

Cotton Performance Tests in the Texas High Plains and Trans-Pecos Areas of Texas 2008^{1/}

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INTRODUCTION

Cotton performance trials were conducted during 2008 at Lubbock, Halfway, and Pecos, Texas AgriLife Research Centers. The Lamesa variety tests were planted on the AG-CARES research farm. An irrigated variety test was also planted near Tulia on the Dale Swinburn 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 High Plains and Panhandle regions of Texas in 2008, approximately 3.1 million acres of cotton was planted. However, the 2008 season started off hot, windy and dry, and much of the dryland acreage did not survive the early drought and high winds, and additional acreage was lost in June to hail. Approximately 950,000 acres of cotton was lost due to weather, about 76% of this was dryland. Poor early season conditions were compounded by unusually cool conditions late season. Because of an early frost on October 21, yield from late season bolls was lost and lint quality was compromised in regard to low micronaire and bark content. Later maturing varieties were especially affected. The yield across irrigated acreage was estimated at about 800 lbs/ac while dryland was expected to average about 400 lbs/ac. Approximately 3.5 million bales were harvested in 2008, down substantially from 2007 when 5.41 million bales were harvested.

Insect pressure was relatively light in 2008 resulting in an estimated 0.4% reduction in yield. Thrips infestations were high in early planted cotton north of Lubbock, but fairly light in late plantings, and in areas south of Lubbock. Western flower thrips was the predominant thrips species encountered, and at planting and foliar treatments targeting thrips were effective in mitigating thrips populations. However, even where not managed, because of the warm conditions, damage due to thrips was generally not severe or yield threatening in most areas.

Cotton fleahopper and *Lygus* populations were much lower relative to 2007. In fact, cotton fleahoppers were a non-issue except in a few late planted fields north of Lubbock. *Lygus* were problematic in isolated fields adjacent to alfalfa late season.

Aphid populations rose sharply in mid to late August, but lady beetle populations quickly reduced these outbreaks in most cases. Late season aphids threatened, but rarely developed into treatable populations.

We experienced some threatening populations of bollworms and beet armyworms in non-Bt cotton at mid season in some western areas of the High Plains, and during late August and September in some areas north of Lubbock. Although no Bt cotton required treatment for bollworms or beet armyworms, approximately 65% and 13% of the non-Bt cotton required treatment for bollworms and beet armyworms respectively.

Approximately 50% of our 2008 acreage was planted to Bt varieties which was up substantially from 2007. However, this is probably more a reflection of the loss of dryland acreage (primarily non-Bt cotton varieties) due to weather than a substantial shift in variety trait selection.

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 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, Cory Arce, Joel Arce, Troy Arce, Mark Arnold, Matt Baskin, Bradley Carter, Natalia Castillo, Heather Elkins, Erik Everitt, Tyler Fairchild, Johnny Fuentes, Casey Hardin, Brad Harris, Amanda Jones, Carol Kelly, Raina King, Jimmy Mabry, Jimmy Martinez, Hardy Parsons, Kim Peters, Galen Roberts, Lex Roberts, Monica Sheehan, Raymond Tillis, and Leslie Wells. Bacterial blight, verticillium wilt, and nematode ratings were performed Dr. Terry Wheeler, with the assistance of Evan Arnold, Justin Carthel, Lindsy Clark, 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 percent 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 in inches 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 an 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.

1/ Fiber quality determinations are made on samples from two reps. If the color grades from these two samples are identical, only one color grade is reported.

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Prep and Def-trademarks of Bayer CropScience

Treflan-registered trademark of Helena Chemical

Roundup and Roundup Ready Flex -registered trademarks of Monsanto

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Pentia and Prowl-trademark of BASF

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NOTES

Table 1. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2008.

Test:	Uniform Variety
Planting Date:	May 17
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant Dual Magnum @ 1 ¼/A applied June 12
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.3 acre inches April 25 2.3 acre inches June 18 1.7 acre inches July 14 2.5 acre inches August 1 2.5 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms
Harvest Aids:	None
Harvest Date:	November 21
Freeze Date:	October 23

Table 2. Results of the irrigated cotton variety test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/23/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 1740B2F	2197	30.7	41.0	41.5	32.7	5.6	11.1	8.2	28.5	85	5	26
Stoneville ST 5458B2RF	2104	29.2	43.4	40.5	32.4	5.7	11.4	8.1	28.7	76	5	27
FiberMax FM 958LL	2029	29.5	42.2	40.3	31.1	5.9	11.5	7.9	30.0	80	6	25
Croplan Genetics CG 3220B2RF	2003	29.8	43.4	39.0	30.6	5.7	10.4	6.9	32.3	78	5	27
All-Tex AT Epic RF	1983	30.9	43.2	39.1	32.4	6.0	9.9	6.8	35.1	76	5	29
FiberMax FM 9180 B2F	1964	28.1	43.6	39.2	32.1	6.1	12.0	8.1	30.0	84	6	26
Stoneville ST 4554B2RF	1962	28.7	42.1	38.2	32.8	6.2	10.7	7.1	33.5	73	4	27
Deltapine DP 555 BG/RR	1958	29.6	41.8	40.5	30.8	4.6	9.4	6.8	27.5	75	5	30
NexGen NG 4377 B2RF	1958	28.8	43.5	39.0	30.6	5.3	10.7	7.1	29.1	81	5	27
Deltapine DP 121 RF	1953	30.0	39.7	40.9	33.5	5.1	10.7	7.8	26.7	74	4	27
Croplan Genetics CG 3035RF	1951	29.5	41.9	41.6	32.8	5.9	10.7	7.8	31.2	78	5	29
PhytoGen PHY 375 WRF	1948	28.8	40.7	39.6	29.7	5.1	10.7	7.5	26.7	78	4	26
FiberMax FM 955LLB2	1948	27.1	43.8	37.6	28.9	6.3	12.7	8.0	29.7	81	5	27
Stoneville ST 4498B2RF	1942	26.7	42.1	38.9	34.2	6.2	11.1	7.1	34.1	75	5	27
FiberMax FM 9058F	1937	28.9	41.9	39.7	32.0	6.0	11.7	8.5	28.1	79	6	25
FiberMax FM 1880B2F	1931	29.6	44.7	38.0	30.7	5.8	10.9	6.9	31.8	84	5	31
Stoneville ST 5327B2RF	1920	28.3	41.9	38.1	29.4	4.9	10.8	7.2	26.3	74	4	27
All-Tex AT Apex B2RF	1902	26.9	41.8	39.0	29.3	5.3	10.8	7.1	28.9	80	4	27
FiberMax FM 9160B2F	1876	29.7	43.4	40.4	35.0	5.3	10.3	6.9	31.0	81	6	27
PhytoGen PHY 370 WR	1856	28.0	39.5	40.9	31.8	5.2	10.4	7.4	28.5	76	4	27
Deltapine DP 174 RF	1855	28.7	39.3	42.3	34.6	5.7	10.4	7.9	30.2	73	5	29
FiberMax FM 9063B2F	1837	27.3	42.3	40.0	30.1	5.8	12.1	8.2	28.4	79	6	25
Deltapine DP 164 B2RF	1836	26.8	44.5	37.1	29.1	5.0	10.6	6.4	28.8	74	5	30
Croplan Genetics CG 4020B2RF	1833	27.3	41.4	38.9	29.6	5.1	10.6	6.9	28.5	83	5	27
All-Tex AT Summit B2F	1829	27.6	44.0	36.4	29.2	5.9	10.7	7.0	30.3	81	5	25
Americot AM 1532 B2RF	1816	27.6	42.8	38.7	29.6	5.3	10.8	7.1	28.8	84	5	27
FiberMax FM 958	1813	29.9	41.9	40.4	32.5	6.1	11.6	8.3	29.8	76	6	26
Deltapine DP 141 B2RF	1806	27.0	44.4	36.7	34.8	4.8	9.9	5.9	29.6	78	5	28
NexGen NG 3331 B2RF	1801	27.6	42.4	39.7	31.6	5.6	11.1	7.6	29.5	80	5	28
PhytoGen PHY 425 RF	1801	26.8	43.6	37.8	30.4	5.2	10.2	6.5	30.6	75	4	29

Table 2. Results of the irrigated cotton variety test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/23/08			
		Lint	Seed	Picked	Pulled								
PhytoGen PHY 315 RF	1790	27.4	39.3	40.4	30.6	5.4	10.8	7.6	28.8	76	4	27	
Stoneville ST 4427B2F	1776	27.0	43.1	38.3	30.0	5.3	11.0	6.2	34.2	81	4	26	
Seed Tec Genetics CT 210	1764	27.9	42.3	39.2	31.4	5.3	9.6	6.3	33.1	71	5	26	
Deltapine DP 143 B2RF	1749	26.8	45.4	36.3	28.8	5.1	10.3	6.3	29.5	76	5	26	
Croplan Genetics CG 3020B2RF	1746	26.6	44.3	37.7	28.7	5.3	11.0	6.8	29.3	84	5	25	
Deltapine DP 104 B2RF	1736	26.9	45.8	37.4	33.1	5.8	11.3	6.6	32.7	90	6	24	
Croplan Genetics CG 3520B2RF	1735	26.9	42.9	39.8	33.9	4.4	10.1	6.5	27.4	89	5	24	
PhytoGen PHY 485 WRF	1729	26.6	42.6	37.7	28.5	5.1	10.6	6.6	29.0	78	4	28	
Deltapine DP 147 RF	1724	27.3	42.9	39.6	31.4	5.7	10.5	7.0	32.3	79	5	27	
NexGen NG 4370 B2RF	1723	27.8	43.5	38.5	30.2	5.4	10.5	6.8	30.8	78	5	28	
Deltapine DP 161 B2RF	1721	27.6	44.5	37.5	32.9	4.6	9.8	6.1	28.5	74	5	28	
AFD 5065B2F	1690	26.2	45.5	36.0	30.5	5.5	12.1	7.0	28.0	83	6	26	
NexGen NG 3348 B2RF	1663	28.7	43.3	39.3	31.5	6.0	11.7	7.8	30.3	78	5	24	
All-Tex AT 65018 RF	1659	26.3	44.3	36.7	28.1	5.7	11.2	6.7	31.5	81	5	25	
PhytoGen PHY 72	1648	27.8	41.7	38.3	32.4	5.9	11.4	7.4	30.3	75	4	28	
AFD 5064F	1642	26.2	43.1	37.3	29.6	5.6	11.1	6.8	30.4	75	5	27	
NexGen NG 2448 R	1639	28.7	44.9	37.9	29.7	6.1	11.3	7.4	31.4	81	7	24	
NexGen NG 3410 RF	1635	27.1	43.8	38.4	29.7	5.9	11.8	7.7	29.8	71	6	27	
FiberMax FM 1735LLB2	1618	27.8	42.3	38.7	30.0	4.7	10.8	7.0	26.1	79	6	26	
Texas Tech Raider 276	1602	24.7	43.6	36.0	27.5	5.8	12.2	7.0	29.7	71	6	28	
NexGen NG 1572 RF	1547	25.8	41.5	39.3	31.4	5.5	10.9	7.3	29.5	85	7	26	
All-Tex AT Atlas RR	1422	27.2	45.7	36.6	29.3	6.0	11.3	7.0	31.5	70	6	26	
Mean	1817	27.9	42.8	38.8	31.0	5.5	10.9	7.1	29.9	78	5	27	
c.v.%	8.6	4.9	3.2	3.1	7.1	5.9	3.7	5.0	8.1	6.5	9.7	6.4	
LSD 0.05	184	1.6	1.6	2.0	3.7	0.5	0.7	0.6	4.1	6	1	2	

