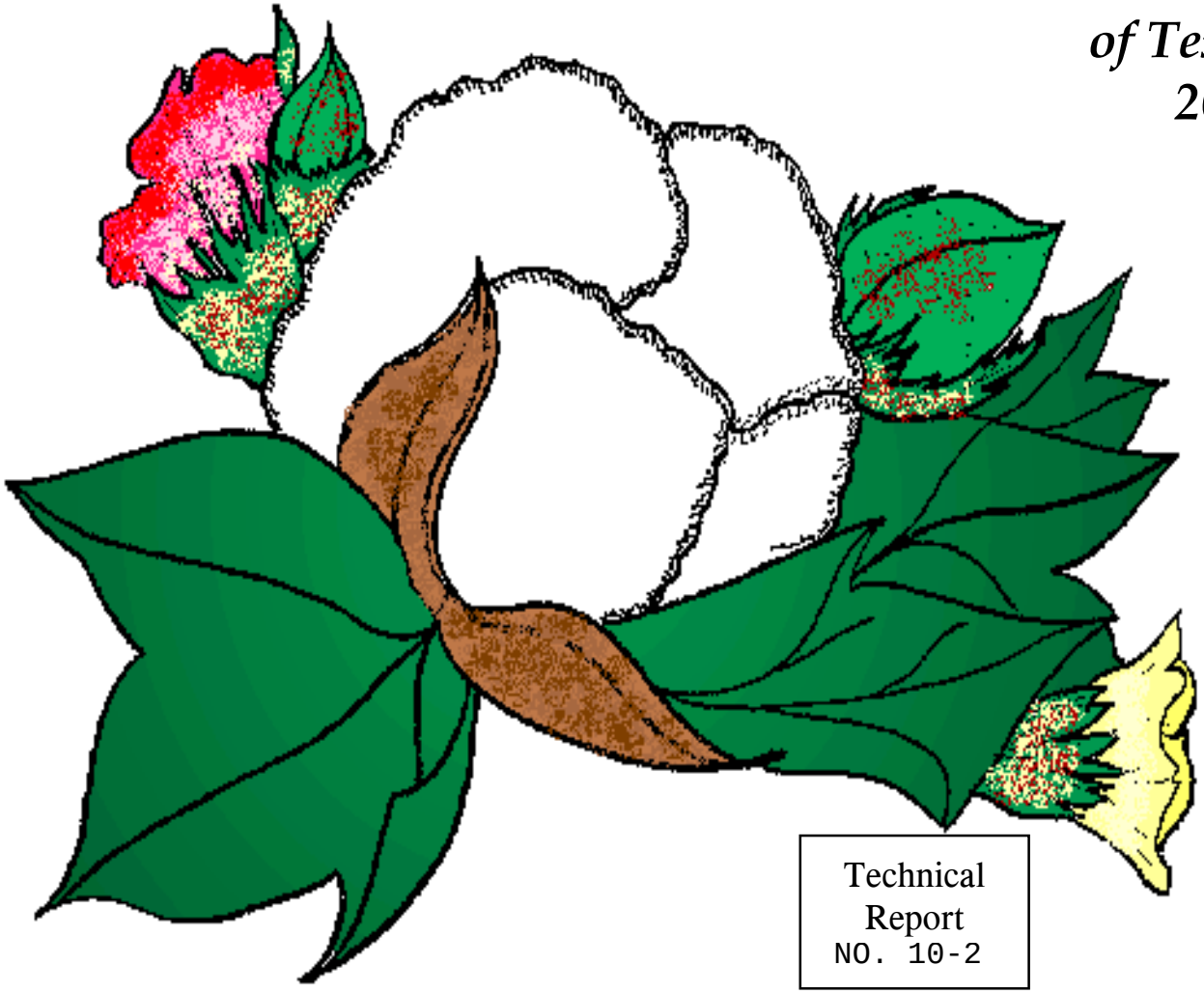
COTTON PERFORMANCE TESTS

in the Texas High Plains and Trans Pecos Areas of Texas 2009



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TEXAS AgriLife RESEARCH / CRAIG NESSLER, DIRECTOR
THE TEXAS A&M UNIVERSITY SYSTEM / COLLEGE STATION, TEXAS

Cotton Performance Tests in the Texas High Plains and Trans-Pecos Areas of Texas 2009[1/]

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INTRODUCTION

Cotton performance trials were conducted during 2009 at Lubbock, Halfway, and Pecos, Texas AgriLife Research Centers. 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 2009, approximately 3.4 million acres of cotton was planted. However, early-season dry weather followed by scattered hail storms resulted in approximately 764,000 or 22% of the acres failing. Of the failed acres, approximately 85% of these acres were dryland. The number of failed dryland acres would have been significantly higher if not for late June precipitation predominately south of Lubbock. Cotton that germinated from this rain event was late, but produced better than expected yields. Overall, approximately 60% of the standing crop acreage was irrigated. Extremely cool fall conditions hampered maturity of the crop north of Lubbock; much of this cotton produced very low micronaire. Yields across irrigated acreage was estimated at about 850 lbs/ac while dryland was expected to average about 450 lbs/ac. Approximately 3.9 million bales were harvest in 2009, up from 2008 when 3.5 million bales were harvested, but lower than the 5.41 million bales recorded in 2007.

The Tulia variety test location on the Dale Swinburn farm was lost due to hail. High temperatures near 50 °F the day before planting and 98 °F the day after planting the irrigated tests at Lubbock resulted in very skippy stands. As many plots that would allow maintenance of statistical integrity were discarded, but data should still be interpreted with care.

Insect pressure was relatively light in 2009 resulting in an estimated 1.7% reduction in yield. An estimated 72% of the crop received no foliar insecticide applications targeting insects in 2009.

As in recent years, thrips were the predominate pest and populations were unusually high south of Lubbock where they are traditionally low, while infestation levels from Lubbock north were mixed. Approximately 30% of the cotton acreage was treated preventatively with an in-furrow or seed applied insecticide for thrips management, while about 20% of the acres were treated for thrips with foliar insecticides. Of the 1.7% yield reduction due to insects, approximately 1.5% was attributed to thrips.

Cotton fleahopper and *Lygus* populations were low in 2009. In fact, cotton fleahoppers were a non-issue and undetectable until late-season when they can no longer impact yield. *Lygus* were problematic in isolated fields adjacent to alfalfa late in the season.

Aphids were common in very low numbers in most fields beginning in mid-August, but only posed threats in isolated situations where stands were skippy due to hail or the cotton was late maturing.

We experienced some threatening populations of bollworms mixed with low numbers of fall armyworms in non-Bt cotton, particularly in the southwestern area of the South Plains. Some fields required as many as 6 applications for these pests, but the average was 2 applications. Bollworms were common in high numbers throughout the High Plains, but in most areas late-planted corn and grain sorghum appeared to serve as trap crops for this pest, drawing them away from cotton.

Approximately 40% of our 2009 standing acres were planted to Bt varieties, which was down from 2008. This value would have been higher if more dryland acres would have survived.

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, James Balsamo, Matt Baskin, Natalia Castillo, Heather Elkins, Tyler Fairchild, Joe Flores, Johnny Fuentes, Casey Hardin, Brad Harris, Carol Kelly, Raina King, Josephine Kirch, David Locke, Jimmy Mabry, Jimmy Martinez, Juliana Osorio-Marin, Kim Peters, Galen Roberts, Lex Roberts, Lyndon Schoenhals, 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, Justin Carthel, 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.

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.

/1Fiber 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-trademark of Syngenta

Finish- Registered trademark of Bayer CropScience

Gramoxone-trademark of Syngenta

Layby Pro and Intruder-trademarks of Dupont

Temik- registered trademark of Bayer CropScience

Pix- trademark of BASF

Prep and Def-trademarks of Bayer CropScience

Prowl-trademark of BASF

Quadris-registered trademark of Syngenta

Roundup-registered trademark of Monsanto

Roundup Ready Flex-registered trademark of Monsanto

Treflan-registered trademark of Helena Chemical

Trust- Registered trademark of AgriSolutions

NOTES

Table 1. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	Uniform Variety
Planting Date:	May 12
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant Dual Magnum @ 1 1/3 pt/A and Caparol @ 2 ½ pt/A applied May 13
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	4.3 acre inches April 22 2.8 acre inches May 30 2.0 acre inches July 29 1.8 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Def @ 6oz/A October 14 Finish @ 24oz/A October 14
Harvest Date:	November 5
Freeze Date:	October 30

Table 2. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Lubbock 2009

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/25/09	Resistance	Height
Deltapine DP 0912 B2RF	2029	32.0	46.9	39.5	32.4	6.3	10.0	6.8	36.4	60	4	34
Hazera YD-1199	1978	25.4	48.1	33.8	28.8	5.1	11.5	6.2	27.4	24	3	37
Stoneville ST 5458B2RF	1964	32.6	46.6	40.1	33.4	6.6	10.3	7.3	36.5	25	5	32
Stoneville ST 4498B2RF	1900	29.7	45.5	39.5	32.2	6.5	10.2	7.0	36.6	36	3	29
FiberMax FM 1740B2F	1871	33.2	46.1	41.1	33.3	6.6	10.4	7.6	35.6	54	5	30
Deltapine DP 143 B2RF	1829	29.4	48.8	37.5	31.5	6.3	9.7	6.2	38.4	38	4	33
PhytoGen PHY 375 WRF	1821	31.8	45.8	41.2	33.8	6.0	10.3	7.6	29.7	35	3	33
Hazera YD-1198	1811	25.7	44.9	44.0	36.0	4.9	11.2	8.2	26.2	28	3	37
Seed Source Genetics SSG HQ 210 CT	1789	32.1	48.3	38.0	31.9	6.1	8.8	5.7	40.5	31	5	31
Deltapine DP 0935 B2RF	1782	30.7	45.2	41.5	33.4	6.9	10.3	7.6	37.8	39	6	33
All-Tex AT Patriot + RF	1741	26.0	47.4	36.7	29.6	6.6	10.4	6.3	38.9	43	4	31
Deltapine DP 0949 B2RF	1721	32.4	45.3	41.5	34.5	5.9	8.9	6.8	36.5	25	4	36
All-Tex AT Summit B2RF	1717	27.4	45.6	37.8	30.7	6.3	10.1	7.9	34.7	53	6	29
PhytoGen PHY 367 WRF	1682	30.4	43.6	39.8	31.7	5.7	9.5	6.6	34.1	45	3	30
Deltapine DP 0924 B2RF	1671	31.4	47.3	33.9	28.2	6.1	9.7	5.6	36.4	55	5	31
Croplan Genetics CG 3220B2RF	1658	30.3	46.8	40.5	32.8	6.0	10.1	7.2	33.8	51	4	32
FiberMax FM 958	1599	28.6	44.5	39.6	32.3	6.3	10.8	7.6	33.0	58	6	29
Stoneville ST 4288B2F	1589	28.8	45.7	35.0	28.8	6.4	10.4	6.2	36.1	41	4	27
Stoneville ST 5288B2F	1562	32.8	47.6	39.1	32.5	6.1	9.0	6.1	39.2	39	5	31
NexGen NG 1572 RF	1560	28.9	49.0	36.4	30.7	6.4	9.9	6.0	39.2	88	8	28
PhytoGen PHY 525 RF	1500	32.3	48.1	38.4	31.0	6.1	9.4	6.3	37.2	26	3	35
Croplan Genetics CG 3035RF	1479	32.4	45.6	40.3	33.5	6.5	10.1	7.1	36.4	55	4	31
FiberMax FM 1845LLB2	1478	29.4	46.0	38.3	31.0	6.9	11.5	7.5	34.9	48	6	29
NexGen NG 2448 R	1453	26.8	46.7	39.0	31.0	6.8	10.8	7.2	36.8	80	7	31
PhytoGen PHY 72	1424	29.3	46.0	37.2	32.2	6.1	10.2	6.4	35.4	55	2	29
Croplan Genetics CG 4020B2RF	1423	27.9	45.5	38.7	32.1	6.2	10.1	6.7	35.8	54	4	32
PhytoGen PHY 565 WRF	1423	25.8	45.1	38.2	31.7	5.6	8.5	5.6	38.2	20	4	35
FiberMax FM 9058F	1421	29.3	44.7	41.9	31.5	5.9	10.3	8.1	31.3	71	6	29
NexGen NG 3410 RF	1421	28.6	47.2	37.1	30.6	7.0	11.4	7.1	36.3	64	6	29
NexGen NG 2549 B2RF	1416	28.9	48.4	36.6	30.2	5.5	10.0	6.1	32.7	76	8	29
Deltapine DP 555 BG/RR	1390	31.1	46.2	42.0	34.9	5.5	7.9	5.9	39.3	34	4	35

Table 2. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Lubbock 2009

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/25/09	Resistance	Height
Deltapine DP 121 RF	1390	28.4	43.1	41.9	34.4	5.8	9.3	7.0	34.8	54	4	29
NexGen NG 3348 B2RF	1364	30.3	46.6	36.2	29.8	6.6	10.7	6.6	36.2	63	6	29
FiberMax FM 9160B2F	1355	30.0	44.8	39.0	33.2	6.4	9.6	6.4	39.1	54	6	31
All-Tex AT Epic RF	1347	30.2	44.2	41.2	33.7	6.4	9.8	7.2	36.9	31	5	33
Croplan Genetics CG 3020B2RF	1344	26.8	45.5	36.6	29.7	6.5	10.3	6.3	37.4	54	4	31
Bayer CropScience BCSX 1010B2F	1333	30.1	48.1	36.1	31.7	5.7	9.8	6.4	35.6	33	4	33
All-Tex AT Atlas RR	1325	26.2	48.9	34.6	28.1	6.7	11.4	6.5	36.0	71	7	31
FiberMax FM 9170B2F	1315	31.1	46.8	40.4	33.7	5.9	9.3	6.6	36.0	35	5	31
Deltapine DP 164 B2RF	1292	28.2	46.5	38.1	31.2	5.9	9.0	5.7	38.8	39	4	33
Seed Source Genetics SSG HQ 110 CT	1277	27.9	46.3	38.3	30.9	5.4	8.4	5.5	37.4	40	3	32
FiberMax FM 955LLB2	1270	27.5	46.1	37.4	30.4	7.1	12.3	7.5	35.0	45	6	30
All-Tex AT Orbit RF	1239	26.8	47.5	36.1	29.1	6.0	10.0	5.9	37.0	51	4	31
NexGen NG 1551 RF	1229	26.1	48.9	36.5	29.7	6.3	11.0	6.4	35.9	86	4	27
Croplan Genetics CG 3520B2RF	1196	28.0	45.9	37.6	30.8	5.9	9.8	6.2	35.9	54	4	29
Stoneville ST 4554B2RF	1185	31.3	44.6	40.5	35.3	6.5	10.7	7.7	34.6	38	3	32
FiberMax FM 9180B2F	1172	29.4	45.9	38.2	30.8	6.4	10.7	7.4	33.2	66	6	30
PhytoGen PHY 315 RF	1159	29.1	44.3	40.3	32.4	6.1	10.0	7.2	34.3	50	4	31
Americot AM 1532 B2RF	1137	28.8	46.1	35.8	29.0	6.1	10.2	6.2	35.1	54	4	31
All-Tex AT Apex B2RF	1065	28.4	46.3	37.5	29.9	5.8	10.0	6.3	34.7	50	4	33
Mean	1502	29.3	46.3	38.5	31.6	6.1	10.1	6.7	35.7	48	4.5	31
c.v.%	19.1	8.2	4.6	5.1	5.9	4.8	4.1	11.0	9.0	19.1	10.8	8.7
LSD 0.05	400	3.4	3.0	3.9	3.8	0.6	0.8	1.5	6.5	13	0.7	4

Table 2A. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 0912 B2RF	4.5	1.10	82.8	31.0	13.3	2	79.7	8.3	21-1,31-1
Hazera YD-1199	3.7	1.33	83.8	40.3	12.3	8	67.2	9.1	42-2,52-2
Stoneville ST 5458B2RF	4.9	1.11	81.1	31.3	11.7	5	77.1	8.5	31-1,41-1
Stoneville ST 4498B2RF	4.5	1.12	82.7	30.6	13.5	2	78.2	8.0	31-1
FiberMax FM 1740B2F	4.8	1.11	82.4	29.3	11.2	2	80.2	7.5	21-2,31-2
Deltapine DP 143 B2RF	3.9	1.14	79.9	28.7	11.9	3	79.3	7.4	31-1,31-2
PhytoGen PHY 375 WRF	4.7	1.12	82.0	28.6	12.1	2	79.6	7.9	21-1,31-2
Hazera YD-1198	4.0	1.25	82.0	39.4	11.6	8	66.4	9.5	42-2,53-1
Seed Source Genetics SSG HQ 210 CT	4.6	1.11	81.9	31.2	12.5	1	81.3	7.9	21-1,31-1
Deltapine DP 0935 B2RF	3.3	1.07	80.1	27.9	12.1	1	81.0	8.5	11-1,31-2
All-Tex AT Patriot + RF	4.2	1.14	82.1	30.6	12.4	2	79.0	8.1	21-1,41-1
Deltapine DP 0949 B2RF	4.6	1.09	82.3	29.4	12.9	2	80.2	8.0	21-1,31-1
All-Tex AT Summit B2RF	4.3	1.05	81.6	27.1	13.2	2	79.6	8.4	21-1,21-2
PhytoGen PHY 367 WRF	4.3	1.12	81.7	30.5	12.6	2	78.0	8.2	21-2,41-1
Deltapine DP 0924 B2RF	4.7	1.14	83.2	30.0	12.4	4	78.7	7.2	31-1,41-1
Croplan Genetics CG 3220B2RF	4.4	1.12	81.7	28.8	13.2	1	80.7	7.9	21-1,31-1
FiberMax FM 958	4.0	1.14	82.5	31.8	9.9	2	80.9	7.5	31-1
Stoneville ST 4288B2F	4.9	1.11	82.1	28.4	12.8	2	79.2	8.3	21-2,31-1
Stoneville ST 5288B2F	4.9	1.12	80.7	27.5	11.5	2	81.0	7.4	31-1
NexGen NG 1572 RF	3.3	1.12	81.4	28.9	11.9	5	80.1	6.6	31-2
PhytoGen PHY 525 RF	4.1	1.14	81.8	30.1	12.7	1	80.3	8.2	21-1,21-2
Croplan Genetics CG 3035RF	4.5	1.09	82.2	28.6	13.5	2	79.5	8.4	21-1,31-1
FiberMax FM 1845LLB2	4.3	1.16	82.9	32.3	11.9	2	80.4	8.1	31-1
NexGen NG 2448 R	3.9	1.13	83.7	33.6	12.4	3	79.6	7.8	21-2,31-2
PhytoGen PHY 72	4.4	1.18	83.2	33.6	12.0	2	75.6	7.5	31-1,51-1
Croplan Genetics CG 4020B2RF	4.3	1.15	83.1	28.4	13.0	1	81.2	7.9	21-1,31-1
PhytoGen PHY 565 WRF	3.5	1.09	81.0	28.0	14.5	1	81.5	9.2	11-1
FiberMax FM 9058F	3.9	1.10	80.5	29.8	11.6	3	79.6	7.6	31-1
NexGen NG 3410 RF	5.0	1.11	82.7	27.4	12.7	2	79.9	8.5	21-2
NexGen NG 2549 B2RF	3.8	1.07	82.9	30.0	12.8	4	78.7	7.7	31-1,31-2

