32.9	9.1	2	80.1	7.9	21-1,31-2
Deltapine DP 0912 B2F	4.8	1.12	82.3	31.9	9.1	2	78.0	9.1	21-2,21-4
Stoneville ST 4288B2F	4.5	1.14	81.0	30.9	9.3	2	79.1	9.0	21-1,21-4
Deltapine DP 1044 B2RF	4.1	1.15	82.4	32.1	10.1	2	79.4	8.7	21-1,21-2
PhytoGen PHY 565WRF	4.3	1.18	83.0	33.5	9.8	3	77.7	8.9	31-1,31-3
Monsanto 09R348B2R2	4.0	1.14	81.8	30.5	8.0	4	78.7	8.1	31-1
PhytoGen PHY 367WRF	4.3	1.16	82.9	32.4	9.2	2	78.1	9.4	21-3
PhytoGen PHY 375WRF	4.3	1.13	81.6	30.1	8.4	2	78.2	9.3	21-1,21-4
FiberMax FM 1740B2RF	4.3	1.15	82.6	31.9	8.0	2	76.6	8.8	21-2,41-3
Deltapine DP 121 RF	4.5	1.16	83.0	32.0	9.7	2	78.2	9.1	21-1,21-2
PhytoGen PHY 499WRF	4.3	1.16	82.6	33.6	9.4	3	78.8	8.8	21-1,21-2
FiberMax FM 1773LLB2	4.0	1.22	81.8	34.4	7.2	3	79.5	8.7	21-1,31-1
Deltapine DP 1133 B2RF	4.4	1.18	83.6	32.8	9.2	1	79.3	9.0	21-1
Deltapine DP 1028 B2RF	4.4	1.14	82.8	29.8	9.8	2	79.6	9.3	21-1
NexGen NG4010 B2RF	4.3	1.19	83.0	33.9	8.4	2	76.6	9.4	21-1,32-1
FiberMax FM 9160B2F	4.0	1.20	83.2	32.7	7.2	2	81.2	8.2	21-1,21-2
Deltapine DP 1137 B2RF	4.6	1.14	83.1	29.5	9.6	1	79.7	9.2	21-1
Stoneville ST 4554B2RF	4.3	1.15	82.9	32.6	10.5	2	77.1	9.5	21-3,21-4
NexGen NG4012 B2RF	4.0	1.17	82.0	33.3	7.4	3	78.8	9.1	21-1,21-2
NexGen NG2549 B2RF	4.1	1.10	82.7	30.5	9.8	4	77.5	8.4	31-1
All-Tex AT 65207 B2RF	4.3	1.15	82.8	31.1	9.3	3	78.1	9.0	21-2,21-4

Table 2A. Results of the irrigated regional uniform variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 1032B2RF	4.3	1.16	82.9	32.5	8.7	2	79.3	8.8	21-1
Bayer Crop Science BCSX 1010B2F	4.2	1.16	81.8	30.9	7.3	3	76.8	9.4	21-4,31-3
Seed Source Genetics SSG HQ 212 CT	4.2	1.15	82.2	33.0	9.5	2	80.9	8.5	21-1
All-Tex AT 81158 RF	4.0	1.16	80.7	30.7	8.8	3	79.6	8.4	21-2,31-1
Bayer Crop Science BCSX 1030B2F	4.2	1.16	82.2	30.3	8.5	3	79.7	9.0	21-1
Deltapine DP 174 RF	4.3	1.19	82.4	29.9	8.4	3	79.1	8.5	21-2,31-1
PhytoGen PHY 72	4.2	1.21	83.1	36.1	8.5	3	76.5	9.2	21-4,31-3
All-Tex AT Apex B2RF	4.1	1.17	82.0	29.9	9.1	2	77.9	9.1	21-2,21-4
PhytoGen PHY 519WRF	4.3	1.18	82.2	33.2	9.1	3	78.0	8.8	21-1,31-3
FiberMax FM 9180B2F	4.3	1.20	83.1	32.6	7.9	2	79.5	8.2	21-1,31-1
All-Tex AT 81220 B2RF	4.3	1.18	82.0	31.0	8.1	3	79.0	8.4	21-1,31-1
FiberMax FM 9170B2F	3.9	1.21	82.6	33.1	7.6	2	80.9	8.2	21-1,21-2
NexGen NG3348 B2RF	4.1	1.16	83.0	31.6	8.5	4	77.4	8.6	31-1
Americot AM 1532 B2RF	4.0	1.16	82.1	29.9	8.2	1	78.2	9.2	11-2,31-3
Monsanto 09R637R2	4.7	1.16	83.4	30.3	10.4	2	79.2	9.1	21-1
PhytoGen PHY 569WRF	4.0	1.15	82.8	33.3	10.3	1	78.3	9.7	21-3
FiberMax FM 1845LLB2	4.1	1.21	82.7	34.1	7.8	2	79.3	8.6	21-1,21-2
CropPlan Genetics CGX 1001B2RF	4.5	1.18	83.2	31.2	8.8	3	77.3	8.4	31-1
CropPlan Genetics CG 4020B2RF	4.3	1.18	82.3	30.1	8.8	1	79.7	9.3	21-1,21-3
FiberMax FM 9058F	4.2	1.21	81.7	31.8	6.8	4	77.1	8.3	31-1,31-2
Bayer Crop Science BCSX 1040B2F	4.5	1.24	84.2	32.6	7.8	3	77.0	8.4	31-1,31-2
Deltapine DP 104 B2RF	3.9	1.18	83.0	33.4	9.3	3	78.6	8.9	21-1,21-2
CropPlan Genetics CG 3520B2RF	4.3	1.16	82.5	30.6	9.8	3	78.4	8.9	21-2,31-3
CropPlan Genetics CG 3020B2RF	4.1	1.13	82.2	30.0	9.8	3	77.5	8.9	31-1,31-3
NexGen NG3410 RF	3.7	1.20	82.6	33.1	8.2	3	78.1	8.7	21-2,31-1
Mean	4.2	1.17	82.5	31.9	8.8	2	78.6	8.8	
c.v.%	3.8	1.5	0.7	2.1	4.3	30.2	1.6	2.2	
LSD 0.05	0.3	0.03	1.2	1.3	0.8	1	2.5	0.4	

Table 3. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Lubbock.

Designation	2006	2007	2008	2009	2010	Average	Comp. Average*
Five Year Average							
All-Tex AT Apex RF	1439	1015	1902	1065	1606	1405	
Croplan Genetics CG 3020B2RF	1227	905	1746	1344	1428	1330	
Deltapine DP 121 RF	1669	1179	1953	1390	1729	1584	
Deltapine DP 555 BR	1140	865	1958	1390	1873	1445	
FiberMax FM 958	1149	1381	1813	1599	1877	1564	
FiberMax FM 9058F	1456	1609	1937	1421	1615	1608	
PhytoGen PHY 72	1234	757	1648	1424	1615	1336	
Stoneville STV 4554 B2RF	1476	1264	1962	1185	1681	1514	
Four Year Average							
Croplan Genetics CG 3035RF	901	1951	1479	1899	1558	1526	
Croplan Genetics CG 3220B2RF	944	2003	1658	1862	1617	1585	
Croplan Genetics CG 3520B2RF	1152	1735	1196	1428	1378	1346	
Croplan Genetics CG 4020B2RF	1030	1833	1423	1550	1459	1427	
FiberMax FM 9180B2F	1366	1964	1172	1601	1526	1494	
Three Year Average							
Americot AM 1532 B2RF	1816	1137	1572	1508	1349		
FiberMax FM 1740B2F	2197	1871	1733	1934	1775		
FiberMax FM 9160B2F	1876	1355	1711	1647	1488		
NexGen NG3348 B2RF	1663	1364	1575	1534	1375		
NexGen NG3410 RF	1635	1421	1423	1493	1334		
PhytoGen PHY 375WRF	1948	1821	1783	1851	1692		
Seed Source Genetics SSG HQ 210 CT	1764	1789	1826	1793	1634		
Stoneville ST 5458 B2RF	2104	1964	2014	2027	1868		

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

Table 4. Production information for pivot irrigated performance test at Texas AgriLife Research, Halfway, TX 2010.

Test:	Uniform Variety
Planting Date:	May 6
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @ 1 ½ pt/A applied pre-plant Dual @ 12oz/A applied July 21
Fertilizer:	80-20-0 lbs/A applied June 14
Irrigations:	6.2 acre inches during season
Insecticide:	Temik @ 2.4 lbs/A at planting Orthene 3.2 oz/A applied June 9
Growth Regulator:	Pix @ 12 oz/A applied July 20
Harvest Date:	November 9
Freeze Date:	November 13

Table 5. Results of the pivot irrigated uniform variety test at Texas AgriLife Research, Halfway 2010

Designation	Yield	% Turnout			Agronomic Properties			% Open Bolls			Storm Resistance			Height	
		% Lint		Seed	% Lint	Boll	Seed	Lint	Seed per Boll	09/29/10	Bolls	6/29/10	Resistance		
		Lint	Seed	Picked	Pulled	Size	Index	Index	Index	Index	75	65	71	66	28
FiberMax FM 9058F	2011	27.9	44.6	37.0	29.6	6.8	12.2	7.6	33.4	75	6	5	5	35	
PhytoGen PHY 499WRF	1945	26.3	39.2	39.1	32.5	6.1	11.2	7.4	32.7	65	5	5	5	30	
Croplan Genetics CG 3035RF	1928	29.6	45.1	39.3	32.5	7.0	11.7	7.9	34.6	71	5	5	5	30	
NexGen NG4111 RF	1927	27.6	42.7	37.4	30.6	6.2	10.9	7.1	32.4	65	6	6	6	30	
NexGen NG2549 B2RF	1916	28.2	47.4	34.6	28.3	5.6	10.9	6.0	32.1	69	7	7	7	31	
FiberMax FM 9170B2F	1910	28.4	45.2	37.2	30.7	6.3	11.5	7.1	32.7	70	5	5	5	27	
Deltapine DP 0912 B2F	1881	27.9	44.9	35.9	28.9	6.6	11.7	7.0	33.9	64	5	5	5	29	
Croplan Genetics CGX 1001B2RF	1876	27.1	48.9	34.3	27.7	5.4	11.0	6.0	30.7	79	5	5	5	29	
FiberMax FM 958	1876	28.3	43.7	36.8	28.8	6.6	12.1	7.4	32.5	73	6	6	6	29	
PhytoGen PHY 367WRF	1850	28.8	45.8	38.3	32.5	5.7	11.1	6.9	33.2	64	5	5	5	29	
PhytoGen PHY 375WRF	1836	27.5	42.6	37.3	29.8	5.7	10.6	6.7	31.6	73	4	4	4	30	
Deltapine DP 1044 B2RF	1814	27.9	47.7	34.2	27.7	6.9	11.4	6.1	31.3	69	5	5	5	28	
PhytoGen PHY 519WRF	1803	27.5	44.7	35.5	28.9	6.1	11.1	6.4	33.9	58	6	6	6	31	
Seed Source Genetics SSG HQ 210 CT	1791	26.5	46.5	34.3	27.6	6.2	10.9	6.0	35.4	60	5	5	5	29	
Stoneville ST 4554B2RF	1782	28.9	44.6	38.3	31.5	6.7	11.5	7.5	34.5	60	4	4	4	28	
Bayer CropScience BCSSX 1030B2F	1777	28.1	46.4	36.6	29.5	5.9	10.4	6.4	33.4	66	5	5	5	29	
FiberMax FM 1740B2RF	1775	26.8	44.5	36.4	29.5	6.4	11.9	7.3	32.0	74	6	6	6	29	
Stoneville ST 5288B2F	1749	27.2	45.8	34.6	27.8	6.1	11.0	6.2	33.7	66	5	5	5	29	
Deltapine DP 121 RF	1740	28.6	43.1	38.7	31.2	5.7	10.5	7.0	31.7	74	5	5	5	30	
PhytoGen PHY 569WRF	1727	27.5	44.2	35.3	28.3	5.9	10.5	6.0	34.7	58	5	5	5	32	
Stoneville ST 5458B2RF	1720	26.5	44.3	35.2	28.7	6.7	12.5	7.3	32.6	63	5	5	5	30	
Deltapine DP 104 B2RF	1715	26.1	48.0	35.2	28.2	6.3	12.4	6.8	32.3	78	6	6	6	28	
All-Tex AT 81220 B2RF	1712	27.0	45.3	35.0	28.5	6.2	11.6	6.6	32.9	73	5	5	5	29	
PhytoGen PHY 72	1704	29.8	48.9	36.7	30.5	6.4	11.1	6.8	34.5	60	4	4	4	30	
All-Tex AT Epic B2RF	1700	28.4	43.3	35.7	28.5	6.3	11.8	7.1	31.8	66	5	5	5	29	
Deltapine DP 555BG/RR	1696	29.0	43.5	37.5	30.9	5.9	9.6	6.0	37.3	61	4	4	4	30	
Deltapine DP 1133 B2RF	1690	29.1	41.8	36.5	29.2	6.4	11.1	6.9	33.3	54	5	5	5	30	
Croplan Genetics CG 3520B2RF	1671	25.7	44.2	34.6	26.1	5.6	11.0	6.2	31.1	74	5	5	5	28	
FiberMax FM 9180B2F	1670	27.2	43.9	34.8	27.9	6.8	12.7	7.1	33.6	66	6	6	6	28	
All-Tex AT 65207 B2RF	1667	26.4	43.4	35.0	28.8	5.8	11.3	6.4	31.9	66	5	5	5	31	

Table 5. Results of the pivot irrigated uniform variety test at Texas AgriLife Research, Halfway 2010

Designation	Yield	% Turnout		% Lint		Agronomic Properties		% Open	
		Lint	Seed	Picked	Pulled	Boll	Seed Index	Lint Index	Seed per Boll
						Size			09/29/10 Bolls
Croplan Genetics CG 3220B2RF	1665	27.6	46.2	34.3	30.9	7.0	12.7	7.0	34.1
FiberMax FM 9160B2F	1658	26.3	44.4	30.7	29.3	7.5	11.3	6.6	34.1
Deltapine DP 174 RF	1654	27.7	43.1	37.4	29.8	6.9	11.1	7.0	36.6
All-Tex AT Apex B2RF	1642	25.3	44.2	35.6	29.3	6.1	11.5	6.5	33.3
FiberMax FM 1773LLB2	1641	26.1	46.5	35.0	28.2	6.9	12.5	6.9	35.3
NexGen NG4010 B2RF	1619	25.8	45.1	33.6	26.1	6.1	11.7	6.3	32.5
Stoneville ST 4288B2F	1615	26.9	45.3	35.3	29.3	7.2	12.2	6.9	36.8
NexGen NG3410 RF	1612	26.7	46.0	33.2	26.8	7.2	13.5	7.2	33.1
Deltapine DP 1137 B2RF	1582	29.1	42.8	36.4	27.8	6.6	10.3	7.3	32.0
Seed Source Genetics SSG HQ 212 CT	1581	28.3	47.1	35.3	25.5	5.8	10.7	6.0	33.9
Monsanto 09R348B2R2	1565	26.5	41.9	35.6	28.9	6.4	12.0	7.0	32.5
Croplan Genetics CG 4020B2RF	1560	25.4	44.2	33.2	26.9	6.2	11.6	6.4	32.5
Americot AM 1532 B2RF	1537	25.2	43.1	33.4	26.4	5.5	10.9	5.9	31.3
Monsanto 09R637R2	1534	27.9	42.9	35.8	29.1	6.1	10.8	6.6	33.0
Deltapine DP 1032B2RF	1516	27.4	41.9	36.9	29.3	6.2	10.8	6.7	34.1
Bayer CropScience BCSSX 1040B2F	1513	23.2	45.7	31.7	25.3	6.2	12.8	6.3	31.3
NexGen NG4012 B2RF	1510	26.2	43.6	35.2	28.1	6.3	11.6	6.7	33.1
Monsanto 10R052B2R2	1506	29.6	42.9	37.8	29.4	6.1	9.8	6.3	36.0
Bayer CropScience BCSSX 1010B2F	1503	25.2	45.1	34.2	27.1	6.5	12.5	6.9	32.4
PhytoGen PHY 565WRF	1496	25.6	43.4	35.8	28.6	5.9	11.4	6.7	32.0
Croplan Genetics CG 3020 B2RF	1495	24.9	44.5	33.2	26.4	6.4	11.7	6.2	34.7
NexGen NG3348 B2RF	1483	24.5	43.1	34.2	28.0	6.5	12.6	7.0	31.7
FiberMax FM 1845LLB2	1438	25.9	45.3	33.6	26.8	6.9	12.1	6.5	36.0
Deltapine DP 1028 B2RF	1382	29.7	42.2	35.2	28.3	6.0	10.6	6.0	35.4
All-Tex AT 81158 RF	1317	24.8	44.7	33.6	26.6	6.7	11.9	7.2	35.6
Mean	1681	27.1	44.5	35.5	28.7	6.3	11.4	6.7	33.3
c.v.%	13.4	5.9	5.4	5.0	6.4	3.3	5.7	4.4	13.4
LSD 0.05	316	2.2	3.3	3.6	3.7	0.8	0.8	3.0	12

Table 5A. Results of the pivot irrigated uniform variety test at Texas AgriLife Research, Halfway 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9058F	3.7	1.19	81.1	31.3	7.3	2	79.9	7.3	31-1,41-1
PhytoGen PHY 499WRF	3.9	1.15	81.8	31.8	9.2	4	76.9	8.3	31-1,31-2
Croplan Genetics CG 3035RF	3.8	1.12	82.0	29.5	10.6	1	78.5	8.8	21-1,31-1
NexGen NG4111 RF	3.8	1.13	81.8	32.5	8.7	2	78.8	8.8	21-1,31-1
NexGen NG2549 B2RF	3.4	1.08	82.2	29.8	9.7	3	78.0	7.9	31-1,31-2
FiberMax FM 9170B2F	3.7	1.17	82.1	31.5	7.6	1	80.5	7.5	21-2,31-1
Deltapine DP 0912 B2F	4.0	1.12	81.0	30.1	8.9	3	78.7	8.7	21-2,31-1
Croplan Genetics CGX 1001B2RF	4.1	1.17	82.2	30.4	9.1	3	77.1	7.8	31-2
FiberMax FM 958	3.8	1.15	81.7	31.4	7.1	2	80.3	7.6	31-1
FiberMax FM 9170B2F	3.6	1.13	80.4	30.6	9.4	3	78.0	8.8	21-2,31-1
PhytoGen PHY 367WRF	3.9	1.12	80.3	28.7	8.5	3	79.0	8.3	31-1
Deltapine DP 1044 B2RF	3.9	1.12	81.2	30.6	9.6	2	78.6	7.9	31-1,31-2
PhytoGen PHY 519WRF	3.3	1.13	80.8	32.8	9.6	1	78.5	8.9	21-2,21-4
Seed Source Genetics SSG HQ 210 CT	3.7	1.15	81.4	32.7	8.9	2	80.4	8.1	21-2
Stoneville ST 4554B2RF	4.2	1.13	81.5	31.0	10.1	3	77.6	8.8	21-1,31-2
Bayer CropScience BCSSX 1030B2F	3.8	1.12	81.3	28.7	9.2	2	78.4	8.1	31-1
FiberMax FM 1740B2RF	3.9	1.12	81.3	30.7	8.4	1	80.1	7.9	21-2,31-1
Stoneville ST 5288B2F	4.0	1.16	80.8	30.0	8.0	4	79.0	7.5	31-1
Deltapine DP 121 RF	4.1	1.14	81.3	30.8	9.4	2	78.0	8.7	21-2,31-1
PhytoGen PHY 569WRF	4.0	1.12	82.0	30.4	10.4	1	77.4	9.2	21-4,31-3
Stoneville ST 5458B2RF	3.5	1.10	78.9	31.0	7.7	3	77.7	8.9	21-2,31-1
Deltapine DP 104 B2RF	3.5	1.14	82.4	30.7	9.4	3	78.5	8.1	31-1,31-2
All-Tex AT 81220 B2RF	3.8	1.15	81.4	30.1	7.6	3	79.3	8.0	21-2,31-1
PhytoGen PHY 72	4.0	1.22	82.9	35.2	8.7	2	78.1	8.7	21-2,31-1
All-Tex AT Epic B2RF	4.0	1.10	81.8	29.9	10.0	2	78.3	8.8	21-1,31-1
Deltapine DP 555BG/RR	3.5	1.09	78.4	29.4	7.9	1	79.6	7.3	31-1,31-2
Deltapine DP 1133 B2RF	4.1	1.14	82.1	31.9	9.7	2	78.6	8.9	21-2,21-4
Croplan Genetics CG 3520B2RF	4.0	1.15	81.7	28.5	9.6	3	77.8	8.3	31-1,31-2
FiberMax FM 9180B2F	3.8	1.13	82.0	29.4	9.0	1	80.5	8.2	21-1,21-2
All-Tex AT 65207 B2RF	3.9	1.12	81.9	29.4	9.2	2	76.3	8.6	31-2,31-3