Table 2A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 1740B2F	4.1	1.13	80.8	27.7	10.2	1	80.1	7.7	31-1
Stoneville ST 5458B2RF	4.2	1.14	81.1	28.4	10.9	2	75.8	9.0	31-2,31-3
FiberMax FM 958LL	4.3	1.18	83.4	29.5	8.2	2	81.3	7.5	21-2,31-1
Croplan Genetics CG 3220B2RF	3.9	1.12	79.1	27.0	11.4	1	79.5	8.7	21-1,21-2
All-Tex AT Epic RF	3.9	1.13	81.3	27.6	12.2	1	78.3	8.7	21-1,31-2
FiberMax FM 9180 B2F	4.1	1.20	80.8	29.6	9.8	3	81.2	7.5	21-2,31-1
Stoneville ST 4554B2RF	4.1	1.13	81.4	27.3	11.5	2	79.7	8.8	21-1,31-1
Deltapine DP 555 BG/RR	3.3	1.13	79.4	27.9	10.5	1	79.5	7.8	31-1
NexGen NG 4377 B2RF	4.5	1.14	82.4	27.5	10.6	2	78.0	8.8	31-1
Deltapine DP 121 RF	4.3	1.12	82.1	27.7	10.9	2	77.3	9.3	21-4,31-1
Croplan Genetics CG 3035RF	3.9	1.13	80.5	26.6	12.1	1	77.7	9.1	21-2,31-3
PhytoGen PHY 375 WRF	4.0	1.15	81.7	26.2	8.9	1	80.4	8.2	21-1,31-1
FiberMax FM 955LLB2	4.0	1.19	80.3	28.9	9.7	1	77.6	8.0	31-1,41-1
Stoneville ST 4498B2RF	3.6	1.15	81.9	28.1	11.0	3	78.3	9.1	21-3,31-1
FiberMax FM 9058F	3.7	1.17	80.3	28.6	9.2	1	78.5	7.6	31-1,31-2
FiberMax FM 1880B2F	3.8	1.18	80.9	28.9	9.6	2	80.5	7.5	31-1
Stoneville ST 5327B2RF	3.8	1.15	81.1	28.7	10.8	2	78.5	8.9	21-1,31-1
All-Tex AT Apex B2RF	3.9	1.17	80.8	27.3	11.5	2	79.6	8.3	21-1,31-1
FiberMax FM 9160B2F	3.7	1.20	82.6	29.3	10.0	1	80.9	7.9	21-2
PhytoGen PHY 370 WR	4.0	1.08	81.3	26.5	11.7	2	79.7	8.6	21-1,31-1
Deltapine DP 174 RF	3.7	1.12	78.8	27.0	10.9	1	78.4	8.1	21-2,31-2
FiberMax FM 9063B2F	4.0	1.22	81.4	29.9	9.5	2	80.4	7.2	31-1
Deltapine DP 164 B2RF	3.9	1.17	81.2	28.1	9.6	1	80.9	8.1	21-1,21-2
Croplan Genetics CG 4020B2RF	4.0	1.16	80.2	26.3	11.3	3	78.5	8.5	31-1
All-Tex AT Summit B2F	4.0	1.13	82.4	26.1	10.6	1	79.3	8.2	21-2,31-1
Americot AM 1532 B2RF	3.9	1.17	80.7	26.8	10.0	1	81.1	8.5	21-1
FiberMax FM 958	4.1	1.17	80.9	30.2	10.1	3	79.6	7.9	31-1
Deltapine DP 141 B2RF	3.5	1.16	79.0	28.1	10.6	2	81.2	7.4	21-1,31-1
NexGen NG 3331 B2RF	4.3	1.13	81.8	27.3	10.3	3	77.6	8.7	31-1
PhytoGen PHY 425 RF	4.4	1.13	81.5	26.6	11.3	2	78.8	8.8	21-1,21-2

Table 2A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
PhytoGen PHY 315 RF	3.7	1.12	79.6	26.9	10.0	1	79.3	8.4	21-1,31-1
Stoneville ST 4427B2F	4.1	1.14	82.2	27.2	9.9	2	78.8	8.3	31-1
Seed Tec Genetics CT 210	3.8	1.13	81.2	28.4	10.4	1	81.2	8.3	21-1
Deltapine DP 143 B2RF	3.3	1.18	78.5	27.9	10.2	3	80.3	8.0	21-2,31-1
Croplan Genetics CG 3020B2RF	3.8	1.11	80.9	25.7	11.8	1	79.0	7.8	31-1
Deltapine DP 104 B2RF	3.7	1.14	80.8	28.7	11.8	3	77.8	8.1	31-1,31-2
Croplan Genetics CG 3520B2RF	4.1	1.16	82.1	25.8	10.4	2	78.8	8.2	31-1
PhytoGen PHY 485 WRF	4.2	1.14	82.0	27.6	11.1	3	78.4	8.7	21-1,31-1
Deltapine DP 147 RF	3.7	1.16	78.7	28.1	9.7	2	78.2	7.8	31-1,31-2
NexGen NG 4370 B2RF	4.1	1.13	81.4	27.8	11.1	2	78.0	8.5	21-2,31-1
Deltapine DP 161 B2RF	3.8	1.20	81.1	28.6	10.3	2	79.8	8.2	21-2,31-1
AFD 5065B2F	4.0	1.13	80.4	27.9	11.5	2	80.8	7.5	31-1
NexGen NG 3348 B2RF	4.0	1.15	81.7	28.6	11.5	2	78.4	8.5	31-1
All-Tex AT 65018 RF	4.1	1.16	81.7	28.3	11.6	1	78.7	8.3	31-1
PhytoGen PHY 72	4.1	1.19	81.7	32.6	11.2	1	78.2	9.2	21-2,22-1
AFD 5064F	4.2	1.08	81.1	28.6	11.6	3	78.0	7.7	31-1,41-1
NexGen NG 2448 R	4.3	1.11	82.3	29.3	10.5	2	78.3	8.6	31-1
NexGen NG 3410 RF	3.5	1.18	81.7	29.0	10.8	2	77.9	8.7	31-1
FiberMax FM 1735LLB2	3.9	1.13	81.1	28.5	9.5	3	79.0	7.1	31-1,41-1
Texas Tech Raider 276	3.7	1.19	82.1	30.1	9.0	2	79.7	7.8	31-1
NexGen NG 1572 RF	3.4	1.13	80.0	27.7	10.7	2	78.1	7.4	31-2,41-1
All-Tex AT Atlas RR	4.5	1.06	81.9	26.6	10.4	2	77.8	8.2	31-1,31-2
Mean	3.9	1.15	81.0	28.0	10.5	2	79.1	8.2	
c.v.%	4.7	1.1	1.1	2.2	7.3	52.5	1.5	4.1	
LSD 0.05	0.3	0.02	1.5	1.0	1.3	1	2.0	0.6	

Table 3. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Lubbock, TX, 2008.

Designation	2004	2005	2006	2007	2008	Average	Comp. Average*
Five Year Average							
All-Tex AT Atlas RR	1014	1234	1191	1091	1422	1190	
FiberMax FM 958	1140	1359	1149	1381	1813	1368	
FiberMax FM 958LL	1142	1493	1345	1430	2029	1489	
NexGen 2448 R	1107	1373	1266	1324	1639	1342	
Four Year Average							
Deltapine DP 555 BG/RR		1303	1140	865	1958	1317	1256
PhytoGen PHY 370 WR		1237	1440	1128	1856	1415	1354
PhytoGen PHY 72		1026	1234	757	1648	1166	1105
Three Year Average							
All-Tex AT Apex RF			1439	1015	1902	1452	1367
Croplan Genetics CG 3020B2RF			1227	905	1746	1293	1207
Deltapine DP 121 RF			1669	1179	1953	1600	1515
FiberMax FM 9058F			1456	1609	1937	1667	1582
FiberMax FM 9063B2F			1286	1388	1837	1504	1419
Stoneville ST 4554 B2RF			1476	1264	1962	1567	1482

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

Table 4. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2008.

Test:	Uniform Variety
Planting Date:	May 19
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Dual Magnum @ 1.3pt/A + Caparol 4L @ 2.4 pts/A applied May 21
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	3.7 acre inches April 23 3.0 acre inches July 3 3.5 acre inches August 5
Insecticide:	Temik @ 2.4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 22
Harvest Aids:	None
Harvest Date:	October 31
Freeze Date:	October 23

Table 5. Results of the irrigated cotton variety test at Texas AgriLife Research, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		Storm Resistance	Height
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/8/08			
		Lint	Seed	Picked	Pulled								
Stoneville ST 4554B2RF	1115	27.0	44.6	35.9	27.3	5.7	11.3	6.6	31.2	41	4	20	
FiberMax FM 9180B2F	1100	26.1	44.4	35.7	26.1	5.6	12.2	6.2	32.4	56	6	19	
FiberMax FM 9058F	1065	27.0	43.1	37.4	28.4	5.3	10.9	6.7	29.4	60	6	20	
FiberMax FM 9063B2F	1059	25.9	44.0	36.1	27.3	6.0	12.1	7.1	30.6	54	6	19	
Deltapine DP 121 RF	1042	27.0	41.5	37.8	28.5	4.9	10.5	6.7	27.7	51	4	21	
PhytoGen PHY 370 WR	1027	26.1	41.6	37.1	28.1	5.9	11.0	6.8	29.4	44	4	22	
PhytoGen PHY 315 RF	1020	26.1	41.4	37.5	28.0	5.0	11.0	6.8	27.2	50	4	22	
Stoneville ST 5327B2RF	1018	26.4	42.9	36.8	27.6	4.9	10.7	6.7	27.1	38	4	21	
FiberMax FM 958	1017	26.3	43.6	33.0	25.0	5.9	12.0	6.7	29.0	61	6	20	
Deltapine DP 104 B2RF	1011	24.1	48.9	32.9	26.2	5.7	11.6	5.9	32.1	60	7	20	
PhytoGen PHY 375 WRF	1009	27.3	42.9	37.9	28.5	4.9	10.7	6.8	27.5	41	4	22	
Croplan Genetics CG 3520B2RF	1009	25.1	44.8	35.2	26.2	4.8	10.4	5.9	28.5	54	4	19	
FiberMax FM 958LL	1007	26.2	42.5	36.3	26.6	5.6	11.4	6.9	29.7	63	6	20	
FiberMax FM 1740B2F	1003	27.4	42.5	38.1	29.4	5.3	10.7	6.8	29.4	54	6	19	
Stoneville ST 4498B2RF	998	25.9	45.2	39.7	31.0	5.9	10.5	6.9	33.6	44	3	20	
Croplan Genetics CG 3020B2RF	991	24.2	45.0	34.0	25.3	5.2	11.5	6.2	28.5	51	4	19	
AFD 5064F	989	25.6	47.2	34.3	26.3	5.6	11.6	6.3	30.4	54	7	20	
Croplan Genetics CG 3035RF	987	26.7	43.4	37.5	28.8	5.8	10.9	6.8	31.7	44	4	22	
NexGen NG 1572 RF	979	25.3	46.8	35.2	27.8	5.1	10.8	6.1	29.2	69	7	20	
Croplan Genetics CG 4020B2RF	974	24.8	43.8	36.1	26.4	5.1	10.9	6.4	29.0	44	4	21	
NexGen NG 4370 B2RF	964	26.2	45.6	35.0	26.5	4.8	10.6	5.9	28.6	55	4	21	
FiberMax FM 955LLB2	961	26.1	45.4	35.1	27.0	5.9	12.8	7.3	28.5	40	6	21	
FiberMax FM 9160B2F	958	27.3	44.5	37.2	29.4	5.6	10.4	6.4	32.8	50	6	20	
Deltapine DP 147 RF	958	25.9	45.8	34.6	27.6	5.7	10.4	5.8	34.1	48	5	21	
Seed Tec Genetics CT 210	946	25.9	46.6	33.8	27.1	5.7	10.0	5.2	37.0	51	4	20	
Americot AM 1532 B2RF	943	24.1	43.5	34.6	26.5	5.2	10.7	6.1	30.7	55	6	21	
PhytoGen PHY 72	941	24.8	42.9	35.7	27.3	5.4	11.0	6.3	30.5	46	3	21	
All-Tex AT Apex B2RF	941	24.3	43.4	34.8	26.5	5.3	11.2	6.3	29.2	45	5	21	
NexGen NG 2448 R	937	25.7	45.3	35.2	27.4	5.5	10.9	6.2	30.9	61	8	19	
Deltapine DP 555 BG/RR	929	28.1	43.9	37.1	29.6	5.0	9.0	5.5	33.6	30	3	23	