Table 2A. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 555 BG/RR	3.9	1.07	79.8	27.8	11.2	2	83.0	7.8	11-2,21-1
Deltapine DP 121 RF	4.3	1.11	82.4	30.9	12.5	3	78.0	8.1	31-1
NexGen NG 3348 B2RF	4.3	1.11	82.7	30.3	12.9	2	79.9	7.9	31-1
FiberMax FM 9160B2F	4.2	1.15	82.5	30.6	10.4	2	81.6	7.5	21-2,31-1
All-Tex AT Epic RF	4.2	1.11	82.1	29.5	12.9	2	79.4	8.8	11-2,31-1
Croplan Genetics CG 3020B2RF	4.3	1.10	82.5	28.7	13.0	1	79.2	7.8	31-1,31-2
Bayer CropScience BCSX 1010B2F	3.9	1.11	81.6	27.1	11.6	2	81.1	8.8	11-1,21-2
All-Tex AT Atlas RR	4.7	1.06	81.9	28.8	12.7	2	78.4	7.3	31-2,41-1
FiberMax FM 9170B2F	3.3	1.15	81.0	31.6	11.1	3	81.8	7.5	11-1,31-2
Deltapine DP 164 B2RF	4.1	1.13	80.4	29.3	11.6	1	80.3	7.4	21-2,31-2
Seed Source Genetics SSG HQ 110 CT	4.3	1.14	81.8	31.0	12.3	2	79.7	7.8	21-1,31-2
FiberMax FM 955LLB2	3.7	1.15	81.4	28.3	11.3	2	82.0	8.5	11-1,21-1
All-Tex AT Orbit RF	4.1	1.16	83.2	29.2	14.0	1	80.4	8.0	21-2,31-1
NexGen NG 1551 RF	4.3	1.11	82.3	32.9	11.7	3	77.3	7.7	31-2,41-1
Croplan Genetics CG 3520B2RF	4.5	1.12	82.4	27.8	12.8	2	79.9	7.9	21-2,31-2
Stoneville ST 4554B2RF	4.6	1.10	82.8	31.1	14.5	2	79.4	8.4	21-2,31-1
FiberMax FM 9180B2F	4.5	1.12	82.4	30.6	11.7	3	81.8	7.6	21-1,31-1
PhytoGen PHY 315 RF	3.9	1.09	81.1	26.9	11.8	2	81.0	8.4	11-2,21-2
Americot AM 1532 B2RF	4.2	1.14	80.6	26.6	12.1	2	79.7	7.5	21-2,41-1
All-Tex AT Apex B2RF	4.0	1.11	80.4	27.2	12.2	2	79.9	8.3	21-1,31-1
Mean	4.2	1.12	82.0	30.0	12.3	2	79.3	8.0	
c.v.%	9.5	2.4	1.0	3.4	5.1	37.7	2.1	6.7	
LSD 0.05	0.8	0.05	1.7	2.1	1.3	2	3.4	1.1	

Table 3. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Lubbock, 2009.

Designation	2005	2006	2007	2008	2009	Average	Comp. Average*
			Five Year Average				
All-Tex AT Atlas RR	1234	1191	1091	1422	1253	1238	
Deltapine DP 555 BR	1303	1140	865	1958	1390	1331	
FiberMax FM 958	1359	1149	1381	1813	1599	1460	
NexGen 2448 R	1373	1266	1324	1639	1453	1411	
PhytoGen PHY 72	1026	1234	757	1648	1424	1218	
			Four Year Average				
All-Tex AT Apex RF		1439	1015	1902	1065	1355	1337
Croplan Genetics CG 3020B2RF		1227	905	1746	1344	1306	1288
Deltapine DP 121 RF		1669	1179	1953	1390	1548	1530
FiberMax FM 9058F		1456	1609	1937	1421	1606	1588
Stoneville STV 4554 B2RF		1476	1264	1962	1185	1472	1454
			Three Year Average				
Croplan Genetics CG 3035RF			901	1951	1479	1444	1375
Croplan Genetics CG 3220B2RF			944	2003	1658	1535	1466
Croplan Genetics CG 3520B2RF			1152	1735	1196	1361	1292
Croplan Genetics CG 4020B2RF			1030	1833	1423	1429	1360
Deltapine DP 164 B2RF			1287	1836	1292	1472	1403
FiberMax FM 9180B2F			1366	1964	1172	1501	1432

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

Table 4. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2009.

Test:	Uniform Variety
Planting Date:	May 19
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trifluralin @ 24 oz/A applied pre-plant
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	11.8 acre inches during season
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 1 qt/A +2oz E.T. +1% crop oil applied October 8
Harvest Date:	November 24
Freeze Date:	October 30

Table 5. Results of the pivot irrigated cotton variety test at Texas AgriLife Research, Halfway, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/15/09	Resistance	Height
Deltapine DP 0912 B2RF	1708	25.1	40.4	35.0	29.6	5.8	9.1	5.5	36.5	75	3	36
NexGen NG 1551 RF	1699	23.1	44.7	33.8	27.4	6.3	11.2	6.1	35.6	80	4	32
NexGen NG 3348 B2RF	1693	25.4	42.6	34.9	28.8	5.7	10.2	5.8	33.8	76	6	33
Croplan Genetics CG 3520B2RF	1665	23.9	42.5	36.3	28.9	5.1	9.9	5.7	32.4	80	5	33
NexGen NG 3410 RF	1662	23.9	43.9	35.5	29.2	6.1	11.1	6.4	33.5	78	7	33
NexGen NG 2549 B2RF	1625	24.5	43.9	34.7	28.2	4.8	9.5	5.3	31.3	80	7	35
FiberMax FM 1740B2F	1610	23.9	39.6	37.3	29.9	5.8	10.2	6.3	34.2	74	5	35
FiberMax FM 9160B2F	1592	23.7	42.3	36.6	30.0	5.6	9.9	6.0	34.5	70	5	37
All-Tex AT Patriot + RF	1588	23.0	44.5	31.8	24.9	5.3	9.7	4.9	34.4	73	7	32
Deltapine DP 121 RF	1577	25.6	41.8	37.4	28.6	5.2	9.0	5.7	34.4	80	4	36
PhytoGen PHY 72	1540	23.8	38.6	34.7	28.6	5.7	9.8	5.8	33.7	60	3	39
FiberMax FM 9058F	1538	24.5	43.6	34.3	27.6	5.7	9.9	5.7	34.4	78	6	33
Croplan Genetics CG 3035RF	1533	25.1	43.1	35.7	28.3	5.5	9.3	5.5	36.0	68	5	38
Stoneville ST 5288B2F	1533	23.0	42.1	33.1	26.7	5.1	9.1	4.8	34.9	65	5	35
Stoneville ST 4288B2F	1529	22.8	44.5	32.6	26.8	6.1	11.0	5.7	35.4	64	5	36
Croplan Genetics CG 3020B2RF	1525	23.6	43.8	34.2	27.4	5.8	10.2	5.7	34.8	74	5	34
FiberMax FM 958	1524	22.8	39.7	35.3	29.1	6.3	9.9	6.0	37.3	78	6	31
PhytoGen PHY 367 WRF	1521	24.3	43.2	35.1	26.9	5.2	9.6	5.6	32.1	59	4	34
Croplan Genetics CG 3220B2RF	1519	23.1	42.5	32.1	24.7	5.5	10.2	5.6	33.8	70	5	35
Stoneville ST 5458B2RF	1513	23.0	42.2	33.6	26.0	4.9	9.9	5.8	32.8	54	5	37
FiberMax FM 9170B2F	1511	22.2	40.9	33.9	26.8	5.1	9.8	5.7	31.9	54	5	37
Americot AM 1532 B2RF	1509	21.9	43.0	35.1	28.1	5.5	9.7	5.6	34.8	73	5	34
Stoneville ST 4554B2RF	1506	24.9	41.3	34.2	27.2	5.6	9.8	5.6	34.0	68	4	37
NexGen NG 2448 R	1506	25.3	44.3	35.1	29.2	6.1	10.4	6.0	35.9	83	8	30
Croplan Genetics CG 4020B2RF	1495	24.3	42.8	31.7	24.0	5.0	9.2	4.5	35.1	71	5	36
NexGen NG 1572 RF	1464	23.8	44.7	35.2	29.2	5.8	10.3	6.0	34.2	88	8	29
Hazera YD-1198	1430	22.7	40.4	34.4	29.3	5.2	11.4	6.7	26.9	46	3	38
Stoneville ST 4498B2RF	1422	23.6	42.1	35.8	28.7	5.5	9.8	5.8	33.7	69	4	36
All-Tex AT Epic RF	1420	24.2	40.4	34.4	26.0	4.6	9.3	5.0	31.5	64	5	38
PhytoGen PHY 315 RF	1411	23.1	43.0	37.4	30.5	5.3	9.6	5.5	34.5	61	4	39
PhytoGen PHY 525 RF	1409	25.3	42.6	36.5	29.7	4.4	9.0	5.5	29.2	46	4	44

Table 5. Results of the pivot irrigated cotton variety test at Texas AgriLife Research, Halfway, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/15/09	Resistance	Height
All-Tex AT Summit B2F	1407	21.6	43.2	32.9	26.0	5.4	10.1	5.4	32.9	79	6	34
Hazera YD-1199	1405	20.1	45.4	30.7	25.8	5.0	11.4	5.5	28.1	46	4	40
Deltapine DP 0949 B2RF	1391	23.1	39.1	35.6	28.7	5.0	9.0	5.2	34.1	51	5	38
Deltapine DP 0935 B2RF	1383	23.6	39.4	36.1	29.9	6.1	10.1	6.2	35.9	35	6	38
Deltapine DP 555 BG/RR	1371	23.8	41.5	32.8	26.0	4.6	7.9	3.9	35.2	45	5	41
FiberMax FM 9180B2F	1357	23.1	43.1	33.7	25.6	5.7	10.5	5.7	33.5	80	6	33
Deltapine DP 0924 B2RF	1347	22.9	42.1	37.0	30.1	5.5	10.2	6.2	33.0	61	4	38
PhytoGen PHY 565 WRF	1347	23.4	39.8	34.0	26.6	4.8	8.7	4.7	34.1	54	4	39
PhytoGen PHY 375 WRF	1346	23.2	40.9	36.1	29.1	5.5	8.6	5.3	37.1	74	4	38
Deltapine DP 143 B2RF	1327	21.0	43.0	29.0	24.0	5.2	8.9	4.0	37.7	56	4	39
All-Tex AT Atlas RR	1307	21.6	43.7	33.1	26.0	6.5	10.5	5.5	39.1	80	7	35
Deltapine DP 164 B2RF	1303	21.1	43.6	31.4	25.4	5.0	9.2	4.4	35.4	58	4	38
All-Tex AT Apex B2RF	1302	19.9	41.8	33.4	26.0	5.6	10.2	5.4	34.3	70	6	36
All-Tex AT Orbit RF	1206	21.4	44.4	30.8	23.5	4.9	9.2	4.4	34.4	79	5	33
FiberMax FM 1845LLB2	1147	21.3	42.5	33.9	27.2	6.1	10.2	5.5	37.5	56	5	33
Seed Source Genetics SSG HQ 210 CT	1127	20.8	44.7	32.7	26.5	5.6	9.8	5.0	37.0	40	4	37
Bayer CropScience BCSX 1010B2F	1099	19.7	41.9	27.7	21.1	5.2	9.8	4.3	35.3	54	5	38
Seed Source Genetics SSG HQ 110 CT	819	18.4	38.4	32.4	26.3	4.8	9.6	5.0	31.0	39	4	37
FiberMax FM 955LLB2	638	16.7	42.9	33.2	24.5	5.8	11.5	5.7	34.0	43	5	34
Mean	1428	22.9	42.3	34.1	27.3	5.4	9.8	5.4	34.1	65	5	36
c.v.%	13.3	5.5	5.1	4.7	5.2	7.1	5.7	10.4	6.2	15.1	10.0	8.3
LSD 0.05	265	1.8	3.0	3.3	2.9	0.8	1.1	1.1	4.3	14	1	4

Table 5A. Results of the pivot irrigated cotton variety test at Texas AgriLife Research, Halfway, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 0912 B2RF	2.7	1.12	80.3	26.9	7.9	3	80.9	8.5	21-1
NexGen NG 1551 RF	3.5	1.13	82.7	31.1	7.7	3	79.9	8.4	21-2
NexGen NG 3348 B2RF	3.3	1.17	83.7	30.1	8.1	4	79.7	8.1	21-2,31-1
Croplan Genetics CG 3520B2RF	3.0	1.18	82.0	26.8	8.5	3	80.7	8.3	21-1
NexGen NG 3410 RF	2.8	1.20	81.2	28.4	6.4	3	79.8	7.9	21-1,31-2
NexGen NG 2549 B2RF	2.9	1.11	82.9	28.6	8.1	4	80.5	7.9	21-2
FiberMax FM 1740B2F	2.6	1.14	80.9	28.1	7.7	3	82.5	7.8	21-1
FiberMax FM 9160B2F	2.6	1.22	81.8	29.4	5.8	2	83.2	6.9	21-2
All-Tex AT Patriot + RF	3.0	1.19	82.1	28.8	8.4	3	81.4	8.1	21-1
Deltapine DP 121 RF	3.3	1.17	82.4	28.3	7.6	2	80.9	8.0	21-1,21-2
PhytoGen PHY 72	3.7	1.21	82.8	31.0	7.5	2	80.6	7.8	21-1,31-1
FiberMax FM 9058F	2.5	1.19	79.9	28.0	6.4	3	83.1	7.4	21-1
Croplan Genetics CG 3035RF	2.7	1.14	81.0	26.3	8.8	2	81.3	8.9	11-1,21-1
Stoneville ST 5288B2F	2.5	1.15	79.5	26.5	7.1	3	81.5	7.7	21-1,21-2
Stoneville ST 4288B2F	2.7	1.18	81.3	28.7	6.7	2	78.0	9.8	21-3,22-1
Croplan Genetics CG 3020B2RF	2.8	1.15	81.3	26.6	7.1	1	82.4	7.9	11-2,21-1
FiberMax FM 958	2.8	1.19	81.4	29.7	6.3	2	81.7	7.9	21-1,21-2
PhytoGen PHY 367 WRF	2.9	1.17	80.8	26.8	7.9	2	80.3	8.8	21-1
Croplan Genetics CG 3220B2RF	3.0	1.15	81.1	26.9	7.9	2	81.6	8.7	11-2
Stoneville ST 5458B2RF	3.0	1.19	80.6	29.1	7.2	3	78.9	9.2	21-1,21-4
FiberMax FM 9170B2F	2.4	1.20	80.0	27.5	6.4	3	82.0	8.2	11-1,21-2
Americot AM 1532 B2RF	2.9	1.17	80.5	26.2	7.5	3	81.2	8.0	21-1
Stoneville ST 4554B2RF	3.1	1.14	80.8	26.5	8.1	3	81.2	8.5	11-2,21-1
NexGen NG 2448 R	3.1	1.13	82.0	30.1	7.7	2	81.8	7.8	21-1
Croplan Genetics CG 4020B2RF	2.8	1.18	80.7	26.5	7.4	2	82.2	8.0	21-1
NexGen NG 1572 RF	2.5	1.16	80.4	27.7	7.4	5	81.2	6.7	31-1,31-2
Hazera YD-1198	3.1	1.26	81.9	34.5	7.3	8	69.6	10.5	43-1
Stoneville ST 4498B2RF	2.8	1.16	81.0	27.6	7.9	3	79.9	9.2	21-1
All-Tex AT Epic RF	2.7	1.13	80.6	26.6	8.5	2	81.6	8.6	11-1,21-1
PhytoGen PHY 315 RF	2.5	1.12	80.0	24.5	7.0	3	80.7	9.1	11-1,21-1

Table 5A. Results of the pivot irrigated cotton variety test at Texas AgriLife Research, Halfway, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
PhytoGen PHY 525 RF	2.6	1.15	79.1	26.2	8.3	1	80.8	9.4	11-1,21-1
All-Tex AT Summit B2F	2.7	1.13	81.3	25.5	8.4	2	82.4	7.7	21-1
Hazera YD-1199	3.0	1.31	82.6	35.8	6.6	6	70.6	10.3	32-2,43-1
Deltapine DP 0949 B2RF	2.8	1.18	81.6	27.7	8.2	3	80.4	8.5	21-1
Deltapine DP 0935 B2RF	3.0	1.13	79.7	26.8	6.7	1	81.1	9.8	11-1,11-3
Deltapine DP 555 BG/RR	2.6	1.15	79.3	26.0	6.7	3	83.3	7.7	11-1,21-1
FiberMax FM 9180B2F	2.8	1.18	80.1	28.8	6.5	2	82.6	7.3	21-1,21-2
Deltapine DP 0924 B2RF	2.8	1.16	81.0	27.5	8.1	4	79.8	8.6	21-1,31-1
PhytoGen PHY 565 WRF	2.7	1.17	80.5	29.1	8.5	3	79.7	8.8	21-1,21-2
PhytoGen PHY 375 WRF	3.0	1.14	81.1	26.5	7.9	2	81.0	8.5	11-2,21-1
Deltapine DP 143 B2RF	2.4	1.18	78.7	26.7	7.1	4	81.1	7.8	21-1,31-1
All-Tex AT Atlas RR	2.9	1.11	82.3	28.3	8.8	3	80.8	8.2	21-1,21-2
Deltapine DP 164 B2RF	2.7	1.19	81.2	28.0	7.3	3	80.9	8.3	21-1
All-Tex AT Apex B2RF	2.6	1.18	81.0	25.7	7.9	2	82.8	8.1	11-2,21-1
All-Tex AT Orbit RF	2.8	1.18	80.8	26.8	8.6	2	81.9	8.1	21-1
FiberMax FM 1845LLB2	2.9	1.25	81.7	30.6	6.9	3	82.7	7.6	21-1
Seed Source Genetics SSG HQ 210 CT	2.4	1.15	80.6	27.3	7.4	2	82.4	8.4	11-1,11-2
Bayer CropScience BCSX 1010B2F	2.3	1.16	78.8	25.9	6.7	3	80.8	8.9	11-1,21-1
Seed Source Genetics SSG HQ 110 CT	2.3	1.14	79.4	25.4	7.5	2	79.9	9.5	12-1,21-1
FiberMax FM 955LLB2	2.2	1.17	79.3	25.7	6.1	3	80.9	9.0	11-1,21-1
Mean	2.8	1.17	80.9	27.9	7.5	3	80.7	8.4	
c.v.%	7.0	2.0	1.1	3.3	6.4	28.9	1.0	5.1	
LSD 0.05	0.4	0.05	1.7	1.8	1.0	2	1.6	0.9	

Table 6. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Halfway, TX, 2009.

Designation	2006	2007	2008	2009	Average	Comp. Average*
			Four Year Average			
Croplan Genetics 3020B2RF	1522	951	991	1525	1247	
FiberMax FM 958	1843	1038	1017	1524	1356	
FiberMax FM 9058F	1720	971	1065	1538	1324	
NexGen NG 2448 R	1478	865	937	1506	1197	
			Three Year Average			
Croplan Genetics CG 3035RF		1073	987	1533	1198	1318
Croplan Genetics CG 3220B2RF		970	917	1519	1135	1255
Croplan Genetics CG 4020B2RF		946	974	1495	1138	1258
Deltapine DP 121 RF		1033	1042	1577	1217	1337
Deltapine DP 143 B2RF		903	836	1327	1022	1142
FiberMax FM 1740B2F		1103	1003	1610	1239	1359
FiberMax FM 9180B2F		970	1100	1357	1142	1262
Seed Source Genetics SSG HQ 210 CT		944	946	1127	1006	1126

* 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 2009.