Table 5A. Results of the pivot irrigated uniform variety test at Texas AgriLife Research, Halfway 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Croplan Genetics CG 3220B2RF	3.5	1.11	81.1	31.1	9.3	1	78.4	8.7	21-2,31-1
FiberMax FM 9160B2F	3.3	1.17	82.3	31.8	7.4	3	80.4	7.6	31-1
Deltapine DP 174 RF	3.7	1.14	81.0	29.0	8.6	2	79.1	8.4	31-1
All-Tex AT Apex B2RF	3.7	1.14	81.2	28.2	8.2	2	78.9	8.5	21-1,31-1
FiberMax FM 1773LLB2	4.1	1.18	81.8	31.8	6.9	2	79.5	7.9	21-2,31-1
NexGen NG4010 B2RF	3.9	1.15	81.6	31.5	8.3	2	77.2	8.4	21-2,41-1
Stoneville ST 4288B2F	4.2	1.13	80.8	30.1	8.7	3	77.9	8.5	31-1
NexGen NG3410 RF	3.4	1.19	81.6	30.7	8.1	2	78.7	8.5	21-2,31-1
Deltapine DP 1137 B2RF	3.9	1.11	81.9	29.2	9.0	1	80.0	8.6	21-1
Seed Source Genetics SSG HQ 212 CT	3.6	1.13	80.7	32.2	8.7	3	79.1	8.1	31-1
Monsanto 09R348B2R2	3.1	1.11	80.5	29.3	8.3	4	80.3	7.5	31-1
Croplan Genetics CG 4020B2RF	3.8	1.16	81.5	29.7	9.0	2	77.9	8.1	31-1
Americot AM 1532 B2RF	3.7	1.13	80.4	28.3	8.7	2	78.7	8.7	21-2
Monsanto 09R637R2	4.0	1.11	82.0	29.0	10.6	1	79.0	9.1	21-1
Deltapine DP 1032B2RF	3.6	1.15	81.5	31.0	8.8	1	80.1	8.3	21-1,21-2
Bayer CropScience BCSSX 1040B2F	4.1	1.23	82.9	31.9	7.4	4	77.6	7.9	31-1,31-2
NexGen NG4012 B2RF	3.5	1.16	81.7	33.6	7.4	1	79.4	8.9	21-1,21-2
Monsanto 10R052B2R2	3.6	1.13	81.1	30.5	8.7	3	79.1	8.4	21-2
Bayer CropScience BCSSX 1010B2F	3.2	1.15	80.6	29.5	7.4	1	79.1	8.7	21-1,31-1
PhytoGen PHY 565WRF	3.3	1.15	80.9	31.7	9.3	3	76.7	8.5	31-1,31-2
Croplan Genetics CG 3020 B2RF	3.0	1.12	80.1	29.4	8.9	2	80.3	8.5	21-1,21-2
NexGen NG3348 B2RF	3.8	1.15	82.6	30.9	8.6	3	77.7	8.3	31-1,31-2
FiberMax FM 1845LLB2	3.7	1.20	81.9	33.0	7.4	2	80.2	8.1	21-2,31-1
Deltapine DP 1028 B2RF	3.7	1.11	80.7	28.9	9.0	2	79.4	8.8	21-1,21-2
All-Tex AT 81158 RF	3.8	1.15	82.6	30.7	9.3	3	80.6	8.0	21-1,31-1
Mean	3.7	1.14	81.4	30.6	8.7	2	78.8	8.3	
c.v.%	9.3	1.9	0.9	3.6	6.4	39.0	1.2	3.6	
LSD 0.05	0.7	0.04	1.5	2.2	1.1	2	2.0	0.6	

Table 6. Production information for the irrigated cotton variety test at Texas AgriLife Research, Halfway

Designation	2006	2007	2008	2009	2010	Average	Comp. Average*
Five Year Average							
Croplan Genetics 3020B2RF	1522	951	991	1525	1495	1297	
FiberMax FM 958	1843	1038	1017	1524	1876	1460	
FiberMax FM 9058F	1720	971	1065	1538	2011	1461	
Four Year Average							
Croplan Genetics CG 3035RF	1073	987	1533	1928	1380	1453	
Croplan Genetics CG 3220B2RF	970	917	1519	1665	1268	1341	
Croplan Genetics CG 4020B2RF	946	974	1495	1560	1244	1317	
Deltapine DP 121 RF	1033	1042	1577	1740	1348	1421	
FiberMax FM 1740B2F	1103	1003	1610	1775	1373	1446	
FiberMax FM 9180B2F	970	1100	1357	1670	1274	1347	
Seed Source Genetics SSG HQ 210 CT	944	946	1127	1791	1202	1275	
Three Year Average							
Americot AM 1532 B2F		943	1509	1537	1330	1287	
Croplan Genetics CG 3520B2RF		1009	1665	1671	1448	1405	
FiberMax FM 9160B2F		958	1592	1658	1403	1360	
NexGen NG3348 B2RF		927	1693	1483	1368	1325	
NexGen NG3410 RF		911	1662	1612	1395	1352	
PhytoGen PHY 375WRF		1009	1346	1836	1397	1354	
PhytoGen PHY 72		941	1540	1704	1395	1352	
Stoneville ST 4554 B2RF		1115	1506	1782	1468	1425	
Stoneville ST 5458 B2RF		893	1513	1720	1375	1332	

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

Table 7. Production information for drip irrigated performance test at the AG-CARES farm, Lamesa, TX 2010.

Test:	Uniform Variety
Planting Date:	May 19
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @ 1.3pt/A applied pre-plant Caparol @ 1.5pt/A applied May 22
Fertilizer:	20-10-0-5 @ 300 lbs/A applied pre-plant 32-0-0 @ 30 lbs/A applied June 2 (fertigation) 32-0-0 @ 30lbs/A applied June 30 (fertigation) 32-0-0 @ 30lbs/A applied July 21 (fertigation)
Irrigations:	4.39 acre-in applied pre-plant 5.1 acre-in applied May-September
Growth Regulator:	Pix @ 16oz/A applied July 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 2 pt/A + 2oz ET with .45lbs/A Zennith September 30 Gramoxone Inteon @ 32 oz/A + .25lb/A Array October 18
Harvest Date:	October 30
Freeze Date:	November 13

Table 8. Results of the drip irrigated uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Yield	% Turnout				Agronomic Properties				% Open			
		% Lint		Seed	Picked	Boll	Seed	Index	Lint	Seed per	Bolls	Storm	10/04/10
		%	Lint	Seed	Pulled	Size	Index	Index	Boll	10/04/10			
Deltapine DP 174 RF	1488	31.0	43.2	39.6	31.2	6.1	10.5	7.2	33.4	70	5	27	
Stoneville ST 4554B2RF	1411	28.7	44.9	36.1	29.0	5.9	12.0	7.0	30.7	75	4	25	
Stoneville ST 5458B2RF	1389	28.8	41.8	38.7	31.2	5.9	10.0	7.0	32.5	64	5	26	
FiberMax FM 9160B2F	1346	29.3	43.6	38.4	31.1	5.8	10.5	6.8	32.8	76	6	23	
PhytoGen PHY 367WRF	1334	26.8	40.8	38.9	30.8	5.5	10.0	6.7	31.4	79	3	24	
Deltapine DP 1044 B2RF	1285	30.0	46.2	37.6	29.5	5.4	10.5	6.6	30.5	54	6	23	
PhytoGen PHY 569WRF	1259	27.7	42.6	38.4	29.7	5.0	9.0	6.0	32.2	78	4	26	
All-Tex AT Epic B2RF	1250	30.1	42.6	38.9	31.5	5.7	10.5	7.1	31.5	74	4	24	
Deltapine DP 1211RF	1245	28.7	40.2	39.8	31.4	5.6	9.5	6.7	33.4	70	5	25	
Stoneville ST 4288B2F	1244	27.9	43.4	35.8	28.6	6.1	11.5	6.7	32.5	74	5	24	
Croplan Genetics CG 3220B2RF	1206	29.4	45.3	37.3	29.6	5.9	11.0	6.9	32.0	71	5	23	
Croplan Genetics CG 3035RF	1167	29.4	40.8	39.3	30.8	6.2	11.0	7.5	32.1	64	5	24	
All-Tex AT 65207 B2RF	1155	28.3	42.2	38.2	30.8	5.4	10.0	6.7	30.7	76	5	25	
PhytoGen PHY 519WRF	1147	26.5	41.4	37.7	29.2	5.0	9.5	6.2	30.5	76	6	27	
Monsanto 10R052B2R2	1138	29.6	39.3	41.0	31.5	5.4	9.5	7.0	31.1	50	5	25	
PhytoGen PHY 565WRF	1130	27.0	42.3	37.2	28.9	4.8	10.0	6.2	29.0	74	4	25	
Deltapine DP 1137B2RF	1114	30.0	40.8	39.2	30.6	5.7	10.5	7.3	30.6	76	5	24	
Deltapine DP 1133 B2RF	1110	27.8	40.5	39.6	30.7	5.8	10.0	6.9	33.1	73	5	25	
PhytoGen PHY 499WRF	1108	27.2	39.5	39.0	30.5	5.1	10.0	6.9	30.1	64	5	23	
All-Tex AT Apex B2RF	1099	25.7	41.7	36.7	28.4	5.6	10.5	6.4	31.8	80	5	25	
PhytoGen PHY 375WRF	1094	28.5	41.7	38.7	30.8	5.3	10.0	6.8	30.4	68	4	25	
Americot AM 1532 B2RF	1085	27.3	43.3	33.7	28.3	6.4	10.5	6.5	32.9	80	5	24	
Bayer Crop Science BCX 1030B2F	1080	28.4	41.8	38.7	30.1	5.5	10.0	6.7	31.7	70	4	24	
Deltapine DP 104 B2RF	1068	25.2	45.7	36.7	29.5	5.6	11.0	6.5	31.7	80	5	22	
Croplan Genetics CG 3020 B2RF	1065	25.5	43.5	34.7	27.5	6.0	11.0	6.3	33.4	78	5	22	
Deltapine DP 1028 B2RF	1060	29.1	41.7	40.6	31.0	5.2	9.5	6.9	30.7	69	5	24	
FiberMax FM 1740B2RF	1058	29.6	43.5	39.1	30.2	5.6	11.0	9.0	25.3	70	5	22	
Deltapine DP 0912 B2F	1052	28.2	42.6	38.3	30.8	6.0	10.5	7.0	32.6	78	4	22	
FiberMax FM 9170B2F	1050	28.8	43.2	38.4	31.0	5.5	11.0	7.3	30.0	65	5	21	
Monsanto 09R348B2R2	1050	28.0	41.3	37.8	34.0	5.3	10.5	6.9	29.1	75	5	24	

Table 8. Results of the drip irrigated uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Yield	% Turnout				Agronomic Properties						% Open		
		% Lint		% Seed		% Lint Picked Pulled		Seed Index	Lint Index	Seed per Boll	Bolls 10/04/10	Storm Resistance	Height	
		% Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/04/10	Resistance	Height		
Deltapine DP 555BG/RR	1045	30.4	46.0	38.9	31.8	5.0	8.0	5.8	34.0	70	5	23		
FiberMax FM 9058F	1036	26.7	43.0	36.8	28.3	5.7	11.0	7.0	30.2	68	6	21		
NexGen NG3410 RF	1022	26.5	44.4	37.7	29.5	6.7	12.0	7.5	33.5	66	6	24		
NexGen NG4111 RF	1015	26.8	39.1	38.0	29.9	5.4	10.0	6.7	30.8	78	6	24		
Bayer CropScience BCSX 1010B2F	1013	27.9	44.0	36.5	29.0	5.7	11.5	6.9	30.0	63	4	24		
NexGen NG4010 B2RF	987	27.5	44.8	35.9	28.4	5.2	10.0	6.0	31.3	75	5	22		
Monsanto 09R637R2	974	28.6	40.5	38.9	30.0	5.3	9.5	6.5	32.1	78	4	23		
All-Tex AT 81220 B2RF	970	25.9	42.1	36.7	29.1	5.4	10.0	6.2	31.5	79	5	23		
Croplan Genetics CG 4020B2RF	959	27.2	45.3	36.8	28.6	5.9	10.5	6.6	32.9	69	4	23		
Deltapine DP 1032B2RF	958	28.7	39.6	40.4	31.8	5.3	9.0	6.4	33.4	68	4	24		
FiberMax FM 9180B2F	957	25.7	42.5	36.2	28.0	6.1	11.5	6.8	32.4	71	7	21		
NexGen NG4012 B2RF	956	28.2	42.8	38.3	29.8	5.2	10.0	6.5	30.9	75	5	24		
NexGen NG3348 B2RF	935	26.7	44.9	36.5	29.2	5.5	11.0	6.5	31.1	76	6	22		
FiberMax FM 1845LLB2	922	26.1	43.6	35.8	28.1	5.5	12.0	6.9	28.5	63	5	23		
Croplan Genetics CG 3520B2RF	920	27.3	43.3	38.0	29.9	4.7	10.5	6.4	27.6	74	4	22		
Croplan Genetics CGX 1001B2RF	910	25.6	45.6	34.2	26.9	4.9	10.5	5.5	30.6	65	5	23		
NexGen NG2549 B2RF	864	27.0	45.0	35.5	28.9	5.1	10.5	6.0	30.1	76	7	22		
Seed Source Genetics SSG HQ 210 CT	860	29.0	46.2	37.0	30.2	6.1	9.0	5.7	40.2	69	4	21		
FiberMax FM 958	854	26.8	43.2	37.0	29.0	6.3	11.5	7.2	32.5	65	6	22		
All-Tex AT 81158 RF	829	24.6	43.9	35.4	27.3	5.6	11.0	6.3	31.3	58	5	24		
Bayer Crop Science BCSX 1040B2F	818	22.8	42.5	33.4	25.7	5.7	11.5	6.2	30.9	70	4	22		
PhytoGen PHY 72	776	27.2	45.5	34.9	27.4	6.0	11.5	6.3	33.5	64	4	24		
Seed Source Genetics SSG HQ 212 CT	750	29.4	46.2	37.0	29.9	5.6	10.0	6.0	34.3	50	4	19		
FiberMax FM 1773LLB2	735	26.9	46.7	35.9	28.6	5.9	12.0	7.1	29.5	50	5	22		
Stoneville ST 5298B2F	707	26.8	41.2	39.4	31.2	5.1	9.5	6.2	32.6	75	5	22		
Mean	1055	27.7	43.0	37.5	29.7	5.6	10.4	6.6	31.5	70	5	23		
c.v.%	14.4	5.1	3.1	3.3	3.9	6.3	4.9	6.6	6.0	17.0	16.1	7.8		
LSD 0.05	213	2.0	3.1	2.5	2.3	0.7	1.0	0.9	3.8	17	1	3		

Table 8A. Results of the drip irrigated uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 174 RF	4.5	1.15	81.3	31.2	8.6	3	79.6	7.6	21-2,31-2
Stoneville ST 4554B2RF	4.7	1.15	83.4	32.2	9.7	3	78.2	8.4	31-1
Stoneville ST 5458B2RF	4.7	1.13	80.7	32.5	8.3	3	78.0	8.5	31-1
FiberMax FM 9160B2F	4.0	1.18	82.5	31.9	7.4	2	81.0	7.6	21-1,31-1
PhytoGen PHY 367WRF	4.2	1.15	82.4	32.9	9.5	2	80.3	8.0	21-1,31-1
Deltapine DP 1044 B2RF	4.1	1.14	82.0	31.4	9.8	2	80.1	8.2	21-2
PhytoGen PHY 569WRF	4.1	1.12	83.0	32.6	11.0	2	79.6	8.8	11-2,31-1
All-Tex AT Epic B2RF	4.6	1.12	82.0	33.3	10.1	2	79.2	8.2	21-2,31-1
Deltapine DP 121 RF	4.7	1.13	82.6	31.4	9.2	3	78.4	8.1	31-1
Stoneville ST 4288B2F	4.9	1.12	81.7	30.5	9.0	3	78.3	8.2	31-1
Croplan Genetics CG 3220B2RF	4.5	1.13	82.1	30.8	9.2	1	80.8	8.1	21-1,21-2
Croplan Genetics CG 3035RF	4.0	1.13	82.0	30.9	10.3	1	80.2	8.8	11-2,21-1
All-Tex AT 65207 B2RF	4.6	1.12	83.1	30.2	9.0	3	78.2	8.1	31-1
PhytoGen PHY 519WRF	4.0	1.16	81.9	33.5	9.6	2	79.7	8.4	21-2
Monsanto 10R052B2R2	4.0	1.12	82.6	30.7	10.0	1	80.5	8.4	21-1,21-2
PhytoGen PHY 565WRF	4.3	1.17	83.5	34.2	9.8	3	78.1	7.9	31-1,31-2
Deltapine DP 1137 B2RF	4.5	1.14	83.0	30.3	9.3	1	80.3	8.4	21-1,31-1
Deltapine DP 1133 B2RF	3.9	1.18	82.3	32.7	9.2	3	78.5	8.3	31-1
PhytoGen PHY 499WRF	4.2	1.15	82.4	33.2	9.8	3	78.8	8.2	31-1
All-Tex AT Apex B2RF	4.5	1.14	82.4	30.0	9.0	3	80.3	7.9	21-2
PhytoGen PHY 375WRF	4.4	1.13	81.8	31.1	8.1	3	79.4	8.0	21-2,31-1
Americot AM 1532 B2RF	3.9	1.14	81.0	30.0	8.8	2	80.2	8.6	21-1
Bayer CropScience BCSSX 1030B2F	4.3	1.11	81.8	29.8	9.1	2	81.5	8.2	31-1
Deltapine DP 104 B2RF	3.9	1.14	82.9	32.9	8.9	4	78.1	7.8	31-1,31-2
Croplan Genetics CG 3020 B2RF	4.4	1.12	82.5	29.8	9.0	3	79.4	7.9	31-1
Deltapine DP 1028 B2RF	4.1	1.14	82.3	31.4	10.0	2	79.3	8.1	21-1,31-1
FiberMax FM 1740B2RF	4.3	1.13	81.6	32.5	8.1	2	80.6	7.9	21-1,31-1
Deltapine DP 0912 B2F	4.8	1.11	81.9	31.5	9.2	2	79.2	7.9	21-2,31-2
FiberMax FM 9170B2F	4.2	1.17	82.0	32.4	7.1	2	81.7	7.3	21-1,31-1
Monsanto 09R348B2R2	3.9	1.11	81.6	30.0	8.0	3	79.4	7.3	31-1,31-2