Table 5. Results of the irrigated cotton variety test at Texas AgriLife Research, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/8/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Deltapine DP 164 B2RF	928	24.7	45.2	32.1	25.0	5.2	11.4	5.7	29.3	39	4	23
NexGen NG 3348 B2RF	927	25.5	45.8	37.5	29.6	5.7	11.6	7.2	29.6	46	6	19
PhytoGen PHY 425 RF	924	24.5	46.0	33.3	25.5	4.7	10.3	5.4	29.1	54	4	22
All-Tex AT Patriot RF	921	24.0	46.6	33.7	26.1	5.4	11.2	5.9	31.1	53	4	20
Croplan Genetics CG 3220B2RF	917	26.2	45.2	36.7	26.4	5.2	11.3	6.8	28.2	45	4	21
All-Tex AT Summit B2F	914	24.5	44.1	34.9	25.8	5.2	10.5	5.9	30.9	54	4	20
NexGen NG 3410 RF	911	24.0	45.7	34.9	27.4	6.0	11.6	6.5	31.9	53	6	20
All-Tex AT Epic RF	894	26.7	43.2	37.5	28.5	5.4	10.8	6.9	29.6	46	4	22
Stoneville ST 5458B2RF	893	25.7	43.6	36.5	28.0	5.3	11.1	6.6	29.1	44	5	20
FiberMax FM 1880B2F	892	26.2	45.8	35.5	28.5	5.6	11.3	6.4	31.2	41	5	23
Deltapine DP 141 B2RF	887	24.7	45.8	32.9	26.2	5.4	10.5	5.3	33.0	46	5	21
Stoneville ST 4427B2F	876	24.9	44.1	34.6	26.6	5.1	10.6	5.8	30.0	53	4	21
FiberMax FM 1735LLB2	864	25.4	44.3	36.0	28.2	5.1	11.3	6.5	28.2	58	6	20
All-Tex AT Atlas RR	852	22.6	46.6	32.7	24.2	5.5	11.5	5.8	31.4	46	7	21
PhytoGen PHY 485 WRF	844	23.8	43.4	33.8	25.6	4.8	10.6	5.7	28.6	51	4	22
AFD 5065B2F	838	22.8	48.4	32.4	24.9	5.6	11.3	5.6	32.2	61	6	20
Deltapine DP 143 B2RF	836	24.7	46.5	33.6	26.6	5.2	9.6	5.0	34.8	45	5	20
Deltapine DP 174 RF	831	26.7	41.3	38.5	30.5	5.8	10.5	6.8	32.5	38	4	22
NexGen NG 4377 B2RF	823	25.3	43.2	35.4	27.0	4.9	10.8	6.2	28.4	45	4	22
Deltapine DP 161 B2RF	810	24.4	45.4	33.6	26.5	5.4	10.7	5.7	32.0	31	4	22
NexGen NG 3331 B2RF	808	26.6	43.3	35.3	27.5	5.3	11.1	6.3	29.4	41	6	22
Mean	947	25.5	44.5	35.4	27.2	5.3	10.9	6.3	30.4	49	5	21
c.v.%	11.1	3.9	2.9	3.3	3.5	5.6	5.1	7.2	5.7	20.5	11.5	5.9
LSD 0.05	123	1.2	1.5	2.0	1.6	0.5	0.9	0.8	2.9	12	1	1

Table 5A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 4554B2RF	3.5	1.18	81.8	32.2	9.7	3	75.9	8.9	31-3,31-4
FiberMax FM 9180B2F	3.7	1.24	82.9	31.7	9.5	4	77.6	8.3	21-2,41-1
FiberMax FM 9058F	3.5	1.23	81.0	31.2	8.6	3	78.5	8.1	31-1
FiberMax FM 9063B2F	3.4	1.26	82.1	32.0	9.3	4	79.9	7.8	21-2,31-1
Deltapine DP 121 RF	3.8	1.17	83.4	30.8	10.4	3	76.6	9.5	31-3
PhytoGen PHY 370 WR	3.6	1.14	80.8	29.2	9.8	3	76.3	9.9	22-122-2,
PhytoGen PHY 315 RF	3.5	1.17	81.7	28.8	9.4	2	76.3	9.3	31-3
Stoneville ST 5327B2RF	3.6	1.18	82.6	31.0	10.3	5	75.1	9.6	31-4,32-1
FiberMax FM 958	3.5	1.20	81.6	31.4	8.9	3	76.9	8.3	31-2
Deltapine DP 104 B2RF	3.0	1.19	83.1	31.6	10.9	3	76.3	8.2	31-1,41-1
PhytoGen PHY 375 WRF	3.7	1.18	81.9	28.7	9.5	4	76.2	9.0	31-1,31-4
Croplan Genetics CG 3520B2RF	3.6	1.18	82.4	28.3	10.4	3	76.0	9.0	31-1,31-4
FiberMax FM 958LL	3.4	1.23	83.5	32.7	8.3	4	78.1	8.0	31-1,31-2
FiberMax FM 1740B2F	3.6	1.16	81.7	30.8	9.6	2	77.5	8.2	31-1,31-2
Stoneville ST 4498B2RF	3.7	1.19	83.4	32.1	10.7	3	75.5	9.7	22-2,32-1
Croplan Genetics CG 3020B2RF	3.5	1.15	81.5	27.6	10.5	2	77.4	9.1	21-2,32-1
AFD 5064F	3.9	1.15	81.8	29.4	10.2	4	75.9	8.6	31-2,31-4
Croplan Genetics CG 3035RF	3.6	1.15	82.1	29.6	10.7	2	76.6	9.9	22-1,22-2
NexGen NG 1572 RF	3.0	1.19	80.8	30.2	9.4	5	75.7	7.4	41-1
Croplan Genetics CG 4020B2RF	3.5	1.20	81.5	28.7	10.2	2	78.0	9.3	21-4
NexGen NG 4370 B2RF	3.7	1.16	82.9	29.1	10.2	4	76.1	9.2	31-3
FiberMax FM 955LLB2	3.3	1.25	81.0	31.7	8.7	3	78.9	8.3	31-1
Bayer BCSX 4366B2F	3.3	1.22	82.6	32.4	9.0	4	78.5	8.4	31-1
FiberMax FM 9160B2F	3.3	1.22	81.5	31.0	8.8	2	77.0	8.8	21-2,31-2
Seed Tec Genetics CT 210	3.6	1.17	82.8	31.6	10.7	3	77.7	8.7	31-1
Americot AM 1532 B2RF	3.4	1.21	81.7	29.5	10.0	3	76.5	9.5	22-2,31-1
PhytoGen PHY 72	3.7	1.26	83.1	35.1	9.6	2	75.6	9.9	22-2,32-1
All-Tex AT Apex B2RF	3.4	1.20	81.8	29.2	10.2	3	75.4	8.9	31-1,41-3
NexGen NG 2448 R	3.5	1.14	83.6	32.1	10.1	4	76.8	8.6	31-1,31-2
Deltapine DP 555 BG/RR	3.4	1.17	80.4	29.8	9.0	1	80.0	8.7	21-1

Table 5A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 164 B2RF	3.6	1.22	81.4	30.8	8.8	2	77.8	9.4	21-3,21-4
NexGen NG 3348 B2RF	3.6	1.19	83.3	31.0	9.9	3	75.5	8.9	31-3,31-4
PhytoGen PHY 425 RF	3.8	1.19	83.0	30.9	10.8	4	73.8	9.2	31-3,42-1
All-Tex AT Patriot RF	3.9	1.19	81.9	30.2	10.6	3	76.9	9.0	31-1,31-3
Croplan Genetics CG 3220B2RF	3.4	1.16	80.2	29.4	10.5	3	77.0	9.6	22-1,31-3
All-Tex AT Summit B2F	3.3	1.14	81.8	27.5	10.0	3	78.3	9.0	21-2,21-4
NexGen NG 3410 RF	3.2	1.24	81.7	31.6	9.3	4	76.2	8.8	31-1,31-4
All-Tex AT Epic RF	3.4	1.16	81.5	29.6	10.5	3	76.1	9.7	22-2,31-3
Stoneville ST 5458B2RF	3.5	1.18	80.8	31.6	9.8	4	74.3	10.0	31-3,32-1
FiberMax FM 1880B2F	3.3	1.22	81.8	32.2	9.2	3	78.6	8.0	31-1
Deltapine DP 141 B2RF	3.1	1.20	80.7	31.2	9.8	3	76.8	8.9	31-2,31-3
Stoneville ST 4427B2F	3.5	1.19	81.3	30.0	8.9	4	75.3	9.2	31-4,32-1
FiberMax FM 1735LLB2	3.3	1.20	82.3	32.2	8.0	3	77.4	7.7	31-2,41-1
All-Tex AT Atlas RR	3.8	1.14	82.5	31.0	10.2	4	75.2	8.1	31-2,41-1
PhytoGen PHY 485 WRF	3.7	1.17	82.8	31.1	10.9	5	72.3	9.5	32-2,42-1
AFD 5065B2F	3.5	1.21	81.8	31.5	10.3	3	77.3	7.8	31-2,41-1
Deltapine DP 143 B2RF	3.0	1.22	80.3	30.5	9.3	5	77.3	8.2	31-1,31-2
Deltapine DP 174 RF	3.6	1.19	81.8	28.7	10.5	3	76.2	9.3	31-1,32-1
NexGen NG 4377 B2RF	3.4	1.14	82.6	28.4	10.1	3	75.2	9.3	22-2,41-3
Deltapine DP 161 B2RF	3.6	1.23	82.9	31.8	9.1	3	77.4	9.1	31-1,31-3
NexGen NG 3331 B2RF	3.5	1.14	82.8	31.0	9.7	4	75.2	9.5	31-3,32-1
Mean	3.5	1.19	82.0	30.6	9.8	76.6	8.9		3
c.v.%	4.5	1.4	1.0	2.7	4.3	1.5	4.1		26.7
LSD 0.05	0.3	0.03	1.3	1.4	0.7	1.9	0.6		1

Table 6. Yield summary of the irrigated cotton variety test at Texas AgriLife Research, Halfway, TX, 2008.

Designation	2005	2006	2007	2008	Average	Comp. Average*
	<u>Four Year Average</u>					
PhytoGen PHY 310 R	1149	1667	999	1020	1209	
PhytoGen PHY 370 WR	1178	1602	939	1027	1187	
	<u>Three Year Average</u>					
Croplan Genetics 3020B2RF		1522	951	991	1155	1144
FiberMax 9063B2F		1520	1001	1059	1193	1183
FiberMax FM 9058F		1720	971	1065	1252	1242
NexGen NG 2448 R		1478	865	937	1093	1083
PhytoGen PHY 485 WRF		1472	910	844	1075	1065
Stoneville ST 4554 B2F		1554	1017	1115	1229	1219

* 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 AG-CARES, Lamesa, TX 2008.