Test:	Uniform Variety
Planting Date:	May 18
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @ 1 ½ pt/A applied pre plant Caparol @1.5 pt/A applied May 22
Fertilizer:	10-30-0 @120 lbs/A applied pre-plant 32-0-0 @ 30 lbs/A applied July 12 (fertigation) 32-0-0 @ 30lbs/A applied July 26 (fertigation) 32-0-0 @ 30lbs/A applied August 10 (fertigation) 32-0-0 @ 30lbs/A applied August 24 (fertigation)
Irrigations:	4.39 acre-in applied pre-plant 9.08 acre-in applied May-September
Growth Regulator:	Pix @ 16oz/A applied July 26
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 21 oz/A + 1% crop oil October 7 Gramoxone Inteon @ 24 oz/A October 21
Harvest Date:	November 2
Freeze Date:	October 30

Table 8. Results of the drip irrigated cotton variety test at the AG-CARES farm, Lamesa, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/6/09	Resistance	Height
PhytoGen PHY 367 WRF	1948	30.0	45.7	38.4	30.5	5.3	9.5	6.4	32.1	79	4	36
Stoneville ST 4288B2F	1815	28.5	48.2	36.3	29.8	5.9	11.6	7.2	29.7	84	5	32
Stoneville ST 4498B2RF	1728	29.8	46.7	40.0	32.6	5.9	9.8	6.9	33.7	84	4	33
Stoneville ST 5458B2RF	1657	31.0	47.0	38.7	31.7	5.8	9.9	6.8	33.3	83	5	34
Croplan Genetics CG 3520B2RF	1610	30.2	46.5	37.4	29.5	5.2	9.7	6.2	31.1	85	4	33
Deltapine DP 121 RF	1602	30.4	44.4	40.6	32.5	5.5	9.5	6.9	32.3	84	4	34
PhytoGen PHY 315 RF	1596	29.1	45.8	40.6	32.6	5.5	9.6	7.1	31.7	84	3	32
Stoneville ST 4554B2RF	1594	30.0	46.1	38.1	31.3	5.7	10.0	6.8	31.9	83	4	35
PhytoGen PHY 375 WRF	1586	30.2	44.4	39.6	32.3	5.4	9.5	6.7	32.3	83	3	35
Croplan Genetics CG 3220B2RF	1579	31.1	47.8	39.3	31.6	5.4	10.1	6.9	30.5	85	4	32
Deltapine DP 0912 B2RF	1562	28.7	45.7	39.8	33.0	5.7	9.3	6.7	33.7	90	3	33
FiberMax FM 9170B2F	1562	31.4	44.0	37.9	31.4	5.7	10.6	7.0	30.7	80	5	31
Hazera YD-1198	1562	25.3	44.3	32.5	25.2	4.4	11.0	6.2	22.9	74	3	39
PhytoGen PHY 565 WRF	1557	29.7	45.6	41.5	34.6	5.1	9.0	6.6	32.5	79	4	35
Deltapine DP 164 B2RF	1553	29.7	49.5	36.3	29.9	5.4	9.2	5.6	34.6	79	4	34
PhytoGen PHY 525 RF	1536	30.1	47.2	38.7	31.5	5.3	9.6	6.5	31.5	76	4	36
Croplan Genetics CG 4020B2RF	1529	27.8	47.2	38.0	30.7	5.7	10.1	6.5	33.2	85	4	34
Deltapine DP 0924 B2RF	1524	30.6	46.4	40.0	32.0	5.4	9.5	6.7	32.0	83	4	32
Croplan Genetics CG 3035RF	1509	32.5	45.8	41.9	34.3	6.1	9.8	7.5	34.5	83	4	33
Stoneville ST 5288B2F	1499	30.1	45.3	38.4	31.7	5.2	8.9	6.0	33.4	83	5	35
Deltapine DP 143 B2RF	1458	28.0	47.0	36.9	30.6	5.5	9.6	6.0	33.7	81	5	32
FiberMax FM 1740B2F	1426	30.8	44.8	41.1	33.3	5.7	10.4	7.5	31.1	88	5	30
Deltapine DP 0935 B2RF	1418	31.4	44.6	41.0	32.7	6.0	9.9	7.4	33.4	78	6	35
FiberMax FM 9160B2F	1418	29.5	46.8	38.8	31.8	5.5	10.6	7.2	29.7	84	5	32
Deltapine DP 0949 B2RF	1405	28.6	43.5	41.9	34.4	5.7	9.4	7.2	33.1	74	4	36
Deltapine DP 555 BG/RR	1390	32.4	47.0	39.6	33.2	5.1	8.3	6.0	33.9	74	5	38
All-Tex AT Patriot + RF	1383	27.6	48.4	35.6	28.6	5.4	10.6	6.2	31.0	83	4	29
FiberMax FM 9180B2F	1382	28.6	48.5	36.7	29.4	6.1	11.4	7.1	31.4	89	6	27
All-Tex AT Apex B2RF	1382	29.4	46.9	38.8	30.4	5.3	9.5	6.4	32.2	84	4	32
All-Tex AT Summit B2F	1372	26.9	45.3	37.8	30.3	5.6	10.3	6.7	31.6	88	4	31
Americot AM 1532 B2RF	1365	29.0	46.1	40.7	32.6	5.5	10.0	7.0	31.6	88	4	32

Table 8. Results of the drip irrigated cotton variety test at the AG-CARES farm, Lamesa, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/6/09	Resistance	Height
All-Tex AT Orbit RF	1365	27.0	49.6	34.6	27.4	5.2	10.2	5.7	31.3	80	4	35
NexGen NG 3410 RF	1358	29.4	47.1	36.1	29.7	6.2	11.7	7.1	31.6	86	5	31
NexGen NG 1572 RF	1351	29.1	50.0	34.0	28.2	5.4	11.6	6.4	28.6	94	7	29
Bayer CropScience BCSX 1010B2F	1347	29.0	46.6	36.0	29.0	5.8	10.7	8.0	32.3	85	4	33
FiberMax FM 1845LLB2	1347	26.5	46.5	39.2	31.6	6.5	11.3	7.5	34.0	78	6	31
Hazera YD-1199	1339	22.9	48.0	33.4	27.4	4.7	11.2	6.0	26.0	70	4	41
Seed Source Genetics SSG HQ 110 CT	1329	28.2	47.1	37.8	30.4	5.1	9.3	6.0	32.0	80	3	31
NexGen NG 3348 B2RF	1328	30.4	46.8	35.9	29.6	5.8	11.2	6.8	30.4	88	5	30
Croplan Genetics CG 3020B2RF	1326	29.0	45.5	37.3	30.0	5.5	10.1	6.5	31.9	85	4	33
FiberMax FM 955LLB2	1312	27.0	48.2	35.6	28.4	6.7	11.7	6.8	35.2	80	6	32
FiberMax FM 9058F	1301	28.9	46.4	37.6	30.2	5.8	10.8	7.0	31.5	89	6	28
Seed Source Genetics SSG HQ 210 CT	1288	26.9	49.0	37.7	30.9	5.6	9.0	5.7	37.2	79	5	28
NexGen NG 2549 B2RF	1277	28.0	47.5	33.9	28.5	5.1	10.5	6.1	29.5	89	6	28
NexGen NG 2448 R	1275	27.5	49.7	35.3	28.7	5.5	10.7	6.2	31.1	93	6	31
FiberMax FM 958	1274	28.9	46.3	37.0	29.9	6.1	11.1	7.0	32.0	90	6	27
NexGen NG 1551 RF	1246	27.8	49.7	33.7	26.9	5.3	11.5	6.3	28.6	89	3	30
All-Tex AT Epic RF	1153	30.9	46.3	40.3	33.4	6.3	10.1	7.4	34.2	83	5	36
PhytoGen PHY 72	1107	28.2	47.5	41.9	33.8	6.2	10.4	7.3	35.6	84	2	31
All-Tex AT Atlas RR	1022	25.6	47.6	33.6	26.7	5.5	11.8	6.4	28.7	91	6	32
Mean	1437	29.0	46.7	37.8	30.7	5.6	10.2	6.7	31.8	83	4	32
c.v.%	13.9	5.0	3.0	4.8	4.6	4.7	4.3	8.2	4.9	3.3	11.5	7.4
LSD 0.05	280	2.0	2.0	3.6	2.9	0.5	0.9	1.1	3.1	4	1	3

Table 8A. Results of the drip irrigated cotton variety test at the AG-CARES farm, Lamesa, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
PhytoGen PHY 367 WRF	4.4	1.14	82.8	29.2	8.6	2	79.7	8.1	21-1,31-1
Stoneville ST 4288B2F	4.4	1.11	81.9	28.9	8.2	2	80.6	8.5	21-1
Stoneville ST 4498B2RF	4.8	1.10	83.0	30.2	8.8	3	79.4	8.0	21-2,31-1
Stoneville ST 5458B2RF	4.6	1.13	81.0	29.9	7.4	4	77.7	8.2	31-1,31-2
Croplan Genetics CG 3520B2RF	4.7	1.13	82.6	27.7	7.3	4	79.0	7.3	31-2
Deltapine DP 121 RF	4.8	1.12	83.0	28.2	8.4	2	79.8	7.6	31-1,31-2
PhytoGen PHY 315 RF	4.5	1.14	82.4	30.8	7.5	2	79.1	7.7	31-1,31-2
Stoneville ST 4554B2RF	4.9	1.12	82.7	29.2	9.5	3	78.6	8.0	31-1,31-2
PhytoGen PHY 375 WRF	4.4	1.09	81.2	27.2	8.1	2	78.8	7.6	31-1,31-2
Croplan Genetics CG 3220B2RF	4.7	1.11	83.0	28.5	7.8	3	79.3	8.1	21-2,31-1
Deltapine DP 0912 B2RF	5.1	1.09	81.9	27.9	7.7	3	79.1	7.2	31-1,31-2
FiberMax FM 9170B2F	4.8	1.12	81.9	29.9	6.5	2	80.3	7.8	21-2,31-1
Hazera YD-1198	3.3	1.26	82.5	37.8	6.9	8	67.2	9.5	42-1,52-1
PhytoGen PHY 565 WRF	4.3	1.13	82.3	29.1	9.2	3	79.5	8.0	21-2,31-1
Deltapine DP 164 B2RF	4.4	1.15	82.1	28.9	7.1	1	81.5	7.3	21-2,31-1
PhytoGen PHY 525 RF	4.2	1.15	81.7	29.1	8.2	2	80.2	8.0	21-1,31-1
Croplan Genetics CG 4020B2RF	4.2	1.13	81.5	26.9	8.1	1	80.2	8.0	21-2
Deltapine DP 0924 B2RF	4.9	1.10	82.5	28.4	7.4	3	80.4	7.4	21-2,31-2
Croplan Genetics CG 3035RF	4.7	1.10	83.2	28.9	9.3	1	80.2	8.5	21-1,21-2
Stoneville ST 5288B2F	4.5	1.11	82.0	27.7	7.8	2	81.2	7.5	21-2,31-1
Deltapine DP 143 B2RF	3.7	1.15	80.6	28.5	7.4	3	80.8	7.8	21-2,31-1
FiberMax FM 1740B2F	3.9	1.08	81.0	27.7	7.3	2	80.2	7.7	21-2,31-1
Deltapine DP 0935 B2RF	4.6	1.07	81.2	27.3	7.7	2	80.4	8.1	21-1,31-1
FiberMax FM 9160B2F	4.3	1.15	83.4	29.9	5.9	3	80.5	7.1	31-1
Deltapine DP 0949 B2RF	4.1	1.14	82.2	30.1	7.2	3	79.8	7.5	21-2,31-2
Deltapine DP 555 BG/RR	3.9	1.10	81.0	28.4	6.7	2	82.2	6.9	21-2,31-1
All-Tex AT Patriot + RF	4.5	1.13	82.2	28.3	8.2	1	80.4	7.6	31-1
FiberMax FM 9180B2F	4.3	1.17	82.5	31.0	6.7	3	81.6	7.3	21-2,31-1
All-Tex AT Apex B2RF	4.5	1.12	81.7	27.0	7.9	3	80.4	8.0	21-1,31-1
All-Tex AT Summit B2F	4.4	1.11	82.0	27.2	8.4	2	81.1	7.4	21-2,31-1

Table 8A. Results of the drip irrigated cotton variety test at the AG-CARES farm, Lamesa, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Americot AM 1532 B2RF	4.6	1.13	81.7	26.5	8.4	2	80.1	7.6	31-1
All-Tex AT Orbit RF	4.2	1.17	82.5	29.6	8.8	1	80.9	7.4	21-2,31-1
NexGen NG 3410 RF	3.9	1.18	82.1	30.4	6.3	3	80.5	7.1	21-1,41-1
NexGen NG 1572 RF	3.6	1.12	82.0	28.1	7.1	4	80.2	7.0	31-1,31-2
Bayer CropScience BCSX 1010B2F	4.3	1.11	81.2	27.0	7.3	2	80.6	8.1	21-1,21-2
FiberMax FM 1845LLB2	4.4	1.19	82.7	30.7	6.1	2	81.0	7.6	21-1,31-2
Hazera YD-1199	3.3	1.35	83.8	38.5	7.9	8	67.0	8.9	52-1
Seed Source Genetics SSG HQ 110 CT	Samples lost in ginning process								
NexGen NG 3348 B2RF	4.1	1.11	82.5	29.4	7.7	3	79.2	7.6	31-1
Croplan Genetics CG 3020B2RF	4.6	1.08	82.5	26.7	8.1	2	79.8	7.3	31-1,31-2
FiberMax FM 955LLB2	4.4	1.18	82.5	31.1	6.1	4	80.5	7.6	21-2,31-1
FiberMax FM 9058F	4.4	1.16	83.0	30.4	5.4	3	81.1	7.2	31-1
Seed Source Genetics SSG HQ 210 CT	3.8	1.09	81.0	30.2	7.8	2	82.2	7.5	11-1,31-1
NexGen NG 2549 B2RF	4.2	1.07	82.6	28.3	8.0	4	78.4	7.5	31-1,41-1
NexGen NG 2448 R	4.0	1.11	82.7	30.5	8.0	2	80.1	7.9	21-1,31-1
FiberMax FM 958	4.7	1.13	82.0	30.6	5.6	2	81.3	7.4	21-2
NexGen NG 1551 RF	4.7	1.10	81.7	30.6	6.8	2	78.3	7.6	31-1,31-2
All-Tex AT Epic RF	4.5	1.11	83.2	28.0	8.5	3	80.3	8.3	21-1,21-2
PhytoGen PHY 72	4.2	1.17	83.0	31.1	7.5	3	80.5	7.7	31-1
All-Tex AT Atlas RR	4.4	1.08	82.3	29.5	8.1	5	79.1	7.3	31-1,41-1
Mean	4.3	1.13	82.2	29.3	7.6	2	79.6	7.7	
c.v.%	8.0	2.3	0.9	4.1	7.6	42.8	1.5	4.9	
LSD 0.05	0.7	1.05	1.4	2.4	1.1	2	2.4	0.7	

Table 9. Yield summary of the drip irritgated cotton variety test at the AG-CARES farm, Lamesa, TX, 2009.

Name	2005	2006	2007	2008	2009	Average	Comp. Average*
FiberMax FM 958	1451	1519	1509	1327	1274	1416	
All-Tex AT Apex B2RF		1820	1741	1766	1382	1677	1686
Croplan Genetics CG 3220B3RF		1500	1503	1727	1579	1577	1586
Deltapine DP 121RF		1791	1535	1867	1602	1699	1708
Stoneville STV 4554 B2RF		1363	1810	1574	1594	1585	1594
Croplan Genetics CG 3035RF			1408	1757	1509	1558	1604
Croplan Genetics CG 3520B2RF			1463	1569	1610	1547	1593
Croplan Genetics CG 4020B2RF			1411	1581	1529	1507	1553
FiberMax FM 955LLB2			1270	1354	1312	1312	1358
FiberMax FM 1740B2F			1612	1670	1426	1569	1615
FiberMax FM 9180B2F			1418	1492	1382	1431	1477
Seed Source Genetics SSG HQ 210 CT			1295	1381	1288	1321	1367

*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 2009.