Table 8A. Results of the drip irrigated uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 555BG/RR	3.5	1.10	78.8	30.5	7.9	3	81.2	7.5	21-2,31-1
FiberMax FM 9058F	4.0	1.19	81.7	32.1	7.5	2	80.8	7.2	31-1
NexGen NG3410 RF	3.5	1.16	81.8	32.9	9.0	2	80.1	8.2	21-2,31-1
NexGen NG4111 RF	4.4	1.14	83.0	33.9	9.5	3	78.3	8.3	31-1
Bayer CropScience BCSX 1010B2F	4.1	1.14	81.0	30.6	7.9	2	80.8	8.3	21-1,21-2
NexGen NG4010 B2RF	4.5	1.16	82.6	33.3	8.1	3	78.3	8.2	31-1
Monsanto 09R637R2	4.5	1.13	83.1	29.8	10.2	2	80.8	8.2	11-1,31-1
All-Tex AT 81220 B2RF	4.5	1.14	81.9	30.7	8.7	2	79.7	7.7	21-2,31-2
Croplan Genetics CG 4020B2RF	4.2	1.15	82.2	30.7	8.8	3	80.3	8.1	21-2,31-1
Deltapine DP 1032 B2RF	4.1	1.17	81.3	31.6	8.5	3	78.2	7.6	31-1,31-2
FiberMax FM 9180B2F	3.6	1.18	82.1	33.5	7.5	2	81.9	7.6	21-1,21-2
NexGen NG4012 B2RF	3.8	1.15	81.4	31.9	7.6	2	79.3	8.5	21-1,31-1
NexGen NG3348 B2RF	4.0	1.14	82.8	31.4	8.3	3	78.6	7.7	31-1,31-2
FiberMax FM 1845LLB2	4.4	1.20	83.2	34.1	7.8	3	80.8	7.8	21-2,31-1
Croplan Genetics CG 3520B2RF	4.4	1.13	81.9	31.0	9.4	3	79.3	8.0	31-1
Croplan Genetics CGX 1001B2RF	4.5	1.17	82.5	31.9	9.1	4	79.7	7.3	31-1,31-2
NexGen NG2549 B2RF	4.4	1.07	82.0	31.9	9.6	5	76.8	7.6	31-2,41-1
Seed Source Genetics SSG HQ 210 CT	4.8	1.11	81.6	32.7	8.1	2	79.9	6.9	21-2,41-1
FiberMax FM 958	3.9	1.18	81.8	34.4	6.8	2	81.5	8.0	21-1,21-2
All-Tex AT 81158 RF	3.5	1.18	82.9	33.3	8.6	2	80.7	7.9	21-1,31-1
Bayer CropScience BCSX 1040B2F	4.3	1.22	83.8	34.1	7.5	4	78.1	7.9	31-1,31-2
PhytoGen PHY 72	4.2	1.18	82.7	37.6	8.4	2	79.5	8.4	21-2
Seed Source Genetics SSG HQ 212 CT	4.5	1.11	81.6	32.1	9.2	1	80.9	7.8	21-2
FiberMax FM 1773LLB2	4.2	1.18	82.0	33.7	6.7	2	80.6	7.6	21-2,31-1
Stoneville ST 5288B2F	4.3	1.14	81.0	30.7	8.7	3	79.7	7.6	31-1,31-2
Mean	4.2	1.14	82.1	31.9	8.8	2	79.7	8.0	
c.v.%	9.1	1.4	0.8	2.2	4.6	30.3	1.4	4.0	
LSD 0.05	0.8	0.03	1.2	1.4	0.8	1	2.3	0.6	

Table 9. Yield Summary of the drip irrigated cotton variety test at the AG-CARES farm, Lamesa

Name	2006	2007	2008	2009	2010	Average	Comp. Average*
Five Year Average							
Croplan Genetics CG 3220B3RF	1500	1503	1727	1579	1206	1503	
Deltapine DP 121RF	1791	1535	1867	1602	1245	1608	
FiberMax FM 958	1519	1509	1327	1274	854	1297	
Stoneville STV 4554 B2RF	1363	1810	1574	1594	1411	1550	
Four Year Average							
Croplan Genetics CG 3035RF	1408	1757	1509	1167	1460	1474	
Croplan Genetics CG 3520B2RF	1463	1569	1610	920	1391	1405	
Croplan Genetics CG 4020B2RF	1411	1581	1529	959	1370	1384	
FiberMax FM 1740B2F	1612	1670	1426	1058	1442	1456	
FiberMax FM 9180B2F	1418	1492	1382	957	1312	1326	
Seed Source Genetics SSG HQ 210 CT	1295	1381	1288	860	1206	1220	
Three Year Average							
Americot AM 1532 B2RF		1660	1365	1085	1370	1422	
FiberMax FM 9058F		1782	1401	1036	1406	1458	
FiberMax FM 9160B2F		1645	1418	1346	1470	1522	
NexGen NG3348 B2RF		1390	1328	935	1218	1270	
NexGen NG3410 RF		1530	1358	1022	1303	1355	
PhytoGen 375WRF		1729	1586	1094	1470	1522	
Stoneville ST 5458B2RF		1824	1657	1389	1623	1675	

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

Table 10. Production information for dryland performance test at Texas AgriLife Research, Lubbock, TX 2010.

Test: Uniform Variety

Planting Date: May 11

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Prowl @ 1qt/A applied pre-plant
Caparol @ 1.2 qt/A and Dual Magnum @ 1.3pt/A applied May 12

Fertilizer: 120-20-0 lbs/A applied pre-plant

Rainfall: 19.19 inches during season

Insecticide: Temik @ 2.4 lbs/A at planting
Telone II fumigant (for nematodes) applied April 6

Harvest Aids: Gramoxone @ 32 oz/A + ½ % crop oil applied November 3

Harvest Date: November 22

Freeze Date: November 13

Table 11. Results of the dryland uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	Agronomic Properties										% Open Bolls			Storm Resistance	Height		
		% Turnout		% Lint Seed		Boll Size		Seed Index		Lint Index		Seed per Boll						
		Lint	Seed	Picked	Pulled							10/13/10						
Deltapine DP 1137 B2RF	1621	29.3	39.2	39.6	30.0	6.2	9.5	6.7	36.9	55	5	35						
NexGen NG4111 RF	1615	29.3	42.5	38.4	29.5	5.9	10.3	6.9	33.2	93	5	33						
Deltapine DP 1044 B2RF	1560	29.5	46.5	36.9	29.0	5.3	9.8	6.2	31.3	88	5	31						
PhytoGen PHY 375WRF	1516	29.0	42.0	38.7	29.7	5.8	10.2	6.9	32.5	78	4	33						
Croplan Genetics CG 3520B2RF	1506	30.2	45.5	33.5	26.1	5.6	11.0	6.1	30.9	89	5	31						
PhytoGen PHY 569WRF	1486	28.4	41.7	36.0	27.4	6.1	11.2	6.7	32.7	69	5	30						
FiberMax FM 9058F	1485	28.3	41.2	37.2	27.7	6.6	11.6	7.4	33.3	95	6	28						
Stoneville ST 5288B2F	1445	30.3	43.1	35.9	27.8	6.0	10.0	6.1	35.7	81	6	31						
NexGen NG4012 B2RF	1432	27.3	43.0	40.4	31.2	5.9	10.4	7.2	33.2	86	6	33						
PhytoGen PHY 565WRF	1426	26.5	41.9	36.2	27.3	6.5	11.5	6.8	34.2	73	4	32						
FiberMax FM 9160B2F	1411	29.5	43.5	37.8	30.1	6.5	10.5	6.8	36.0	80	6	29						
Monsanto 09R348B2R2	1411	29.1	41.4	39.1	30.7	6.4	10.2	7.1	34.9	80	5	31						
PhytoGen PHY 367WRF	1398	30.1	40.3	37.5	29.1	5.8	9.9	6.4	33.7	90	4	29						
PhytoGen PHY 499WRF	1396	30.4	42.3	38.6	30.1	6.2	10.3	7.0	33.8	54	5	33						
Americot AM 1532 B2RF	1351	27.3	43.8	28.9	22.2	5.8	10.6	5.1	32.7	75	5	31						
Deltapine DP 0912 B2F	1335	29.6	42.3	37.7	29.0	6.3	6.2	6.9	34.5	85	4	30						
FiberMax FM 9180B2F	1327	26.1	41.7	35.1	27.3	6.2	11.8	6.8	31.7	93	6	26						
Croplan Genetics CG 3035RF	1297	26.8	42.8	37.9	29.5	6.9	10.9	7.2	35.9	86	5	32						
Bayer CropScience BCX 1010B2F	1296	27.6	44.1	36.5	28.7	6.5	10.5	6.5	36.4	88	4	31						
FiberMax FM 1740B2RF	1296	27.5	39.0	37.6	28.5	6.7	11.1	7.2	35.1	73	5	27						
Stoneville ST 5458B2RF	1294	27.9	42.1	40.0	32.0	6.2	10.0	7.0	35.6	91	5	31						
FiberMax FM 958	1261	28.4	44.9	37.1	27.8	6.8	12.1	7.6	32.9	85	6	26						
PhytoGen PHY 519WRF	1237	29.9	45.7	37.8	28.4	5.6	10.2	6.6	31.6	60	5	32						
Croplan Genetics CGX 1001B2RF	1236	25.8	45.6	32.1	24.6	5.1	10.4	5.3	31.3	95	5	31						
All-Tex AT 81220 B2RF	1229	25.6	38.5	34.5	26.5	5.8	9.9	5.9	33.9	81	5	30						
Deltapine DP 121 RF	1221	27.9	40.7	38.4	29.4	5.8	9.8	7.1	35.2	79	4	34						
Deltapine DP 104 B2RF	1211	28.0	43.2	33.8	26.3	6.9	11.1	6.1	38.5	85	6	29						
Bayer CropScience BCX 1030B2F	1207	28.0	41.9	37.1	27.9	6.2	10.9	7.0	32.9	71	6	31						
Deltapine DP 1028 B2RF	1200	29.2	38.2	30.0	6.2	9.0	6.1	38.7	62	5	29							
FiberMax FM 9170B2F	1167	28.1	42.2	37.9	29.6	5.7	10.4	6.9	31.5	81	6	28						

Table 11. Results of the dryland uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout				Agronomic Properties				% Open				
		% Lint		% Seed		% Lint		Boll Size		Seed per Boll		Bolls 10/13/10		Storm Resistance
		Picked	Pulled	Index	Index	Index	Index	Index	Index	10.6	10.2	2.2	1.0	26
Seed Source Genetics SSG HQ 210 CT	1126	27.2	43.6	35.8	28.1	6.2	9.9	5.8	37.9	88	5	27		
All-Tex AT Epic B2RF	1099	25.0	40.0	38.8	30.7	7.4	11.2	7.7	38.3	86	5	32		
NexGen NG3410 RF	1094	24.5	40.5	35.9	28.4	7.5	12.3	7.4	36.4	84	6	29		
Seed Source Genetics SSG HQ 212 CT	1094	25.9	44.6	35.3	27.4	5.6	9.9	5.8	34.5	85	4	24		
NexGen NG2549 B2RF	1093	26.5	44.3	34.7	27.5	5.5	10.6	6.1	31.5	89	7	28		
Stoneville ST 4554B2RF	1084	27.8	45.1	36.3	27.9	6.4	11.3	6.9	33.4	78	4	30		
All-Tex AT Apex B2RF	1074	25.4	41.0	36.9	28.0	5.9	10.2	6.4	34.1	81	5	32		
All-Tex AT 65207 B2RF	1068	26.1	41.0	35.1	27.4	6.2	10.7	6.4	34.0	80	5	32		
Stoneville ST 4288B2F	1065	25.7	41.9	36.1	28.2	7.3	11.2	6.9	38.4	74	5	28		
Deltapine DP 174 RF	1056	27.9	41.9	38.3	29.7	7.0	10.9	7.3	37.0	68	6	32		
FiberMax FM 1845LLB2	1027	28.6	43.9	36.7	28.1	6.4	11.7	7.3	32.1	80	6	25		
Croplan Genetics CG 3220B2RF	1020	28.0	42.2	37.8	29.5	6.6	11.2	7.3	34.1	81	5	32		
NexGen NG4010 B2RF	1019	26.0	42.0	35.2	27.4	5.9	10.4	6.1	34.0	78	6	31		
Bayer CropScience BCSSX 1040B2F	1015	22.6	40.7	33.1	25.1	6.1	11.4	6.2	33.0	90	5	29		
All-Tex AT 81158 RF	1013	23.9	43.5	32.1	24.9	6.2	11.1	5.7	35.3	73	5	29		
Croplan Genetics CG 4020B2RF	1002	24.7	39.1	36.7	27.6	5.8	10.1	6.2	34.5	90	6	30		
NexGen NG3348 B2RF	979	25.2	41.2	34.7	26.7	6.6	12.1	6.9	33.2	88	6	28		
Deltapine DP 1133 B2RF	938	29.0	37.3	38.9	29.2	6.5	9.9	6.9	36.7	73	5	32		
FiberMax FM 1773LLB2	875	27.4	43.2	35.9	27.7	7.1	12.7	7.6	33.3	54	6	28		
PhytoGen PHY 72	871	27.3	45.9	34.9	26.7	6.5	11.2	6.5	34.5	83	4	29		
Mean	1226	27.5	42.3	36.5	28.2	6.2	10.6	6.6	34.3	79	5	30		
c.v.%	22.0	8.9	6.6	5.7	6.3	7.5	10.2	7.3	4.9	23.3	12.8	7.6		
LSD 0.05	328	3.4	3.9	5.1	3.6	0.9	2.2	1.0	3.4	26	1	3		

Deltapine 555BG/RR, Croplan Genetics CG 3020B2RF, Deltapine 1032B2RF, Monsanto 09R637R2, and Monsanto 10R052B2R2 were dropped due to stand loss

Table 11A. Results of the dryland uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 1137 B2RF	4.6	1.10	82.0	29.7	9.1	1	78.7	8.8	21-2
NexGen NG4111 RF	4.9	1.13	83.3	34.0	8.7	1	77.6	9.3	21-1,32-1
Deltapine DP 1044 B2RF	4.7	1.15	82.6	31.1	9.5	1	78.5	8.6	21-2,31-1
PhytoGen PHY 375WRF	4.4	1.12	81.3	30.1	8.6	2	77.3	8.7	31-1
CropPlan Genetics CG 35320B2RF	4.6	1.13	82.8	31.4	8.7	2	78.7	8.8	21-1,31-1
PhytoGen PHY 569WRF	4.5	1.15	82.6	31.9	10.2	2	76.6	9.9	21-3,22-2
FiberMax FM 9058F	4.2	1.17	82.1	32.6	7.2	2	78.2	8.6	31-1
Stoneville ST 5288B2F	4.9	1.16	81.9	30.2	8.2	3	77.4	8.4	31-1,31-2
NexGen NG4012 B2RF	4.7	1.14	82.4	32.7	7.5	2	76.9	9.0	31-1,31-3
PhytoGen PHY 565WRF	3.8	1.13	82.3	31.4	8.8	1	77.3	10.0	12-1,21-2
FiberMax FM 9160B2F	4.2	1.18	82.5	31.2	6.8	1	79.4	8.0	21-2,31-1
Monsanto 09R348B2R2	4.4	1.11	82.1	30.3	7.9	2	78.1	8.3	31-1
PhytoGen PHY 367WRF	4.6	1.15	82.2	32.6	9.2	2	77.3	9.0	31-1,31-3
PhytoGen PHY 499WRF	4.7	1.14	82.7	32.2	9.8	2	78.6	8.7	21-1,31-1
Americot AM 1532 B2RF	4.4	1.16	82.0	30.4	8.4	2	77.5	8.7	21-2,31-3
Deltapine DP 0912 B2F	5.0	1.11	82.3	32.0	9.0	2	76.2	8.9	31-3,31-4
FiberMax FM 9180B2F	4.6	1.15	83.1	32.4	8.0	1	78.5	8.3	31-1
CropPlan Genetics CG 3035RF	4.4	1.14	82.9	31.8	9.2	1	77.2	8.6	31-1
Bayer CropScience BCSX 1010B2F	4.8	1.15	82.7	31.3	7.5	1	78.1	9.0	21-2
FiberMax FM 1740B2RF	4.7	1.10	82.2	31.0	8.1	1	78.2	8.7	21-2,31-1
Stoneville ST 5458B2RF	5.0	1.14	81.1	32.9	7.8	2	76.6	8.9	31-1,31-4
FiberMax FM 958	4.6	1.15	82.8	32.7	6.4	2	78.6	8.0	21-2,31-2
PhytoGen PHY 519WRF	4.5	1.16	82.1	31.1	8.8	3	77.3	8.8	31-1
CropPlan Genetics CGX 1001B2RF	4.7	1.16	82.4	31.4	8.1	3	75.3	8.8	31-3,41-1
All-Tex AT 81220 B2RF	4.8	1.16	82.6	31.2	8.6	2	76.1	8.7	31-2,31-3
Deltapine DP 121 RF	4.5	1.12	82.8	31.6	9.3	2	78.4	8.4	31-1
Deltapine DP 104 B2RF	4.3	1.11	82.4	32.4	9.1	3	74.5	9.1	31-3,42-1
Bayer CropScience BCSX 1030B2F	4.9	1.12	81.7	31.2	8.2	2	78.5	8.6	21-2,31-1
Deltapine DP 1028 B2RF	4.4	1.13	82.2	30.0	9.6	2	76.5	8.2	31-2
FiberMax FM 9170B2F	4.0	1.14	82.1	31.8	7.2	1	80.4	8.1	21-2

Table 11A. Results of the dryland uniform cotton variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Seed Source Genetics SSG HQ 210 CT	4.6	1.13	82.2	33.4	8.4	2	76.4	8.8	31-1,32-2
All-Tex AT Epic B2RF	3.9	1.15	82.5	29.8	9.4	1	79.0	9.3	21-1,22-1
NexGen NG3410 RF	3.9	1.16	82.0	32.2	7.5	2	77.8	8.7	31-1
Seed Source Genetics SSG HQ 212 CT	4.7	1.14	82.2	32.6	8.3	1	79.4	8.5	21-2,31-1
NexGen NG2549 B2RF	4.4	1.12	83.1	30.7	8.4	3	75.8	9.0	31-1,32-2
Stoneville ST 4554B2RF	4.9	1.14	82.4	32.2	9.8	2	76.4	9.3	31-3
All-Tex AT Apex B2RF	4.2	1.13	81.4	29.8	8.7	1	77.5	9.2	21-4,31-3
All-Tex AT 65207B2RF	5.1	1.13	83.5	30.4	9.1	2	76.9	9.1	21-2,31-3
Stoneville ST 4288B2F	5.1	1.14	82.8	31.3	8.7	2	77.4	9.1	21-2,31-3
Deltapine DP 174 RF	4.4	1.14	81.6	30.7	8.6	2	78.5	9.0	21-1,31-1
FiberMax FM 1845LLB2	4.7	1.14	82.4	32.9	7.5	2	78.5	8.6	21-2,31-1
Croplan Genetics CG 3220B2RF	4.7	1.16	82.0	31.9	8.4	1	78.6	8.7	21-2,31-1
NexGen NG4010 B2RF	4.6	1.19	82.8	34.0	8.3	1	78.9	8.9	21-1,31-1
Bayer CropScience BCSSX 1040B2F	4.3	1.21	82.3	32.8	6.9	2	75.2	8.8	31-3,41-1
All-Tex AT 81158 RF	4.0	1.14	81.3	30.5	8.3	2	76.5	9.5	22-1,31-2
Croplan Genetics CG 4020B2RF	4.5	1.15	81.6	29.1	8.3	1	76.7	9.0	31-1,31-4
NexGen NG3348 B2RF	4.0	1.13	82.2	30.9	7.9	3	76.3	8.9	21-2,41-3
Deltapine DP 1133 B2RF	4.8	1.15	83.6	32.7	9.5	1	78.4	8.9	21-1,31-3
FiberMax FM 1773LLB2	4.7	1.15	82.7	32.4	6.6	2	80.0	8.2	21-1,31-1
PhytoGen PHY 72	4.7	1.22	83.4	36.7	7.9	1	77.9	8.8	31-1
Deltapine DP 555BG/RR	4.1	1.12	80.3	29.7	7.4	2	79.2	8.4	31-1
Croplan Genetics CG 3020 B2RF	3.9	1.14	81.6	30.9	9.2	1	76.4	8.7	31-1
Deltapine DP 1032B2RF	4.8	1.17	83.3	31.3	8.1	2	76.0	8.6	31-2
Monsanto 09R637R2	4.6	1.16	82.5	30.6	8.9	1	78.9	8.8	21-2
Monsanto 10R052B2R2	4.3	1.18	83.7	31.8	9.6	1	77.0	9.0	31-3
Mean	4.5	1.14	82.3	31.6	8.4	2	77.6	8.8	
c.v.%	6.2	1.7	0.9	3.1	5.0	43.5	1.8	5.1	
LSD 0.05	0.6	0.04	1.5	2.0	0.8	1	2.9	0.9	

Table 12. Yield Summary of the dryland cotton variety test at Texas AgriLife Research, Lubbock

Name	2005	2006	2008	2009	2010	Average	Comp. Average*
Five Year Average							
FiberMax FM 958	984	379	1112	698	1261	887	
Four Year Average							
Croplan Genetics CG 3035RF	626	1029	636	1297	897	919	
Croplan Genetics CG 3220B2RF	593	760	671	1020	761	783	
Croplan Genetics CG 3520B2RF	517	761	571	1506	839	861	
PhytoGen PHY 72	304	660	456	871	573	595	
Three Year Average							
Americot AM 1532 B2RF	989	666	1351	1002	886		
Deltapine DP 121RF	938	619	1221	926	810		
FiberMax FM 1740 B2F	1002	681	1296	993	877		
FiberMax FM 9058 F	968	668	1485	1040	924		
FiberMax FM 9160 B2F	815	575	1411	934	818		
FiberMax FM 9180 B2F	814	565	1327	902	786		
NexGen NG3348 B2RF	843	609	979	810	694		
NexGen NG3410 RF	772	598	1094	821	705		
Seed Source Genetics SSG HQ 210 CT	1004	663	1126	931	815		
Stoneville ST 4554 B2RF	1159	584	1084	942	826		
Deltapine DP 121RF	1037	775	1294	1035	919		

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

Table 13. Production information for dryland performance test at the AG-CARES farm, Lamesa, TX 2010.