Test:	Uniform Variety
Planting Date:	May 30
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Caparol @ 1.8pt/A applied pre-plant Dual @ 1 ¼ pt/A applied June 18
Fertilizer:	10-34-0 @ 120lbs/A applied pre-plant 32-0-0 @ 30 lbs/A applied April 30 (fertigation) 32-0-0 @ 30 lbs/A applied June 29 (fertigation) 32-0-0 @ 30 lbs/A applied July 16 (fertigation) 32-0-0 @ 30 lbs/A applied July 24 (fertigation)
Irrigations:	6.06 acre-in applied pre-plant 8.63 acre-in applied June-August
Growth Regulator:	Pix 6oz/A applied July 24
Insecticide:	Temik @ 3.5 lbs/A at planting
Harvest Aids:	paraquat @ 32oz/A applied October 16
Harvest Date:	November 18
Freeze Date:	October 29

Table 8. Results of the irrigated cotton variety test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
PhytoGen PHY 370 WR	1929	27.8	40.4	41.2	31.4	5.5	11.4	8.5	26.9	85	4	37
Deltapine DP 121 RF	1867	27.4	40.2	39.9	30.7	5.0	10.2	7.2	28.0	89	3	34
All-Tex AT Epic RF	1825	27.9	41.3	42.0	31.2	5.4	9.8	7.5	30.1	86	4	35
Stoneville ST 5458B2RF	1824	27.1	42.1	38.7	30.2	5.8	11.3	7.5	29.8	88	4	36
NexGen NG 3331 B2RF	1784	26.7	42.8	39.5	26.5	5.0	10.5	6.6	24.3	85	4	37
FiberMax FM 9058F	1782	27.7	43.4	39.2	29.1	5.2	11.0	7.4	27.6	95	6	31
All-Tex AT Apex B2RF	1766	26.1	41.5	38.4	27.6	4.4	9.9	6.4	26.5	85	4	35
Croplan Genetics CG 3035RF	1757	27.1	39.6	40.7	29.5	5.0	10.4	7.5	27.1	84	5	36
Stoneville ST 4498B2RF	1743	25.8	42.6	36.7	27.4	5.7	10.9	6.8	30.9	85	4	34
PhytoGen PHY 315 RF	1742	26.8	40.2	40.2	29.3	4.8	10.2	7.2	26.5	86	4	34
Deltapine DP 174 RF	1739	25.7	38.5	41.4	31.1	5.8	10.3	7.8	30.6	84	4	36
PhytoGen PHY 375 WRF	1729	25.7	37.4	40.9	30.7	4.9	9.8	7.1	28.1	85	4	35
Croplan Genetics CG 3220B2RF	1727	25.3	40.3	39.3	30.2	5.5	11.0	7.4	29.4	86	5	34
FiberMax FM 1880B2F	1722	27.4	44.2	39.7	32.1	6.1	10.6	7.1	34.0	81	4	38
PhytoGen PHY 425 RF	1722	24.6	43.1	35.9	25.4	3.7	11.0	6.5	20.7	84	3	38
Croplan Genetics CG 3020B2RF	1709	25.7	42.4	36.9	27.9	5.2	11.1	6.8	28.1	88	4	31
Deltapine DP 104 B2RF	1703	25.5	45.3	38.7	29.8	5.6	10.6	6.9	31.3	90	5	32
Stoneville ST 5327B2RF	1694	27.0	40.2	39.9	30.7	5.5	10.2	7.3	30.0	85	4	35
FiberMax FM 1740B2F	1670	27.8	39.6	41.1	31.9	5.4	10.9	8.1	27.4	90	4	31
Americot AM 1532 B2RF	1660	24.0	41.6	38.3	28.6	5.3	10.3	6.7	30.1	85	4	36
FiberMax FM 9160B2F	1645	26.6	39.6	38.4	30.3	5.3	10.6	7.0	29.0	94	4	34
NexGen NG 4377 B2RF	1638	24.8	39.7	39.6	30.2	5.2	10.4	7.2	28.9	86	4	37
NexGen NG 2448 R	1632	26.4	43.8	36.8	29.2	6.0	11.7	7.1	30.6	94	5	35
Deltapine DP 147 RF	1602	26.9	44.2	38.8	29.7	5.6	10.5	7.0	31.0	85	4	35
All-Tex AT Summit B2F	1590	24.6	41.8	37.7	28.0	5.3	11.2	7.2	27.7	90	4	32
Croplan Genetics CG 4020B2RF	1581	23.9	40.4	38.5	27.5	5.2	10.4	6.9	29.3	84	5	36
PhytoGen PHY 485 WRF	1577	23.9	40.9	39.3	31.4	5.2	10.3	6.9	29.2	85	3	36
PhytoGen PHY 72	1576	26.8	42.1	39.4	30.7	6.0	10.4	7.1	33.2	81	2	34
Stoneville ST 4554B2RF	1574	25.3	42.4	38.9	30.0	5.6	10.7	7.2	30.2	85	4	35
Croplan Genetics CG 3520B2RF	1569	24.4	41.4	38.3	28.6	5.0	10.3	6.7	28.6	88	4	33

Table 8. Results of the irrigated cotton variety test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 9063B2F	1563	26.4	42.7	38.1	29.0	6.1	11.8	7.8	30.1	94	5	32
NexGen NG 3410 RF	1530	26.5	43.6	36.4	28.8	6.1	12.3	7.5	29.8	90	5	31
Deltapine DP 143 B2RF	1525	24.1	43.2	37.0	28.7	5.1	10.2	6.4	29.8	85	4	34
Deltapine DP 164 B2RF	1508	24.2	43.4	37.4	29.3	5.2	10.2	6.5	30.2	83	5	38
NexGen NG 4370 B2RF	1506	24.5	41.3	39.3	29.9	5.2	10.0	6.9	29.9	89	5	36
FiberMax FM 9180 B2F	1492	24.8	40.8	38.5	29.1	5.8	11.4	7.5	29.8	96	5	29
AFD 5064F	1486	25.8	44.5	35.4	27.6	4.9	11.5	6.7	26.0	98	5	30
Deltapine DP 555 BG/RR	1481	25.8	40.8	39.7	31.3	4.6	8.5	5.9	30.9	74	4	41
Stoneville ST 4427B2F	1459	23.3	40.0	39.0	27.8	5.0	10.5	7.2	27.2	85	4	34
FiberMax FM 958LL	1447	26.2	40.8	39.3	29.7	5.6	11.5	7.9	28.2	94	5	30
Deltapine DP 141 B2RF	1407	23.6	41.7	35.6	29.7	5.9	10.0	5.9	35.8	80	4	39
NexGen NG 3348 B2RF	1390	24.6	41.6	37.6	29.2	5.9	11.8	7.6	28.9	89	5	32
Seed Tec Genetics CT 210	1381	25.0	41.9	38.6	29.7	5.2	9.6	6.3	31.8	84	4	32
All-Tex AT Patriot RF	1373	24.2	42.9	36.5	27.0	5.7	11.0	6.6	31.5	89	4	32
NexGen NG 1572 RF	1366	25.2	45.5	36.5	28.5	5.3	10.7	6.5	29.9	99	7	31
FiberMax FM 955LLB2	1354	23.3	43.0	37.4	30.1	6.3	11.8	7.4	31.5	91	5	31
Texas Tech Raider 276	1351	22.4	45.1	33.4	24.8	5.9	12.7	6.6	29.7	90	6	34
FiberMax FM 958	1327	25.8	40.0	40.5	30.0	5.5	10.7	7.5	29.4	96	5	28
AFD 5065B2F	1323	23.8	45.2	34.2	25.8	5.0	11.1	6.1	27.8	96	6	29
Deltapine DP 161 B2RF	1315	22.7	43.1	35.8	28.0	5.2	9.9	5.9	31.9	76	5	39
FiberMax FM 1735LLB2	1212	24.8	41.2	38.9	28.8	5.0	10.3	7.0	27.6	81	6	34
All-Tex AT Atlas RR	1123	25.2	44.2	34.6	26.2	5.7	12.0	6.8	28.6	98	7	32
Mean	1577	25.5	41.9	38.3	29.1	5.4	10.7	7.0	29.2	88	4	34
c.v.%	10.9	6.3	4.9	2.5	3.6	7.4	4.5	4.8	8.1	3.9	14.8	6.6
LSD 0.05	202	1.9	2.4	1.6	1.8	0.7	0.8	0.6	3.9	4	1	3

Table 8A. Results of the irrigated cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
PhytoGen PHY 370 WR	3.9	1.11	81.7	27.4	10.8	2	79.2	9.3	21-1,22-1
Deltapine DP 121 RF	4.1	1.14	82.8	27.4	10.7	2	79.9	8.8	21-1,31-1
All-Tex AT Epic RF	3.5	1.14	81.4	27.2	10.7	1	80.7	8.9	11-1,21-1
Stoneville ST 5458B2RF	3.5	1.14	79.9	27.9	9.7	3	73.9	9.0	31-3,41-3
NexGen NG 3331 B2RF	3.6	1.13	82.5	27.4	10.1	3	77.1	8.4	21-1,41-1
FiberMax FM 9058F	3.9	1.21	81.1	28.8	9.2	2	80.7	7.8	21-2,31-1
All-Tex AT Apex B2RF	3.6	1.20	82.0	26.7	9.9	1	79.9	8.6	11-2,31-1
Croplan Genetics CG 3035RF	3.4	1.13	81.0	27.1	10.6	1	81.6	9.2	11-1,11-2
Stoneville ST 4498B2RF	3.2	1.16	81.8	27.8	11.1	3	80.6	8.5	21-1,21-2
PhytoGen PHY 315 RF	3.7	1.12	80.9	27.2	9.7	2	81.1	8.8	21-1,11-2
Deltapine DP 174 RF	3.4	1.18	81.1	26.9	10.5	2	80.6	8.3	21-1,21-2
PhytoGen PHY 375 WRF	3.4	1.13	80.2	27.2	10.1	2	81.0	9.0	11-1,21-1
Croplan Genetics CG 3220B2RF	3.7	1.15	81.7	26.5	10.7	3	80.5	8.5	21-1,31-1
FiberMax FM 1880B2F	3.4	1.22	81.8	29.0	9.8	2	82.3	7.8	21-1
PhytoGen PHY 425 RF	4.1	1.16	82.4	27.2	10.7	2	77.4	8.9	31-1,31-3
Croplan Genetics CG 3020B2RF	3.4	1.13	82.5	25.9	10.5	2	79.6	8.7	11-1,31-3
Deltapine DP 104 B2RF	3.6	1.16	82.4	29.2	10.7	4	78.1	8.2	21-2,41-1
Stoneville ST 5327B2RF	3.3	1.15	81.4	28.6	10.1	2	79.4	8.8	21-2,21-4
FiberMax FM 1740B2F	3.6	1.16	82.4	28.2	9.6	2	83.1	7.9	11-2,21-1
Americot AM 1532 B2RF	3.5	1.18	80.1	26.0	10.2	4	79.7	8.5	21-1,31-1
FiberMax FM 9160B2F	3.7	1.19	82.1	28.5	9.1	3	80.0	7.8	31-1
NexGen NG 4377 B2RF	3.6	1.14	81.9	27.3	10.1	3	77.9	9.1	21-1,31-3
NexGen NG 2448 R	3.9	1.15	83.4	29.7	10.4	3	79.7	8.0	11-2,31-2
Deltapine DP 147 RF	3.2	1.19	80.2	28.0	8.7	2	81.5	8.2	21-1
All-Tex AT Summit B2F	3.7	1.13	82.1	25.5	10.9	1	82.3	8.1	21-1
Croplan Genetics CG 4020B2RF	3.3	1.20	80.6	26.6	10.0	2	82.0	8.2	11-2,21-1
PhytoGen PHY 485 WRF	4.0	1.15	83.1	27.3	11.1	3	76.9	8.5	31-1,31-2
PhytoGen PHY 72	4.0	1.21	83.1	30.9	10.3	2	78.4	8.5	21-1,31-1
Stoneville ST 4554B2RF	3.5	1.15	82.9	27.8	11.5	3	76.7	8.6	21-2,41-3
Croplan Genetics CG 3520B2RF	3.5	1.14	81.3	26.0	10.3	2	80.0	8.5	21-1,21-2