Test:	Uniform Variety
Planting Date:	May 7
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre-plant
Fertilizer:	80-0-0 lbs/A applied pre-plant
Rainfall:	7.8 inches during season
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Finish @ 24 oz/A + Ginstar @ 6 oz/A applied September 21 Gramoxone @ 32 oz/A September 29
Harvest Date:	October 16
Freeze Date:	October 30

Table 11. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, 2009.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/11/09	Resistance	Height
Hazera YD-1199	846	25.9	49.8	30.0	23.5	4.2	11.1	5.3	24.1	28	5	24
PhytoGen PHY 375 WRF	789	29.3	43.1	43.9	35.4	4.2	8.0	5.7	32.4	63	4	23
Stoneville ST 5458B2RF	775	31.4	44.4	37.4	30.1	5.1	9.2	6.0	32.0	44	5	20
Hazera YD-1198	775	25.2	45.1	32.9	26.2	3.8	9.5	5.3	23.5	33	4	25
Deltapine DP 0935 B2RF	764	31.8	42.9	39.8	31.3	5.2	9.1	6.5	31.8	33	6	22
Deltapine DP 0912 B2RF	721	29.2	45.1	35.8	28.0	4.7	8.3	5.2	32.9	59	4	21
All-Tex AT Epic RF	701	31.8	43.7	39.6	31.7	4.6	8.6	6.0	30.5	48	5	23
FiberMax FM 958	698	27.8	44.7	37.0	28.1	4.4	8.7	6.0	27.2	68	6	21
Deltapine DP 0949 B2RF	687	31.6	42.0	37.1	28.7	3.9	7.9	5.2	27.6	48	4	23
FiberMax FM 1740B2F	681	29.7	44.9	36.5	27.9	3.9	7.5	4.7	30.3	64	6	19
FiberMax FM 955LLB2	675	28.7	46.8	34.7	27.9	5.1	10.2	5.9	29.9	49	6	20
Croplan Genetics CG 3220B2RF	671	29.6	45.9	36.7	29.4	5.0	8.9	5.6	32.9	48	5	21
FiberMax FM 9058F	668	27.9	44.6	34.7	27.1	4.4	8.9	5.2	29.5	76	7	21
Americot AM 1532 B2RF	666	28.4	45.9	35.7	27.5	4.2	8.0	4.9	31.4	51	5	21
Stoneville ST 5288B2F	665	29.5	44.6	37.4	29.2	4.0	7.7	5.1	30.0	55	4	21
Seed Source Genetics SSG HQ 210 CT	663	29.0	46.4	37.0	29.9	4.8	8.0	5.1	35.1	35	5	21
All-Tex AT Apex B2RF	654	28.2	46.2	36.5	28.9	4.2	8.3	5.1	30.1	58	6	21
NexGen NG 1572 RF	652	26.4	48.9	31.8	25.1	4.4	9.2	4.7	29.6	61	6	19
Deltapine DP 143 B2RF	640	28.6	46.6	35.2	28.2	4.6	7.9	4.7	34.4	40	5	21
Stoneville ST 4498B2RF	640	27.8	43.8	34.9	27.1	4.5	8.5	5.1	30.6	50	4	20
Croplan Genetics CG 3035RF	635	31.9	45.6	39.2	31.6	4.8	8.4	5.8	32.3	43	5	21
Deltapine DP 555 BG/RR	634	31.5	43.6	40.5	33.1	3.7	7.0	5.3	28.1	38	5	23
Bayer CropScience BCSX 1010B2F	630	28.1	45.2	37.0	29.2	4.6	9.0	5.7	29.9	51	5	21
NexGen NG 2448 R	626	25.7	50.3	32.1	25.8	4.8	9.7	5.0	31.4	55	7	20
Deltapine DP 164 B2RF	621	28.7	46.9	35.6	28.3	4.6	8.6	5.1	32.1	40	5	23
Deltapine DP 121 RF	619	28.9	42.7	37.0	28.5	4.4	8.7	5.5	29.2	59	4	22
Croplan Genetics CG 3020B2RF	617	26.8	47.2	35.1	27.8	4.3	8.6	5.0	30.0	56	5	20
PhytoGen PHY 315 RF	610	27.7	43.8	38.5	30.4	4.4	8.9	6.1	28.2	53	4	21
NexGen NG 3348 B2RF	609	27.0	46.1	33.3	26.0	4.3	9.8	5.4	26.8	53	6	19
FiberMax FM 9170B2F	601	29.1	44.0	36.8	28.8	3.7	8.5	5.5	24.6	45	5	20

Table 11. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/11/09	Resistance	Height
All-Tex AT Summit B2RF	598	26.9	45.8	35.4	28.5	4.8	8.9	5.3	32.2	68	5	20
NexGen NG 3410 RF	598	26.9	46.8	34.6	27.5	4.7	10.1	5.9	27.5	55	6	20
Seed Source Genetics SSG HQ 110 CT	590	27.7	45.7	34.5	26.3	3.9	8.4	4.7	28.3	61	3	21
Stoneville ST 4554B2RF	584	28.4	43.9	34.6	26.7	4.2	8.9	5.2	28.3	56	3	21
All-Tex AT Atlas RR	581	25.0	47.6	32.8	25.0	4.7	9.1	4.9	32.2	53	6	19
PhytoGen PHY 367 WRF	576	25.9	43.5	36.2	27.8	4.1	8.7	5.4	27.6	54	4	19
All-Tex AT Patriot + RF	575	26.4	46.5	33.6	25.8	4.4	9.7	5.2	28.3	56	5	20
FiberMax FM 9160B2F	575	27.5	44.9	35.5	29.0	5.1	8.5	5.2	34.6	55	6	21
Stoneville ST 4288B2F	575	25.9	45.3	35.4	28.5	4.8	9.2	5.5	30.9	43	5	20
Croplan Genetics CG 3520B2RF	571	24.8	46.0	34.1	26.5	4.1	8.7	4.9	28.5	64	5	20
FiberMax FM 9180B2F	565	27.2	46.2	33.2	24.7	4.6	9.4	5.1	30.0	61	7	18
PhytoGen PHY 565 WRF	561	29.0	43.0	37.6	29.5	4.1	7.9	5.3	29.3	43	4	21
FiberMax FM 1845LLB2	556	26.9	45.4	37.6	29.5	4.8	8.9	5.8	31.0	46	6	22
Croplan Genetics CG 4020B2RF	549	28.5	45.6	35.5	27.4	4.1	8.7	5.2	28.1	56	5	20
NexGen NG 2549 B2RF	529	25.4	46.3	31.9	24.1	4.1	9.4	4.9	26.9	65	6	19
All-Tex AT Orbit RF	528	26.4	46.3	33.8	25.9	4.5	9.0	4.9	30.8	50	5	21
Deltapine DP 0924 B2RF	526	28.7	44.8	40.6	31.8	4.3	8.1	5.8	30.2	48	4	20
NexGen NG 1551 RF	498	24.2	46.9	32.7	25.2	4.6	9.5	5.0	30.2	63	4	20
PhytoGen PHY 525 RF	478	26.5	41.5	37.1	29.1	4.4	8.7	5.6	29.0	41	3	22
PhytoGen PHY 72	456	25.0	42.1	34.1	26.6	4.2	9.0	5.1	27.9	60	2	22
Mean	626	27.9	45.3	35.8	28.1	4.4	8.8	5.3	29.8	52	5	21
c.v.%	13.4	5.0	2.6	5.0	6.2	9.2	4.2	6.8	8.4	16.2	15.0	6.6
LSD 0.05	117	1.9	1.6	3.6	3.5	0.8	0.7	0.7	5	12	1	2

Table 11A. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Hazera YD-1199	4.1	1.23	81.5	39.4	6.7	7	67.3	10.3	43-1,43-2
PhytoGen PHY 375 WRF	4.0	1.05	79.5	27.2	9.4	4	74.9	8.1	41-1
Stoneville ST 5458B2RF	4.7	1.08	79.2	29.7	6.5	3	75.2	8.5	31-2,31-4
Hazera YD-1198	3.9	1.18	81.5	37.9	6.6	8	65.2	9.6	52-1
Deltapine DP 0935 B2RF	4.5	0.99	79.6	26.2	9.1	1	77.7	8.6	31-1
Deltapine DP 0912 B2RF	4.2	1.06	79.4	27.9	9.2	4	74.9	7.8	41-1
All-Tex AT Epic RF	4.4	1.02	79.9	27.2	11.0	2	75.8	8.7	31-1,31-4
FiberMax FM 958	3.5	1.07	79.4	28.2	4.8	4	76.4	7.5	41-1
Deltapine DP 0949 B2RF	4.4	1.03	79.8	27.7	7.8	4	75.1	8.1	41-1
FiberMax FM 1740B2F	3.6	1.07	79.6	27.3	8.9	3	75.7	7.4	41-1
FiberMax FM 955LLB2	4.2	1.09	80.8	27.2	6.0	3	77.5	7.7	31-1,41-1
Croplan Genetics CG 3220B2RF	3.9	1.08	79.3	27.1	7.7	3	76.1	8.4	31-2
FiberMax FM 9058F	3.5	1.07	78.7	26.8	5.7	4	77.9	7.5	31-2,41-1
Americot AM 1532 B2RF	3.9	1.08	79.1	26.3	9.1	3	75.8	7.8	41-1
Stoneville ST 5288B2F	4.2	1.05	79.3	27.4	9.3	3	75.9	7.7	31-2,41-1
Seed Source Genetics SSG HQ 210 CT	4.1	1.03	78.9	28.1	7.7	3	76.9	7.6	41-1
All-Tex AT Apex B2RF	3.8	1.09	79.1	26.4	8.9	4	75.2	7.8	41-1
NexGen NG 1572 RF	3.0	1.09	79.3	27.4	6.4	5	77.2	7.4	31-2,41-1
Deltapine DP 143 B2RF	3.4	1.04	76.9	26.2	6.8	4	75.2	7.8	41-1
Stoneville ST 4498B2RF	4.0	1.06	80.7	29.8	8.8	4	73.9	8.3	41-1
Croplan Genetics CG 3035RF	4.3	1.03	79.9	27.4	12.7	2	76.0	9.2	31-2,32-1
Deltapine DP 555 BG/RR	4.2	0.99	78.1	25.9	10.5	2	78.9	7.4	31-2
Bayer CropScience BCSX 1010B2F	3.9	1.03	79.2	25.7	8.3	3	76.1	8.3	31-2
NexGen NG 2448 R	3.2	1.05	81.1	30.8	9.6	4	77.3	8.1	31-2
Deltapine DP 164 B2RF	4.3	1.07	80.4	27.0	6.5	2	77.0	7.5	31-2,41-1
Deltapine DP 121 RF	4.4	1.09	81.0	29.8	9.9	4	73.2	8.0	41-1,41-2
Croplan Genetics CG 3020B2RF	3.9	1.07	79.9	26.1	9.4	3	76.7	7.7	31-2,41-1
PhytoGen PHY 315 RF	3.6	1.06	78.7	25.8	8.6	5	74.8	8.0	41-1
NexGen NG 3348 B2RF	3.1	1.08	80.5	28.7	8.7	5	75.1	8.1	41-1
FiberMax FM 9170B2F	3.4	1.11	79.0	30.0	5.8	3	77.0	7.2	31-2,41-1

Table 11A. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
All-Tex AT Summit B2RF	3.9	1.03	79.8	25.6	7.1	3	76.4	8.0	31-2,41-1
NexGen NG 3410 RF	3.0	1.13	79.5	30.1	10.8	5	76.1	7.9	41-1
Seed Source Genetics SSG HQ 110 CT	3.8	1.09	78.9	29.6	6.6	3	75.1	7.5	41-1,41-2
Stoneville ST 4554B2RF	4.4	1.01	78.5	28.2	9.0	2	74.7	9.0	31-4
All-Tex AT Atlas RR	3.7	1.03	80.8	29.2	7.3	3	76.8	8.2	31-2
PhytoGen PHY 367 WRF	3.6	1.04	79.6	26.2	7.5	4	74.0	8.5	31-4,41-1
All-Tex AT Patriot + RF	4.1	1.11	80.3	28.6	9.4	3	75.2	7.9	41-1,41-2
FiberMax FM 9160B2F	3.5	1.11	80.7	28.8	5.5	4	77.7	7.4	31-2,41-1
Stoneville ST 4288B2F	4.0	1.06	79.1	27.1	9.5	5	75.0	7.9	41-1
Croplan Genetics CG 3520B2RF	4.0	1.05	79.5	26.4	9.9	4	75.4	7.8	41-1
FiberMax FM 9180B2F	3.7	1.08	79.2	29.9	6.2	4	78.4	7.4	31-1,31-2
PhytoGen PHY 565 WRF	4.2	1.08	80.4	29.0	12.4	4	75.2	8.5	31-2,41-1
FiberMax FM 1845LLB2	3.7	1.15	80.4	30.4	10.1	5	76.2	7.6	31-2,41-1
Croplan Genetics CG 4020B2RF	4.1	1.04	78.9	25.7	7.1	1	76.1	8.1	31-2,41-1
NexGen NG 2549 B2RF	2.9	1.05	80.6	29.8	7.5	6	74.1	7.9	41-1
All-Tex AT Orbit RF	4.0	1.09	80.4	28.5	9.9	3	76.0	7.7	41-1
Deltapine DP 0924 B2RF	4.1	1.04	79.0	26.9	7.7	3	73.9	7.7	41-1,41-2
NexGen NG 1551 RF	3.6	1.07	80.8	30.6	6.2	3	74.2	8.5	31-4,41-1
PhytoGen PHY 525 RF	3.8	1.05	79.0	27.3	7.8	2	74.4	8.2	41-1
PhytoGen PHY 72	4.0	1.13	81.1	31.8	6.9	3	73.5	8.4	41-1,41-3
Mean	3.9	1.07	79.7	28.3	8.2	3	75.4	8.0	
c.v.%	8.1	2.2	1.1	3.4	23.9	30.7	1.2	2.9	
LSD 0.05	0.6	0.05	1.8	2.0	3.9	2	1.8	0.5	

Table 12. Yield summary of the dryland cotton variety test at Texas AgriLife Research, Lubbock, Texas, 2009.

Name	2004	2005	2006	2008	2009	Average	Comp. Average*
			Five Year Average				
FiberMax FM 958	520	984	379	1112	698	739	
NexGen NG 2448R	532	867	229	514	626	554	
			Three Year Average				
Croplan Genetics CG 3020B2RF			535	725	617	626	680
Croplan Genetics CG 3035RF			626	1029	636	764	818
Croplan Genetics CG 3220B2RF			593	760	671	675	729
Croplan Genetics CG 3520B2RF			517	761	571	616	670

*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 2009.

Test:	Uniform Variety
Planting Date:	May 18
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Trust @ 1 pt/A applied pre plant Caparol @1.5 pt/A applied May 22
Fertilizer:	20-10-0-7 @190 lbs/A applied pre-plant
Rainfall:	8.3 inches during season
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 21 oz/A + 1.5 oz E.T. + 1% crop oil September 21 Gramoxone Inteon @ 24 oz/A October 2
Harvest Date:	October 28
Freeze Date:	October 30

Table 14. Results of the dryland regional cotton variety test at the AG-CARES farm, Lamesa, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/6/09	Resistance	Height
Deltapine DP 0935 B2RF	728	32.2	43.0	41.1	32.7	5.5	9.1	6.6	34.6	35	5	29
PhytoGen PHY 367 WRF	689	29.7	43.9	38.9	30.0	4.5	8.3	5.5	31.7	50	4	28
PhytoGen PHY 375 WRF	678	31.0	43.5	40.1	31.8	4.8	8.5	6.1	32.0	45	4	27
Croplan Genetics CG 3035RF	676	34.1	44.7	40.1	32.1	5.2	9.0	6.3	33.1	44	5	30
All-Tex AT Epic RF	670	32.7	44.3	41.6	33.4	5.5	8.9	6.5	34.8	48	5	29
FiberMax FM 1740B2F	664	31.0	45.4	39.4	31.0	4.9	9.1	6.1	31.3	64	5	26
Croplan Genetics CG 3520B2RF	660	27.1	46.1	34.6	26.9	4.4	8.6	4.8	31.9	76	5	26
Stoneville ST 5458B2RF	652	31.5	45.4	39.8	32.0	5.3	9.0	6.1	34.3	36	5	26
Deltapine DP 555 BG/RR	651	34.1	44.0	40.9	33.5	4.6	7.2	5.4	34.8	33	5	32
Stoneville ST 5288B2F	644	31.4	44.3	40.5	32.4	4.8	7.9	5.6	34.6	44	5	28
Deltapine DP 0912 B2RF	639	32.7	44.8	38.7	30.3	4.7	8.7	5.8	31.3	60	4	27
All-Tex AT Apex B2RF	638	28.8	45.6	36.7	28.5	5.1	9.1	5.5	33.8	58	5	29
FiberMax FM 9160B2F	635	30.5	45.6	38.2	30.8	5.2	9.1	5.9	33.7	56	5	26
Croplan Genetics CG 3020B2RF	627	28.4	47.3	35.7	29.7	5.4	9.2	5.8	33.3	55	4	28
Americot AM 1532 B2RF	625	28.6	45.8	37.2	29.1	4.9	8.8	5.4	33.5	60	5	27
All-Tex AT Summit B2RF	622	28.3	46.7	35.6	28.2	5.1	9.4	5.5	33.1	61	5	27
Deltapine DP 0924 B2RF	618	30.6	45.3	39.4	31.7	5.1	9.0	6.2	32.3	49	5	29
Hazera YD-1198	616	25.6	46.1	34.3	27.6	4.0	9.1	5.2	26.6	38	4	30
NexGen NG 3348 B2RF	609	27.9	47.3	35.2	28.0	4.9	8.4	4.8	35.9	66	6	26
Deltapine DP 121 RF	607	29.6	43.1	39.9	30.8	4.8	8.7	6.1	31.1	66	4	28
Seed Source Genetics SSG HQ 210 CT	605	31.8	47.1	38.2	31.1	4.6	8.0	5.1	34.4	30	4	27
Deltapine DP 143 B2RF	602	29.5	47.4	38.0	29.8	5.0	8.8	5.7	33.1	40	5	26
Stoneville ST 4498B2RF	602	29.8	44.8	38.3	30.2	4.7	8.6	5.6	32.5	49	4	26
NexGen NG 2448 R	596	25.8	50.2	32.8	26.9	5.3	9.9	5.2	33.4	86	8	26
Stoneville ST 4554B2RF	591	31.3	44.8	39.2	31.1	5.0	9.3	6.4	31.1	43	4	26
All-Tex AT Patriot + RF	589	27.8	46.6	35.2	27.7	5.4	9.8	5.6	34.3	56	5	27
Croplan Genetics CG 3220B2RF	584	29.8	45.9	36.3	28.9	5.0	8.9	5.4	33.4	48	5	26
Deltapine DP 0949 B2RF	583	31.8	43.2	41.5	32.9	5.1	8.7	6.4	32.8	34	5	30
Hazera YD-1199	582	24.4	49.2	32.2	25.4	4.0	10.2	5.1	25.5	29	4	30
PhytoGen PHY 315 RF	562	29.6	44.4	38.9	30.2	4.6	8.6	5.8	31.3	58	4	29
FiberMax FM 958	559	30.1	45.9	38.2	30.2	5.4	9.6	6.3	32.9	70	6	25

Table 14. Results of the dryland regional cotton variety test at the AG-CARES farm, Lamesa, TX 2009.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/6/09	Resistance	Height
Croplan Genetics CG 4020B2RF	559	29.5	45.3	35.9	27.7	5.0	9.2	5.4	33.0	46	5	27
Seed Source Genetics SSG HQ 110 CT	554	29.9	44.9	37.4	29.4	4.5	7.8	4.9	34.3	50	4	26
PhytoGen PHY 565 WRF	550	29.3	46.0	38.1	29.9	4.6	8.2	5.3	33.1	34	5	30
Deltapine DP 164 B2RF	549	31.0	46.6	37.3	30.1	4.8	8.5	5.2	34.0	34	5	29
FiberMax FM 9058F	544	28.8	44.6	36.6	28.7	5.2	9.6	5.9	31.9	76	6	24
NexGen NG 1572 RF	542	26.1	50.7	32.9	27.0	4.7	9.4	4.9	31.5	85	7	25
FiberMax FM 955LLB2	538	28.2	47.4	35.5	27.8	5.8	10.9	6.2	32.9	48	5	28
PhytoGen PHY 525 RF	538	30.9	44.4	39.3	31.1	4.6	8.5	5.7	31.9	36	4	29
All-Tex AT Orbit RF	534	26.9	46.8	34.0	26.4	4.9	9.3	5.0	33.5	56	5	28
Stoneville ST 4288B2F	527	28.9	45.5	38.4	29.0	4.7	9.1	5.7	31.8	40	4	26
NexGen NG 1551 RF	500	25.9	48.1	34.0	26.8	4.9	10.9	5.7	28.5	76	5	26
NexGen NG 2549 B2RF	499	27.1	48.1	35.3	27.6	4.3	9.2	5.1	29.7	76	7	26
NexGen NG 3410 RF	493	27.8	47.6	35.8	28.9	5.3	9.9	5.7	33.3	60	6	26
FiberMax FM 1845LLB2	479	29.5	45.0	36.7	28.9	5.2	9.8	6.0	32.3	43	5	27
FiberMax FM 9170B2F	479	30.4	44.0	39.6	31.5	4.6	8.7	5.9	30.9	34	5	29
Bayer CropScience BCSX 1010B2F	473	30.3	45.3	37.7	29.5	5.0	9.5	5.9	31.8	39	4	30
All-Tex AT Atlas RR	459	25.5	49.1	33.8	26.3	4.9	10.2	5.4	30.5	80	6	26
FiberMax FM 9180B2F	452	27.2	46.5	35.0	27.3	5.4	10.1	5.8	32.6	70	6	25
PhytoGen PHY 72	382	25.1	43.3	36.5	28.5	4.9	9.3	5.7	31.6	49	3	27
Mean	581	29.3	45.8	37.3	29.5	4.9	9.0	5.6	32.4	52	5	27
c.v.%	17.6	3.8	2.3	3.6	3.7	6.4	4.6	4.6	6.0	18.6	12.6	6.5
LSD 0.05	143	1.6	1.4	2.7	2.2	0.6	0.8	0.5	3.9	14	1	2