Test: Uniform Variety

Planting Date: May 19

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Trifluralin @ 1.3pt/A applied pre-plant
Caparol @ 1.5 pt/A applied pre-plant

Fertilizer: 20-10-0-5 @ 200 lbs/A applied pre-plant

Rainfall: 17.2 inches during season

Insecticide: Temik @ 2.4 lbs/A at planting

Harvest Date: November 1

Freeze Date: November 13

Table 14. Results of the dryland regional uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Yield	% Turnout			Agronomic Properties			% Open			
		% Lint		Seed	% Lint		Seed	Index	Lint	Seed per	Bolls
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/04/10	Storm
Monsanto 10R052B2R2	1128	31.3	41.2	40.8	34.3	5.4	9.2	6.6	33.5	53	5
All-Tex AT Epic B2RF	964	29.7	42.7	36.6	28.2	6.0	10.3	6.6	33.2	80	4
PhytoGen PHY 375WRF	961	29.0	45.1	38.7	29.8	5.4	9.6	6.9	30.7	80	3
PhytoGen PHY 499WRF	934	29.2	42.9	39.0	30.2	5.5	10.2	6.8	31.4	76	5
Stoneville ST 4554B2RF	925	29.9	45.1	37.1	28.5	5.7	10.6	6.8	31.3	64	4
Croplan Genetics CG 3035RF	924	29.6	42.7	39.5	30.8	5.6	9.8	6.7	33.2	73	4
Deltapine DP 121 RF	903	29.1	40.4	40.5	30.5	5.0	9.3	6.5	30.8	75	3
Stoneville ST 5458B2RF	869	28.4	46.3	34.9	28.1	5.7	9.8	6.2	32.0	78	4
PhytoGen PHY 569WRF	864	26.4	44.2	37.2	28.5	4.6	9.1	5.6	30.6	84	3
Deltapine DP 1044 B2RF	845	28.4	44.8	36.8	29.5	5.0	9.6	5.9	31.0	73	5
Deltapine DP 174 RF	838	30.8	42.0	40.4	30.7	5.3	9.8	7.0	30.6	73	4
Monsanto 09R637R2	830	29.9	44.6	39.5	29.7	5.0	9.4	6.4	31.3	78	4
All-Tex AT 65207 B2RF	826	31.0	46.1	38.4	29.6	5.2	9.7	6.2	32.0	78	5
Deltapine DP 555BG/RR	816	31.2	43.6	36.6	29.2	4.9	7.5	5.3	33.5	76	6
Deltapine DP 1133 B2RF	808	31.5	43.0	40.7	27.5	4.9	9.3	6.7	29.7	74	4
Stoneville ST 5288B2F	807	27.8	41.0	38.6	29.8	4.9	8.5	5.8	32.6	80	6
All-Tex AT 81220 B2RF	807	27.2	45.4	35.3	27.4	5.3	9.8	5.7	33.1	73	5
PhytoGen PHY 519WRF	794	26.4	43.7	39.4	29.7	4.5	9.0	6.0	29.3	76	4
FiberMax FM 9170B2F	793	29.2	46.1	37.9	29.4	4.8	10.2	6.4	28.2	79	5
PhytoGen PHY 367WRF	791	27.7	46.5	37.3	28.1	4.8	9.5	6.1	29.8	73	4
Bayer CropScience BCSSX 1010B2F	770	27.8	45.7	36.3	27.9	5.4	10.6	6.4	30.5	78	4
FiberMax FM 1740B2RF	787	30.3	45.0	38.2	29.4	5.3	10.3	6.7	30.1	75	5
Deltapine DP 104 B2RF	776	24.9	49.9	33.6	26.4	6.2	11.2	5.9	35.4	79	5
Stoneville ST 4288B2F	775	26.7	46.6	35.1	26.8	5.3	10.9	6.2	30.0	55	5
PhytoGen PHY 565WRF	772	27.2	44.4	36.1	28.1	4.1	9.0	5.4	27.1	75	4
Deltapine DP 1137 B2RF	768	31.3	42.7	40.6	30.8	5.5	9.6	6.7	33.3	70	5
Croplan Genetics CG 3520B2RF	767	25.2	45.6	36.1	27.3	5.1	10.2	6.1	30.5	76	5
Deltapine DP 1028 B2RF	761	31.8	44.3	39.3	28.8	5.3	9.2	6.3	32.8	70	4
Croplan Genetics CG 3220B2RF	747	28.1	47.1	37.2	28.8	5.5	10.8	6.6	30.8	76	5
Seed Source Genetics SSG HQ 210 CT	704	30.1	49.3	37.0	29.0	4.9	8.8	5.3	33.8	64	5

Table 14. Results of the dryland regional uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Yield	% Turnout			% Lint			Agronomic Properties			% Open Bolls		
		Lint		Seed	Picked		Pulled	Boll Size	Seed Index	Lint Index	Seed per Boll	10/04/10	Storm Resistance
		%	Turnout										Height
NexGen NG4010 B2RF	699	25.8	44.4	35.3	26.8	5.0	10.1	5.8	30.5	78	4	26	
Deltapine DP 1032B2RF	698	28.9	43.3	39.4	29.9	4.7	8.7	6.0	30.8	76	4	28	
Seed Source Genetics SSG HQ 212 CT	682	30.8	49.1	37.0	28.9	5.4	9.6	5.8	34.1	64	5	22	
NexGen NG4012 B2RF	676	28.7	43.3	36.9	28.5	5.3	9.9	6.0	32.2	68	5	26	
NexGen NG4111 RF	668	27.7	42.4	38.4	29.4	5.3	10.1	6.5	31.4	74	5	26	
FiberMax FM 9058F	667	27.6	46.1	34.5	24.8	5.7	10.8	6.7	29.6	70	6	26	
FiberMax FM 958	652	27.3	44.1	36.8	19.3	5.4	10.8	6.5	30.8	76	6	25	
All-Tex AT 81158 RF	648	24.6	44.1	34.4	25.9	5.2	10.1	5.6	32.0	76	5	27	
Deltapine DP 0912 B2F	636	27.6	44.5	35.1	29.3	5.5	9.8	6.3	30.4	73	4	28	
All-Tex AT Apex B2RF	636	24.7	42.1	35.2	26.5	5.0	9.8	5.6	31.8	80	5	28	
FiberMax FM 1773LLB2	624	25.8	44.7	34.9	26.7	5.5	11.3	6.2	30.5	65	5	25	
Monsanto 09R348B2R2	618	26.3	42.3	36.5	27.9	5.5	10.1	6.2	32.5	65	5	26	
Croplan Genetics CG 4020B2RF	599	23.9	45.5	35.2	25.7	4.9	10.3	5.8	29.6	78	5	28	
FiberMax FM 1845LLB2	594	25.0	42.5	34.5	27.1	5.7	12.0	6.6	30.1	78	6	23	
Americot AM 1532 B2RF	587	26.2	44.8	34.9	26.3	5.4	10.7	6.1	30.9	76	5	30	
Bayer CropScience BCSSX 1030B2F	584	29.5	47.3	39.5	29.9	4.9	9.3	6.4	30.3	76	5	26	
PhytoGen PHY 72	561	26.6	45.7	33.2	26.3	6.2	11.0	6.3	32.5	68	4	25	
FiberMax FM 9180B2F	552	25.4	45.1	32.7	25.0	6.0	11.5	6.5	30.5	75	6	25	
Croplan Genetics CG 3020B2RF	541	24.0	44.5	35.6	27.1	5.5	10.3	5.8	33.9	79	4	27	
FiberMax FM 9160B2F	527	28.2	43.5	37.8	29.9	5.2	9.7	6.1	31.9	81	6	23	
NexGen NG3348 B2RF	498	25.4	45.1	32.8	26.3	5.7	10.0	5.8	32.6	73	6	23	
Bayer CropScience BCSSX 1040B2F	496	21.7	41.9	32.2	24.3	5.5	11.5	5.7	30.7	74	5	26	
NexGen NG3410 RF	486	28.2	46.9	36.1	17.8	5.5	10.9	6.4	31.0	74	5	25	
Croplan Genetics CGX 1001B2RF	472	24.9	47.6	33.3	25.3	4.7	10.1	5.3	29.4	71	5	24	
NexGen NG2549 B2RF	458	26.4	46.6	35.4	31.2	4.4	9.3	5.3	29.7	64	6	24	
Mean	725	27.8	44.6	36.8	28.3	5.3	9.9	6.2	31.3	73	5	26	
c.v.%	26.1	6.0	6.0	3.4	5.8	6.8	5.4	6.1	11.9	14.2	7.3	2	
LSD 0.05	223	2.0	3.1	2.1	2.7	0.6	0.9	0.6	3.2	10	1	2	

Table 14A. Results of the dryland regional uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Monsanto 10R052B2R2	4.8	1.13	82.8	31.3	10.3	1	80.0	8.3	21-1,21-2
All-Tex AT Epic B2RF	4.6	1.09	81.2	31.2	10.0	1	79.9	8.4	21-1,31-1
PhytoGen PHY 375WRF	4.1	1.12	81.3	30.9	9.2	1	81.3	8.1	31-1,21-2
PhytoGen PHY 499WRF	4.9	1.11	83.0	34.1	9.8	4	77.9	7.8	31-1,31-2
Stoneville ST 4554B2RF	4.6	1.11	81.9	33.5	10.4	3	77.3	8.4	31-1,31-2
Croplan Genetics CG 3035RF	4.2	1.10	81.8	31.1	10.5	1	80.6	8.6	21-1
Deltapine DP 121 RF	4.9	1.11	81.9	31.5	9.4	2	79.2	8.2	21-2,31-1
Stoneville ST 5458B2RF	4.6	1.10	81.2	33.5	8.4	4	77.1	8.3	31-1,31-2
PhytoGen PHY 569WRF	4.7	1.12	83.1	33.3	10.1	2	78.1	7.9	31-1,31-2
Deltapine DP 1044 B2RF	5.0	1.11	82.0	31.4	9.3	2	79.2	7.8	31-1,31-2
Deltapine DP 174 RF	4.4	1.12	81.7	30.2	9.7	2	80.1	8.3	21-2
Monsanto 09R637R2	4.6	1.10	82.1	29.7	10.1	2	80.7	8.0	21-1,31-1
All-Tex AT 65207 B2RF	4.3	1.10	81.6	30.8	9.5	2	79.6	8.6	21-1,21-2
Deltapine DP 555BG/RR	4.2	1.10	80.2	30.9	7.4	2	82.1	7.0	21-2,31-1
Deltapine DP 1133 B2RF	4.9	1.13	83.2	33.6	9.3	1	79.8	8.1	21-1,31-1
Stoneville ST 5288B2F	4.9	1.10	81.5	30.3	8.7	4	79.1	7.5	31-1,31-2
All-Tex AT 81220 B2RF	4.6	1.11	81.7	31.4	8.3	2	79.5	7.9	21-1,31-2
PhytoGen PHY 519WRF	4.5	1.12	82.3	33.0	9.6	2	80.4	7.9	21-1,31-1
FiberMax FM 9170B2F	4.4	1.15	82.6	33.5	7.6	3	81.1	7.4	21-1,31-1
PhytoGen PHY 367WRF	4.0	1.11	80.9	32.0	9.5	3	78.5	8.3	21-2,31-2
FiberMax FM 1740B2RF	4.8	1.10	82.3	32.1	8.5	2	80.2	7.5	31-1
Deltapine DP 104 B2RF	4.0	1.13	83.1	33.4	9.6	3	79.8	8.1	21-1,31-1
Stoneville ST 42888B2F	4.9	1.13	81.6	32.7	8.9	3	79.1	8.3	21-2,31-1
PhytoGen PHY 565WRF	4.2	1.13	81.9	33.9	9.4	3	79.6	7.6	31-1
Bayer CropScience BCSSX 1010B2F	4.6	1.13	82.0	30.1	7.9	2	79.9	7.7	21-1,31-2
Deltapine DP 1137 B2RF	4.7	1.11	81.9	30.1	9.3	1	79.4	8.1	21-2,31-1
Croplan Genetics CG 33520B2RF	5.0	1.15	83.2	32.8	9.4	3	78.8	7.8	21-2,31-2
Deltapine DP 1028 B2RF	4.2	1.13	83.0	31.2	10.0	1	81.8	8.5	11-1,21-1
Croplan Genetics CG 33220B2RF	4.6	1.13	82.4	32.7	9.6	2	80.3	8.4	21-1
Seed Source Genetics SSG HQ 210 CT	4.4	1.10	81.3	33.7	8.7	1	81.2	7.7	21-1,31-1

Table 14A. Results of the dryland regional uniform variety test at the AG-CARES farm, Lamesa 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
NexGen NG4010 B2RF	4.0	1.12	81.6	33.4	8.4	3	78.9	8.0	21-2,31-2
Deltapine DP 1032B2RF	4.5	1.12	82.0	31.3	8.3	2	80.4	7.7	21-2,31-1
Seed Source Genetics SSG HQ 212 CT	5.1	1.12	81.9	34.1	8.9	2	80.9	7.8	21-2,31-1
NexGen NG4012 B2RF	4.4	1.10	80.4	32.4	7.6	2	78.8	8.0	31-1
NexGen NG4111 RF	4.5	1.13	83.0	35.0	9.3	2	79.9	8.6	21-1,21-2
FiberMax FM 9058F	4.1	1.15	80.8	31.2	7.3	3	81.6	7.7	11-1,31-2
FiberMax FM 958	4.7	1.14	82.2	33.5	6.5	2	79.6	7.5	31-1,31-2
All-Tex AT 81158 RF	4.6	1.10	83.2	32.7	9.2	3	79.3	7.7	31-1,31-2
Deltapine DP 0912 B2F	4.6	1.10	81.8	31.4	9.3	2	80.6	8.2	21-1,21-2
All-Tex AT Apex B2RF	4.3	1.13	81.8	30.5	9.0	3	79.0	7.9	21-2,31-2
FiberMax FM 1773LLB2	4.5	1.14	82.1	35.0	7.4	2	81.6	7.6	21-1,31-1
Monsanto 09R348B2R2	4.3	1.08	80.7	29.8	7.9	3	79.9	7.5	31-1
Croplan Genetics CG 4020B2RF	3.7	1.12	80.7	30.1	8.9	2	81.0	7.9	21-1,31-1
FiberMax FM 1845LLB2	4.8	1.16	82.8	34.3	7.3	4	79.3	7.5	31-1,31-2
Americot AM 1532 B2RF	4.0	1.14	81.8	31.3	9.2	3	80.7	7.9	21-1,31-1
Bayer CropScience BCSX 1030B2F	4.2	1.14	81.6	31.2	9.2	3	78.5	8.3	11-1,41-1
PhytoGen PHY 72	4.6	1.16	82.1	35.7	8.3	2	78.9	8.5	21-2,31-1
FiberMax FM 9180B2F	4.3	1.15	82.6	33.1	7.9	3	81.1	7.6	21-1,31-2
Croplan Genetics CG 3020B2RF	4.4	1.09	81.8	29.8	9.1	2	80.3	7.7	31-1
FiberMax FM 9160B2F	4.7	1.13	82.7	31.4	7.3	2	79.0	7.5	31-1,41-1
NexGen NG3348 B2RF	3.7	1.10	80.8	31.2	7.9	3	78.1	7.7	31-1,41-1
Bayer CropScience BCSX 1040B2F	4.6	1.20	83.2	33.8	7.5	3	79.1	8.0	21-2,31-1
NexGen NG3410 RF	3.8	1.14	81.7	32.8	8.2	4	77.9	7.8	31-1,31-2
Croplan Genetics CGX 1001B2RF	4.7	1.12	82.4	31.7	8.5	3	77.1	7.9	31-1,31-2
NexGen NG2549 B2RF	4.2	1.06	81.2	31.3	9.8	3	77.5	8.1	31-1,31-2
Mean	4.4	1.12	81.9	32.1	8.8	2	79.6	7.9	
c.v.%	9.2	1.7	0.9	2.5	5.7	45.7	1.9	4.4	
LSD 0.05	0.8	0.04	1.4	1.6	1.0	2	3.0	0.7	

Table 15. Yield summary of the dryland cotton variety test at the AG-CARES farm ,Lamesa

Name	2006	2007	2008	2009	2010	Average	Comp. Average*
Five Year Average							
Croplan Genetics CG 3020B2F	195	1043	437	627	541	569	
Deltapine DP 555 BG/RR	201	1122	406	651	816	639	
FiberMax FM 958	165	1103	433	559	652	582	
FiberMax FM 9058F	191	1102	414	544	667	584	
PhytoGen PHY 72	118	1103	386	382	516	501	
Four Year Average							
Croplan Genetics CG 3035RF	1363	500	676	924	846	746	
Croplan Genetics CG 3220B2RF	1169	486	584	747	746	646	
Croplan Genetics CG 3520B2RF	1029	455	660	767	715	615	
Croplan Genetics CG 4020B2RF	1037	435	559	599	677	577	
Deltapine DP 121 RF	1162	513	607	903	761	661	
FiberMax FM 1740B2F	1173	537	664	787	791	691	
FiberMax FM 9180B2F	1030	428	452	552	637	537	
Three Year Average							
Americot AM 1532 B2RF		558	625	587	590	630	
FiberMax FM 9160B2F		404	635	527	522	562	
NexGen NG3348 B2RF		362	616	498	492	532	
NexGen NG3410 RF		422	493	486	467	507	
PhytoGen PHY 375WRF		527	678	961	722	762	
Seed Source Genetics SSG HQ 210 CT		405	605	704	571	611	
Stoneville ST 4554 B2RF		479	591	925	665	705	
Stoneville ST 5458 B2RF		536	652	869	686	726	

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

Table 16. Yield summary for uniform cotton variety tests over five locations in 2010