Table 8A. Results of the irrigated cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9063B2F	3.8	1.21	83.1	30.5	9.9	3	81.9	7.6	21-2,21-1
NexGen NG 3410 RF	3.6	1.21	81.6	29.5	9.7	3	78.6	8.5	31-1
Deltapine DP 143 B2RF	3.2	1.22	79.8	28.3	9.4	2	81.3	7.9	21-1,31-1
Deltapine DP 164 B2RF	3.5	1.21	81.3	28.6	9.3	2	82.0	8.3	11-1,21-1
NexGen NG 4370 B2RF	3.0	1.16	80.9	27.8	10.3	2	80.9	8.7	21-1
FiberMax FM 9180 B2F	3.6	1.19	83.0	30.0	10.2	2	82.4	7.5	21-1,21-2
AFD 5064F	4.2	1.13	82.0	29.3	10.2	2	76.6	7.2	31-2,41-2
Deltapine DP 555 BG/RR	2.8	1.12	79.2	26.3	9.1	1	83.4	8.1	11-1,21-1
Stoneville ST 4427B2F	3.7	1.14	80.5	28.0	9.3	3	79.4	8.6	21-2
FiberMax FM 958LL	4.1	1.19	83.5	30.8	8.8	2	81.9	7.6	21-1,31-1
Deltapine DP 141 B2RF	2.9	1.20	80.7	29.5	9.8	2	81.6	7.7	21-1,31-1
NexGen NG 3348 B2RF	3.3	1.15	83.3	29.1	9.9	3	79.4	8.6	21-1,31-1
Seed Tec Genetics CT 210	3.8	1.14	81.4	28.1	10.0	1	81.1	8.2	11-2,31-1
All-Tex AT Patriot RF	3.7	1.15	81.8	27.8	10.3	2	81.0	8.7	11-1,21-2
NexGen NG 1572 RF	2.9	1.16	80.5	28.4	9.8	3	79.8	7.1	31-1,31-2
FiberMax FM 955LLB2	3.2	1.22	81.6	29.4	9.1	2	83.2	7.9	11-2,21-1
Texas Tech Raider 276	3.6	1.23	81.4	30.4	8.4	2	81.3	7.5	21-2,31-1
FiberMax FM 958	3.5	1.16	81.1	30.5	8.8	2	81.5	7.8	21-1,21-2
AFD 5065B2F	3.6	1.17	81.2	28.1	10.2	2	81.4	7.8	21-1,21-2
Deltapine DP 161 B2RF	3.3	1.23	81.8	30.1	9.3	3	81.0	8.0	21-2,31-1
FiberMax FM 1735LLB2	3.4	1.17	82.4	30.0	8.9	2	82.8	7.5	11-1,31-1
All-Tex AT Atlas RR	3.9	1.08	81.1	27.4	10.5	2	79.1	8.4	21-2,31-1
Mean	3.5	1.16	81.6	28.2	10.0	2	80.2	8.3	
c.v.%	8.2	1.5	1.1	2.4	3.8	48.2	2.3	4.1	
LSD 0.05	0.5	0.03	1.5	1.1	0.6	2	3.1	0.6	

Table 9. Yield summary of the irrigated cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	2004	2005	2006	2007	2008	Average	Comp. Average*
	Five Year Average						
FiberMax FM 958	950	1451	1519	1509	1327	1351	
	Four Year Average						
PhytoGen PHY 370 WR		1340	1365	1459	1929	1523	1426
	Three Year Average						
All-Tex AT Apex B2RF			1820	1741	1766	1776	1648
Croplan Genetics 3220B3RF			1500	1503	1727	1577	1449
Deltapine DP 121RF			1791	1535	1867	1731	1603
FiberMax FM 9063B2F			1164	1611	1563	1446	1318
Stoneville STV 4554 B2RF			1363	1810	1574	1583	1454

*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 2008.

Test:	Uniform Variety
Planting Date:	May 12
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant Dual Magnum @ 1 ¼/A applied June 12
Fertilizer:	40-0-0 lbs/A applied pre-plant
Rainfall:	26.2 inches (January-October)
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms Denim @ 8 oz/A applied August 13 for beet armyworms
Harvest Aids:	None
Harvest Date:	December 3
Freeze Date:	October 23

Table 11. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/21/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
All-Tex AT Epic RF	1185	26.8	41.3	40.0	30.7	5.5	10.5	7.8	30.1	54	5	28
Stoneville ST 4554B2RF	1159	26.9	43.4	37.6	27.3	5.2	10.6	6.9	28.3	53	4	25
FiberMax FM 958	1112	28.2	41.7	39.8	27.2	5.2	11.3	7.8	26.5	60	6	28
FiberMax FM 1880B2F	1096	28.2	45.9	38.3	29.0	5.5	10.4	6.7	31.6	56	5	31
Stoneville ST 5458B2RF	1037	26.3	41.5	38.2	29.7	5.7	10.2	6.8	32.0	43	5	28
Croplan Genetics CG 3035RF	1029	30.2	43.8	39.1	28.7	5.2	10.3	7.0	29.0	51	5	29
Seed Tec Genetics CT 210	1004	28.6	45.5	38.6	29.2	5.5	9.3	6.0	35.2	65	5	26
FiberMax FM 1740B2F	1002	28.1	39.1	40.6	29.7	5.2	10.1	7.3	28.9	51	5	28
Deltapine DP 555 BG/RR	989	29.6	42.9	39.2	31.3	5.0	8.1	5.6	35.0	50	5	29
Americot AM 1532 B2RF	989	26.0	43.0	37.4	26.2	4.3	10.1	6.4	25.5	46	6	29
PhytoGen PHY 425 RF	988	25.5	42.8	35.1	25.2	4.8	10.2	6.0	27.6	59	4	28
Deltapine DP 164 B2RF	987	26.7	46.3	37.0	27.5	4.9	10.4	6.3	28.8	58	5	28
Stoneville ST 4427B2F	983	25.7	41.6	37.5	28.7	5.1	10.2	6.5	29.6	58	4	26
PhytoGen PHY 485 WRF	974	24.9	41.8	35.9	25.9	4.9	9.8	5.8	29.8	55	4	29
PhytoGen PHY 315 RF	971	26.9	38.8	39.7	30.1	4.7	10.2	7.1	26.6	48	5	28
FiberMax FM 9058F	968	27.3	42.1	39.6	28.0	5.1	10.5	7.3	27.8	58	6	27
All-Tex AT Apex B2RF	960	24.5	40.9	36.9	26.0	4.8	10.3	6.4	28.0	54	5	27
Deltapine DP 121 RF	938	27.8	39.8	39.0	27.2	5.0	10.1	6.8	28.8	51	4	32
FiberMax FM 958LL	927	25.9	40.4	40.3	29.7	5.6	11.2	7.7	29.3	48	6	27
Texas Tech Raider 276	924	25.2	45.3	34.5	26.0	6.4	12.0	6.7	33.3	45	6	30
Stoneville ST 4498B2RF	905	23.9	39.3	35.7	26.4	5.4	10.5	6.3	30.4	44	4	26
NexGen NG 4377 B2RF	902	26.9	42.3	38.2	28.3	4.9	10.5	6.9	27.2	53	5	28
Deltapine DP 174 RF	891	27.3	39.6	40.4	29.3	5.1	9.6	6.9	29.5	53	5	30
Deltapine DP 161 B2RF	873	24.8	42.7	35.1	25.3	4.6	9.1	5.3	30.1	36	5	32
FiberMax FM 955LLB2	862	25.5	42.3	37.3	24.7	5.4	12.0	7.4	26.7	46	6	26
NexGen NG 4370 B2RF	847	25.1	42.2	37.3	26.8	5.0	10.5	6.7	28.1	51	5	30
PhytoGen PHY 375 WRF	846	26.3	38.0	38.3	26.5	4.3	10.5	6.9	23.9	48	5	28
NexGen NG 3348 B2RF	843	27.2	42.7	38.0	28.0	5.2	11.2	7.1	27.8	44	5	27
NexGen NG 3331 B2RF	841	26.7	41.0	37.4	28.1	5.2	10.8	6.9	28.2	41	5	28
Croplan Genetics CG 4020B2RF	832	24.6	41.4	36.9	26.0	4.9	10.6	6.6	27.1	54	5	29

Table 11. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/21/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 9063B2F	832	26.0	42.1	37.1	26.7	5.6	12.3	7.7	27.2	45	5	26
AFD 5064F	818	25.6	42.9	36.3	25.9	5.1	10.9	6.5	28.3	38	5	32
FiberMax FM 9160B2F	815	28.9	43.4	37.0	26.4	4.9	10.3	6.4	27.9	49	6	28
FiberMax FM 9180 B2F	814	25.7	39.9	37.0	26.9	6.4	11.1	6.9	34.2	43	6	28
Stoneville ST 5327B2RF	784	25.6	37.9	39.5	28.4	4.7	9.8	6.7	27.4	46	5	30
NexGen NG 3410 RF	772	26.6	42.7	37.4	27.6	5.6	10.9	6.9	29.8	39	6	31
FiberMax FM 1735LLB2	771	28.0	44.8	36.8	27.1	4.5	10.1	6.1	27.1	58	6	26
Croplan Genetics CG 3520B2RF	761	26.1	41.0	39.4	27.7	4.5	9.9	6.6	26.5	45	5	27
Croplan Genetics CG 3220B2RF	760	24.7	40.0	36.7	25.7	5.1	10.4	6.5	28.5	35	5	30
All-Tex AT Patriot RF	733	24.5	42.5	35.8	25.9	4.7	10.7	6.2	27.4	47	5	27
Croplan Genetics CG 3020B2RF	725	24.6	42.1	34.9	24.1	5.0	11.0	6.2	28.0	36	5	30
Deltapine DP 143 B2RF	712	25.8	43.5	35.4	25.9	4.5	10.0	5.8	27.2	49	5	27
All-Tex AT Atlas RR	677	25.3	43.6	35.9	26.8	5.5	10.5	6.2	32.0	40	7	31
All-Tex AT Summit B2F	666	25.0	43.6	34.7	23.2	4.5	10.8	6.1	25.5	34	5	29
Deltapine DP 141 B2RF	662	24.3	40.7	36.2	25.1	4.3	8.9	5.3	28.6	46	5	29
PhytoGen PHY 72	660	25.0	41.1	37.5	27.8	5.6	11.0	6.9	30.4	45	5	29
PhytoGen PHY 370 WR	655	27.0	40.2	38.2	27.6	4.9	10.1	6.6	28.0	41	5	29
AFD 5065B2F	646	22.5	41.3	34.2	24.8	5.5	10.5	5.8	31.9	40	6	31
NexGen NG 1572 RF	603	24.4	38.1	34.8	26.1	4.7	10.0	5.9	27.7	33	6	30
Deltapine DP 104 B2RF	567	24.7	40.9	36.7	26.7	5.3	10.8	6.6	29.3	30	5	30
Deltapine DP 147 RF	564	25.1	39.4	35.5	25.2	4.8	10.1	6.0	28.1	35	5	32
NexGen NG 2448 R	514	25.8	41.2	37.3	26.7	5.4	10.8	6.8	29.9	38	6	29
Mean	853	26.1	41.8	37.3	27.1	5.1	10.4	6.7	28.9	47	5	28
c.v.%	31.7	6.9	7.1	4.3	5.6	10.9	4.0	4.9	10.0	30.4	11.2	9.6
LSD 0.05	316	2.1	3.5	2.7	2.5	0.9	0.7	0.5	4.8	17	1	3