Table 14A. Results of the dryland regional cotton variety test at the AG-CARES farm, Lamesa, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 0935 B2RF	5.0	0.98	79.0	25.9	11.5	3	78.5	8.3	31-1
PhytoGen PHY 367 WRF	4.4	1.05	80.8	28.7	12.6	3	76.5	8.2	31-2
PhytoGen PHY 375 WRF	4.6	1.05	80.4	26.8	11.8	2	77.9	7.5	31-2
Croplan Genetics CG 3035RF	4.7	1.02	80.7	28.0	13.3	1	78.2	8.3	31-1,31-2
All-Tex AT Epic RF	4.8	1.03	81.5	28.0	12.8	2	78.2	8.3	31-1
FiberMax FM 1740B2F	4.5	1.04	80.3	27.3	11.3	2	80.0	7.3	31-1,31-2
Croplan Genetics CG 3520B2RF	4.4	1.06	80.5	26.6	12.7	4	77.4	7.6	31-2,41-1
Stoneville ST 5458B2RF	4.7	1.02	78.9	27.1	11.1	3	77.2	8.2	31-1,31-2
Deltapine DP 555 BG/RR	4.6	1.03	79.5	26.3	11.0	2	80.4	6.6	31-2
Stoneville ST 5288B2F	5.0	1.03	79.6	25.8	12.0	3	79.4	7.3	31-1,31-2
Deltapine DP 0912 B2RF	5.1	1.03	81.1	28.4	12.3	4	77.6	7.7	31-1,41-1
All-Tex AT Apex B2RF	4.5	1.05	80.2	25.6	12.1	2	78.6	7.6	31-1,41-1
FiberMax FM 9160B2F	4.3	1.09	81.6	29.5	10.5	2	80.5	7.3	21-2,31-2
Croplan Genetics CG 3020B2RF	4.4	1.04	80.9	26.2	11.9	3	78.7	7.2	31-2,41-1
Americot AM 1532 B2RF	4.4	1.08	80.0	26.6	11.7	2	78.2	7.4	31-1,41-1
All-Tex AT Summit B2RF	4.5	1.03	80.1	25.6	12.1	2	78.9	7.5	31-2
Deltapine DP 0924 B2RF	4.7	1.05	80.8	28.7	12.5	4	77.1	7.0	31-2,41-2
Hazera YD-1198	3.9	1.23	83.3	43.0	11.2	8	66.2	9.3	52-1
NexGen NG 3348 B2RF	3.3	1.07	80.2	30.2	11.5	4	77.2	7.8	31-2
Deltapine DP 121 RF	4.4	1.05	80.2	27.4	11.9	3	76.9	7.3	41-1
Seed Source Genetics SSG HQ 210 CT	4.6	1.01	80.7	28.3	12.2	2	79.4	7.7	31-1,31-2
Deltapine DP 143 B2RF	4.1	1.06	78.6	28.0	11.9	3	78.9	7.5	31-1,31-2
Stoneville ST 4498B2RF	4.4	1.05	81.6	30.7	13.3	5	75.9	7.9	31-2,41-1
NexGen NG 2448 R	3.8	1.06	81.3	31.2	11.4	4	78.4	7.7	31-1,31-2
Stoneville ST 4554B2RF	5.2	1.05	81.7	29.0	13.6	2	77.7	8.6	31-1,31-2
All-Tex AT Patriot + RF	4.7	1.11	81.3	29.1	12.3	1	78.2	7.3	31-2,41-1
Croplan Genetics CG 3220B2RF	4.5	1.04	80.5	26.7	12.4	2	78.3	7.8	31-1,31-2
Deltapine DP 0949 B2RF	5.1	1.04	80.5	28.5	12.3	1	78.2	8.3	31-1
Hazera YD-1199	3.8	1.23	82.2	42.7	12.2	8	69.4	9.5	42-1
PhytoGen PHY 315 RF	4.6	1.02	80.5	26.1	11.0	3	77.1	7.8	31-2,41-1

Table 14A. Results of the dryland regional cotton variety test at the AG-CARES farm, Lamesa, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
FiberMax FM 958	4.6	1.06	81.1	29.0	10.9	2	79.5	7.5	31-1
Croplan Genetics CG 4020B2RF	4.6	1.05	80.7	26.2	11.9	2	77.3	7.7	31-2,41-1
Seed Source Genetics SSG HQ 110 CT	4.7	1.02	79.2	27.7	11.9	3	77.5	7.6	31-2
PhytoGen PHY 565 WRF	4.5	1.08	81.3	29.9	13.1	3	77.2	7.8	31-2,41-1
Deltapine DP 164 B2RF	4.7	1.06	79.7	27.7	10.9	3	78.8	7.4	31-2
FiberMax FM 9058F	4.0	1.07	78.8	28.0	10.6	4	79.2	7.0	31-1,41-1
NexGen NG 1572 RF	2.9	1.09	79.0	26.9	10.7	6	78.4	6.7	41-1
FiberMax FM 955LLB2	4.9	1.12	81.7	28.7	10.7	3	79.2	7.6	31-1,31-2
PhytoGen PHY 525 RF	4.4	1.04	79.6	28.5	13.7	2	77.8	8.4	31-1,31-2
All-Tex AT Orbit RF	4.7	1.09	81.7	29.1	12.3	2	77.8	7.7	31-1,41-1
Stoneville ST 4288B2F	4.9	1.06	80.9	27.2	12.2	3	77.9	7.8	31-1,41-1
NexGen NG 1551 RF	4.4	1.04	80.2	29.8	10.9	3	75.1	7.9	41-1
NexGen NG 2549 B2RF	3.9	1.05	81.4	30.2	11.7	4	76.8	7.5	31-2,41-1
NexGen NG 3410 RF	3.6	1.07	79.6	28.7	10.8	4	78.0	7.7	31-1,41-1
FiberMax FM 1845LLB2	5.0	1.09	81.8	30.1	10.6	2	80.0	7.8	31-1
FiberMax FM 9170B2F	3.9	1.08	80.1	28.9	10.6	3	79.7	7.0	31-2
Bayer CropScience BCSX 1010B2F	4.6	1.04	80.8	26.6	10.6	2	78.5	7.8	31-1,31-2
All-Tex AT Atlas RR	4.3	1.04	81.5	30.0	12.2	5	77.7	7.2	31-2,41-1
FiberMax FM 9180B2F	4.0	1.10	81.4	31.6	11.1	3	80.1	7.2	31-1,31-2
PhytoGen PHY 72	4.0	1.08	79.2	31.2	11.8	2	76.5	8.4	31-2
Mean	4.4	1.06	80.5	28.7	11.8	3	77.7	7.7	
c.v.%	6.0	1.9	0.9	4.1	3.6	34.2	1.0	4.3	
LSD 0.05	0.5	0.04	1.5	2.3	0.9	2	1.5	0.7	

Table 15. Yield summary of the dryland cotton variety test at the AG-CARES farm ,Lamesa, TX, 2009.

Name	2005	2006	2007	2008	2009	Average	Comp. Average*
			Five Year Average				
All-Tex AT Atlas	280	133	858	431	459	432	
Deltapine DP 555 BR	548	201	1122	406	651	586	
FiberMax FM 958	347	165	1103	433	559	521	
NexGen NG 2448 R	344	135	1024	362	596	492	
PhytoGen PHY 72	260	118	1103	386	382	450	
			Four Year Average				
Croplan Genetics CG 3020B2F		195	1043	437	627	576	541
FiberMax FM 9058F		191	1102	414	544	563	528
			Three Year Average				
Croplan Genetics CG 3035RF			1363	500	676	846	684
Croplan Genetics CG 3220B2RF			1169	486	584	746	584
Croplan Genetics CG 3520B2RF			1029	455	660	715	553
Croplan Genetics CG 4020B2RF			1037	435	559	677	515
Deltapine DP 121 RF			1162	513	607	761	599
Deltapine DP 143 B2RF			1096	348	602	682	520
Deltapine DP 164 B2RF			1217	581	549	782	620
FiberMax FM 1740B2F			1173	537	664	791	629
FiberMax FM 9180B2F			1030	428	452	637	475

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

Table 16. Yield summary for cotton variety tests over five locations in 2009.

Name	Overall Yield	Rank Lub Irr	Rank Lub Dry	Rank Lam Irr	Rank Lam Dry	Rank Halfway
Deltapine DP 0912 B2RF	1332	1	6	11	11	1
Stoneville ST 5458B2RF	1312	3	3	4	8	20
PhytoGen PHY 367 WRF	1283	14	36	1	2	18
Stoneville ST 4498B2RF	1258	4	20	3	23	28
FiberMax FM 1740B2F	1250	5	10	22	6	7
PhytoGen PHY 375 WRF	1244	7	2	9	3	40
Hazera YD-1198	1239	8	4	13	18	27
Hazera YD-1199	1230	2	1	37	29	33
Deltapine DP 0935 B2RF	1215	10	5	23	1	35
Stoneville ST 4288B2F	1207	18	39	2	41	15
Croplan Genetics CG 3220B2RF	1202	16	12	10	27	19
Stoneville ST 5288B2F	1181	19	15	20	10	14
All-Tex AT Patriot + RF	1175	11	37	27	26	9
Deltapine DP 143 B2RF	1171	6	19	21	22	41
Croplan Genetics CG 3035RF	1166	22	21	19	4	13
Deltapine DP 121 RF	1159	32	26	6	20	10
Deltapine DP 0949 B2RF	1157	12	9	25	28	34
All-Tex AT Summit B2RF	1143	13	31	30	16	32
Croplan Genetics CG 3520B2RF	1140	45	40	5	7	4
Deltapine DP 0924 B2RF	1137	15	47	18	17	38
FiberMax FM 958	1131	17	8	46	31	17
NexGen NG 3348 B2RF	1121	33	29	39	19	3
FiberMax FM 9160B2F	1115	34	38	24	13	8
NexGen NG 1572 RF	1114	20	18	34	37	26
Croplan Genetics CG 4020B2RF	1111	26	44	17	32	25
NexGen NG 3410 RF	1106	29	32	33	44	5
FiberMax FM 9058F	1094	28	13	42	36	12
Seed Source Genetics SSG HQ 210 CT	1094	9	16	43	21	47
FiberMax FM 9170B2F	1094	39	30	12	46	21
PhytoGen PHY 525 RF	1092	21	49	16	39	31
Stoneville ST 4554B2RF	1092	46	34	8	25	23
NexGen NG 2448 R	1091	24	24	45	24	24
Croplan Genetics CG 3020B2RF	1088	36	27	40	14	16
PhytoGen PHY 565 WRF	1088	27	42	14	34	39
Deltapine DP 555 BG/RR	1087	31	22	26	9	36
NexGen NG 2549 B2RF	1069	30	45	44	43	6
PhytoGen PHY 315 RF	1068	48	28	7	30	30
Deltapine DP 164 B2RF	1064	40	25	15	35	43
Americot AM 1532 B2RF	1060	49	14	31	15	22
All-Tex AT Epic RF	1058	35	7	48	5	29
NexGen NG 1551 RF	1034	44	48	47	42	2
All-Tex AT Apex B2RF	1008	50	17	29	12	44
FiberMax FM 1845LLB2	1001	23	43	36	45	46
FiberMax FM 9180B2F	986	47	41	28	49	37
PhytoGen PHY 72	982	25	50	49	50	11
Bayer CropScience BCSX 1010B2F	976	37	23	35	47	48
All-Tex AT Orbit RF	974	43	46	32	40	45
All-Tex AT Atlas RR	939	38	35	50	48	42
Seed Source Genetics SSG HQ 110 CT	914	41	33	38	33	49
FiberMax FM 955LLB2	887	42	11	41	38	50

NOTES

Table 17. Production information for furrow irrigated performance test at Texas AgriLife Research, Pecos, TX 2009.

Test:	Regional Cotton Variety
Planting Date:	May 15
Row Spacing:	34-42in variable (equivalent to 38in)
Planting Pattern:	Solid
Herbicide:	Prowl @ 2pt/A applied pre-plant
Fertilizer:	none
Irrigations:	9.90 acre-in May 18 4.19acre-in June 9 4.36 acre-in June 22 4.19 acre-in July 27 4.19 acre-in August 16 4.19 acre-in September 9 31.02 acre-in
Rainfall:	May-October = 8.84 inches
Insecticide:	none
Fungicide:	Quadris @ 7 oz/A for control of Southwest Cotton Rust
Harvest Aids:	Prep @ 16 oz/A and Def @ 16 oz/A - October 30 Gramoxone @ 16 oz/A and Aim @ 1 oz/A – November 5
Harvest Date:	November 13
Freeze Date:	October 27

Table 18. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Pecos, TX 2009.

				Agronomic Properties						% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/9/09	Resistance	Height
PhytoGen PHY 485 WRF	1151	25.9	44.5	33.2	26.1	4.5	9.1	5.0	29.7	35	4	20
PhytoGen PHY x5922 WRF	1147	26.2	42.3	34.3	27.6	4.5	8.9	5.0	31.0	40	5	21
AgriLife 08-K-5	1124	25.5	44.4	34.1	26.8	5.2	10.3	5.5	31.9	45	6	23
Deltapine DP 164 B2RF	1121	26.8	44.1	35.4	27.9	4.6	9.6	5.4	30.0	40	5	20
PhytoGen PHY 375 WRF	1118	26.4	45.4	37.6	30.2	4.5	9.4	6.1	27.3	40	5	20
Stoneville ST 5458B2RF	1101	25.7	44.7	37.9	30.1	4.9	10.0	6.4	28.9	45	5	18
FiberMax FM 9170B2F	1078	26.9	44.4	39.1	30.8	4.7	9.5	6.4	28.6	36	5	19
PhytoGen PHY 367 WRF	1067	27.3	43.9	41.0	31.2	4.4	8.7	6.0	30.0	51	5	16
PhytoGen PHY 565 WRF	1056	28.0	44.8	36.3	28.6	4.5	8.8	5.2	31.1	25	5	22
Deltapine DP 0949 B2RF	1037	27.2	44.3	38.2	29.6	4.9	9.8	6.3	29.8	28	5	24
Stoneville ST 4288B2F	1035	25.4	45.4	34.5	27.2	5.2	9.8	5.5	32.9	48	5	18
Deltapine DP 174 RF	1013	26.1	45.3	38.4	30.4	5.6	10.0	6.5	33.1	34	5	21
Deltapine DP 0935 B2RF	973	26.9	44.1	38.7	32.7	5.4	9.8	6.4	32.7	25	6	20
FiberMax FM 989B2R	959	27.5	43.9	33.3	26.6	5.6	10.3	5.6	33.3	43	5	19
PhytoGen PHY 755 WRF	954	24.9	44.1	35.1	27.5	4.5	10.3	5.8	27.5	23	5	20
FiberMax FM 955LLB2	948	25.8	44.1	35.1	28.0	5.4	10.7	6.0	31.0	53	5	18
Croplan Genetics CG 3220B2RF	942	26.0	46.2	34.2	27.3	4.8	9.4	5.2	31.4	51	5	19
Bayer CropScience BCSX 1010B2F	897	25.7	44.2	33.6	26.9	5.1	10.0	5.4	32.3	51	5	20
Deltapine DP 0924 B2RF	891	25.0	44.3	36.8	29.2	4.8	9.3	5.8	30.5	58	4	20
PhytoGen PHY 72	884	25.0	45.1	35.5	27.4	5.0	10.1	5.9	30.0	34	3	21
NM 3012	861	24.6	40.0	33.2	26.4	5.4	11.2	6.0	29.8	16	5	25
FiberMax FM 9058F	859	27.4	42.8	36.6	28.9	4.9	9.8	6.1	29.1	54	6	18
FiberMax FM 9160B2F	857	27.0	44.5	36.4	30.4	4.9	9.1	5.5	32.6	31	6	23
Acala 1517-99	805	25.6	44.4	33.0	25.5	5.2	11.2	5.9	28.9	20	4	24
Stoneville ST 4554 B2RF	784	25.2	43.9	35.3	27.9	4.7	9.2	5.5	30.5	43	4	20
Croplan Genetics CG 4020B2RF	767	25.0	42.6	35.2	27.1	4.6	9.9	5.7	28.5	48	5	18
Deltapine DP 555 BG/RR	727	26.4	43.4	36.9	30.5	4.5	8.0	5.1	32.2	9	5	23
Seed Source Genetics SSG HQ 210 CT	700	26.2	44.9	36.3	28.4	4.9	8.7	5.1	34.5	19	4	18
Stoneville ST 5288B2F	698	26.0	42.3	35.4	27.9	4.6	8.5	5.0	32.2	23	4	14
FiberMax FM 1845 LLB2	639	27.3	45.7	36.2	28.8	5.0	10.7	6.3	29.0	38	6	19
Mean	939	26.2	44.1	35.9	28.4	4.9	9.6	5.7	30.7	37	5	20
c.v.%	16.4	7.5	4.6	4.2	4.9	4.7	4.5	6.2	5.4	24.7	13.0	13.1
LSD 0.05	216	2.8	2.9	3.1	2.9	0.5	0.9	0.7	3.4	13	1	4

Table 18A. Results of the irrigated regional cotton variety test at Texas AgriLife Research, Pecos, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
PhytoGen PHY 485 WRF	3.8	1.12	82.1	30.5	12.3	3	81.0	8.9	11-2,21-1
PhytoGen PHY x5922 WRF	4.0	1.14	82.9	30.3	13.4	2	83.3	8.6	11-1
AgriLife 08-K-5	3.5	1.22	82.4	32.4	10.4	3	83.4	8.1	11-1,21-1
Deltapine DP 164 B2RF	4.2	1.14	80.6	27.8	10.1	1	84.4	7.8	11-1
PhytoGen PHY 375 WRF	4.1	1.11	81.8	29.1	11.4	2	83.2	8.6	11-1
Stoneville ST 5458B2RF	4.5	1.10	80.4	28.2	10.8	3	81.5	8.2	21-1
FiberMax FM 9170B2F	3.8	1.16	81.8	30.4	10.1	2	85.2	7.2	11-2
PhytoGen PHY 367 WRF	4.2	1.12	82.3	30.3	12.1	3	81.7	8.5	11-2,21-1
PhytoGen PHY 565 WRF	3.8	1.17	83.1	32.3	11.5	1	82.8	8.6	11-1
Deltapine DP 0949 B2RF	4.0	1.14	81.8	31.3	11.6	2	83.3	8.4	11-1,11-2
Stoneville ST 4288B2F	4.5	1.11	80.8	28.3	11.1	2	82.3	8.3	21-1
Deltapine DP 174 RF	4.0	1.15	81.3	28.5	11.4	2	82.4	8.5	11-1,11-2
Deltapine DP 0935 B2RF	4.1	1.11	81.5	28.2	11.8	1	83.7	8.9	11-1
FiberMax FM 989B2R	3.8	1.16	83.4	33.7	10.4	1	83.7	8.2	11-1
PhytoGen PHY 755 WRF	3.8	1.23	83.3	36.2	11.1	3	82.1	8.5	11-2,21-1
FiberMax FM 955LLB2	4.2	1.20	82.8	29.8	9.8	1	84.8	7.5	11-1,11-2
Croplan Genetics CG 3220B2RF	4.0	1.12	80.7	28.3	11.8	2	84.9	8.4	11-1
Bayer CropScience BCSX 1010B2F	4.1	1.10	80.7	27.1	9.8	1	84.4	8.3	11-1
Deltapine DP 0924 B2RF	4.7	1.09	82.6	28.7	11.9	2	83.3	8.1	11-1
PhytoGen PHY 72	4.2	1.18	82.8	34.4	11.2	1	82.0	8.7	11-1,11-2
NM 3012	3.4	1.22	82.8	35.5	10.4	5	79.8	8.6	21-2
FiberMax FM 9058F	3.9	1.15	80.3	28.8	9.2	1	83.7	8.1	11-1,11-2
FiberMax FM 9160B2F	3.3	1.17	81.8	30.2	10.1	2	83.6	8.4	11-1
Acala 1517-99	3.6	1.20	82.9	35.0	9.9	3	81.3	8.8	11-2
Stoneville ST 4554 B2RF	4.0	1.10	81.5	31.0	13.0	2	82.2	8.6	11-2
Croplan Genetics CG 4020B2RF	3.8	1.13	81.2	27.1	11.2	2	84.1	8.1	11-1
Deltapine DP 555 BG/RR	3.4	1.12	80.0	27.4	10.3	1	84.8	8.0	11-1
Seed Source Genetics SSG HQ 210 CT	4.0	1.11	81.4	29.9	11.4	1	84.5	8.3	11-1
Stoneville ST 5288B2F	4.0	1.13	81.6	28.9	11.1	4	81.3	7.5	21-1,31-1
FiberMax FM 1845 LLB2	3.9	1.20	82.9	33.3	10.1	3	83.9	7.4	21-1
Mean	3.9	1.14	81.8	30.4	11.0	2	83.1	8.3	
c.v.%	8.2	1.4	0.7	2.6	3.2	43.4	0.7	2.5	
LSD 0.05	0.7	0.03	1.2	1.6	0.7	2	1.2	0.4	

Table 19. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Pecos, TX 2009.