Name	Overall Yield	Rank Lub Irr	Rank Lub Dry	Rank Lam Irr	Rank Lam Dry	Rank Halfway
Deltapine DP 1044 B2RF	1464	13	3	6	10	12
Stoneville ST 5458B2RF	1457	1	21	3	8	21
Croplan Genetics CG 3035RF	1443	2	18	12	6	3
PhytoGen PHY 375WRF	1438	17	4	21	3	11
PhytoGen PHY 367WRF	1432	16	13	5	20	10
PhytoGen PHY 499WRF	1421	20	14	19	4	2
Monsanto 10R052B2R2	1415	3	55	15	1	48
NexGen NG4111 RF	1414	8	2	34	35	4
PhytoGen PHY 569WRF	1380	46	6	7	9	20
Stoneville ST 4554B2RF	1377	27	36	2	5	15
All-Tex AT Epic B2RF	1373	7	32	8	2	25
Deltapine DP 121 RF	1368	19	26	9	7	19
Deltapine DP 555BG/RR	1358	5	51	31	14	26
Detapine DP 1137 B2RF	1356	26	1	17	26	39
Deltapine DP 0912 B2F	1345	11	16	28	39	7
FiberMax FM 9058F	1343	50	7	32	36	1
FiberMax FM 9160B2F	1331	25	11	4	50	32
Deltapine DP 174 RF	1330	36	40	1	11	33
FiberMax FM 1740B2RF	1330	18	20	27	21	17
PhytoGen PHY565WRF	1325	14	10	16	24	50
PhytoGen PHY 519WRF	1317	39	23	14	18	13
Stoneville ST 5288B2F	1308	9	8	55	16	18
FiberMax FM 958	1304	4	22	49	37	9
Stoneville ST 4288B2F	1303	12	39	10	23	37
Croplan Genetics CG 3220B2RF	1300	6	42	11	29	31
FiberMax FM 9170B2F	1299	42	30	29	19	6
Monsanto 09R348B2R2	1288	15	12	30	42	41
All-Tex AT 65207 B2RF	1278	30	38	13	13	30
All-Tex AT 81220 B2RF	1262	41	25	38	17	23
Seed Source Genetics SSG HQ 210 CT	1261	10	31	48	30	14
Croplan Genetics CG 3520B2RF	1259	53	5	45	27	28
Bayer CropScience BCSX 1030B2F	1256	35	28	23	46	16
Detapine DP 1133B2RF	1252	22	48	18	15	27
NexGen NG4012 B2RF	1251	28	9	42	34	47
Bayer CropScience BCSX 1010B2F	1248	32	19	35	25	49
Deltapine DP 104 B2RF	1246	52	27	24	22	22
Monsanto 09R637R2	1227	45	54	37	12	44
Americot AM 1532 B2RF	1226	44	15	22	45	43
Deltapine DP 1028 B2RF	1223	23	29	26	28	54
FiberMax FM 9180B2F	1221	40	17	41	48	29
All-Tex AT Apex B2RF	1211	38	37	20	40	34
Croplan Genetics CGX 1001B2RF	1211	48	24	46	54	8
Deltapine DP 1032B2RF	1209	31	53	40	32	45
NexGen NG4010 B2RF	1207	24	43	36	31	36
NexGen NG2549 B2RF	1202	29	35	47	55	5
Seed Source Genetics SSG HQ 212 CT	1151	33	34	53	33	40
Croplan Genetics CG 4020B2RF	1134	49	46	39	43	42
Croplan Genetics CG 3020 B2RF	1132	54	52	25	49	51
NexGen NG3410 RF	1128	55	33	33	53	38
FiberMax FM 1773LLB2	1118	21	49	54	41	35
FiberMax FM 1845LLB2	1108	47	41	44	44	53
PhytoGen PHY 72	1105	37	50	52	47	24
NexGen NG3348 B2RF	1094	43	47	43	51	52
All-Tex AT 81158 RF	1089	34	45	50	38	55
Bayer CropScience BCSX 1040B2F	1065	51	44	51	52	46

NOTES

Table 17. Production information for furrow irrigated performance test at the Dale Swinburn farm, Tulia, TX 2010.

Test:	Cotton Variety
Planting Date:	May 5
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Pre-plant incorporated
Fertilizer:	Feedlot manure @ 10 tons/A
Irrigations:	Furrow irrigated 1-2 times during season
Insecticide:	Temik @ 3.5 lbs/A at planting
Harvest Aids:	yes
Harvest Date:	November 4
Freeze Date:	November 13

Table 18. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia 2010

Designation	Yield	Agronomic Properties										% Open Bolls			
		% Turnout		% Lint		Boll Size		Seed Index		Lint Index		Seed per Boll	09/28/10	Storm Resistance	Height
		Lint	Seed	Picked	Pulled	Boll	Size	Index	Index	Index	Index				
FiberMax FM 9170B2F	1690	29.5	46.8	37.7	31.3	5.0	10.2	6.4	29.6	39	4	34			
NexGen NG4111 RF	1549	28.0	43.1	39.2	32.1	5.1	10.4	6.9	29.0	30	4	36			
Croplan Genetics CG 3035RF	1540	29.9	43.8	39.8	32.8	5.4	9.9	6.7	32.0	53	5	36			
All-Tex AT 81227B2RF	1528	27.3	47.0	35.9	29.2	4.8	9.2	5.4	32.3	54	5	34			
FiberMax FM 9180B2F	1528	26.1	45.0	36.2	28.9	5.1	11.0	6.4	28.9	30	5	33			
FiberMax FM 1740B2RF	1502	28.8	45.2	38.9	32.0	5.2	10.1	6.7	30.5	54	4	33			
Monsanto 09R348B2R2	1497	27.3	43.7	37.1	30.4	5.1	10.3	6.4	29.4	33	4	35			
FiberMax FM 9160B2F	1494	27.6	44.6	36.6	30.5	5.2	10.0	6.0	31.5	38	5	35			
Seed Source Genetics SSG HQ 210 CT	1489	28.3	47.1	34.9	28.8	5.1	9.4	5.2	33.7	29	5	34			
Seed Source Genetics SSG HQ 212 CT	1482	27.3	47.3	35.3	29.3	5.3	9.4	5.3	35.6	38	4	34			
PhytoGen PHY 375WRF	1467	28.2	42.0	38.7	31.8	4.9	9.8	6.4	29.7	48	3	35			
FiberMax FM 1845LLB2	1464	25.5	45.4	33.7	27.4	5.3	11.2	5.9	30.2	23	4	34			
Stoneville ST 5288B2F	1464	27.5	46.0	36.3	29.6	4.7	9.4	5.5	30.6	33	4	34			
PhytoGen PHY367WRF	1463	25.1	41.4	39.1	32.2	4.7	9.6	6.3	28.5	36	4	35			
Deltapine DP 104 B2RF	1462	25.2	49.1	33.2	27.5	5.0	11.0	5.6	29.0	56	5	33			
NexGen NG3410RF	1460	27.4	49.9	37.8	30.7	5.2	10.7	6.7	29.0	30	5	34			
Monsanto 09R637R2	1446	27.8	43.0	38.7	31.1	4.6	9.5	6.2	28.3	43	4	34			
Deltapine DP 1028 B2RF	1403	29.6	41.7	42.7	33.8	4.7	8.9	6.7	30.3	33	5	37			
Deltapine DP 1032B2RF	1401	28.6	41.1	39.4	31.9	4.8	9.3	6.1	30.9	45	4	34			
Monsanto 09R532B2R2	1374	25.7	45.9	34.1	28.0	4.6	10.8	5.9	26.5	50	4	34			
Bayer CropScience BCSSX 1030B2F	1358	27.4	43.6	38.4	31.0	4.8	9.4	6.0	30.9	65	5	33			
Deltapine DP 0912 B2RF	1349	27.5	44.3	37.2	30.5	5.1	10.0	6.2	30.4	36	4	33			
LBB 08-10-706-V	1340	25.0	46.2	35.9	28.7	5.2	10.3	5.9	31.7	40	5	34			
FiberMax FM 1773LLB2	1332	25.2	46.8	33.5	27.0	5.7	11.4	6.0	32.0	33	5	36			
NexGen NG2549 RF	1324	24.9	46.0	33.8	27.2	4.6	10.2	5.4	28.8	43	6	34			
Deltapine DP 1034B2RF	1323	28.6	41.2	38.5	30.7	4.5	8.8	5.7	30.0	33	5	35			
Bayer CropScience BCSSX 1010B2F	1322	27.5	46.5	34.6	28.4	5.2	11.0	6.0	30.0	50	3	36			
Croplan Genetics CG 4020B2RF	1322	25.8	46.4	35.7	28.6	5.0	10.1	5.9	30.3	51	4	35			
Stoneville ST 4288B2F	1307	25.4	44.7	37.4	30.7	5.1	10.6	6.5	29.4	38	4	33			
Croplan Genetics CGX 1001B2RF	1305	24.1	43.9	34.5	28.1	4.3	10.1	5.5	27.1	58	4	34			

Table 18. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia 2010

Designation	Yield	% Turnout		% Lint		Agronomic Properties			% Open Bolls			Storm Resistance	Height
		Lint	Seed	Picked	Pulled	Boll	Seed	Lint	Seed per Boll	09/28/10			
						Index	Index	Index	Index	Index			
Bayer CropScience BCSSX 1040B2F	1303	23.4	47.2	33.3	27.1	4.9	11.5	5.9	27.4	4.5	5	34	
LBB 08-10-602-V	1262	24.8	50.2	33.2	27.9	5.0	10.9	5.7	29.2	2.8	6	36	
Croplan Genetics CG 3520B2RF	1245	24.6	43.4	36.9	29.1	4.5	10.5	6.3	26.6	4.9	4	33	
Croplan Genetics CG 3220B2RF	1243	25.4	42.4	37.3	30.4	5.0	10.7	6.6	28.6	4.0	4	35	
NexGen NG1551 RF	1158	22.1	46.5	35.6	28.7	5.1	11.4	6.6	27.4	4.1	3	34	
Mean	1405	26.6	45.1	36.6	29.8	4.9	10.2	6.1	29.8	4.1	4	34	
c.v.%	8.3	6.6	5.8	2.9	3.0	4.2	2.7	4.0	4.3	29.7	14.0	3.3	
LSD 0.05	163	2.5	3.6	2.2	1.8	0.4	0.6	0.5	2.6	17	1	2	

Table 18A. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9170B2F	3.7	1.20	81.7	31.3	7.4	2	78.9	8.3	31-1
NexGen NG4111 RF	4.1	1.14	82.1	32.6	8.9	3	77.1	9.4	21-3,32-1
Croplan Genetics CG 3035RF	4.1	1.12	81.9	30.2	9.5	2	78.8	9.5	11-4,21-1
All-Tex AT 81227B2RF	4.3	1.18	80.6	32.6	7.7	3	78.3	8.7	21-1,31-1
FiberMax FM 9180B2F	4.2	1.17	81.5	32.4	7.7	2	79.9	8.6	21-1,31-1
FiberMax FM 1740B2RF	4.3	1.16	81.8	31.5	8.0	2	79.4	8.7	21-1,21-2
Monsanto 09R348B2R2	3.6	1.15	81.0	29.9	7.9	3	78.4	8.2	31-1
FiberMax FM 9160B2F	3.6	1.18	81.9	32.1	7.1	2	79.8	8.8	21-1
Seed Source Genetics SSG HQ 210 CT	3.7	1.11	79.9	31.5	8.4	1	79.4	8.8	21-1,21-2
Seed Source Genetics SSG HQ 212 CT	3.7	1.12	79.7	31.5	8.8	1	79.0	9.2	21-1
PhytoGen PHY 375WRF	4.0	1.12	81.2	29.0	8.5	3	76.9	9.5	21-3,32-1
FiberMax FM 1845LLB2	4.2	1.20	82.3	33.4	7.3	2	76.7	8.7	31-1,31-2
Stoneville ST 5288B2F	4.0	1.15	80.7	30.7	8.5	2	79.5	9.2	21-1
PhytoGen PHY367WRF	3.7	1.03	85.4	28.6	9.4	3	76.5	9.6	21-4,22-2
Deltapine DP 104 B2RF	4.0	1.13	82.0	32.3	9.4	3	78.3	8.9	21-1,31-3
NexGen NG3410RF	3.5	1.17	81.4	32.3	8.0	4	78.3	8.9	21-1,31-1
Monsanto 09R637R2	4.4	1.10	80.3	28.1	10.1	1	79.1	10.0	11-4
Deltapine DP 1028 B2RF	4.3	1.14	81.8	29.3	9.6	2	77.0	9.9	21-3,22-2
Deltapine DP 1032B2RF	4.1	1.15	80.5	30.5	8.1	2	78.0	9.6	21-3
Monsanto 09R532B2R2	4.3	1.16	81.9	32.2	8.5	4	76.3	8.4	31-3,41-1
Bayer CropScience BCSX 1030B2F	3.8	1.13	80.7	29.2	8.8	3	78.7	9.3	21-1,21-3
Deltapine DP 0912 B2RF	4.4	1.14	81.7	31.3	8.7	3	77.9	9.4	21-3,21-4
LBB 08-10-706-V	3.5	1.17	81.9	33.5	8.2	3	79.0	9.1	21-1,21-4
FiberMax FM 1773LLB2	3.9	1.20	81.3	33.2	7.1	1	79.6	8.9	21-1,21-2
NexGen NG2549 RF	3.6	1.08	82.1	31.6	9.2	3	77.9	8.9	21-2,31-3
Deltapine DP 1034B2RF	3.8	1.15	81.2	29.7	9.7	3	75.9	9.8	11-4,32-2
Bayer CropScience BCSX 1010B2F	4.0	1.16	80.8	31.2	7.2	2	76.9	9.8	21-4,22-1
Croplan Genetics CG 4020B2RF	4.0	1.18	81.4	30.1	8.4	2	78.1	9.3	21-3,21-4
Stoneville ST 4288B2F	4.1	1.13	80.8	30.3	8.5	3	77.6	9.4	21-3,31-3
Croplan Genetics CGX 1001B2RF	4.1	1.18	82.5	31.0	9.0	4	77.1	8.5	31-1

Table 18A. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Bayar CropScience BCSSX 1040B2F	4.2	1.21	81.7	32.8	7.4	3	76.7	8.9	31-3
LBB 08-10-602-V	3.6	1.19	81.5	33.3	7.3	2	78.7	9.2	21-1
Croplan Genetics CG 3520B2RF	4.0	1.15	80.8	29.6	8.9	2	76.5	9.8	22-1,22-2
Croplan Genetics CG 3220B2RF	3.8	1.15	80.6	30.9	9.2	2	77.4	9.7	21-3,22-1
NexGen NG1551 RF	4.3	1.11	81.7	32.9	8.1	2	76.7	9.4	22-2,31-1
Mean	3.9	1.15	81.4	31.2	8.4	2	77.8	9.1	
c.v.%	5.6	3.0	1.3	2.9	4.6	39.3	1.5	2.8	
LSD 0.05	0.5	0.07	2.7	1.8	0.8	2	2.4	0.5	

NOTES

Table 19. Production information for furrow irrigated performance test at Texas AgriLife Research, Pecos, TX 2010.

Test: Regional Cotton Variety

Planting Date: May 1

Row Spacing: 34-42in variable (equivalent to 38in)

Planting Pattern: Solid

Herbicide: Prowl @ 2pt/A applied pre-plant

Fertilizer: none

Irrigations:

- 11.3 acre-in May 11
- 4.6 acre-in June 14
- 4.0 acre-in June 28
- 4.3 acre-in July 26
- 4.8 acre-in August 11
- 4.0 acre-in August 25
- 4.0 acre-in September 1
- 37 acre-in

Rainfall: May-October = 11.03 inches

Insecticide: none

Fungicide: none

Harvest Aids:

- Folex @ 1pt/A and ethephon @ 1pt/A applied November 4
- Gramoxone @ 1pt/A applied November 16

Harvest Date: November 19

Freeze Date: November 26

Table 20. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Pecos 2010

Designation	Yield	Agronomic Properties						% Open Bolls				Storm Resistance		Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	11/11/10	Storm Resistance			
		Lint	Seed	Picked	Pulled									
06NMM024	1489	28.1	39.5	40.6	29.5	4.8	9.7	7.0	27.6	85	5	28		
Stoneville ST 4288B2F	1212	24.3	42.2	34.6	24.1	4.4	11.0	6.2	24.5	95	3	25		
LBB 07-7-1407-CT	1201	30.9	41.4	38.0	28.9	4.6	9.4	6.2	28.0	93	5	26		
Stoneville ST 5458B2F	1167	30.8	44.1	35.5	26.7	4.7	9.9	5.9	28.1	93	3	25		
Bayer CropScience BCSSX 1040B2F	1162	27.2	45.7	35.5	25.8	5.2	10.9	6.4	29.1	95	4	27		
NM05N1104	1103	27.2	44.0	36.7	27.5	4.4	9.4	5.9	27.1	90	4	28		
Stoneville ST 5288B2F	1091	27.4	43.0	37.8	27.9	4.4	9.6	6.4	26.2	95	4	28		
FiberMax FM 1740B2RF	1069	27.5	41.8	39.6	29.6	4.8	9.8	6.9	27.8	93	4	27		
LBB06-45-1104-D	1062	26.8	39.4	40.7	28.9	4.4	9.2	6.5	27.3	93	6	30		
Deltapine DP 1137B2RF	1048	32.7	42.1	38.7	28.5	4.6	9.3	6.3	27.9	90	4	25		
Deltapine DP 0912B2RF	1040	27.4	41.2	43.5	32.0	4.4	9.0	6.5	27.5	90	4	26		
Bayer CropScience BCSSX 1010B2F	1036	28.1	40.8	39.0	28.3	4.3	9.2	6.3	26.5	95	4	26		
PhytoGen PHY 755WRF	1025	27.3	41.5	38.5	28.7	4.2	8.7	5.9	27.3	93	5	28		
Deltapine DP 1050B2RF	1024	28.5	40.5	40.9	29.4	4.7	10.5	7.5	25.8	93	3	24		
PhytoGen PHY 375WRF	1017	28.2	39.9	38.6	28.7	4.1	8.9	6.0	26.0	85	5	24		
Croplan Genetics CG 4020B2RF	1015	29.2	45.6	36.7	27.6	4.9	10.2	6.5	27.6	90	4	24		
PhytoGen PHY 565WRF	999	24.1	43.2	34.4	25.6	4.8	10.6	5.9	27.9	93	4	24		
Croplan Genetics CG 3220B2RF	981	26.2	37.5	40.3	31.5	4.4	8.5	6.2	28.2	95	4	27		
NM03012	979	29.3	45.0	37.5	29.5	4.8	9.1	5.8	31.0	90	4	30		
Croplan Genetics CG 3520B2RF	977	28.6	42.8	40.2	30.1	4.0	7.8	5.6	28.4	93	4	27		
FiberMax FM 9160B2F	976	25.5	41.8	37.5	27.3	4.8	10.3	6.6	26.3	95	4	30		
Croplan Genetics CG 3035RF	970	24.5	42.7	35.8	27.1	5.4	11.0	6.7	28.9	88	4	29		
LBB07-21-309-P	961	26.4	42.4	39.1	28.8	4.3	8.9	6.3	27.2	95	4	27		
PhytoGen PHY 569WRF	943	24.8	44.2	35.3	26.0	5.1	10.6	6.3	29.0	93	4	24		
Stoneville ST 4554B2RF	936	27.2	44.0	34.0	24.8	4.9	11.3	6.4	26.1	93	3	30		
Deltapine DP 161B2RF	919	24.5	41.2	35.5	25.5	4.7	10.2	6.0	27.6	88	4	27		
FiberMax FM 1773LLB2	918	29.7	43.6	37.6	27.8	5.0	10.5	6.5	28.2	88	4	25		
FiberMax FM 9180B2F	917	26.7	42.9	37.2	28.1	4.2	8.6	5.7	27.6	93	4	25		
06NMM010	889	26.9	40.5	38.7	28.8	4.3	8.5	5.9	28.1	93	4	25		
FiberMax FM 9170B2F	888	22.5	42.0	35.9	25.7	4.7	10.7	6.5	25.9	93	5	25		