Table 11A. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
All-Tex AT Epic RF	4.6	1.14	82.9	26.8	11.0	2	77.6	9.0	21-2,31-1
Stoneville ST 4554B2RF	4.8	1.11	81.8	27.5	11.6	4	75.9	8.6	31-2,31-4
FiberMax FM 958	5.0	1.13	82.4	29.9	8.9	3	79.3	7.5	31-1,31-2
FiberMax FM 1880B2F	4.6	1.16	81.1	29.3	10.1	2	77.1	7.3	31-2,41-1
Stoneville ST 5458B2RF	4.5	1.13	80.1	28.5	9.4	3	75.4	8.8	21-2,41-3
Croplan Genetics CG 3035RF	4.6	1.12	82.0	26.2	11.2	1	77.6	8.5	31-1,31-2
Seed Tec Genetics CT 210	4.6	1.11	81.5	28.4	10.4	2	80.6	7.5	31-1
FiberMax FM 1740B2F	4.9	1.09	82.5	27.3	10.3	2	78.8	7.6	31-1,31-2
Deltapine DP 555 BG/RR	4.3	1.12	81.1	28.5	9.0	1	80.2	7.2	31-1,31-2
Americot AM 1532 B2RF	4.5	1.17	82.2	26.4	10.4	2	78.7	8.4	31-1
PhytoGen PHY 425 RF	5.2	1.11	82.9	27.5	11.5	3	75.5	8.5	31-2,31-4
Deltapine DP 164 B2RF	4.5	1.18	82.2	28.9	9.7	2	79.8	7.7	31-1
Stoneville ST 4427B2F	4.8	1.12	82.5	28.0	9.6	3	78.8	8.1	31-1
PhytoGen PHY 485 WRF	4.9	1.11	83.0	28.4	10.9	4	73.9	8.2	41-1,41-3
PhytoGen PHY 315 RF	5.1	1.06	80.3	26.3	9.9	4	76.9	8.4	31-2
FiberMax FM 9058F	4.8	1.13	80.4	27.7	9.0	3	78.0	7.2	31-2,41-1
All-Tex AT Apex B2RF	4.7	1.12	79.7	25.7	10.5	2	78.1	8.1	31-1,31-2
Deltapine DP 121 RF	5.2	1.11	83.0	28.5	10.5	3	76.9	8.2	31-1,41-1
FiberMax FM 958LL	4.8	1.16	82.8	29.9	8.9	2	79.1	7.3	31-2
Texas Tech Raider 276	4.3	1.17	81.5	30.4	9.2	3	79.0	7.3	31-2
Stoneville ST 4498B2RF	4.9	1.13	82.1	29.3	11.2	4	76.3	8.3	31-1,41-1
NexGen NG 4377 B2RF	4.7	1.11	81.9	27.7	10.1	3	76.5	8.2	31-2
Deltapine DP 174 RF	4.6	1.12	80.3	26.6	9.6	3	78.6	7.7	31-1,31-2
Deltapine DP 161 B2RF	4.8	1.16	80.4	29.3	9.6	3	77.7	7.6	31-2,41-1
FiberMax FM 955LLB2	5.1	1.20	80.6	29.0	8.7	3	74.5	7.7	31-1,51-3
NexGen NG 4370 B2RF	4.7	1.11	81.3	26.8	10.1	3	75.5	8.6	41-1
PhytoGen PHY 375 WRF	5.0	1.11	81.2	26.4	9.8	4	74.8	8.4	31-2,41-1
NexGen NG 3348 B2RF	4.7	1.13	82.1	29.0	9.8	3	75.2	8.3	31-2,41-1
NexGen NG 3331 B2RF	5.1	1.09	83.3	28.8	9.7	3	74.6	8.7	31-2,41-3
Croplan Genetics CG 4020B2RF	4.7	1.16	82.7	27.1	10.2	3	76.5	7.7	31-1,41-2

Table 11A. Results of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9063B2F	4.9	1.20	82.1	31.5	9.1	3	78.6	7.4	31-2
AFD 5064F	5.4	1.05	79.7	26.9	10.4	3	76.3	7.6	31-2,41-1
FiberMax FM 9160B2F	4.9	1.14	82.0	29.0	8.6	3	77.6	7.5	41-1
FiberMax FM 9180 B2F	4.6	1.17	82.7	29.7	9.5	3	79.8	7.3	31-1,31-2
Stoneville ST 5327B2RF	5.2	1.08	80.8	27.6	10.7	3	75.6	8.7	31-1,41-3
NexGen NG 3410 RF	4.3	1.16	81.4	29.6	9.4	4	75.5	8.1	31-2,41-1
FiberMax FM 1735LLB2	4.3	1.13	82.2	28.8	7.8	3	77.0	6.8	41-1,41-2
Croplan Genetics CG 3520B2RF	5.0	1.08	78.7	26.3	10.8	4	75.7	8.2	31-2,41-3
Croplan Genetics CG 3220B2RF	4.8	1.11	80.1	27.2	10.4	2	75.2	8.6	31-2,41-3
All-Tex AT Patriot RF	4.7	1.14	80.3	27.3	10.9	2	78.8	8.1	31-1
Croplan Genetics CG 3020B2RF	4.7	1.10	80.5	25.6	10.5	3	78.2	8.0	31-1,31-2
Deltapine DP 143 B2RF	4.7	1.15	79.7	27.8	9.0	3	75.1	7.7	31-2,41-2
All-Tex AT Atlas RR	5.0	1.04	79.7	27.5	9.7	3	75.7	7.9	31-2,41-1
All-Tex AT Summit B2F	4.8	1.10	80.7	26.1	10.7	2	77.8	8.2	31-1
Deltapine DP 141 B2RF	4.8	1.12	78.8	28.3	9.7	3	76.2	7.4	41-1
PhytoGen PHY 72	4.5	1.19	82.8	31.3	11.2	3	77.2	8.8	31-1
PhytoGen PHY 370 WR	5.2	1.07	81.3	26.5	10.2	4	77.2	8.1	31-1,31-2
AFD 5065B2F	4.9	1.07	79.1	26.9	10.3	3	77.9	7.8	31-2
NexGen NG 1572 RF	4.5	1.08	80.7	26.5	9.8	4	74.5	7.3	41-1,41-2
Deltapine DP 104 B2RF	4.8	1.12	81.8	28.2	10.8	4	75.2	7.7	41-1
Deltapine DP 147 RF	4.7	1.18	80.5	28.3	9.1	4	72.6	7.7	41-1,51-1
NexGen NG 2448 R	5.2	1.02	80.4	27.1	10.2	3	77.0	8.3	31-1,31-2
Mean	4.8	1.12	81.3	27.9	10.0	3	76.9	7.9	
c.v.%	6.7	2.3	1.8	2.7	4.1	23.6	2.3	3.8	
LSD 0.05	0.5	0.04	2.4	1.3	0.7	1	3.0	0.5	

Table 12. Yield summary of the dryland cotton variety test at Texas AgriLife Research, Lubbock, TX, 2008

Designation	2003	2004	2005	2006	2008	Average	Comp. Average*
	Five Year Average						
FiberMax FM 958	167	520	984	379	1112	632	
NexGen NG 2448R	167	532	867	229	514	462	
	Four Year Average						
FiberMax FM 958LL		612	878	357	927	694	598

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

Table 13. Production information for dryland performance test at AG-CARES, Lamesa, TX 2008.

Test:	Uniform Dryland Variety
Planting Date:	May 30
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Dual @ 1 ¼ pt/A applied June 18
Fertilizer:	none
Rainfall:	15.9 inches (April-November)
Insecticide:	Temik @ 3.5lbs/A at planting
Harvest Aids:	paraquat @ 32 oz/A applied November 13
Harvest Date:	November 17
Freeze Date:	October 29

Table 14. Results of the dryland cotton variety test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Stoneville ST 4498B2RF	583	26.7	42.1	39.4	28.5	4.9	10.3	7.1	27.2	89	4	20
Deltapine DP 164 B2RF	581	27.8	44.2	39.7	30.4	4.6	9.5	6.4	28.7	90	4	22
PhytoGen PHY 425 RF	570	27.8	45.3	38.2	27.9	4.7	10.6	7.0	25.5	91	4	21
Americot AM 1532 B2RF	558	24.2	40.0	38.5	28.3	5.1	10.7	7.0	28.0	89	4	23
All-Tex AT Epic RF	555	27.3	40.0	41.9	34.6	5.9	10.2	7.6	32.3	89	5	23
All-Tex AT Apex B2RF	541	24.4	39.4	40.7	29.1	4.8	10.1	7.2	27.2	90	5	22
FiberMax FM 1740B2F	537	28.8	41.3	41.6	30.8	5.4	10.7	7.9	28.4	91	4	19
Stoneville ST 5458B2RF	536	25.9	41.0	38.7	29.4	5.4	10.8	7.4	27.7	89	5	19
PhytoGen PHY 375 WRF	527	26.1	37.9	41.5	28.9	4.4	9.9	7.4	24.6	89	4	23
PhytoGen PHY 315 RF	522	27.7	39.3	41.6	30.4	4.7	9.8	7.3	26.8	89	4	22
Deltapine DP 121 RF	513	25.7	35.8	43.0	31.5	4.8	10.0	7.8	26.6	90	4	21
Stoneville ST 4427B2F	512	23.7	40.7	38.3	27.7	4.6	10.4	6.8	25.6	93	3	21
Croplan Genetics CG 3035RF	500	26.5	39.4	42.0	29.7	5.1	10.6	8.0	26.9	89	4	24
Deltapine DP 161 B2RF	492	23.9	42.4	39.3	29.5	5.0	9.3	6.3	31.1	86	5	25
NexGen NG 4377 B2RF	491	25.1	39.6	40.1	--	4.2	11.3	7.9	26.3	91	4	25
NexGen NG 3331 B2RF	487	27.4	41.1	41.0	30.4	4.7	9.4	6.9	27.7	90	4	20
Croplan Genetics CG 3220B2RF	486	26.2	42.0	39.1	28.4	5.1	10.6	7.1	28.1	90	5	21
PhytoGen PHY 485 WRF	484	23.3	40.2	37.3	27.3	4.7	10.4	6.6	26.8	90	3	22
Stoneville ST 4554B2RF	479	23.6	38.6	39.6	30.7	5.5	11.3	7.8	27.8	90	4	22
Stoneville ST 5327B2RF	478	26.1	38.4	41.6	31.0	4.9	9.6	7.3	28.1	90	4	21
Deltapine DP 174 RF	472	27.3	39.1	42.5	31.1	5.6	10.3	8.0	29.3	88	5	21
All-Tex AT Summit B2F	465	24.1	40.9	37.0	44.3	6.3	10.4	6.6	35.4	89	4	19
PhytoGen PHY 370 WR	458	27.0	39.5	42.4	31.7	5.0	9.8	7.5	28.0	88	5	22
All-Tex AT Patriot RF	456	24.0	41.9	37.1	27.0	5.3	10.5	6.5	30.3	91	4	21
Croplan Genetics CG 3520B2RF	455	24.3	39.3	38.7	27.7	4.5	10.3	6.8	25.3	90	4	22
NexGen NG 4370 B2RF	440	26.1	40.2	40.3	29.9	5.1	9.6	6.7	30.2	89	5	23
Croplan Genetics CG 3020B2RF	437	23.1	40.6	38.0	26.5	5.1	10.5	6.7	28.6	88	5	21
Croplan Genetics CG 4020B2RF	435	24.6	39.6	38.6	29.8	5.1	10.4	6.8	28.9	88	4	23
FiberMax FM 958	433	25.8	38.8	41.2	30.7	5.1	11.5	8.2	25.6	95	5	20
All-Tex AT Atlas RR	431	24.7	44.1	35.7	26.1	5.3	11.6	6.8	28.0	99	6	19