Name	2005	2006	2007	2008	2009	Average	Comp. Average*
			Five Year Average				
Acala 1517-99	395	1182	1080	1073	805	907	
PhytoGen PHY 72	481	1264	1119	1115	884	973	
Deltapine 555 BG/RR	448	1360	1031	1358	727	985	
			Four Year Average				
Croplan Genetics CG 4020B2RF		1108	946	951	767	943	815
			Three Year Average				
Croplan Genetics CG 3220B2RF			1224	1175	942	1114	1048
Deltapine DP 164 B2RF			1307	1028	1121	1152	1086
Deltapine DP 174 RF			1133	1082	1013	1076	1010

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

Table 20. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	Late Planted Variety
Planting Date:	June 10
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	4.3 acre inches April 22 1.5 acre inches June 10 2.3 acre inches July 16 2.0 acre inches July 30 1.8 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Date:	November 12
Freeze Date:	October 30

Table 21. Results of the irrigated late planted test at Texas AgriLife Research, Lubbock, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/20/09	Resistance	Height
Deltapine DP 104 B2RF	1328	26.6	49.6	35.2	28.9	6.6	11.2	6.4	36.1	88	6	30
Hazera YD-1198	1197	24.2	46.5	35.7	28.5	4.8	10.7	6.6	25.8	51	5	38
PhytoGen PHY 375 WRF	1169	28.1	46.7	39.3	31.6	5.7	8.7	5.9	33.7	60	5	32
Croplan Genetics CG 3035RF	1148	27.2	45.4	40.5	32.6	5.9	9.5	6.8	35.1	61	6	34
Hazera YD-1199	1148	20.2	49.0	33.2	27.0	4.9	11.7	6.3	25.6	54	4	37
FiberMax FM 1740B2F	1146	29.2	46.8	39.7	31.9	6.1	10.0	6.8	35.6	60	5	31
Deltapine DP 0912 B2RF	1081	28.2	46.3	39.1	31.9	6.2	10.0	6.7	36.1	45	5	34
FiberMax FM 9180B2F	1028	25.3	46.7	35.2	27.3	6.1	10.9	6.3	34.0	70	6	29
PhytoGen PHY 367 WRF	1027	26.9	48.4	38.5	31.3	5.4	9.0	5.9	35.5	40	6	35
PhytoGen PHY 565 WRF	1007	24.7	46.4	37.0	29.7	5.3	9.2	5.8	33.9	40	5	34
Croplan Genetics CG 3220B2RF	1006	24.0	46.3	37.7	30.5	6.1	10.3	6.5	35.0	44	6	35
FiberMax FM 955LLB2	957	24.1	48.9	32.7	25.6	5.9	11.3	5.8	33.6	59	6	31
Croplan Genetics CG 3020B2RF	937	25.0	47.9	36.9	29.7	6.1	9.3	5.6	40.0	65	5	32
Croplan Genetics CG 3520B2RF	918	25.2	46.2	37.9	30.0	5.0	9.6	5.6	31.7	68	5	31
Croplan Genetics CG 4020B2RF	796	24.6	46.4	37.0	28.9	5.8	9.8	5.7	35.5	71	5	32
Mean	1060	25.6	47.2	37	29.7	5.7	10.0	6.2	33.8	58	5	33
c.v.%	12.5	7.4	2.4	4.6	5.1	4.9	4.7	8.5	3.9	11.4	7.6	6.0
LSD 0.05	189	2.7	1.6	3.7	3.3	0.6	1.0	1.1	2.8	9	1	3

Table 21A. Results of the irrigated late planted variety test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 104 B2RF	3.4	1.14	83.2	29.2	8.9	3	79.5	8.7	21-1
Hazera YD-1198	3.5	1.26	83.0	36.1	7.3	8	67.2	9.9	43-2,53-1
PhytoGen PHY 375 WRF	3.6	1.10	81.5	26.1	7.4	2	79.5	8.7	21-1,31-1
Croplan Genetics CG 3035RF	3.7	1.11	81.9	26.7	9.5	2	78.8	9.2	21-1
Hazera YD-1199	3.1	1.33	83.7	35.8	7.5	8	69.4	10.0	42-1,43-1
FiberMax FM 1740B2F	3.6	1.10	81.5	26.9	7.4	3	80.5	8.6	11-2,21-2
Deltapine DP 0912 B2RF	4.0	1.09	82.2	27.5	8.2	3	77.6	9.9	21-3,22-1
FiberMax FM 9180B2F	3.8	1.14	82.1	30.3	7.4	3	81.0	7.4	21-1,31-2
PhytoGen PHY 367 WRF	3.1	1.15	82.0	28.7	8.1	2	77.8	10.2	11-4,22-1
PhytoGen PHY 565 WRF	3.0	1.15	81.9	27.9	8.9	4	76.8	10.2	22-1
Croplan Genetics CG 3220B2RF	3.5	1.12	81.4	27.2	8.7	1	79.5	9.1	21-1
FiberMax FM 955LLB2	3.3	1.15	81.6	27.1	7.0	2	80.6	8.1	21-1,31-1
Croplan Genetics CG 3020B2RF	3.5	1.10	82.4	25.7	8.5	3	80.4	8.7	11-2,21-2
Croplan Genetics CG 3520B2RF	3.8	1.14	82.2	27.0	8.7	3	79.8	8.2	21-1,31-1
Croplan Genetics CG 4020B2RF	3.8	1.13	82.1	27.1	8.6	2	81.0	8.3	21-1
Mean	3.5	1.15	82.1	28.6	8.1	3	77.9	9.0	
c.v.%	11.3	1.5	0.7	2.0	10.1	25.5	1.1	3.8	
LSD 0.05	0.8	0.04	1.3	1.2	1.8	2	1.8	0.7	

NOTES

Table 22. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	New Variety and Strains
Planting Date:	May 12
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant Dual Magnum @ 1 1/3 pt/A and Caparol @ 2 ½ pt/A applied May 13
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	4.3 acre inches April 22 2.8 acre inches May 30 2.0 acre inches July 29 1.8 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Def @ 6oz/A October 14 Finish @ 24oz/A October 14
Harvest Date:	November 6
Freeze Date:	October 30

Table 23. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/30/09	Resistance	Height
Deltapine DP 1050 B2RF	1833	31.7	43.6	43.6	35.0	5.7	8.4	6.8	36.5	50	5	35
Monsanto 09R643B2R2	1817	33.4	44.3	43.5	35.1	5.2	8.1	6.6	33.9	70	5	28
All-Tex AT 7A21	1762	31.6	44.0	42.8	33.3	6.2	9.4	7.4	35.9	65	6	30
Deltapine DP 1028 B2RF	1749	33.1	43.9	42.5	34.0	5.9	9.2	7.2	35.3	70	5	31
Monsanto 09R621B2R2	1728	34.8	43.8	43.4	34.2	5.3	8.3	6.7	34.1	59	4	30
PhytoGen PHX 3908 WRF	1689	32.8	45.6	40.4	33.5	5.9	9.3	6.8	35.3	65	4	31
PhytoGen PHX 4905 WRF	1676	32.7	48.0	40.4	33.4	5.6	8.8	6.4	35.6	69	5	30
Deltapine DP 1034 B2RF	1646	33.1	44.1	41.9	33.9	5.4	8.4	6.4	35.1	71	4	29
Deltapine DP 0912 B2RF	1628	31.6	44.8	41.2	33.5	5.8	9.5	7.0	33.9	78	4	28
All-Tex AT 8205	1592	31.2	42.9	40.8	31.6	5.5	9.3	6.8	32.7	71	5	30
NexGen NGx F021 RF	1591	31.7	46.3	40.7	32.8	6.6	10.7	7.6	35.5	75	6	30
PhytoGen PHX 3905 WRF	1591	33.0	44.1	36.3	33.9	6.2	9.0	6.8	32.8	83	5	29
PhytoGen PHX 5908 WRF	1587	30.4	45.4	38.9	30.4	5.6	9.5	6.4	34.0	39	5	33
NexGen NGx F022 B2RF	1548	31.7	45.7	41.7	32.9	6.2	10.1	7.5	34.7	69	5	30
Monsanto 09R303B2R2	1530	30.9	44.9	35.8	32.5	6.8	10.2	7.7	31.3	49	5	30
Deltapine DP 1048 B2RF	1521	31.3	46.1	42.8	34.4	6.2	9.6	7.4	36.0	59	5	32
All-Tex AT A102	1491	31.0	46.6	41.5	33.2	6.7	10.9	7.9	35.0	76	5	28
Monsanto 09R619B2R2	1461	32.5	44.3	41.1	32.7	5.8	9.3	6.9	34.4	58	5	31
PhytoGen PHX 5935 WRF	1444	31.9	46.4	39.1	32.0	5.5	9.7	6.6	32.6	58	5	31
NexGen NGx 0712 B2RF	1427	30.3	47.0	38.8	31.4	5.7	9.4	6.3	35.0	81	6	27
PhytoGen PHX 3920 WRF	1426	31.6	45.2	38.6	31.9	5.8	10.6	7.3	30.4	86	5	25
NexGen NGx F015 B2RF	1417	29.2	48.2	37.9	30.6	5.5	9.9	6.4	32.7	66	4	29
Bayer CropScience BCSX 1010B2F	1403	30.6	47.6	39.0	31.1	5.3	10.1	6.8	30.2	73	4	28
Deltapine DP 0924 B2RF	1397	31.0	45.6	38.5	31.1	5.6	9.7	6.5	33.4	74	5	28
NexGen NGx 0723 RF	1386	29.6	46.5	39.6	32.1	5.7	10.0	7.0	32.4	80	5	29
NexGen NGx F02027 RF	1386	31.8	45.1	42.9	34.8	6.3	10.3	7.8	34.8	80	6	28
Monsanto 09R549B2R2	1354	30.0	45.6	40.6	32.8	6.0	9.6	7.0	34.7	63	5	32
PhytoGen PHX 4907 WRF	1303	30.8	47.6	39.4	30.8	6.1	10.4	6.9	34.2	75	5	30
Monsanto 09R796B2R2	1301	32.4	44.0	43.2	34.6	5.9	10.0	8.0	31.8	70	5	28
NexGen NGx 0582 B2RF	1298	27.8	46.5	34.7	27.2	7.0	10.5	6.0	39.9	88	5	23
PhytoGen PHX 5905 WRF	1294	28.6	43.8	39.6	31.6	4.9	9.2	6.5	30.2	69	4	29

Table 23. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock, TX 2009.

				Agronomic Properties								
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/30/09	Resistance	Height
PhytoGen PHX 5906 WRF	1270	29.1	44.7	42.3	33.5	5.7	9.5	7.0	33.8	65	5	31
H&W Genetex H&W 591-2 B2F	1269	31.1	47.6	39.4	32.0	5.5	9.9	6.5	33.4	90	5	24
H&W Genetex H&W 583-1 B2F	1231	28.0	48.0	33.2	26.9	7.1	11.9	6.7	35.5	83	5	25
FiberMax FM 9180B2F	1213	29.3	45.9	37.2	29.6	6.2	11.1	6.9	33.5	86	6	25
All-Tex AT Epic RF	1213	32.6	45.2	41.7	33.6	6.8	10.9	8.0	35.3	66	4	30
PhytoGen PHX 3902 WRF	1206	33.0	42.5	42.8	33.8	6.1	10.9	8.3	31.6	84	5	26
Deltapine DP 1032 B2RF	1200	29.3	43.9	42.3	34.1	5.7	8.5	6.7	36.3	63	5	31
H&W Genetex H&W 592-1 B2F	1191	28.5	46.3	37.3	29.6	6.6	11.3	7.1	34.6	81	5	25
Seed Source Genetics SSG 59-3-29	1187	28.5	47.0	37.2	30.8	7.2	10.5	6.6	40.3	91	5	28
H&W Genetex H&W 586-1 B2F	1123	26.8	47.6	34.4	27.6	7.3	11.8	6.6	38.1	80	5	28
H&W Genetex H&W 582-2 B2F	1109	28.1	49.6	34.5	27.7	6.3	10.6	6.0	36.2	83	6	27
NexGen NGx 0590 B2RF	1104	28.6	49.0	35.2	27.9	6.2	12.3	6.9	31.5	84	6	21
H&W Genetex H&W 590-2 B2F	1061	28.0	48.3	35.6	28.1	6.4	11.5	6.7	33.7	91	5	24
H&W Genetex H&W 593 B2F	1050	28.3	43.8	37.4	28.7	6.2	10.3	6.7	35.1	78	4	27
Mean	1415	30.7	45.7	39.6	31.9	6	9.9	6.9	34.3	72	5	28
c.v.%	14.7	5.4	3.2	5.8	4.0	8.7	6.2	4.6	6.6	15.1	11.5	10.5
LSD 0.05	291	2.3	2.1	4.6	2.6	1.1	1.2	0.6	4.6	15	1	4

Table 23A. Results of the irrigated new varieties and strains at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [/1]
Deltapine DP 1050 B2RF	4.2	1.12	82.7	27.4	8.9	1	80.7	8.4	11-2,31-1
Monsanto 09R643B2R2	4.7	1.13	82.8	27.8	8.7	3	79.7	7.5	31-1,31-2
All-Tex AT 7A21	4.5	1.18	83.7	29.9	7.7	3	80.7	7.4	31-1
Deltapine DP 1028 B2RF	4.6	1.12	83.1	27.9	8.6	1	80.3	8.2	21-1,31-1
Monsanto 09R621B2R2	4.6	1.12	81.9	27.0	7.9	2	80.2	7.5	31-1
PhytoGen PHX 3908 WRF	4.5	1.12	83.2	29.9	9.1	2	80.1	7.9	21-1,31-1
PhytoGen PHX 4905 WRF	4.5	1.11	82.2	29.1	7.3	2	80.5	6.8	31-1,31-2
Deltapine DP 1034 B2RF	4.5	1.15	83.8	28.1	8.6	1	80.6	7.7	21-2,31-1
Deltapine DP 0912 B2RF	5.0	1.11	83.2	29.5	8.1	2	79.9	7.6	21-2,31-2
All-Tex AT 8205	4.3	1.11	82.9	29.6	6.9	1	81.5	7.5	21-1,31-1
NexGen NGx F021 RF	4.4	1.14	83.4	30.9	6.8	2	80.1	8.2	21-2
PhytoGen PHX 3905 WRF	4.4	1.12	83.2	29.8	9.0	2	78.2	7.2	41-1
PhytoGen PHX 5908 WRF	4.1	1.15	83.5	29.9	9.1	2	80.5	8.2	21-1,21-2
NexGen NGx F022 B2RF	4.4	1.12	82.1	29.9	6.6	1	79.6	8.1	31-1
Monsanto 09R303B2R2	4.4	1.12	82.5	27.2	7.7	3	79.6	7.8	21-2,31-1
Deltapine DP 1048 B2RF	4.1	1.14	82.4	27.6	8.9	2	81.1	8.2	11-2,31-1
All-Tex AT A102	4.4	1.15	82.5	29.0	6.8	3	79.0	7.0	31-1,41-1
Monsanto 09R619B2R2	4.3	1.15	82.9	29.3	8.1	1	80.7	8.0	21-1,31-1
PhytoGen PHX 5935 WRF	4.3	1.13	81.9	29.4	8.0	4	79.0	7.6	31-1
NexGen NGx 0712 B2RF	4.4	1.15	82.7	31.1	8.1	3	79.6	7.8	31-1
PhytoGen PHX 3920 WRF	4.2	1.17	81.0	29.0	7.3	2	79.3	6.3	31-2,41-1
NexGen NGx F015 B2RF	4.7	1.12	82.2	30.7	7.2	1	79.0	8.0	21-2,31-1
Bayer CropScience BCSX 1010B2F	4.5	1.12	81.0	28.3	6.9	1	78.9	7.3	31-2
Deltapine DP 0924 B2RF	4.4	1.13	83.0	29.5	8.1	2	79.7	7.2	31-1,41-1
NexGen NGx 0723 RF	4.2	1.10	81.6	31.0	7.2	1	78.9	8.0	21-2,31-2
NexGen NGx F02027 RF	4.5	1.11	82.7	30.3	8.4	2	78.9	7.7	31-1,31-2
Monsanto 09R549B2R2	4.4	1.16	83.1	29.4	7.2	2	79.7	7.6	21-2,31-1
PhytoGen PHX 4907 WRF	4.6	1.16	83.4	31.4	8.8	2	79.7	7.8	31-1
Monsanto 09R796B2R2	4.7	1.13	82.7	29.6	8.3	2	78.6	7.3	31-1,41-1
NexGen NGx 0582 B2RF	4.0	1.10	80.0	27.2	6.0	4	79.3	6.8	31-2

Table 23A. Results of the irrigated new varieties and strains at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [/1]
PhytoGen PHX 5905 WRF	4.4	1.13	81.2	29.3	7.9	3	77.9	7.0	41-1
PhytoGen PHX 5906 WRF	4.5	1.15	82.9	30.0	8.4	3	79.1	8.1	21-2,31-1
H&W Genetex H&W 591-2 B2F	3.9	1.15	82.6	30.7	7.0	3	79.7	6.4	31-2,41-1
H&W Genetex H&W 583-1 B2F	3.6	1.25	83.1	30.2	6.9	4	80.3	6.8	31-1,41-1
FiberMax FM 9180B2F	4.2	1.13	81.7	29.6	6.6	2	80.5	7.0	31-1,31-2
All-Tex AT Epic RF	4.1	1.10	82.0	28.6	9.3	1	79.9	8.3	21-1,21-2
PhytoGen PHX 3902 WRF	4.8	1.12	83.0	28.3	7.4	2	79.1	7.4	31-2
Deltapine DP 1032 B2RF	4.5	1.12	81.7	29.2	6.9	1	80.7	7.6	21-2,31-1
H&W Genetex H&W 592-1 B2F	4.3	1.10	80.2	26.5	6.8	2	81.1	7.1	31-1
Seed Source Genetics SSG 59-3-29	4.0	1.21	80.9	31.5	5.6	3	79.8	6.3	31-1,41-1
H&W Genetex H&W 586-1 B2F	4.0	1.15	82.4	28.4	7.0	3	78.3	7.4	31-2
H&W Genetex H&W 582-2 B2F	4.2	1.16	82.4	29.9	5.7	2	80.2	7.0	31-1,31-2
NexGen NGx 0590 B2RF	4.5	1.13	81.6	28.1	7.4	1	81.1	7.8	21-1,31-1
H&W Genetex H&W 590-2 B2F	4.2	1.10	82.2	29.4	7.4	2	79.4	7.4	31-1,31-2
H&W Genetex H&W 593 B2F	4.5	1.14	82.8	28.2	8.7	2	80.2	8.1	21-2,31-1
Mean	4.3	1.13	82.4	29.2	7.6	2	79.8	7.5	
c.v.%	5.5	1.70	0.9	2.7	9.6	44.7	1.2	4.5	
LSD 0.05	0.5	0.04	1.5	1.6	1.5	2	2.0	0.7	

NOTES

Table 24. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	Regional Breeders Strains
Planting Date:	May 12
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	4.3 acre inches April 22 2.8 acre inches May 30 2.0 acre inches July 29 1.8 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Def @ 6oz/A October 14 Finish @ 24oz/A October 14
Harvest Date:	November 10
Freeze Date:	October 30

Table 25. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Lubbock, TX, 2009.