Table 20. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Pecos 2010

Designation	Yield	Agronomic Properties						% Open Bolls			
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed per Boll	11/11/10	Storm Resistance
		Lint	Seed	Picked	Pulled						
Deltapine DP 555BG/RR	879	24.6	38.7	38.2	29.0	4.0	8.8	5.9	26.1	95	5
FiberMax FM 1845LLB2	859	28.6	44.2	35.8	26.9	4.8	10.0	6.0	28.3	90	3
Monsanto 10R052B2R2	855	28.5	45.4	36.8	27.8	4.5	10.1	6.3	26.1	88	4
FiberMax FM 9058F	850	27.4	43.8	37.2	29.2	4.5	9.6	6.1	26.8	88	5
Deltapine DP 1032B2RF	850	28.0	40.4	34.3	24.8	4.5	9.2	5.2	30.3	95	4
PhytoGen PHY 72	827	27.4	42.9	36.3	26.5	4.6	10.8	6.6	25.3	88	4
Croplan Genetics CGX 1001B2RF	826	25.4	42.8	35.6	27.4	4.8	9.9	5.9	29.4	88	4
PhytoGen PHY 499WRF	821	23.1	40.3	39.6	28.7	4.5	9.4	6.6	27.2	95	4
PhytoGen PHY 519WRF	818	27.8	42.3	36.5	26.9	4.6	10.7	6.5	26.0	95	4
Deltapine DP 1133 B2RF	813	28.8	42.2	38.1	28.8	4.6	9.7	6.5	27.3	93	4
Deltapine DP 1048B2RF	789	23.1	44.5	34.6	23.9	5.2	12.0	6.7	26.9	95	5
LBB 06-46-266-P	771	25.7	41.6	37.4	27.9	4.2	9.0	5.9	26.7	95	3
Bayer CropScience BCSSX 1030B2F	766	27.2	47.2	36.2	31.2	4.8	10.7	6.4	27.1	88	4
Deltapine DP 1044B2RF	723	26.1	41.2	38.6	28.2	4.3	9.5	6.2	26.6	90	4
NexGen NG4010 B2F	705	28.4	41.0	40.1	29.4	4.4	8.7	6.2	28.2	88	4
Mean	959	27.1	42.3	37.5	27.9	4.6	9.7	6.3	27.4	91	4
c.v.%	22.2	9.2	6.3	7.7	9.8	10.8	8.5	7.6	5.4	19.2	26
LSD 0.05	359	4.2	4.4	4.9	4.6	0.8	1.8	0.9	3.5	8	10.6

Table 21. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Pecos

Name	2006	2007	2008	2009	2010	Average	Comp. Average*
Five Year Average							
Croplan Genetics CG 4020B2RF	1108	946	951	767	1015	957	
Deltapine 555 BG/RR	1360	1031	1358	727	879	1071	
PhytoGen PHY 72	1264	1119	1115	884	827	1042	
Four Year Average							
Croplan Genetics CG 3220B2RF	1224	1175	942	981		1081	1113
Three Year Average							
FiberMax 9058F		1209	859	850		973	1049
FiberMax FM 9160B2F		1166	857	976		1000	1076
NM 03012		1132	861	979		991	1067
PhytoGen PHY 375WRF		1416	1118	1017		1184	1260
PhytoGen PHY 755WRF		1100	954	1025		1026	1102
Stoneville ST 4288 B2F		990	1035	1212		1079	1155
Stoneville ST 4554 B2RF		1079	784	936		933	1009
Stoneville ST 5288 B2F		1134	698	1091		974	1050
Stoneville ST 5458 B2F		1182	1101	1167		1150	1226

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

Table 22. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2010.

Test:	Late Planted Variety
Planting Date:	June 10
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Prowl @ 1 qt/A applied pre plant Caparol @ 1.2qt/A and Dual @ 1.3pt/A applied May 12
Fertilizer:	120-20-0 lbs/A applied pre-plant
Irrigations:	2.5 acre inches June 10 1.4 acre inches August 5
Insecticide:	Temik @ 2.4 lbs/A at planting Telone II fumigant (for nematodes) applied April 6
Harvest Date:	November 22
Freeze Date:	November 13

Table 23. Results of the irrigated late planted variety test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout				Agronomic Properties				% Open			
		% Lint		% Seed		Boll Size		Seed per Boll		Bolls 10/25/10		Storm Resistance	
		Lint	Seed	Picked	Pulled	Index	Index	Index	Boll	10/25/10	Resistance	Height	28
PhytoGen PHY 367WRF	1276	29.2	43.2	39.8	31.2	5.7	9.6	6.6	34.5	86	3		
Deltapine DP 104 B2R2	1257	27.2	47.0	34.4	27.7	6.5	11.1	6.2	35.9	91	6	28	
FiberMax FM 1740B2RF	1242	29.2	41.9	39.7	31.1	6.0	10.6	7.4	32.2	89	5	26	
Croplan Genetics CG 3220B2RF	1132	27.6	42.4	38.1	30.3	6.4	11.1	7.3	33.3	80	4	30	
Monsanto 09R637/R2	1099	29.0	42.5	40.3	30.6	6.0	9.6	6.8	35.6	74	4	26	
Monsanto 09R348B2R2	1088	31.1	40.1	41.2	33.2	6.3	10.6	7.9	32.8	79	5	29	
Stoneville ST 4288B2F	1077	27.8	43.4	38.0	30.4	6.8	10.9	7.0	36.7	81	5	26	
Monsanto 09R532B2R2	1070	26.0	44.0	35.4	27.8	5.2	11.1	6.6	27.8	88	3	28	
Croplan Genetics CG 3035RF	1069	29.1	42.3	39.8	31.6	6.1	9.9	7.0	34.9	79	4	29	
Croplan Genetics CG 4020B2RF	1062	27.3	41.4	37.7	29.3	5.9	10.2	6.5	34.3	84	4	30	
Deltapine DP 1028 B2RF	1062	29.3	38.8	41.8	32.6	5.5	8.6	6.5	35.3	78	4	31	
PhytoGen PHY 375WRF	1062	28.7	40.9	40.1	31.5	5.8	10.1	7.2	32.4	84	3	30	
NexGen NG3348 B2RF	1039	27.3	44.5	36.4	28.6	6.1	11.3	7.0	31.9	88	6	28	
Monsanto 10R011B2R2	1007	30.4	41.3	40.4	31.6	6.0	9.3	6.8	36.0	75	4	27	
NexGen NG3410 RF	1007	26.1	42.2	37.4	29.8	6.5	11.7	7.5	32.3	83	6	28	
FiberMax FM 9180B2F	996	26.9	42.8	36.8	28.2	6.0	11.1	6.9	32.2	88	6	25	
Croplan Genetics CG 3520B2RF	986	26.8	41.4	39.8	29.9	5.2	9.8	6.6	31.2	85	3	28	
Croplan Genetics CGX 1001B2RF	920	25.8	43.1	35.8	27.6	5.0	10.4	6.2	29.2	89	4	27	
LBB 08-10-706-V	890	25.9	46.1	34.7	27.2	6.7	12.1	6.7	34.5	90	5	25	
LBB 08-10-602-V	801	23.8	47.3	33.0	26.3	5.7	12.3	6.5	28.8	89	6	24	
Mean	1057	27.7	42.8	38.0	29.8	5.9	10.5	6.8	33.1	84	4	27	
c.v.%	15.3	4.5	3.4	3.3	5.2	2.9	4.8	5.7	4.4	12.8	5.0		
LSD 0.05	229	1.8	2.1	2.6	2.1	0.6	0.7	4.0	5	1	2		

Table 23A. Results of the irrigated late planted variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{IV}
PhytoGen PHY 367WRF	4.5	1.13	82.5	31.8	8.9	1	78.3	9.2	21-1,21-2
DeltaPine DP 104 B2R2	4.3	1.11	82.1	32.0	9.1	3	79.4	8.4	21-2
FiberMax FM 1740B2RF	4.8	1.09	81.7	29.9	8.7	2	80.7	8.5	21-1
Croplan Genetics CG 3220B2RF	4.8	1.13	82.6	31.8	9.7	1	79.6	8.8	21-1
Monsanto 09R637R2	4.6	1.10	82.7	29.7	10.8	1	79.8	8.8	21-1
Monsanto 09R348B2R2	4.3	1.08	81.0	28.9	8.1	2	80.0	7.8	31-1
Stoneville ST 4288B2F	5.0	1.11	81.9	31.0	9.2	1	78.5	8.5	31-1
Monsanto 09R532B2R2	4.7	1.15	83.1	32.7	8.5	3	77.7	7.6	31-2
Croplan Genetics CG 3035RF	4.4	1.12	82.1	30.5	10.3	1	79.4	8.8	21-1,21-2
Croplan Genetics CG 4020B2RF	4.4	1.14	81.7	29.5	9.0	1	79.9	8.8	21-1,21-2
DeltaPine DP 1028 B2RF	4.4	1.12	82.0	29.5	9.9	1	80.8	8.6	21-1
PhytoGen PHY 375WRF	4.7	1.11	82.1	30.2	8.8	1	78.9	8.7	21-2,31-1
NexGen NG3348 B2RF	4.3	1.13	82.7	31.5	8.5	2	78.5	8.3	31-1
Monsanto 10R011B2R2	4.7	1.14	81.9	31.9	8.9	2	80.5	8.3	21-1
NexGen NG33410 RF	3.9	1.19	83.1	33.6	7.7	2	78.9	8.3	21-2,31-1
FiberMax FM 9180B2F	4.5	1.16	82.9	33.5	7.4	1	80.9	7.7	21-2,31-1
Croplan Genetics CG 3520B2RF	4.7	1.11	81.6	30.0	9.6	2	78.8	8.7	21-1,31-1
Croplan Genetics CGX 1001B2RF	4.9	1.14	82.2	30.5	8.7	3	77.9	8.3	31-1,31-2
LBB 08-10-706-V	3.8	1.15	82.0	33.9	7.9	2	79.7	8.4	21-1,31-1
LBB 08-10-602-V	4.0	1.19	83.1	33.7	7.7	2	80.5	8.2	21-1,21-2
Mean	4.5	1.13	82.2	31.3	8.8	2	79.4	8.4	
c.v.%	4.5	1.8	0.8	2.8	4.7	35.2	0.8	3.0	
LSD 0.05	0.4	0.04	1.3	1.8	0.9	1	1.3	0.5	

NOTES

Table 24. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2010.

Test: New Variety and Strains

Planting Date: May 11

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Prowl @ 1 qt/A applied pre plant
Caparol @ 1.2qt/A and Dual Magnum @ 1.3pt/A applied May 12

Fertilizer: 120-20-0 lbs/A applied pre-plant

Irrigations: 1.0 acre inches July 21
1.4 acre inches August 5

Insecticide: Temik @ 2.4 lbs/A at planting
Telone II fumigant (for nematodes) applied April 6

Harvest Aids: Gramoxone @ 32 oz/A + ½% crop oil applied November 3

Harvest Date: November 22

Freeze Date: November 13

Table 25. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout			Agronomic Properties			% Open		
		% Lint		Seed	% Lint	Boll	Seed	Lint	Seed per	Bolls
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boil	10/3/10
All-Tex ATX LA122	1582	26.3	39.8	36.8	28.2	6.0	10.6	6.6	33.3	71
Deltapine DP 1137 B2RF	1496	30.6	41.8	38.9	29.8	6.2	10.5	7.2	33.5	80
All-Tex ATX 7A21	1493	27.8	40.8	38.7	28.9	6.6	10.9	7.3	34.8	85
Monsanto 10R052B2R2	1470	30.4	39.1	41.0	32.1	6.3	9.6	7.2	35.6	69
PhytoGen PHX4299WRF	1468	26.2	44.0	36.9	29.6	5.3	9.8	6.1	31.7	78
All-Tex AT 81159 RF	1402	24.6	39.8	37.9	29.9	6.6	10.9	7.0	36.0	92
Bayer CropScience BCSSX 1010B2F	1391	27.4	45.1	37.1	28.6	6.5	11.6	7.2	33.7	89
Monsanto 09R532B2R2	1382	25.4	43.5	34.5	27.6	5.3	10.8	6.1	29.8	98
Monsanto 09R637R2	1352	28.9	42.4	38.4	30.0	5.6	9.8	6.3	31.2	76
All-Tex AT 91437-2 B2RF	1325	29.4	43.5	38.3	29.4	5.9	10.3	6.8	33.3	93
All-Tex AT 81144 B2RF	1314	27.8	41.9	34.4	27.2	6.5	13.3	7.7	29.5	81
NexGen NGX582 B2RF	1308	24.2	44.1	35.2	28.0	7.6	12.2	7.1	37.5	95
FiberMax FM 9180B2F	1231	24.6	42.0	36.9	28.6	7.0	10.9	7.2	35.7	95
All-Tex AT 65984 B2RF	1221	29.0	43.8	38.9	31.8	6.3	10.4	6.9	35.2	91
06NMM024B2RF	1199	26.3	44.2	35.9	27.6	6.9	11.4	6.9	36.2	86
Monsanto 09R348B2R2	1195	26.8	40.8	37.2	28.5	7.3	11.5	7.4	36.9	77
NM05N1104	1152	25.4	42.7	34.7	26.8	6.5	13.1	7.3	31.2	71
Bayer CropScience BCSSX 1040B2F	1146	22.5	42.8	33.0	26.3	5.9	11.2	6.0	33.0	85
Bayer CropScience BCSSX 1030B2F	1138	27.6	42.2	38.1	28.5	5.9	10.6	7.0	32.4	88
CropLan Genetics CGX 1001B2RF	1137	24.4	42.6	32.8	25.8	5.4	11.4	6.3	28.5	96
All-Tex AT 81227 B2RF	1122	26.5	42.3	36.9	29.5	6.4	11.0	6.8	34.9	76
LBB 07-21-311-P	1111	23.7	44.3	36.7	27.9	6.8	11.6	7.1	35.1	85
PhytoGen PHX3099WRF	1104	25.9	42.8	38.2	29.5	6.2	11.0	7.2	32.9	69
NM03012	1096	24.7	44.0	34.9	27.5	6.8	12.0	6.9	34.3	81
LBB 05-47-802-D	1081	24.3	43.0	35.7	26.5	7.1	13.2	7.8	32.1	83
06NMM010B2RF	1024	25.7	42.6	36.4	28.9	6.8	11.8	7.1	34.7	85
LBB 08-10-706-V	949	21.8	42.4	33.5	25.9	6.4	11.0	5.9	36.9	84
FiberMax FM 958	941	23.8	38.9	35.0	27.1	7.0	12.9	7.6	32.5	68
Seed Source Genetics SSG 59-6-9	901	24.3	44.6	34.5	26.9	6.8	11.1	6.2	37.6	75
LBB 08-10-602-V	888	22.7	46.5	31.4	24.3	6.2	12.4	6.0	32.4	80

Table 25. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock 2010

Designation	Yield	% Turnout		% Lint				Agronomic Properties				% Open		
		Lint	Seed	Picked	Pulled	Boll	Seed	Lint	Seed per	Bolls	Storm	10/13/10	Resistance	Height
						Index	Index	Index	Boll	10/13/10				
All-Tex AT 91339-8 B2RF	860	22.9	41.2	35.1	26.5	6.7	11.4	6.7	35.3	43	6	31		
Mean	1209	25.9	42.5	36.2	28.2	6.3	11.3	6.8	33.8	81	5	31		
c.v.%	16.0	6.8	5.6	4.4	5.9	7.7	6.0	8.4	6.7	23.0	36.5	7.2		
LSD 0.05	299	2.5	3.4	3.3	3.4	1.0	1.4	1.4	4.7	26	3	3		

All-Tex 65903 B2RF, All-Tex AT 91224-91 B2RF, Deltapine 1133B2RF, and Monsanto 10R011B2R2 were dropped due to stand loss

Table 25A. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
All-Tex ATX LA122	3.8	1.05	85.7	28.0	9.3	2	78.4	9.1	21-3,31-1
Deltapine DP 1137 B2RF	4.5	1.13	82.6	29.8	8.6	2	77.6	8.4	31-1,31-2
All-Tex ATX 7A21	4.5	1.14	82.6	31.2	8.2	2	77.7	8.9	21-2
Monsanto 10R052B2R2	4.7	1.12	82.3	29.6	9.6	1	78.0	8.9	21-4,31-1
PhytoGen PHX4299WRF	4.9	1.18	83.8	32.8	9.0	2	78.3	8.3	31-1
All-Tex AT 81159 RF	4.0	1.16	81.7	32.1	7.7	2	77.6	8.4	31-1
Bayer CropScience BCSSX 1010B2F	4.1	1.17	81.7	30.5	7.9	1	77.7	8.8	31-1,31-3
Monsanto 09R532B2R2	4.7	1.16	83.4	32.4	8.1	4	75.2	7.9	41-1
Monsanto 09R637R2	4.6	1.13	83.1	30.2	9.9	1	77.7	8.2	21-1,41-1
All-Tex AT 91437-2 B2RF	3.9	1.19	82.1	31.4	8.6	1	78.2	9.2	21-2,21-4
All-Tex AT 81144 B2RF	4.1	1.21	83.6	34.5	8.8	3	77.4	8.9	21-3,31-2
NexGen NGX582 B2RF	4.3	1.19	83.2	32.6	7.2	3	77.6	8.7	31-1
FiberMax FM 9180B2F	4.6	1.15	83.2	32.6	7.2	1	79.1	8.2	31-1
All-Tex AT 65984 B2RF	5.1	1.14	82.6	32.7	8.3	1	76.6	8.8	31-1,31-3
06NMM024B2RF	3.8	1.24	83.0	35.5	9.0	2	76.6	8.7	31-1,31-2
Monsanto 09R348B2R2	3.5	1.11	80.8	28.3	7.8	2	78.0	8.7	21-4,31-1
NM05N1104	4.5	1.21	83.1	33.4	8.2	1	77.6	8.6	31-1
Bayer CropScience BCSSX 1040B2F	4.4	1.23	83.3	32.2	7.2	4	75.8	8.3	31-2,41-1
Bayer CropScience BCSSX 1030B2F	4.1	1.14	80.9	28.9	8.4	1	76.9	8.5	21-2,41-1
CropLife Genetics CGX 1001B2RF	4.6	1.15	82.6	30.5	8.4	3	77.2	8.2	31-1,31-2
All-Tex AT 81227 B2RF	4.5	1.16	81.8	33.1	8.0	2	78.7	7.9	31-1
LBB 07-21-311-P	3.9	1.16	83.0	32.2	8.5	1	76.9	9.1	22-2,31-2
PhytoGen PHX 3099WRF	4.3	1.17	82.7	30.8	9.4	2	77.9	8.1	31-1,31-2
NM03012	4.2	1.19	82.9	35.6	7.6	2	77.8	8.5	31-1,31-2
LBB 05-47-802-D	4.1	1.19	82.8	33.9	6.2	3	78.0	7.9	31-1,31-2
06NMM010B2RF	4.3	1.09	86.5	34.5	8.5	1	77.1	9.0	31-1,31-3
LBB 08-10-706-V	3.9	1.18	83.5	34.9	7.7	3	78.0	8.4	31-1
FiberMax FM 958	4.1	1.16	83.3	32.1	7.5	2	78.8	8.9	21-1,21-2
Seed Source Genetics SSG 59-6-9	4.6	1.15	83.4	33.4	8.3	1	77.9	8.2	31-1
LBB 08-10-602-V	3.4	1.19	82.1	34.1	7.6	2	79.5	8.1	31-1

Table 25A. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
All-Tex AT 91339-8 B2RF	3.5	1.18	81.4	31.0	8.2	2	76.8	9.5	21-4,22-2
All-Tex AT 65903 B2RF	4.3	1.12	81.1	28.1	7.9	1	79.0	9.1	21-1,21-3
All-Tex AT 91224-91 B2RF	3.8	1.11	81.3	28.4	8.7	3	78.1	8.5	21-2,31-2
Deltapine DP 1133 B2RF	4.6	1.20	82.0	35.2	8.2	2	78.0	8.8	31-1
Monsanto 10R011B2R2	4.8	1.12	80.9	29.8	8.0	1	77.4	8.6	31-1
Mean	4.2	1.16	82.7	31.9	8.2	2	77.7	8.5	
c.v.%	8.4	3.7	2.1	3.9	7.7	45.5	1.4	6.3	
LSD 0.05	0.7	0.09	3.6	2.5	1.3	2	2.2	1.1	

NOTES

Table 26. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2010.