Table 14. Results of the dryland cotton variety test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 9180 B2F	428	25.3	41.6	38.7	28.6	5.5	11.3	7.5	28.5	91	5	18
Texas Tech Raider 276	423	23.0	43.1	42.9	31.6	5.7	12.3	8.4	28.7	93	6	22
Deltapine DP 141 B2RF	422	24.8	42.3	38.7	28.9	5.0	9.2	6.1	32.1	91	4	25
NexGen NG 3410 RF	422	25.6	43.1	37.6	27.8	5.3	11.3	7.1	28.4	89	5	20
FiberMax FM 1880B2F	420	24.1	41.6	38.7	29.9	5.3	10.1	6.6	30.9	85	5	25
Deltapine DP 147 RF	419	26.3	42.0	38.9	28.9	5.4	10.3	6.8	31.0	89	4	24
FiberMax FM 9058F	414	26.3	40.3	39.7	30.2	5.3	11.1	7.6	27.7	95	5	20
Deltapine DP 104 B2RF	413	24.1	42.2	37.5	37.0	6.5	11.3	7.1	34.4	91	5	20
FiberMax FM 9063B2F	412	25.9	42.0	38.9	28.3	5.6	11.1	7.4	29.9	95	5	20
Deltapine DP 555 BG/RR	406	23.6	37.7	40.4	31.3	4.5	8.6	6.1	29.9	85	5	24
NexGen NG 1572 RF	406	25.7	41.8	39.6	29.8	4.7	10.4	7.0	26.9	94	6	21
Seed Tec Genetics CT 210	405	24.5	41.4	35.9	27.4	4.7	9.0	5.8	30.5	89	5	17
FiberMax FM 9160B2F	404	26.3	40.5	41.3	31.8	5.3	10.1	7.3	29.7	91	5	23
AFD 5064F	401	26.2	44.3	37.1	26.9	5.0	10.8	6.7	27.4	95	5	18
PhytoGen PHY 72	386	23.5	38.5	39.8	29.0	5.2	11.0	7.4	27.4	89	2	20
FiberMax FM 958LL	386	24.7	39.6	39.3	28.7	5.5	11.6	7.8	28.0	94	5	20
FiberMax FM 1735LLB2	377	23.9	41.1	38.8	27.0	4.4	10.6	7.0	24.7	88	6	21
NexGen NG 2448 R	362	25.6	41.2	37.4	28.7	5.8	11.5	7.4	29.7	90	6	22
NexGen NG 3348 B2RF	362	24.8	43.3	37.8	28.0	5.2	11.6	7.5	26.3	88	5	22
Deltapine DP 143 B2RF	348	23.4	42.5	37.8	29.3	5.2	9.9	6.3	31.4	89	5	21
FiberMax FM 955LLB2	348	23.7	42.6	37.8	27.7	5.8	12.2	7.7	28.4	94	6	20
AFD 5065B2F	247	23.8	44.4	35.5	26.9	5.5	11.2	6.7	29.8	94	5	18
Mean	452	25.3	40.9	39.3	29.6	5.1	10.5	7.1	28.5	90	4	21
c.v.%	18.5	10.6	7.1	4.7	5.7	9.6	5.3	7.0	9.9	3.2	14.9	12.8
LSD 0.05	98	3.1	3.4	3.1	2.8	0.8	0.9	0.8	4.7	3	1	3

Table 14A. Results of the dryland cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 4498B2RF	4.2	1.16	82.2	29.5	11.7	2	81.1	8.0	21-1,31-1
Deltapine DP 164 B2RF	3.9	1.17	80.2	27.9	9.5	1	82.7	7.5	21-1
PhytoGen PHY 425 RF	4.4	1.14	82.9	29.4	12.1	3	78.3	8.1	31-1,31-2
Americot AM 1532 B2RF	3.5	1.17	81.1	27.1	10.4	2	82.5	7.8	11-1,31-1
All-Tex AT Epic RF	4.1	1.13	81.7	27.7	10.0	1	80.4	8.2	21-1,21-2
All-Tex AT Apex B2RF	3.5	1.15	80.6	27.2	9.5	3	81.4	7.5	11-2,31-2
FiberMax FM 1740B2F	3.7	1.10	80.9	28.4	10.9	1	80.1	7.8	21-1,41-1
Stoneville ST 5458B2RF	4.2	1.13	80.8	28.2	8.9	2	79.2	8.5	21-2,31-1
PhytoGen PHY 375 WRF	3.8	1.12	81.8	27.0	10.3	2	81.3	8.3	21-1,21-2
PhytoGen PHY 315 RF	4.2	1.11	80.1	27.3	10.6	2	80.2	8.2	21-2
Deltapine DP 121 RF	4.1	1.09	81.4	28.9	12.1	1	81.6	8.1	21-1
Stoneville ST 4427B2F	4.1	1.17	80.5	29.1	9.2	2	81.4	7.7	21-1,21-2
Croplan Genetics CG 3035RF	4.0	1.13	82.5	27.2	10.1	1	79.7	8.3	21-2,31-1
Deltapine DP 161 B2RF	3.8	1.16	81.6	29.4	9.8	2	81.9	7.6	11-2,31-1
NexGen NG 4377 B2RF	3.7	1.14	81.9	28.3	9.4	2	81.4	8.2	21-1
NexGen NG 3331 B2RF	4.0	1.12	82.8	28.4	10.1	2	79.8	8.5	21-1,31-1
Croplan Genetics CG 3220B2RF	4.2	1.16	82.5	27.5	9.6	1	81.7	7.9	21-1,21-2
PhytoGen PHY 485 WRF	4.7	1.17	84.0	29.4	10.4	2	77.8	7.9	31-1,41-1
Stoneville ST 4554B2RF	3.6	1.13	82.0	28.1	10.1	2	81.9	8.2	21-1
Stoneville ST 5327B2RF	3.8	1.12	81.9	28.7	10.3	1	81.4	8.5	21-1
Deltapine DP 174 RF	3.9	1.14	80.9	26.8	9.4	1	81.8	7.8	21-1,21-2
All-Tex AT Summit B2F	3.4	1.09	81.2	26.5	10.9	1	82.5	7.4	21-1,21-2
PhytoGen PHY 370 WR	3.7	1.11	82.2	28.0	10.2	2	82.8	8.6	11-1,21-1
All-Tex AT Patriot RF	3.7	1.15	81.4	27.6	10.4	1	82.1	7.9	21-1
Croplan Genetics CG 3520B2RF	4.0	1.13	80.4	26.6	11.8	1	80.4	7.8	31-1
NexGen NG 4370 B2RF	3.2	1.11	81.9	27.5	10.7	3	81.2	8.3	11-1,31-1
Croplan Genetics CG 3020B2RF	3.8	1.12	81.7	26.6	9.6	2	80.6	7.5	21-2,31-1
Croplan Genetics CG 4020B2RF	3.5	1.15	80.5	27.4	10.1	1	82.0	8.0	11-1,31-1
FiberMax FM 958	4.0	1.18	82.2	31.0	8.1	1	82.5	7.4	21-1,21-2
All-Tex AT Atlas RR	4.2	1.08	81.9	29.5	10.9	1	80.3	7.9	21-1,31-2

Table 14A. Results of the dryland cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9180B2F	3.8	1.19	82.3	30.4	8.8	1	84.2	7.4	11-2,21-1
Texas Tech Raider 276	3.8	1.20	81.1	30.4	8.5	2	81.9	7.2	21-2,31-1
Deltapine DP 141 B2RF	3.6	1.19	80.8	28.9	9.1	2	82.9	7.5	21-1,21-2
NexGen NG 3410 RF	3.9	1.15	81.0	28.7	10.9	1	81.3	7.6	21-2,31-1
FiberMax FM 1880B2F	3.4	1.15	80.7	28.5	9.9	1	82.9	8.0	11-1,21-1
Deltapine DP 147 RF	3.3	1.16	80.0	27.1	9.7	2	82.6	7.7	11-1,31-1
FiberMax FM 9058F	3.6	1.21	81.8	29.5	8.2	2	83.6	7.6	11-2,21-1
Deltapine DP 104 B2RF	3.4	1.14	82.5	29.0	10.1	2	81.8	7.7	21-1,21-2
FiberMax FM 9063B2F	4.0	1.19	81.5	30.6	8.8	1	77.7	7.3	21-2,41-2
Deltapine DP 555 BG/RR	3.3	1.12	79.7	28.5	9.3	1	82.4	7.9	11-1,21-2
NexGen NG 1572 RF	3.2	1.15	81.9	28.4	9.1	3	82.1	7.1	31-1
Seed Tec Genetics CT 210	3.6	1.13	81.1	29.1	9.5	2	83.2	7.3	21-1,21-2
FiberMax FM 9160B2F	3.6	1.20	83.0	30.1	8.3	2	84.5	7.2	11-2,21-1
AFD 5064F	4.5	1.11	81.2	29.0	10.6	2	80.3	7.4	31-1
PhytoGen PHY 72	3.8	1.18	81.6	33.8	11.5	2	80.1	8.1	21-2
FiberMax FM 958LL	3.6	1.18	82.0	30.8	8.5	1	82.2	7.3	11-2,31-2
FiberMax FM 1735LLB2	3.3	1.14	82.2	30.3	8.2	1	83.4	6.9	21-1,31-1
NexGen NG 2448 R	3.9	1.11	82.8	30.8	10.3	1	81.6	8.1	21-1
NexGen NG 3348 B2RF	4.3	1.16	82.8	30.0	8.8	2	78.7	7.7	31-1,31-2
Deltapine DP 143 B2RF	3.1	1.15	79.3	28.4	9.2	1	81.9	7.6	21-1,21-2
FiberMax FM 955LLB2	3.3	1.20	81.0	29.0	8.5	1	81.8	7.4	11-2,31-1
AFD 5065B2F	4.0	1.12	80.7	28.2	10.7	2	82.9	7.3	21-2
Mean	3.8	1.14	81.5	28.7	9.9	1	81.4	7.8	
c.v.%	11.5	1.8	1.1	2.8	8.1	42.4	2.1	3.9	
LSD 0.05	0.7	0.03	1.5	1.3	1.3	1	2.8	0.5	

Table 15. Yield Summary of the dryland cotton variety test at the AG-CARES farm, Lamesa, TX, 2008.

Name	2004	2005	2006	2007	2008	Average	Comp. Average*
<u>Five Year Average</u>							
All-Tex AT Atlas	433	280	133	858	431	427	
FiberMax FM 958	494	347	165	1103	433	508	
FiberMax FM 958 LL	571	304	341	1148	386	550	
NexGen NG 2448 R	485	344	135	1024	362	470	
<u>Four Year Average</u>							
Deltapine DP 555 BG/RR		548	201	1122	406	569	571
PhytoGen PHY 370 WR		410	161	1091	458	530	532
PhytoGen PHY 72		260	118	1103	386	467	469
<u>Three Year Average</u>							
Croplan Genetics CG 3020B2F			195	1043	437	558	512
FiberMax FM 9058F			191	1102	414	569	522
PhytoGen PHY 485 WRF			210	1116	484	603	557

*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 2008.