					Agronomic Properties							
			% Turnout		% Lint	Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Source	Yield	Lint	Seed	Picked	Size	Index	Index	Boll	9/30/09	Resistance	Height
Deltapine DP 393	Check	1622	31.7	47.2	44.2	5.7	10.8	8.6	29.2	81	4	27
MD25	Bill Meredith	1529	30.0	46.9	43.4	6.2	10.4	8.1	33.2	76	4	33
LA06307076	Gerald Myers	1514	27.6	48.1	42.1	5.6	11.2	8.2	29.0	75	4	32
AU3202	David Weaver	1451	31.0	44.6	45.9	5.7	10.8	9.1	28.7	66	5	35
PD05069	Todd Campbell	1423	29.0	45.2	45.3	6.9	11.6	9.7	32.2	59	5	37
LBB-4222	Jane Dever	1418	29.5	48.6	41.0	6.6	12.0	8.4	32.9	81	6	31
NM05N1104	Jinfa Zhang	1414	28.1	48.8	41.5	5.8	11.6	8.4	28.5	74	4	31
PD05058	Todd Campbell	1373	29.6	46.5	44.4	6.7	10.8	8.8	33.9	65	5	35
Ark 0113-17	Fred Bourland	1361	29.6	48.2	42.9	5.3	10.8	8.2	28.0	94	3	27
0050-3	Ted Wallace	1360	29.8	46.1	43.7	5.3	9.6	7.7	30.4	89	5	27
LA06307163	Gerald Myers	1353	30.8	47.4	44.9	6.4	10.0	8.2	35.2	66	5	32
Ark 0114-53	Fred Bourland	1349	32.3	48.1	43.7	6.4	11.6	9.3	29.8	86	5	29
AU1065	David Weaver	1344	29.8	47.5	42.5	6.1	10.4	7.9	32.9	85	5	28
GA 2004230	Peng Chee	1338	32.0	48.8	44.5	5.9	9.6	7.9	33.2	70	5	37
SureGrow 105	Check	1324	31.4	50.1	44.0	5.8	10.8	8.6	29.7	75	6	29
0028-1	Ted Wallace	1323	29.9	48.3	41.8	5.9	10.4	7.5	32.6	80	4	28
LBB-1501	Jane Dever	1321	28.2	50.8	39.0	6.1	10.8	7.2	33.2	79	5	32
07-147	Peggy Thaxton	1319	29.9	46.2	42.5	5.8	10.4	8.0	30.7	81	4	27
07-112	Peggy Thaxton	1312	29.9	47.1	42.6	6.1	10.4	7.7	34.0	84	4	29
FiberMax FM 958	Check	1307	31.1	46.9	42.3	6.1	11.2	8.4	30.6	91	5	26
0044-29	Ted Wallace	1304	30.6	47.5	43.0	5.5	10.0	7.7	31.0	89	5	28
PD03026	Todd Campbell	1290	29.3	44.7	45.0	5.9	10.4	8.6	30.6	65	5	33
02 WK-11	Steve Hague	1284	28.2	48.5	42.2	6.2	10.8	8.0	32.6	88	5	30
GA 2006106	Peng Chee	1258	30.3	48.4	43.5	6.6	10.8	8.4	34.0	78	5	31
NM03012	Jinfa Zhang	1254	27.2	46.8	41.7	5.6	10.8	7.9	29.7	76	4	31
04PST-163	Peggy Thaxton	1247	28.8	48.0	41.1	6.9	10.4	7.5	37.8	76	4	28
Ark 0102-48	Fred Bourland	1224	26.4	47.7	40.4	6.6	11.6	8.1	32.7	89	4	27
GA 2004143	Peng Chee	1204	34.0	44.8	46.9	5.7	9.2	8.3	32.5	76	5	32
LA06307004	Gerald Myers	1192	28.9	46.6	41.3	6.5	12.4	8.9	29.9	83	4	26
AU1327	David Weaver	1184	28.5	49.8	39.7	5.6	10.8	7.3	30.6	89	5	28
03 WZ-37	Steve Hague	1112	29.7	48.9	41.7	6.0	11.2	8.0	31.0	86	5	27
NM05N1054	Jinfa Zhang	1092	27.8	48.0	41.5	5.9	11.6	8.4	29.0	65	4	33
Mean		1325	29.7	47.5	42.8	6.0	10.8	8.2	31.5	79	5	30
c.v.%		15.3	4.2	3.2	2.6	6.1	5.6	6.1	7.2	8.6	11.0	8.5
LSD 0.05		284	1.7	2.1	1.5	0.5	0.8	0.7	3.2	10	1	4

Table 25A. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Lubbock, TX, 2009.

Designation	Source	Micronaire	Length	Uniformity	Strength	Elongation	Rd	+b	Color Grade [1/]
Deltapine DP 393	Check	4.9	1.14	84.0	30.6	7.6	74.9	8.3	31-1,31-2,41-1,41-4
MD25	Bill Meredith	4.6	1.19	85.5	33.6	5.5	75.8	8.1	31-1,31-2,41-4
LA06307076	Gerald Myers	5.2	1.20	86.2	33.7	7.4	74.3	8.3	31-2,31-3,41-2
AU3202	David Weaver	5.4	1.15	85.0	31.3	5.7	76.7	8.4	31-1,31-2
PD05069	Todd Campbell	5.2	1.20	84.6	35.5	5.4	76.3	8.3	31-1,31-2,31-4,41-1
LBB-4222	Jane Dever	4.8	1.11	83.0	32.8	5.5	76.1	8.6	31-1,31-2,41-3
NM05N1104	Jinfa Zhang	4.8	1.22	84.8	34.6	6.5	75.5	8.2	31-2,41-1,41-3
PD05058	Todd Campbell	5.1	1.17	84.6	32.1	5.3	76.7	8.5	21-2,31-2,41-1
Ark 0113-17	Fred Bourland	4.5	1.12	83.8	27.8	6.3	75.5	7.2	41-1,41-2
0050-3	Ted Wallace	4.7	1.06	82.7	28.5	6.0	75.0	8.0	31-2,41-1,41-2
LA06307163	Gerald Myers	4.7	1.15	84.9	32.9	6.7	76.9	8.6	31-1,31-3,31-4
Ark 0114-53	Fred Bourland	4.7	1.13	84.1	28.9	6.7	77.9	8.1	31-1,31-2,41-3
AU1065	David Weaver	4.6	1.15	84.1	31.6	5.7	76.5	7.7	41-1
GA 2004230	Peng Chee	4.7	1.23	84.2	32.2	4.9	78.8	7.8	31-1
SureGrow 105	Check	5.2	1.13	85.6	30.5	6.5	76.7	8.4	31-1,31-2
0028-1	Ted Wallace	4.9	1.14	83.3	29.6	6.1	74.9	8.2	31-2,41-1,41-4
LBB-1501	Jane Dever	4.8	1.20	84.2	34.0	5.3	75.6	7.8	31-2,41-1,41-4
07-147	Peggy Thaxton	4.7	1.18	85.3	34.5	5.2	75.4	7.6	31-2,41-1,51-1
07-112	Peggy Thaxton	4.7	1.16	84.4	31.6	6.7	77.2	7.9	31-1,31-2
FiberMax FM 958	Check	4.6	1.17	84.2	32.3	4.3	76.5	7.7	31-1,31-2,41-1
0044-29	Ted Wallace	4.7	1.08	83.1	28.4	5.2	74.2	8.1	31-2,41-1,41-2
PD03026	Todd Campbell	5.2	1.17	85.0	33.6	5.2	75.2	8.3	31-1,31-4,41-1,41-2
02 WK-11	Steve Hague	4.7	1.16	84.5	30.8	6.7	75.8	8.1	31-1,41-1,41-3
GA 2006106	Peng Chee	4.6	1.18	83.9	33.1	5.1	76.8	7.8	31-1,31-2,41-1
NM03012	Jinfa Zhang	4.6	1.18	84.3	35.7	5.7	75.3	8.2	41-1,41-3
04PST-163	Peggy Thaxton	4.6	1.16	83.6	32.6	5.3	76.7	7.9	31-1,31-2,41-1
Ark 0102-48	Fred Bourland	4.8	1.24	84.5	34.7	5.4	75.6	7.4	41-1,41-2
GA 2004143	Peng Chee	4.9	1.17	83.9	33.7	4.8	77.4	7.9	31-1,31-2,41-1
LA06307004	Gerald Myers	4.4	1.19	83.6	32.1	5.9	76.7	7.7	31-2,41-1,41-2
AU1327	David Weaver	4.2	1.14	84.0	31.8	5.2	75.0	7.7	41-1
03 WZ-37	Steve Hague	4.6	1.19	84.7	34.9	6.4	73.6	7.6	41-1,51-1
NM05N1054	Jinfa Zhang	4.5	1.22	84.6	37.1	5.7	75.4	7.8	31-2,41-1,41-2,41-3
Mean		4.8	1.16	84.3	32.4	5.8	76.0	8	
c.v.%		4.4	2.8	1.1	4.1	5.8	2.2	5.1	
LSD 0.05		0.3	0.05	1.3	1.9	0.5	2.3	0.6	

NOTES

Table 26. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	Regional High Quality
Planting Date:	May 12
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	4.3 acre inches April 22 2.8 acre inches May 30 2.0 acre inches July 29 1.8 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Def @ 6oz/A October 14 Finish @ 24oz/A October 14
Harvest Date:	November 9
Freeze Date:	October 30

Table 27. Results of the irrigated regional high quality test at Texas AgriLife Research, Lubbock, TX 2009.

					Agronomic Properties								
			% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm	
Designation	Source	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9/30/09	Resistance	Height
Deltapine DP 0935B2RF	Dave Albers	1617	32.6	43.0	41.1	32.9	6.5	9.5	7.1	37.5	65	6	30
Deltapine DP 0949B2RF	Dave Albers	1596	33.5	43.0	41.3	33.4	5.9	9.1	7.0	35.0	61	5	32
FiberMax FM 958	Check	1548	30.4	45.0	38.0	30.5	6.3	10.4	6.7	35.6	88	6	29
FiberMax FM 1740B2F	Steve Nichols/Kenny Melton	1501	33.3	45.0	41.0	33.0	6.1	9.7	7.2	34.6	85	5	26
FiberMax FM 1845LLB2	Steve Nichols/Kenny Melton	1449	30.6	46.6	37.9	30.3	6.4	11.1	7.3	33.2	74	6	32
Deltapine DP 555BG/RR	Cindy Green/Dave Albers	1405	34.3	44.2	41.6	34.1	5.3	6.7	5.2	43.0	73	4	32
MD25	Bill Meredith	1392	30.8	46.0	37.6	30.4	6.7	10.9	7.0	36.1	70	4	35
FiberMax FM 9180B2F	Steve Nichols/Kenny Melton	1348	29.8	46.7	37.7	30.1	6.2	10.2	6.6	35.4	85	6	26
Ark 0111-23	Fred Bourland	1346	30.5	46.2	37.9	30.3	6.4	10.7	7.0	34.2	84	5	32
NM05N1054	Jinfa Zhang	1331	28.9	48.3	35.8	28.7	5.9	11.4	6.8	31.0	63	4	38
Ark 0023-13	Fred Bourland	1308	30.3	46.4	38.7	31.5	6.6	11.4	7.6	33.6	80	5	31
Deltapine DP 161B2RF	Dave Albers	1299	32.1	46.6	38.1	30.8	5.8	9.0	5.9	37.8	63	5	36
Stoneville ST 4288B2RF	Steve Nichols/Kenny Melton	1296	29.1	47.6	38.0	31.0	6.1	9.9	6.4	35.8	78	4	26
06NMM010B2RF	Jinfa Zhang	1286	28.4	46.3	37.1	29.8	6.4	10.0	6.2	38.5	83	3	26
LBB-4222	Jane Dever	1257	28.8	47.4	36.4	29.1	6.3	11.3	7.1	32.4	80	6	30
LBB-1501	Jane Dever	1169	27.6	48.5	35.2	28.5	6.1	10.9	6.2	34.7	83	6	29
NM05N1104	Jinfa Zhang	1162	29.6	46.8	36.7	29.2	5.6	10.4	6.5	31.6	71	4	33
06NMM024B2RF	Jinfa Zhang	1106	26.8	43.0	37.0	29.2	6.2	10.4	6.5	35.4	79	3	28
PhytoGen PHY 72	Joel Mahill	1084	28.4	44.9	37.4	29.4	5.7	9.5	6.0	35.4	83	2	27
TAM B139-17	Steve Hague	1033	26.3	46.6	34.2	26.9	6.8	12.6	7.0	33.2	80	5	24
Mean		1327	30.0	45.9	37.9	30.4	6.1	10.2	6.6	35.2	76	4	30
c.v.%		15.0	6.0	4.9	2.4	2.2	6.1	4.6	5.2	7.0	9.6	12.1	11.5
LSD 0.05		282	2.6	3.2	1.9	1.5	0.7	1.0	0.7	5.1	10	1	5

Table 27A. Results of the irrigated regional high quality test at Texas AgriLife Reseach, Lubbock, TX, 2009.

Designation	Source	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 0935B2RF	Dave Albers	4.7	1.06	81.4	27.2	12.7	3	78.9	7.8	21-2,31-2
Deltapine DP 0949B2RF	Dave Albers	4.7	1.08	81.7	28.8	12.1	3	78.4	6.8	31-2,41-1
FiberMax FM 958	Check	4.1	1.13	81.3	30.9	9.9	3	79.2	6.5	41-1
FiberMax FM 1740B2F	Steve Nichols/Kenny Melton	4.2	1.08	80.8	28.2	12.2	2	80.5	7.1	31-1,31-2
FiberMax FM 1845LLB2	Steve Nichols/Kenny Melton	4.5	1.25	84.9	34.9	10.6	3	78.6	7.0	31-2,41-1
Deltapine DP 555BG/RR	Cindy Green/Dave Albers	4.2	1.07	79.2	27.6	11.2	2	78.1	6.1	41-1,41-2
MD25	Bill Meredith	4.2	1.15	83.2	34.6	11.3	3	78.3	7.6	31-1,41-1
FiberMax FM 9180B2F	Steve Nichols/Kenny Melton	4.0	1.15	81.2	31.5	10.9	4	78.2	6.3	41-1
Ark 0111-23	Fred Bourland	4.3	1.17	82.3	31.0	11.4	4	77.9	6.9	41-1
NM05N1054	Jinfa Zhang	4.4	1.19	82.5	33.8	10.4	4	76.2	6.9	41-1,41-2
Ark 0023-13	Fred Bourland	5.0	1.18	81.4	31.8	10.7	2	76.4	7.2	41-1
Deltapine DP 161B2RF	Dave Albers	4.7	1.14	81.9	30.6	11.7	2	79.3	7.3	31-1,31-2
Stoneville ST 4288B2RF	Steve Nichols/Kenny Melton	4.6	1.13	81.1	28.8	12.6	1	79.7	7.8	31-1
06NMM010B2RF	Jinfa Zhang	3.9	1.15	82.0	33.7	11.3	3	75.7	7.3	41-1,41-2
LBB-4222	Jane Dever	4.0	1.11	81.6	31.5	10.4	4	77.8	7.5	31-2
LBB-1501	Jane Dever	4.3	1.12	81.7	33.4	10.9	2	79.2	7.0	31-2,41-1
NM05N1104	Jinfa Zhang	4.2	1.20	83.1	33.7	11.7	3	75.5	7.0	41-1,51-1
06NMM024B2RF	Jinfa Zhang	3.9	1.18	81.8	33.6	11.6	4	76.6	7.1	41-1,41-2
PhytoGen PHY 72	Joel Mahill	4.1	1.15	82.0	32.7	12.0	2	76.4	7.4	41-1
TAM B139-17	Steve Hague	3.9	1.30	82.9	35.3	10.4	5	77.3	6.8	41-1
Mean		4.3	1.15	81.9	31.7	11.3	3	77.9	7.1	
c.v.%		6.2	2.4	1.4	4.7	3.4	29.7	1.6	5.0	
LSD 0.05		0.5	0.06	2.4	3.1	0.8	2	2.5	0.7	

NOTES

Table 28. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2009.

Test:	Verticillium Wilt
Planting Date:	May 19
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 24oz/A applied pre plant
Fertilizer:	120-0-0 lbs/A applied pre-plant
Irrigations:	3.3 acre inches April 28 2.9 acre inches July 20 2.2 acre inches August 4 2.1 acre inches August 19
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 1qt/A + 2 oz E.T. + 1% crop oil applied October 8
Harvest Date:	December 18
Freeze Date:	October 30

Table 29. Results of the verticillium wilt variety test at Texas AgriLife Research , Halfway, TX 2009.