Test: Regional Breeders Strains

Planting Date: May 6

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Triflurin @ 1 ½ pt/A applied pre plant

Fertilizer: 120-0-0 lbs/A applied June 1

Irrigations: 2.4 acre inches June 24
2.8 acre inches August 3
2.0 acre inches August 24

Insecticide: Temik @ 2.4 lbs/A at planting

Harvest Aids: Super Boll @ 22oz/A and Def @8 oz/A applied October 4
Parazone @ 16oz/A and NIS at .05%

Harvest Date: November 4

Freeze Date: November 13

Table 27. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Halfway 2010

Designation	Yield	Agronomic Properties						Verticillium Ratings			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Plants	% wilt
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	per foot	8/10/10
FiberMax FM 989	1483	26.5	45.5	35.4	26.7	6.3	11.0	6.4	34.7	3.59	7.4
LA07307111	1443	31.8	57.2	34.3	27.5	5.6	10.2	5.7	33.3	4.41	14.5
Ark 0222-12	1387	27.7	47.4	36.3	29.1	6.3	11.2	6.8	33.6	4.1	10.5
SureGrow SG 105	1368	28.0	49.2	31.8	24.8	5.6	11.3	5.8	31.0	4.56	10.9
FiberMax FM 958	1267	26.2	43.0	36.4	28.3	6.0	11.2	6.8	32.2	4.58	11.7
Ark 0219-15	1263	25.7	42.1	35.4	28.3	6.7	12.0	7.0	34.8	3.51	13.7
LBB-07-21-311	1213	23.8	45.4	31.4	24.8	6.2	11.6	5.7	34.0	4.09	7.7
AU6001	1199	25.4	44.3	34.6	27.3	6.5	11.3	6.4	35.0	3.3	18
TAM 03WZ-37	1198	23.6	43.7	32.7	26.6	6.1	10.7	5.6	35.5	5.11	9.5
LA07307122	1191	30.2	42.6	38.0	29.8	6.0	10.1	6.6	34.4	2.32	20.8
LA06307025	1183	26.6	41.2	37.3	29.1	5.5	10.1	6.4	31.9	3.23	9.4
GA 2007095	1167	27.0	45.1	34.5	27.2	6.2	10.5	5.9	35.7	2.53	13.3
Ark 0203-11	1158	26.9	42.8	37.1	28.6	5.7	10.3	6.4	32.9	2.95	16.5
NM 06N1166	1138	25.4	47.2	33.2	26.2	5.4	10.8	5.6	32.6	4.97	9.9
PX03202-65-1	1135	23.3	45.2	36.8	27.7	5.6	10.9	6.4	32.2	2.74	12.1
Deltapine DP 491	1132	25.8	42.7	35.2	28.3	6.6	10.5	6.2	37.7	4.61	15.6
PD05035	1117	25.4	45.7	34.0	26.6	5.9	10.9	6.0	33.7	3.98	10.3
MD25Y	1115	25.2	45.6	35.2	27.8	6.1	11.1	6.4	33.7	4.02	16.2
AU3111	1111	28.2	42.2	37.1	29.6	5.9	10.1	6.4	34.3	3.67	16.5
NC09AZ09	1103	24.4	42.5	34.6	26.3	5.3	9.8	5.5	33.5	3.58	15.9
AU6202	1101	28.3	50.2	34.4	27.1	5.6	10.7	6.0	32.3	4.06	17.6
NM 06N1104	1080	24.9	44.9	31.8	24.4	6.0	11.7	6.2	31.0	3.2	11.3
NM 03012	1061	24.3	46.1	33.8	26.8	5.8	11.5	6.4	30.8	4.3	9.6
AU3202	1051	27.9	41.9	36.7	28.9	5.7	11.0	6.8	30.6	3.36	19.2
PD05041	1024	25.2	44.5	34.5	27.0	6.1	10.9	6.2	34.4	3.01	15.3
GA 2006053	1009	26.4	46.7	33.5	26.1	5.3	10.1	5.4	32.7	2.81	15.1
GA 2006106	985	26.6	43.2	35.9	28.2	6.4	11.0	6.6	34.6	2.25	25.5
LA07307106	982	26.7	42.8	36.2	28.6	6.6	11.2	6.9	34.7	3.42	22.3
MD25ne	966	24.0	43.4	34.2	27.0	5.8	10.8	5.9	33.6	4.66	8.5
MS 0033-6	959	27.7	47.7	35.7	28.0	5.8	10.9	6.3	33.0	3.08	26.1

Table 27. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Halfway 2010

Designation	Yield	Agronomic Properties						Verticillium Ratings			
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Plants	% wilt
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	per foot	8/10/10
NM W1218	956	22.6	47.3	31.2	24.5	6.5	11.9	5.9	34.0	1.98	13.6
PX03201-66-1	933	24.2	45.5	32.7	25.5	5.7	11.7	6.0	31.3	2.76	15.2
GA 2004143	885	26.5	39.0	36.4	28.9	5.1	9.4	5.8	31.9	2.74	15.8
Deltapine DP 393	838	25.1	42.0	35.6	27.0	5.7	10.6	6.2	32.5	4.6	18.8
Ark 0232-24	804	23.6	42.4	33.6	25.2	5.8	11.4	6.3	31.1	3.4	20.3
NC05AZ06	687	16.9	45.8	27.1	19.5	4.5	10.8	4.3	28.8	4.13	24.9
Mean	1107	25.8	44.8	34.6	27.1	5.9	10.8	6.2	33.2		
c.v.%	17.7	10.3	10.9	7.4	7.5	5.6	4.1	8.5	5.7		
LSD 0.05	277	3.7	6.9	3.6	2.9	0.5	0.6	0.7	2.6		
MSD										0.94	14.6
											15.5
											0.382
											2.656

Table 27A. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Halfway 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 989	3.5	1.17	80.7	32.5	7.1	4	78.5	7.9	31-1,31-2
LA07307111	3.6	1.13	80.9	30.3	8.5	2	79.7	8.2	21-2,31-1
Ark 0222-12	3.7	1.19	81.4	31.0	9.4	3	79.2	8.2	31-1
SureGrow SG 105	3.9	1.13	81.5	30.5	8.3	2	79.2	8.5	21-2,31-1
FiberMax FM 958	3.8	1.12	80.2	30.9	7.3	3	79.9	7.7	21-2,31-1
Ark 0219-15	3.6	1.14	80.1	30.5	9.0	2	78.8	9.0	21-1
LBB-07-21-311	3.4	1.17	81.1	32.8	8.0	4	79.1	8.4	21-2,31-1
AU6001	3.7	1.14	80.8	31.7	9.3	3	77.8	8.5	21-2,31-1
TAM 03WZ-37	3.5	1.16	81.4	34.0	8.3	4	77.7	8.1	31-1,31-2
LA07307122	4.0	1.11	81.1	29.2	8.3	3	79.1	8.4	21-2,31-1
LA06307025	3.9	1.16	81.3	31.8	8.6	3	78.6	8.1	21-2,31-1
GA 2007095	3.5	1.15	81.2	31.4	8.1	2	80.4	8.2	21-1,21-2
Ark 0203-11	4.1	1.18	82.9	33.4	8.0	2	80.1	8.1	21-2
NM 06N1166	3.5	1.10	79.8	30.3	9.1	1	81.0	8.4	11-2,21-2
PX03202-65-1	3.8	1.19	80.6	33.9	7.5	2	76.4	9.1	31-3
Deltapine DP 491	3.4	1.15	80.9	32.1	7.8	4	78.7	8.5	21-2,31-1
PD05035	3.6	1.17	81.2	31.5	8.1	2	80.1	8.1	21-2
MD25Y	3.7	1.19	82.1	33.2	7.2	3	79.5	8.1	31-1
AU3111	4.0	1.12	80.1	30.2	7.7	2	79.8	8.4	21-1,21-2
NC09AZ09	3.7	1.12	81.0	31.0	8.8	3	78.5	9.0	21-2,21-4
AU6202	3.8	1.13	80.8	29.5	8.7	4	78.7	8.0	21-2,31-2
NM 06N1104	3.8	1.20	81.6	34.2	8.2	3	78.2	8.4	31-1
NM 03012	3.7	1.21	81.7	35.1	7.7	4	77.2	8.4	31-1,31-2
AU3202	4.1	1.14	81.0	29.9	7.5	2	79.3	8.2	21-2,31-1
PD05041	3.4	1.16	80.9	32.2	7.9	4	78.6	8.0	31-1
GA 2006053	3.7	1.13	80.6	29.5	8.4	3	80.6	8.0	21-2
GA 2006106	3.7	1.16	81.0	31.1	7.2	3	80.1	8.4	21-1,21-2
LA07307106	3.6	1.12	80.1	30.5	9.3	3	80.5	8.2	21-1,21-2
MD25ne	3.5	1.20	81.8	34.1	7.6	4	79.3	8.2	21-2,31-1
MS 0033-6	3.6	1.13	80.2	29.9	8.1	2	79.5	8.4	21-1,31-1

Table 27A. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Halfway 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
NM W1218	3.4	1.24	82.9	35.9	8.3	4	75.0	8.0	41-1
PX03201-66-1	3.5	1.17	80.6	33.2	7.6	2	77.7	9.8	21-3,22-1
GA 2004143	3.8	1.15	80.6	31.5	6.9	4	79.5	8.0	21-2,31-1
Deltapine DP 393	3.5	1.10	80.5	30.5	9.3	3	78.2	8.4	31-1
Ark 0232-24	3.8	1.15	83.3	36.2	9.0	4	75.5	8.4	31-1,41-1
NC05AZ06	3.5	1.14	82.1	32.2	7.5	3	77.5	8.6	21-1,31-2
Mean	3.6	1.15	81.1	31.9	8.1	3	78.8	8.3	
c.v.%	5.4	1.3	0.9	2.6	2.5			1.2	2.2
LSD 0.05	0.4	0.03	1.5	1.7	0.4	1	1.9	0.4	

NOTES

Table 28. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2010.

Test: Verticillium Wilt

Planting Date: May 6

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Triflurin @ 1 ½ pt/A applied pre plant

Fertilizer: 120-0-0 lbs/A applied June 1

Irrigations: 2.4 acre inches June 24
2.8 acre inches August 3
2.0 acre inches August 24

Insecticide: Temik @ 2.4 lbs/A at planting

Harvest Aids: Super Boll @ 22oz/A and Def @8 oz/A applied October 4
Parazone @ 16oz/A and NIS at .05%

Harvest Date: November 11

Freeze Date: November 13

Table 29. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Halfway 2010

Designation	Yield	Agronomic Properties										Verticillium Ratings					
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	% Open	Height	8/10/2010	8/30/2010	Percent wilt	Defoliation
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	09/30/10	Resistance	Height	8/10/2010	8/30/2010	9/22/2010		
FiberMax FM 9180B2F	1537	25.3	45.7	33.3	26.5	6.9	12.2	6.3	36.1	83	6	34	16.0	27.5	0.924		
FiberMax FM 9170B2F	1374	26.8	42.9	36.6	30.0	6.1	11.3	6.6	33.9	76	5	35	21.8	30.5	1.212		
All-Tex AT 81144 B2RF	1359	26.3	45.9	34.6	28.2	6.5	11.0	6.1	36.6	76	5	34	20.5	32.0	1.312		
NexGen NG4111 RF	1324	25.7	41.5	35.5	28.5	6.7	11.3	6.5	36.3	70	5	35	24.8	33.3	1.224		
PhytoGen PHY 367WRF	1301	26.2	45.5	36.1	29.7	5.7	10.3	6.1	33.6	76	4	34	23.5	49.0	2.033		
FiberMax FM 9160B2F	1291	26.9	44.1	34.5	27.9	6.1	11.0	6.0	35.3	69	6	34	18.5	24.8	0.804		
Deltapine DP 1032 B2RF	1266	27.3	42.0	37.4	30.0	6.0	9.9	6.1	36.2	68	4	36	31.3	41.3	1.288		
PhytoGen PHY 375WRF	1261	27.6	44.1	37.5	29.6	5.8	10.4	6.4	33.6	80	4	34	27.0	44.5	1.774		
NexGen NG3410 RF	1247	25.8	47.0	34.2	27.8	6.8	12.3	6.7	34.9	58	6	34	17.8	29.0	1.472		
NexGen NG2549 B2RF	1217	24.6	44.1	33.9	27.6	5.7	10.9	5.7	33.5	81	7	35	31.5	50.5	1.607		
FiberMax FM 1773LLB2	1215	24.8	46.0	32.5	26.2	7.3	12.9	6.4	36.6	64	5	36	19.5	29.8	1.528		
Monsanto 09R637R2	1199	29.0	46.1	36.5	28.3	6.0	10.6	6.3	34.3	68	5	32	17.8	40.0	1.219		
Stoneville ST 4288B2F	1182	25.6	44.4	33.4	26.7	6.4	11.8	6.1	34.8	70	5	33	37.8	47.8	1.532		
Seed Source Genetics SSG HQ 210 CT	1175	26.1	45.5	33.9	27.9	6.0	10.1	5.3	38.1	73	5	33	43.5	62.5	1.578		
Deltapine DP 1028 B2RF	1165	28.4	40.3	37.8	30.2	6.3	9.7	6.1	38.9	64	5	36	22.0	36.3	1.519		
Deltapine DP 1034 B2RF	1147	26.8	39.4	36.4	28.7	6.0	9.8	5.9	37.6	73	5	37	28.8	39.0	1.440		
Deltapine DP 0912 B2RF	1141	25.9	42.3	34.7	27.8	6.2	10.8	6.1	35.3	70	4	34	47.5	70.5	1.896		
Croplan Genetics CGX 1001B2RF	1132	23.5	42.4	33.3	26.4	5.5	10.5	5.4	34.1	84	5	35	25.3	42.8	2.402		
FiberMax FM 1845LLB2	1130	24.9	44.5	32.8	25.6	6.5	12.0	6.1	34.7	69	5	34	22.0	23.8	1.422		
NexGen NG4010 B2RF	1117	25.3	44.8	33.8	27.4	5.7	11.0	5.8	33.5	76	5	33	21.3	29.5	1.183		
Monsanto 10R011B2R2	1106	28.6	42.9	37.1	29.6	6.4	10.1	6.3	37.7	69	4	34	31.3	50.3	1.455		
Deltapine DP 104 B2RF	1105	22.7	47.9	30.9	25.0	6.5	11.9	5.6	35.9	83	5	33	31.5	41.3	1.563		
NexGen NG4012 B2RF	1105	24.4	42.4	30.9	24.7	6.0	10.8	5.3	34.9	65	5	35	19.3	33.8	1.342		
Seed Source Genetics SSG HQ 212 CT	1077	25.0	44.5	34.2	27.9	6.0	10.1	5.4	38.2	73	5	33	36.0	54.0	1.607		
NexGen NG3348 B2RF	1067	25.7	45.3	34.3	28.5	6.7	11.9	6.5	35.6	75	5	34	14.8	25.5	1.275		
Bayer CropScience BCSX 1010B2F	1056	23.4	43.8	32.6	25.9	6.0	11.9	7.0	32.8	74	4	35	33.0	48.3	1.616		
All-Tex AT 811220 B2RF	1054	24.0	43.8	34.3	26.9	6.0	11.2	6.0	34.2	79	4	35	43.0	60.3	1.710		
All-Tex ATX LA122	1053	28.2	42.3	36.7	29.3	5.6	10.2	6.2	33.4	75	6	33	37.5	61.8	1.892		
All-Tex AT 81227 B2RF	1048	22.3	44.6	34.7	27.7	5.9	10.5	5.8	35.4	75	6	33	30.8	49.0	1.797		
All-Tex ATX 7A21	1026	24.1	41.7	37.9	30.3	6.1	10.4	6.6	35.1	79	5	34	16.8	34.0	1.749		

Table 29. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Halfway 2010

Designation	Yield	Agronomic Properties						Verticillium Ratings					
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open	Storm	Resistance	Height
		Lint	Seed	Picked	Pulled	Index	Index	Index	Boll	09/30/10	Bolls	09/30/10	8/10/2010
Monsanto 09R532B2R2	992	22.1	42.0	32.7	26.7	5.3	10.8	5.5	31.3	84	4	34	26.3
NexGen NG1551 RF	949	25.4	48.9	33.0	26.6	6.6	11.9	6.1	35.7	73	5	33	33.3
Croplan Genetics CG 4020B2RF	899	25.1	45.6	33.0	25.1	5.5	10.7	5.5	32.6	80	5	34	41.0
All-Tex AT 81158 RF	875	24.4	42.0	33.6	26.3	6.4	10.6	5.6	38.1	80	5	29	24.0
Bayer CropScience BCSX 1030B2F	845	27.0	43.9	35.1	28.3	5.4	10.0	5.8	33.1	80	4	32	26.3
Croplan Genetics CG 3220B2RF	820	25.3	43.1	35.3	27.9	6.2	11.6	6.5	33.6	81	4	34	36.5
Monsanto 09R348B2R2	810	24.5	42.0	35.3	28.0	6.2	11.1	6.3	34.3	69	5	33	48.5
Croplan Genetics CG 3520B2RF	764	24.0	44.1	35.3	28.1	5.5	10.5	5.9	32.8	83	4	33	45.5
Croplan Genetics CG 3035RF	759	24.7	41.1	37.3	29.8	6.3	11.0	6.8	34.4	78	4	35	45.5
Bayer CropScience BCSX 1040B2F	720	21.7	43.2	30.7	24.9	5.8	11.7	5.5	32.8	84	6	33	28.3
Mean	1098	25.4	43.8	34.6	27.7	6.1	10.9	6.0	35.0	75	5	34	34
c.v. %	15.6	6.5	5.9	3.7	4.5	4.2	2.6	5.0	3.6	8.9	14.1	4.4	MSE 13
LSD 0.05	240	2.3	3.6	2.6	2.5	0.5	0.6	0.6	2.5	9	1	2	18.8