				Agronomic Properties										
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	% Open Bolls	Storm		Wilt[1]	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/15/09	Resistance	Height	8/28/09	Defoliation
FiberMax FM 9170B2F	1568	29.6	45.6	38.3	31.3	5.1	9.1	5.9	33.5	61	5	35	25	1.0961
NexGen NG 3348 B2RF	1374	27.0	44.1	37.3	30.5	5.9	12.9	8.1	27.2	74	6	32	25	1.6264
FiberMax FM 9160B2F	1369	27.6	46.0	36.6	30.2	5.5	10.5	6.4	31.0	74	6	34	18	1.0003
FiberMax FM 1740B2F	1308	28.5	43.4	39.3	32.3	5.7	10.7	7.2	30.9	74	5	31	33	1.7813
NexGen NG 3410 RF	1307	27.0	47.3	36.9	30.7	6.2	12.0	7.5	30.7	78	5	32	21	1.7846
PhytoGen PHY 367 WRF	1240	27.5	45.1	37.4	29.4	5.0	9.4	6.0	31.3	73	3	32	30	1.7969
Stoneville ST 4288B2F	1225	26.9	46.8	33.8	27.6	5.6	9.9	5.5	34.8	63	4	33	32	1.6264
Deltapine DP 0935 B2RF	1177	28.9	43.0	38.7	31.0	5.7	10.5	7.1	32.4	43	6	36	19	1.7842
Monsanto 09R536B2R2	1165	28.9	43.3	41.0	32.4	5.4	10.5	7.4	30.2	73	4	35	31	2.1719
NexGen NG 2549 B2RF	1165	26.2	46.4	36.2	29.7	5.1	9.4	5.6	33.3	85	7	33	26	1.8317
FiberMax FM 1845LLB2	1152	25.6	45.5	37.8	29.9	5.7	11.4	7.1	30.2	68	5	34	18	1.5574
Monsanto 09R532B2R2	1136	25.9	47.7	33.8	27.9	6.2	10.0	5.5	38.4	81	4	32	30	1.7695
NexGen NG 1551 RF	1131	25.8	48.5	33.6	27.0	5.8	12.5	6.8	28.8	88	3	30	21	1.9597
Deltapine DP 0912 B2RF	1106	27.7	46.3	38.5	30.7	5.0	9.6	6.3	30.2	81	4	33	40	1.9411
Deltapine DP 0949 B2RF	1094	29.7	42.5	37.6	29.9	4.5	8.1	5.2	32.8	55	4	38	24	1.9375
FiberMax FM 955LLB2	1064	26.9	47.9	33.7	27.5	5.7	11.9	6.4	30.1	73	6	33	29	1.5156
Croplan Genetics CG 3020B2RF	1061	25.4	45.7	35.2	28.1	5.1	11.0	6.4	28.5	68	4	34	28	1.8776
Bayer CropScience BCSX 1010B2F	1050	24.7	45.5	34.9	27.8	5.1	8.5	4.9	37.2	68	4	35	31	1.5166
Monsanto 09R303B2R2	1046	26.7	42.3	40.8	32.1	4.9	10.3	7.4	27.3	65	5	34	31	2.0000
PhytoGen PHY 375 WRF	1042	25.5	42.1	37.7	29.6	5.1	8.7	5.7	34.1	70	3	35	35	1.9834
Deltapine DP 0924 B2RF	1038	26.9	46.3	37.2	30.2	5.1	7.7	4.9	38.8	69	4	35	34	2.0725
Croplan Genetics CG 3520B2RF	1037	25.9	46.6	35.1	27.8	4.6	8.3	4.8	34.4	80	4	30	31	2.0625
Croplan Genetics CG 4020B2RF	1036	24.9	44.8	35.7	28.5	5.1	9.1	5.4	34.2	76	5	33	32	1.9018
Monsanto 09R796B2R2	1035	27.1	43.0	39.1	32.1	5.1	10.2	7.0	28.9	66	5	36	37	2.2628
Deltapine DP 0920 B2RF	1010	26.9	44.7	37.5	30.1	4.8	9.3	5.8	31.0	66	5	34	34	1.8166
Croplan Genetics CG 3220B2RF	961	26.4	46.4	36.0	28.2	5.0	10.2	6.1	29.8	71	4	34	33	2.2543
Monsanto 09R615B2R2	960	26.9	42.8	38.3	30.4	5.1	10.4	7.0	28.4	58	5	36	34	1.7912
Monsanto 09R619B2R2	948	26.4	44.8	38.6	30.4	5.2	9.1	6.1	33.8	48	5	36	31	1.6664
Monsanto 09R643B2R2	940	26.7	43.3	36.5	28.4	4.8	8.2	5.2	34.2	51	5	34	27	1.7052
Stoneville ST 5288B2F	939	25.4	42.4	35.7	28.1	4.6	9.0	5.3	31.0	69	5	34	34	1.7408
PhytoGen PHY 565 WRF	899	26.4	43.4	37.7	30.1	4.4	8.2	5.2	31.5	58	4	35	25	1.7173

Table 29. Results of the verticillium wilt variety test at Texas AgriLife Research , Halfway, TX 2009.

				Agronomic Properties						% Open				
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		Wilt[1]	
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/15/09	Resistance	Height	8/28/09	Defoliation
Croplan Genetics CG 3035RF	878	26.3	42.6	37.7	30.1	4.6	10.1	6.7	29.3	69	5	36	46	2.1489
Mean	1108	26.8	44.9	37.0	29.7	5.2	9.9	6.2	31.8	68	5	34	30	1.8031
c.v.%	10.6	5.8	4.0	4.0	3.8	6.9	12.2	13.4	15.6	9.8	12.9	5.2		
LSD 0.05	165	2.2	2.5	3.0	2.3	0.7	2.5	1.7	10.0	9	1	2		0.1514

[1] Value corrected for block effect

Table 29A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Halfway, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
FiberMax FM 9170B2F	3.3	1.20	81.4	30.1	6.2	3	80.5	6.3	31-2,41-1
NexGen NG 3348 B2RF	3.5	1.16	82.4	29.3	6.8	5	78.3	7.2	31-2,41-1
FiberMax FM 9160B2F	3.2	1.18	83.4	29.7	5.9	3	80.4	6.6	31-2
FiberMax FM 1740B2F	3.3	1.11	81.7	28.9	7.2	4	80.9	6.9	31-1
NexGen NG 3410 RF	2.9	1.18	82.1	30.3	7.0	5	78.4	7.2	31-2,41-1
PhytoGen PHY 367 WRF	3.2	1.13	81.5	29.0	7.7	3	78.9	7.7	31-1,31-2
Stoneville ST 4288B2F	3.5	1.14	82.0	29.0	8.1	4	78.6	7.9	31-1,31-2
Deltapine DP 0935 B2RF	3.7	1.09	80.9	27.1	7.0	3	81.6	7.7	21-1,21-2
Monsanto 09R536B2R2	4.2	1.15	82.3	29.6	7.2	3	78.4	7.5	31-2
NexGen NG 2549 B2RF	3.5	1.05	81.5	28.0	8.4	5	78.6	7.1	31-2,41-1
FiberMax FM 1845LLB2	3.3	1.18	81.6	29.6	6.3	3	80.5	6.9	31-1,31-2
Monsanto 09R532B2R2	3.2	1.12	82.2	29.2	8.3	4	79.3	6.8	31-2,41-1
NexGen NG 1551 RF	4.0	1.12	82.7	30.4	6.4	3	77.1	7.3	41-1
Deltapine DP 0912 B2RF	3.5	1.10	81.6	28.4	8.1	4	77.8	7.6	31-1,41-1
Deltapine DP 0949 B2RF	3.3	1.11	81.6	28.4	7.9	3	79.7	7.5	31-1,31-2
FiberMax FM 955LLB2	3.0	1.15	81.4	28.3	7.1	4	79.5	7.1	31-2
Croplan Genetics CG 3020B2RF	2.9	1.10	81.7	27.4	7.7	3	78.7	7.7	31-1,31-2
Bayer CropScience BCSX 1010B2F	3.3	1.15	80.6	28.8	6.0	4	78.6	7.0	31-2,41-1
Monsanto 09R303B2R2	2.8	1.12	81.2	27.6	8.1	4	79.0	7.7	21-2,31-2
PhytoGen PHY 375 WRF	3.4	1.12	80.9	27.4	7.2	3	78.7	7.2	31-2
Deltapine DP 0924 B2RF	3.5	1.09	80.8	27.8	7.9	4	78.5	7.2	31-1,41-1
Croplan Genetics CG 3520B2RF	3.3	1.15	82.0	27.2	8.2	4	78.2	6.7	31-2,41-1
Croplan Genetics CG 4020B2RF	3.1	1.14	80.7	26.9	7.6	2	79.6	7.3	31-1,31-2
Monsanto 09R796B2R2	3.3	1.12	82.5	29.9	8.1	4	79.5	7.2	31-1,31-2
Deltapine DP 0920 B2RF	3.5	1.13	81.2	27.6	7.9	4	78.5	7.2	31-2
Croplan Genetics CG 3220B2RF	3.0	1.12	81.1	28.2	8.1	2	79.7	7.4	31-1
Monsanto 09R615B2R2	3.0	1.10	81.7	26.5	8.8	1	79.6	8.7	21-1,21-2
Monsanto 09R619B2R2	3.7	1.11	82.0	26.2	8.5	1	79.4	7.8	31-1
Monsanto 09R643B2R2	3.5	1.12	82.2	26.5	9.2	3	79.9	7.3	31-1
Stoneville ST 5288B2F	3.2	1.11	80.8	27.9	7.7	4	78.9	7.0	31-2

Table 29A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Research, Halfway, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
PhytoGen PHY 565 WRF	3.1	1.13	80.4	28.6	8.1	4	77.8	8.5	31-1
Croplan Genetics CG 3035RF	2.7	1.10	80.2	28.1	7.9	3	79.2	7.6	31-1
Mean	3.3	1.13	81.5	28.4	7.6	3	79.1	7.3	
c.v.%	8.1	2.10	0.7	3.7	6.2	24.5	0.9	5.5	
LSD 0.05	0.5	0.05	1.2	2.1	1.0	2	1.4	0.8	

NOTES

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

Test:	Nematode Variety
Planting Date:	May 6
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Prowl @ 3 pt/A applied pre plant
Fertilizer:	10-34-0 @100 lbs/A applied pre-plant
Irrigations:	7.3 acre-in applied May-September
Insecticide:	Temik @ 2.4 lbs/A at planting
Harvest Aids:	Prep @ 21 oz/A + 2oa E.T. + 1% crop oil applied September 29 Gramoxone Inteon @ 24 oz/A applied October 9
Harvest Date:	October 27
Freeze Date:	October 30

Table 31. Results of the pivot irrigated nematode variety test at the AG-CARES farm Lamesa, Texas 2009

				Agronomic Properties						% Open			Root-knot
		% Turnout		% Lint		Boll	Seed	Lint	Seed per	Bolls	Storm		Nematode
Designation	Yield	Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/6/09	Resistance	Height	500CM^3 soil
Deltapine DP 174 RF	1573	33.7	43.2	43.0	34.4	5.2	8.7	7.3	30.9	29	5	31	305 g[1]
Deltapine DP 0935 B2RF	1547	34.6	45.2	43.0	32.4	4.8	9.0	7.3	28.4	31	5	31	6,090 a-e
Stoneville ST 5458B2RF	1407	30.7	46.5	41.5	33.0	5.3	9.3	7.1	31.4	26	5	30	3,945 a-f
PhytoGen PHY 367 WRF	1396	30.4	45.7	40.5	30.7	4.1	8.4	6.2	27.2	44	3	28	600 fg
Stoneville ST 5288B2F	1384	31.2	45.9	40.5	32.2	4.8	8.0	5.9	33.2	20	5	30	10,830 ab
PhytoGen PHY 565 WRF	1373	30.9	46.2	40.0	30.0	4.2	8.0	5.7	28.9	24	4	34	9,150 ab
Stoneville ST 4288B2F	1348	30.4	47.3	43.2	32.1	5.4	9.4	7.0	32.1	26	4	30	1,110 b-g
FiberMax FM 955LLB2	1346	29.6	48.1	38.0	29.1	5.8	11.1	7.4	30.3	36	6	31	21,990 a
Croplan Genetics CG 3220B2RF	1324	31.6	46.7	41.5	32.6	4.9	9.4	6.9	29.6	46	5	31	5,820 a-e
All-Tex AT 8VCRN-123	1322	30.0	47.8	40.0	30.8	5.2	11.0	7.7	26.7	30	4	29	9,930 a-d
Croplan Genetics CG 3035RF	1277	32.0	45.7	42.0	33.6	5.0	8.6	7.1	30.1	30	5	30	4,050 efg
Deltapine DP 164 B2RF	1251	29.6	48.3	40.0	31.4	4.7	8.4	5.8	32.0	21	5	31	4,800 d-g
Bayer CropScience BCSX 1010B2F	1221	30.0	47.4	39.0	31.0	5.1	9.6	6.6	30.4	31	4	30	3,900 a-e
FiberMax FM 9170B2F	1211	31.3	45.6	42.0	31.8	4.4	9.1	6.9	26.3	31	5	30	11,490 ab
Croplan Genetics CG 4020B2RF	1207	29.1	47.4	40.0	30.4	5.1	9.1	6.4	31.4	45	5	29	6,780 c-g
Croplan Genetics CG 3520B2RF	1199	28.2	48.2	39.5	29.7	4.3	8.8	6.2	27.6	49	4	29	1,920 b-g
FiberMax FM 1845LLB2	1146	29.9	46.5	38.5	30.1	5.2	10.5	7.1	28.3	33	6	29	11,910 a-d
FiberMax FM 9160B2F	1141	31.8	47.0	40.5	31.8	4.9	9.3	6.6	29.8	55	6	28	16,0200 ab
FiberMax FM 9063B2F	1134	28.6	47.4	35.5	26.5	4.9	11.2	6.5	26.9	51	6	27	11,790 abc
Croplan Genetics CG 3020B2RF	1112	27.0	49.7	40.5	31.1	4.9	9.4	6.5	30.2	55	4	28	4,200 a-e
Mean	1296	30.5	46.8	40.4	31.2	4.9	9.3	6.7	29.6	36	5	30	
c.v.%	11.2	4.0	2.1	3.8	3.7	5.0	2.9	5.1	3.4	17.6	9.4	8.3	
LSD 0.05	205	1.7	1.4	3.2	2.4	0.5	0.6	0.7	2.1	9	1	3	

[1] Different letters after the means indicate that means were significantly different, based upon a log10 transformation of root-knot nematode density. There were varieties that had a plot with very high nematode populations that greatly increased the average, so the transformation was necessary to normalize the data.

Table 31A. Results of the pivot irrigated nematode variety test at the AG-CARES farm, Lamesa, TX, 2009.

Designation	Micronaire	Length	Uniformity	Strength	Elongation	Leaf Index	Rd	+b	Color Grade [1/]
Deltapine DP 174 RF	4.8	1.08	80.3	26.7	7.5	3	78.0	7.8	31-1
Deltapine DP 0935 B2RF	5.1	1.03	80.4	26.5	7.5	2	79.4	8.2	31-2
Stoneville ST 5458B2RF	5.0	1.07	80.6	28.7	6.8	4	77.3	8.4	31-2,41-1
PhytoGen PHY 367 WRF	4.3	1.09	80.5	28.0	7.9	3	77.2	8.2	31-1,31-2
Stoneville ST 5288B2F	4.9	1.06	80.4	26.7	8.1	3	79.0	7.3	31-1,31-2
PhytoGen PHY 565 WRF	4.6	1.08	80.9	28.4	7.5	2	78.0	8.0	31-2,41-1
Stoneville ST 4288B2F	5.0	1.07	81.2	27.7	7.6	3	78.7	8.5	21-2,31-1
FiberMax FM 955LLB2	4.8	1.15	82.1	28.5	5.7	4	79.8	7.5	31-1
Croplan Genetics CG 3220B2RF	4.7	1.10	82.3	28.1	7.3	2	79.0	7.8	31-1,41-1
All-Tex AT 8VCRN-123	4.6	1.10	81.9	30.5	6.3	3	77.6	8.2	31-1,31-2
Croplan Genetics CG 3035RF	4.6	1.05	81.8	27.5	8.5	2	78.7	8.3	31-2
Deltapine DP 164 B2RF	4.7	1.12	81.5	28.8	6.3	2	79.0	7.4	31-1,31-2
Bayer CropScience BCSX 1010B2F	4.6	1.11	81.4	27.9	5.9	2	77.8	7.5	31-1
FiberMax FM 9170B2F	4.2	1.12	81.6	29.5	6.2	4	80.1	6.8	31-1
Croplan Genetics CG 4020B2RF	4.6	1.10	81.1	26.5	7.1	3	78.4	7.6	31-2,41-1
Croplan Genetics CG 3520B2RF	4.5	1.12	81.4	27.4	8.2	2	78.0	7.8	31-1,31-2
FiberMax FM 1845LLB2	4.6	1.15	81.4	30.9	6.1	4	79.5	7.4	31-1
FiberMax FM 9160B2F	4.3	1.11	81.8	29.0	5.7	3	78.9	7.4	31-1,31-2
FiberMax FM 9063B2F	4.3	1.14	81.4	29.8	5.2	4	79.8	7.2	21-2,31-2
Croplan Genetics CG 3020B2RF	4.2	1.10	81.2	26.6	7.5	3	79.4	7.4	31-2
Mean	4.6	1.10	81.2	28.2	6.9	3	78.6	7.7	
c.v.%	4.9	1.8	0.6	2.9	7.8	41.3	0.8	3.1	
LSD 0.05	0.5	0.04	1.1	1.7	1.1	2	1.3	0.5	

NOTES

Table 32. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2009.

Test:	Bacterial Blight
Planting Date:	May 5
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 1 ¼ pt/A applied pre plant
Fertilizer:	80-20-0 lbs/A applied pre-plant
Irrigations:	3.4 acre inches March 17 3.3 acre inches April 20 1.5 acre inches June 24 1.4 acre inches July 22 1.5 acre inches August 13
Bacterial Blight:	Inoculums applied August 19
Insecticide:	Telone II fumigant (for nematodes) applied April 6 Temik @ 2.4 lbs/A at planting
Harvest Aids:	Def @ 6oz/A October 14 Finish @ 24oz/A October 14
Harvest Date:	November 5
Freeze Date:	October 30

Table 33. Ratings of the Bacterial Blight variety screening at Texas AgriLife, Research, Lubbock, TX, 2009.

Variety	%Blight
Stoneville ST 5288B2F	0d
FiberMax FM 9160B2F	1d
Monsanto 09R555B2R2	1d
AgriLife 08-9-2507	1d
FiberMax FM 955LLB2	4cd
FiberMaxF M 9170B2F	8cd
PhytoGen PHY 375 WRF	8cd
Monsanto 09R550B2R2	10cd
FiberMax FM 1845LLB2	11cd
Croplan Genetics CG 3020B2RF	18c
Croplan Genetics CG 3520B2RF	61b
Monsanto 09R796B2R2	69b
Monsanto 09R999B2R2	86a
Croplan Genetics CG 3220B2RF	88a
Deltapine DP 0912	89a
Croplan Genetics CG 4020B2RF	91a
Deltapine DP 0924	94a
Monsanto 09R549B2R2	94a
Monsanto 09R619B2R2	94a
Monsanto 09R621B2R2	94a
PhytoGen PHY 367 WRF	95a
Croplan Genetics CG 3035RF	96a
PhytoGen PHY 565 WRF	96a
Monsanto 09R643B2R2	98a
Bayer CropScience BCSX 1010B2F	100a
Monsanto 09R303B2R2	100a
Monsanto 09R573B2R2	100a
Monsanto 09R605B2R2	100a
Monsanto 09R615B2R2	100a
Stoneville ST 4288B2F	100a
Mean	64
c.v.%	18.3
LSD 0.05	15

Sprayed with Race 18 of bacterial blight
(10^6 bacteria/ml at a rate of 50 gal/acre)
on August 19th and rated on September 5th.