Table 29A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9180B2F	3.4	1.14	80.3	31.4	7.8	2	80.9	7.7	31-1
FiberMax FM 9170B2F	3.3	1.13	79.7	31.0	7.2	2	80.8	7.1	31-2
All-Tex AT 81144 B2RF	3.4	1.17	81.3	33.0	8.7	3	77.7	7.5	21-2,31-2
NexGen NG4111 RF	3.3	1.10	80.9	32.5	9.1	2	79.3	8.9	21-1,31-1
PhytoGen PHY 367WRF	2.9	1.09	79.5	30.4	9.2	1	78.2	8.6	21-1,21-2
FiberMax FM 9160B2F	3.0	1.12	80.8	30.5	7.0	2	80.5	7.5	31-1,31-2
Deltapine DP 1032 B2RF	4.1	1.11	79.8	29.3	8.1	1	78.7	8.1	31-1,41-1
PhytoGen PHY 375WRF	3.1	1.09	79.8	28.7	8.3	3	79.2	7.8	31-1,31-2
NexGen NG3410 RF	3.2	1.15	80.5	31.6	8.3	2	78.0	8.2	21-1,31-1
NexGen NG2549 B2RF	3.4	1.05	80.4	29.7	9.1	4	78.9	8.0	21-1,21-2
FiberMax FM 1773LLB2	3.3	1.14	78.8	31.6	6.1	2	78.6	7.3	31-1,51-1
Monsanto 09R637R2	3.9	1.11	80.7	28.9	9.6	1	79.5	8.4	21-1,31-1
Stoneville ST 4288B2F	3.8	1.05	78.0	28.3	8.9	2	75.3	8.1	31-1,41-1
Seed Source Genetics SSG HQ 210 CT	3.4	1.08	79.8	31.0	8.7	1	80.9	8.3	21-2
Deltapine DP 1028 B2RF	3.9	1.06	79.5	27.6	9.3	1	79.8	9.0	31-1,31-2
Deltapine DP 1034 B2RF	3.7	1.11	79.8	29.1	9.3	2	80.2	8.2	21-1
Deltapine DP 0912 B2RF	3.7	1.06	80.4	29.5	9.1	2	78.9	8.2	31-1
CropLife Genetics CGX 1001B2RF	3.7	1.14	80.8	30.5	8.7	5	76.7	7.6	31-1,41-2
FiberMax FM 1845LLB2	3.3	1.13	80.4	32.6	7.6	2	78.5	7.9	31-1
NexGen NG4010 B2RF	3.6	1.10	80.3	31.3	8.2	3	76.9	8.3	21-1,21-2
Monsanto 10R011B2R2	3.8	1.12	80.1	30.0	8.0	2	79.2	8.3	21-2,41-1
Deltapine DP 104 B2RF	2.9	1.09	80.5	32.0	9.6	2	79.9	8.0	21-1,21-2
NexGen NG4012 B2RF	3.4	1.08	79.3	30.7	7.7	1	78.6	8.6	31-1,31-2
Seed Source Genetics SSG HQ 212 CT	3.6	1.11	80.2	32.1	8.7	2	80.4	7.9	31-2,51-1
NexGen NG3348 B2RF	3.4	1.13	81.8	31.1	8.6	3	78.4	8.2	31-1,31-2
Bayer CropScience BCSX 1010B2F	3.1	1.11	78.9	29.6	7.2	2	79.4	8.3	31-1
All-Tex AT 81220 B2RF	3.3	1.12	79.8	30.1	8.2	2	80.2	7.9	31-1
All-Tex ATX LA122	3.5	1.08	79.6	28.1	9.1	1	80.0	7.8	21-1,41-1
All-Tex AT 81227 B2RF	3.2	1.10	79.3	29.4	8.1	4	76.7	7.0	31-1,31-2
All-Tex ATX 7A21	3.5	1.15	80.8	31.1	7.8	3	76.3	7.7	31-1,41-1

Table 29A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Lubbock 2010

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Monsanto 09R532B2R2	3.5	1.12	80.5	31.2	8.6	4	77.1	7.2	21-1,31-1
NexGen NG1551 RF	4.0	1.07	80.8	31.5	8.2	1	76.9	8.6	21-1,31-1
Croplan Genetics CG 4020B2RF	3.4	1.10	79.2	28.5	8.7	1	78.2	8.4	21-1,21-2
All-Tex AT 81158 RF	3.6	1.11	81.5	29.9	9.0	3	77.7	7.5	31-2
Bayer CropScience BCSSX 1030B2F	3.6	1.07	80.7	28.2	8.9	2	79.4	8.1	21-2,41-1
Croplan Genetics CG 3220B2RF	3.6	1.07	79.2	29.5	9.4	1	79.6	8.6	21-2,31-1
Monsanto 09R348B2R2	3.3	1.06	79.5	28.7	8.0	3	77.7	7.6	31-1
Croplan Genetics CG 3520B2RF	3.3	1.09	79.6	28.3	8.8	2	76.9	7.9	31-1
Croplan Genetics CG 3035RF	3.5	1.10	81.0	31.1	9.8	2	79.7	8.7	31-1,31-2
Bayer CropScience BCSSX 1040B2F	3.4	1.17	81.4	31.2	7.4	4	77.9	7.7	21-1,31-1
Mean	3.4	1.10	80.1	30.2	8.4	2	78.7	8.0	
c.v.%	8.8	2.0	1.3	3.1	3.6	40.5	2.1	4.3	
LSD 0.05	0.6	0.05	2.1	1.9	0.6	2	3.4	0.7	

NOTES

Table 30. Production information for pivot irrigated performance test at the AG-CARES farm, Lamesa, TX 2009.

Test:	Nematode Variety
Planting Date:	May 12
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @ 1.3pt/A applied pre-plant Caparol @ 1.5pt/A applied May 14
Fertilizer:	10-34-0 @ 116 lbs/A applied pre-plant
Irrigations:	5.1 acre-in applied May-September
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 2pt/A + 2oz ET with .45lb/A Zennith applied September 30 Gramoxone Inteon @ 32 oz/A + .25lb/A Array applied October 18
Harvest Date:	October 26
Freeze Date:	November 13

Table 31. Results of the pivot irrigated nematode variety test at the AG-CARES farm, Lamesa 2010

Designation	Agronomic Properties										Bacterial Blight Rating ²			
	% Turnout		% Lint		Boll Size		Seed Index		% Open Bolls		Storm	RK/ 500cc soil		
	Yield	Lint	Seed	Picked	Pulled	Index	Seed	Index	Boll	9/27/10	Resistance Height	71	29	
NexGen NG4111 RF	1357	28.0	44.4	37.5	30.3	5.4	10.4	6.4	31.6	71	4	29	4200	R
Deltapine DP 174 RF	1353	28.6	40.5	38.4	31.7	5.7	9.7	6.5	34.2	70	4	31	690	S
PhytoGen PHY 519WRF	1297	28.2	46.3	36.3	29.2	4.7	10.2	5.9	28.5	76	5	34	1410	S
PhytoGen PHY 367WRF	1287	26.6	45.1	36.5	28.8	4.8	9.3	5.6	31.5	73	4	31	488	S
Deltapine DP 1044 B2RF	1284	26.6	48.8	35.5	29.3	5.0	9.4	5.4	32.8	74	5	30	560	S
NexGen NG4012 B2RF	1282	26.6	47.2	34.6	28.0	5.3	9.7	5.4	34.3	73	4	28	2285	R
Deltapine DP 1133 B2RF	1224	29.2	40.8	39.2	31.0	5.1	9.2	6.2	32.8	78	4	30	1680	R
PhytoGen PHY 569WRF	1196	27.5	45.9	35.6	28.3	4.3	9.2	5.3	29.1	78	4	32	2100	S
Croplan Genetics CG 3035RF	1171	28.7	43.6	38.2	31.2	5.4	9.9	6.3	33.1	75	4	32	2120	S
All-Tex AT Epic RF	1171	28.8	44.5	38.5	30.4	5.4	9.9	6.4	32.2	76	4	32	715	S
NexGen NG3410 RF	1168	26.2	47.4	33.7	28.1	6.1	11.8	6.4	32.4	61	5	32	1410	R
Monsanto 09R348B2R2	1164	29.3	45.2	36.7	30.0	5.1	9.8	6.0	31.2	66	6	30	1590	R
FiberMax FM 9170B2F	1160	28.3	49.9	35.8	29.3	4.8	10.5	6.0	28.6	73	5	28	1440	R
Stoneville ST 5458B2RF	1157	26.7	44.5	36.8	30.6	5.5	10.1	6.1	33.2	66	5	32	535	S
Stoneville ST 4288B2F	1137	25.6	47.6	34.0	27.5	5.6	10.5	5.7	33.6	79	4	30	265	S
All-Tex AT 81144 B2RF	1126	25.4	46.1	35.3	28.4	5.5	11.4	6.4	30.6	70	5	29	1170	R
Bayer CropScience BCSSX 1010B2F	1111	25.8	46.2	34.4	27.9	5.3	10.5	5.7	31.5	78	4	31	975	S
Americot AM 1532 B2RF	1105	26.0	47.3	33.4	26.9	5.1	11.3	5.9	28.8	78	5	31	1170	S
Deltapine DP 1032 B2RF	1105	28.2	44.3	38.3	31.1	4.8	8.8	5.8	31.6	76	4	28	1580	P
Stoneville ST 5288B2F	1098	27.3	47.8	36.5	29.4	4.8	8.9	5.2	33.6	79	5	29	1930	R
Croplan Genetics CG 3520B2RF	1097	25.1	46.5	34.1	27.2	4.9	9.9	5.3	31.2	80	4	30	300	S
Croplan Genetics CG 4020B2RF	1091	25.1	45.4	34.5	27.5	5.0	9.6	5.3	32.2	79	4	32	1440	S
NexGen NG35348 B2RF	1089	24.7	48.4	34.2	27.8	5.3	11.1	6.0	29.9	66	6	31	960	P
FiberMax FM 1845LLB2	1069	25.7	46.9	33.1	26.5	5.9	11.6	5.9	32.6	73	5	28	1320	P
Deltapine DP 164 B2RF	1060	27.9	47.0	38.1	30.2	5.0	9.1	5.3	35.9	75	4	31	2460	S
Bayer CropScience BCSSX 1030B2F	1052	27.1	44.2	36.9	29.9	4.9	9.5	5.7	31.5	80	4	28	2340	S
Monsanto 10R052B2R2	1036	28.8	41.3	39.3	31.1	5.0	9.1	6.1	32.1	58	4	29	385	S
FiberMax FM 1740B2RF	1034	26.1	45.1	36.0	29.5	4.9	10.3	6.0	29.1	81	5	30	4807	R
NexGen NG4010 B2RF	1033	25.6	47.0	35.5	28.1	4.7	9.4	5.3	30.9	76	5	29	2370	R
Croplan Genetics CG 3020B2RF	997	22.5	47.1	32.3	25.8	5.2	10.7	5.3	32.0	79	4	29	930	R

Table 31. Results of the pivot irrigated nematode variety test at the AG-CARES farm, Lamesa 2010

Designation	Yield	% Turnout			Agronomic Properties					% Open Bolls			Storm Resistance Height 9/27/10	RK/500cc soil	Bacterial Blight Rating ²
		% Lint		% Picked	% Lint Pulled		Boll Size	Seed Index	Lint Index	Seed per Boll	9/27/10				
		Lint	Seed	Picked	Lint	Pulled	Index	Index	Index	Boll					
Bayer CropScience BCSSX 1040B2F	990	22.4	46.4	31.1	26.0	5.9	11.1	5.3	34.7	80	5	31	1140	R	
NexGen NG2549 B2RF	987	25.2	47.5	33.9	27.8	4.5	9.7	5.3	29.2	73	7	31	1350	S	
PhytoGen PHY 375WRF	986	27.8	41.9	37.3	29.4	4.5	9.1	5.7	29.4	90	3	26	2015	R	
PhytoGen PHY 565WRF	976	24.2	42.8	35.6	28.5	4.8	9.4	5.5	30.9	79	4	31	2160	S	
Croplan Genetics CG 3220B2RF	963	26.6	46.3	35.2	28.6	5.3	10.2	5.7	32.5	75	5	31	3220	S	
Deltagene DP 1137B2RF	950	27.4	41.3	38.4	30.7	5.1	8.6	5.7	34.3	78	4	30	715	S	
Monsanto 09R637R2	947	28.1	43.5	38.5	29.8	4.8	9.5	6.1	30.3	80	4	28	820	S	
Deltagene DP 0935 B2RF	928	27.8	45.2	36.7	29.5	5.5	10.1	6.1	32.6	69	5	29	1680	S	
FiberMax FM 1773LLB2	900	24.2	46.9	33.9	27.2	5.6	11.4	6.0	31.9	73	5	29	1272	S	
Croplan Genetics CGX 1001B2RF	878	22.6	46.6	31.9	25.4	4.6	9.8	4.8	30.7	76	4	30	530	S	
Mean	1100	26.6	45.5	35.8	28.8	5.1	10.0	5.7	31.7	75	4	30			
c.v%	13.6	5.4	3.9	2.7	3.4	4.8	3.6	4.5	5.5	7.0	17.5	6.9			
LSD 0.05	209	2.0	2.5	2.0	2.0	0.5	0.7	0.5	3.5	7	1	3	MSD 3533		

²R-Resistant S-Susceptible P-Partial Resistance

Table 31A. Results of the pivot irrigated nematode variety test at the AG-CARES farm, Lamesa 2010.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
NexGen NG4111 RF	4.3	1.12	81.7	33.6	8.6	1	76.7	8.4	31-1,41-1
Deltapine DP 174 RF	4.3	1.11	80.8	30.7	8.1	2	75.9	8.2	31-1,41-3
PhytoGen PHY 519WRF	4.5	1.12	81.6	32.9	8.9	2	77.5	8.0	31-1,41-1
PhytoGen PHY 367WRF	4.3	1.13	81.7	32.3	8.5	2	78.5	8.1	31-1
Deltapine DP 1044 B2RF	4.2	1.13	81.9	32.7	9.2	3	78.5	7.6	31-1,31-2
NexGen NG4012 B2RF	4.3	1.14	81.9	32.8	6.7	3	74.6	7.3	41-1,41-2
Deltapine DP 1133 B2RF	4.7	1.10	81.3	32.0	9.1	1	76.5	7.9	31-1,41-1
PhytoGen PHY 569WRF	4.2	1.13	82.5	34.0	8.8	2	74.0	7.4	31-2,51-1
Croplan Genetics CG 3035RF	4.3	1.08	82.8	31.8	9.5	2	77.6	8.1	31-1,41-1
All-Tex AT Epic RF	4.5	1.09	82.0	32.4	9.3	2	77.7	8.3	31-1
NexGen NG3410 RF	3.7	1.14	81.5	32.8	7.7	4	77.6	8.0	31-1,41-1
Monsanto 09R348B2R2	4.2	1.06	81.5	29.2	7.4	4	76.9	6.9	41-1
FiberMax FM 9170B2F	4.2	1.13	81.0	32.3	7.3	3	79.3	7.3	31-1,31-2
Stoneville ST 5458B2RF	4.4	1.06	79.2	30.8	8.0	2	77.4	8.9	31-1,31-3
Stoneville ST 4288B2F	4.8	1.11	81.9	30.9	8.3	2	78.2	7.9	31-1
All-Tex AT 81144 B2RF	3.9	1.21	83.2	37.5	8.4	4	78.9	7.4	31-1,41-1
Bayer CropScience BC SX 1010B2F	4.3	1.13	81.3	31.3	6.9	1	79.8	7.9	21-2,31-2
Americot AM 1532 B2RF	4.6	1.10	80.0	28.8	7.8	1	78.8	7.6	21-2,41-1
Deltapine DP 1032 B2RF	4.3	1.14	81.3	32.2	7.5	2	79.1	7.5	31-1,31-2
Stoneville ST 5288B2F	4.4	1.08	79.9	29.8	8.5	2	77.9	7.0	41-1
Croplan Genetics CG 3520B2RF	4.3	1.12	81.6	30.3	8.9	3	76.7	7.8	31-1,41-1
Croplan Genetics CG 4020B2RF	4.4	1.12	81.9	29.8	8.2	3	77.2	7.5	31-2,41-1
NexGen NG3348 B2RF	4.1	1.11	81.4	31.4	7.6	3	79.1	8.0	21-2,31-2
FiberMax FM 1845LLB2	4.4	1.17	81.3	34.8	7.1	2	78.7	7.6	21-1,41-1
Deltapine DP 164 B2RF	4.0	1.09	79.6	30.1	7.5	2	79.6	7.4	31-1,31-2
Bayer CropScience BC SX 1030B2F	4.4	1.08	80.5	28.8	8.8	2	78.8	7.8	31-1,31-2
Monsanto 10R052B2R2	4.2	1.12	81.9	31.4	9.3	1	79.5	8.7	21-1,21-2
FiberMax FM 1740B2RF	4.6	1.09	81.6	31.2	7.8	2	78.1	7.6	31-1,41-1
NexGen NG4010 B2RF	4.5	1.15	82.1	34.0	8.0	2	77.6	7.9	31-1,41-1
Croplan Genetics CG 3020B2RF	3.9	1.08	81.2	29.8	9.0	2	78.3	7.8	31-1,31-2

Table 31A. Results of the pivot irrigated nematode variety test at the AG-CARES farm, Lamesa 2010.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade ^{1/}
Bayer CropScience BCSSX 1040B2F	4.6	1.22	83.8	33.4	6.9	5	75.7	7.2	41-1,41-2
NexGen NG2549 B2RF	4.2	1.04	81.0	30.2	8.8	4	76.5	8.4	31-1,41-1
PhytoGen PHY 375WRF	3.9	1.09	80.0	30.2	7.5	1	76.9	7.7	31-2,41-1
PhytoGen PHY 565WRF	4.2	1.13	82.3	33.5	8.7	2	76.8	7.9	31-1,41-1
Croplan Genetics CG 3220B2RF	4.4	1.10	82.4	31.9	9.0	1	76.1	8.2	31-1,41-1
Deltapine DP 1137 B2RF	4.5	1.07	80.9	28.7	8.7	1	75.9	8.4	31-2
Monsanto 09R637R2	4.5	1.08	82.1	29.8	9.7	1	76.4	7.7	31-1,41-2
Deltapine DP 0935 B2RF	4.5	1.07	81.3	30.7	8.2	3	78.5	7.8	31-1,31-2
FiberMax FM 1773LLB2	4.2	1.18	81.5	34.2	6.6	2	80.7	7.0	31-1,31-2
Croplan Genetics CGX 1001B2RF	4.4	1.09	80.8	29.8	8.1	2	75.1	8.1	41-1
Mean	4.3	1.11	81.4	31.6	8.2	2	77.6	7.8	
c.v.%	6.2	2.1	1.3	2.8	5.2	50.4	2.4	4.8	
LSD 0.05	0.5	0.05	2.1	1.8	0.9	2	3.8	0.8	

NOTES

Table 32. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2010.

Test: Bacterial Blight

Planting Date: May 11

Row Spacing: 40in

Planting Pattern: Solid

Herbicide: Prowl @ 1 qt/A applied pre plant

Fertilizer: 120-20-0 lbs/A applied pre-plant

Irrigations: 1.0 acre inches June 21
1.4 acre inches August 5

Bacterial Blight: Inoculums applied August 19

Insecticide: Temik @ 2.4 lbs/A at planting

Table 33. Ratings of the Bacterial Blight variety screening at Texas AgriLife Research, Lubbock 2010

Designation	% Blight	Rating
Croplan Genetics CG 3020 B2RF	0	resistant
Monsanto 09R348B2R2	0	resistant
Deltapine DP 1133 B2RF	0	resistant
PhytoGen PHY 375WRF	0	resistant
All-Tex AT 81144 B2RF	3	resistant
Bayer CropScience BCSX 1040B2F	4	resistant
FiberMax FM 9180B2F	10	resistant
FiberMax FM 1845LLB2	13	partially resistant
Deltapine DP 1032B2RF	35	partially resistant
FiberMax FM 1773LLB2	50	partially susceptible
All-Tex AT 81220 B2RF	75	susceptible
Bayer CropScience BCSX 1030B2F	83	susceptible
Deltapine DP 1044 B2RF	85	susceptible
All-Tex AT 81227 B2RF	87	susceptible
Croplan Genetics CG 3520B2RF	88	susceptible
Croplan Genetics CGX 1001B2RF	90	susceptible
Croplan Genetics CG 4020B2RF	92	susceptible
PhytoGen PHY 519WRF	95	susceptible
All-Tex AT 81158 RF	98	susceptible
All-Tex ATX 7A21	98	susceptible
Monsanto 09R637R2	98	susceptible
All-Tex ATX LA122	100	susceptible
Bayer CropScience BCSX 1010B2F	100	susceptible
Croplan Genetics CG 3035RF	100	susceptible
Croplan Genetics CG 3220B2RF	100	susceptible
Monsanto 09R532B2R2	100	susceptible
PhytoGen PHY 367WRF	100	susceptible
PhytoGen PHY 565WRF	100	susceptible
PhytoGen PHY 569WRF	100	susceptible
Stoneville ST 4554 B2RF	100	susceptible
Mean	67	
c.v.%	16.8	
LSD 0.05	17	