Name	Overall Yield	Rank Lub Irr	Rank Lam Dry	Rank Lub Dry	Rank Halfway	Rank Lam Irr
All-Tex AT Epic RF	1288	5	5	1	38	3
FiberMax FM 1740B2F	1282	1	7	8	14	19
Stoneville ST 5458B2RF	1279	2	8	5	39	4
Deltapine DP 121 RF	1263	10	11	18	5	2
Stoneville ST 4554B2RF	1258	7	19	2	1	29
Croplan Genetics CG 3035RF	1245	11	13	6	18	8
Stoneville ST 4498B2RF	1234	14	1	21	15	9
FiberMax FM 9058F	1233	15	37	16	3	6
All-Tex AT Apex B2RF	1222	18	6	17	28	7
FiberMax FM 1880B2F	1212	16	35	4	40	14
PhytoGen PHY 375 WRF	1212	12	9	27	11	12
PhytoGen PHY 315 RF	1209	31	10	15	7	10
PhytoGen PHY 425 RF	1201	30	3	11	33	15
Americot AM 1532 B2RF	1193	26	4	10	26	20
PhytoGen PHY 370 WR	1185	20	23	47	6	1
Stoneville ST 5327B2RF	1179	17	20	35	8	18
Croplan Genetics CG 3220B2RF	1179	4	17	39	35	13
Deltapine DP 164 B2RF	1168	23	2	12	31	34
NexGen NG 4377 B2RF	1162	9	15	22	49	22
FiberMax FM 9180 B2F	1160	6	31	34	2	36
FiberMax FM 958LL	1159	3	46	19	13	40
Deltapine DP 174 RF	1158	21	21	23	48	11
Deltapine DP 555 BG/RR	1153	8	40	9	30	38
NexGen NG 3331 B2RF	1144	29	16	29	51	5
FiberMax FM 9063B2F	1141	22	39	31	4	31
FiberMax FM 958	1140	27	29	3	9	48
FiberMax FM 9160B2F	1140	19	43	33	23	21
Croplan Genetics CG 4020B2RF	1131	24	28	30	20	26
Croplan Genetics CG 3020B2RF	1122	35	27	41	16	16
PhytoGen PHY 485 WRF	1122	38	18	14	45	27
Stoneville ST 4427B2F	1121	32	12	13	42	39
Croplan Genetics CG 3520B2RF	1106	37	25	38	12	30
Seed Tec Genetics CT 210	1100	33	42	7	25	43
NexGen NG 4370 B2RF	1096	40	26	26	21	35
FiberMax FM 955LLB2	1095	13	51	25	22	46
All-Tex AT Summit B2F	1093	25	22	44	36	25
Deltapine DP 104 B2RF	1086	36	38	50	10	17
Texas Tech Raider 276	1075	50	32	20		47
AFD 5064F	1067	46	44	32	17	37
NexGen NG 3410 RF	1054	48	34	36	37	32
Deltapine DP 147 RF	1053	39	36	51	24	24
PhytoGen PHY 72	1042	45	45	46	27	28
Deltapine DP 161 B2RF	1042	41	14	24	50	50
NexGen NG 3348 B2RF	1037	43	49	28	32	42
Deltapine DP 141 B2RF	1037	28	33	45	41	41
Deltapine DP 143 B2RF	1034	34	50	42	47	33
All-Tex AT Patriot RF	1028	44	24	40	34	44
NexGen NG 2448 R	1017	47	48	52	29	23
NexGen NG 1572 RF	980	51	41	49	19	45
FiberMax FM 1735LLB2	968	49	47	37	43	51
AFD 5065F	949	42	52	48	46	49
All-Tex AT Atlas RR	901	52	30	43	44	52

NOTES

Table 17. Production information for furrow irrigated performance test at the Dale Swinburn farm, Tulia, TX 2008.

Test:	Cotton Variety
Planting Date:	May 5
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Treflan @ 1qt/A applied pre-plant
Fertilizer:	Feedlot manure @ 10 tons/A
Irrigations:	April 25 July 15 August 2
Insecticide:	Temik @ 3.5 lbs/A at planting
Harvest Aids:	Prep @ 1 qt/A applied October 20
Harvest Date:	November 10
Freeze Date:	October 23

Table 18. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia, TX 2008.

Designation	Yield	Agronomic Properties							% Open Bolls 10/5/08	Storm Resistance	Height
		% Turnout		% Lint	Boll	Seed	Lint	Seed Per			
		Lint	Seed	Picked	Size	Index	Index	Boll			
FiberMax FM 1740B2F	1740	31.3	45.0	43.6	5.4	10.6	9.2	27.2	66	6	25
Stoneville ST 5327B2RF	1685	28.1	44.6	37.7	5.1	10.3	7.9	28.6	53	4	28
Seed Tec Genetics CT 210	1662	28.7	47.3	38.9	5.3	9.6	6.3	32.1	59	4	27
FiberMax FM 9058F	1654	30.0	45.0	40.9	4.9	10.4	7.8	25.8	69	6	24
PhytoGen PHY 375 WRF	1645	29.0	41.2	40.1	4.6	10.0	7.3	25.4	58	4	27
Deltapine DP 0912 B2RF	1640	29.7	45.3	39.2	5.4	10.6	7.4	28.7	60	4	25
FiberMax FM 958LL	1634	28.0	43.6	38.7	5.6	11.4	7.6	28.4	78	6	24
FiberMax FM 955LLB2	1629	27.1	46.2	37.1	5.9	12.3	7.6	28.4	63	6	27
Deltapine DP 0935 B2RF	1616	28.1	43.3	38.6	5.6	11.2	7.5	28.6	46	5	29
Deltapine DP 0924 B2RF	1589	29.9	44.1	40.5	4.8	9.9	7.3	27.0	63	5	26
Deltapine DP 121 RF	1558	31.6	45.1	41.4	4.9	9.7	7.2	27.8	71	4	24
NexGen NG 3348 B2RF	1551	29.6	45.7	39.2	5.1	11.5	8.0	25.1	64	6	25
AFD 5064F	1546	26.9	47.5	37.2	5.1	10.7	6.7	27.9	69	7	27
Stoneville ST 4498B2RF	1528	26.9	42.9	37.7	5.6	11.0	7.1	29.8	53	4	26
FiberMax FM 9063B2F	1524	27.5	45.4	38.5	5.9	12.1	8.1	28.1	74	6	24
PhytoGen PHY 315 RF	1494	27.2	41.3	41.2	5.0	10.0	7.4	27.6	64	4	27
Monsanto 07X440 DF	1490	31.9	41.3	42.7	4.2	8.9	7.5	23.9	73	6	25
Stoneville ST 4554B2RF	1473	27.9	43.6	38.8	5.4	10.7	7.2	28.9	66	4	25
FiberMax FM 1735LLB2	1472	29.2	47.3	39.3	4.7	10.4	7.2	25.7	68	6	25
Deltapine DP 104 B2RF	1458	28.0	46.8	37.6	5.6	11.2	7.1	29.2	73	6	23
FiberMax FM 9180B2F	1448	27.5	45.0	38.6	5.5	11.7	7.9	27.0	75	7	24
PhytoGen PHY 425 RF	1444	26.5	46.3	38.0	4.5	10.1	6.6	26.2	71	4	27
Croplan Genetics CG 3035RF	1437	28.7	42.1	42.6	5.6	10.1	8.0	29.9	68	5	25
Croplan Genetics CG 3520B2RF	1430	26.2	43.3	38.9	4.9	10.3	6.9	27.4	75	4	24
Croplan Genetics CG 4020B2RF	1416	28.5	46.7	38.8	5.3	10.4	7.0	29.0	61	5	26
PhytoGen PHY 370 WR	1415	28.6	44.1	38.6	4.9	10.3	7.0	27.2	68	4	27
Americot AM 1532 B2RF	1405	26.8	45.2	40.0	5.0	10.6	6.7	29.4	71	6	24
AFD 5065B2F	1384	25.8	48.3	36.0	5.5	10.9	6.4	30.7	68	7	25
Stoneville ST 4427B2RF	1382	27.5	45.3	35.8	5.4	10.7	6.4	30.1	76	3	28
PhytoGen PHY 485 WRF	1374	25.9	44.5	37.5	4.6	9.9	7.1	24.2	68	3	27

Table 18. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia, TX 2008.

Designation	Yield	% Turnout		% Lint	Agronomic Properties				% Open	Storm Resistance	Height
		Lint	Seed	Picked	Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/5/08		
NexGen NG 3410 RF	1368	27.7	46.0	40.1	5.3	10.8	7.9	26.9	60	7	25
Paymaster PM 2141 B2RF	1365	27.9	42.9	39.9	5.3	11.5	8.3	25.3	66	8	22
FiberMax FM 9160B2F	1302	28.5	46.2	40.3	5.6	10.3	7.4	30.3	75	6	24
Croplan Genetics CG 3020B2RF	1285	26.1	44.5	38.6	4.3	10.1	6.8	26.3	70	4	25
Mean	1501	28.2	44.8	39.2	5.1	10.6	7.3	27.7	66	5	25
c.v.%	10.2	5.6	4.8	3.4	5.7	3.5	6.7	5.8	14.7	13.1	8.1
LSD 0.05	179	1.9	2.5	2.3	0.5	0.6	0.8	2.7	11	1	2

Table 18A. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 1740B2F	4.6	1.09	80.0	27.2	10.4	2	77.2	8.2	31-2
Stoneville ST 5327B2RF	3.9	1.13	82.1	28.8	10.7	3	75.8	9.2	31-3
Seed Tec Genetics CT 210	4.0	1.12	81.4	28.2	9.2	3	76.2	7.8	31-2,41-1
FiberMax FM 9058F	4.3	1.16	79.4	28.1	8.9	4	72.0	7.9	41-1,51-3
PhytoGen PHY 375 WRF	4.0	1.09	80.3	26.2	10.0	3	75.4	8.8	31-3,41-1
Deltapine DP 0912 B2RF	4.3	1.10	81.6	28.0	10.5	3	75.4	9.5	31-3,32-1
FiberMax FM 958LL	3.8	1.17	80.6	30.2	9.1	3	76.1	8.1	41-1
FiberMax FM 955LLB2	3.7	1.19	81.3	29.5	9.5	5	75.8	8.7	31-3,41-1
Deltapine DP 0935 B2RF	3.7	1.09	78.8	26.3	10.6	2	75.7	10.2	21-4,32-1
Deltapine DP 0924 B2RF	4.8	1.10	81.6	27.9	10.6	3	73.7	9.0	41-1,42-1
Deltapine DP 121 RF	4.5	1.08	82.1	27.8	11.3	2	76.6	8.7	31-1,31-3
NexGen NG 3348 B2RF	4.1	1.12	82.2	27.4	10.1	4	74.6	8.7	31-4,41-3
AFD 5064F	4.5	1.10	80.8	27.8	10.3	4	74.4	8.2	41-1
Stoneville ST 4498B2RF	3.7	1.14	81.8	28.4	11.3	3	69.8	9.9	42-1,43-2
FiberMax FM 9063B2F	4.4	1.19	81.6	30.7	9.0	3	78.2	7.5	31-2
PhytoGen PHY 315 RF	4.3	1.11	81.3	26.3	9.5	3	76.0	8.7	31-1,31-4
Monsanto 07X440 DF	4.1	1.07	80.5	24.7	10.9	3	74.8	10.0	32-1
Stoneville ST 4554B2RF	4.1	1.10	80.7	27.8	11.3	4	74.2	9.9	32-1,32-2
FiberMax FM 1735LLB2	4.2	1.11	81.7	29.3	8.6	3	76.5	7.7	41-1,31-2
Deltapine DP 104 B2RF	4.0	1.12	82.1	28.4	10.7	4	75.7	8.2	31-2,41-1
FiberMax FM 9180B2F	4.2	1.15	80.4	29.3	9.5	3	76.2	8.4	31-2,31-3
PhytoGen PHY 425 RF	4.3	1.14	82.2	28.3	11.1	3	74.4	9.0	31-4,41-3
Croplan Genetics CG 3035RF	3.9	1.11	80.4	27.0	11.4	2	77.5	8.9	31-1
Croplan Genetics CG 3520B2RF	3.8	1.11	79.6	26.1	10.6	3	76.0	8.9	31-2,31-3
Croplan Genetics CG 4020B2RF	3.9	1.14	80.3	27.0	10.1	4	75.6	8.4	31-2,41-1
PhytoGen PHY 370 WR	3.7	1.08	81.5	27.5	10.0	4	76.3	8.7	31-1,41-1
Americot AM 1532 B2RF	3.9	1.14	79.8	26.3	10.3	3	77.3	8.2	31-2
AFD 5065B2F	3.8	1.15	80.9	27.6	10.3	3	76.6	8.3	31-1,41-1
Stoneville ST 4427B2RF	3.7	1.11	81.1	27.7	10.1	3	74.1	8.7	31-4,41-3
PhytoGen PHY 485 WRF	4.5	1.13	82.3	27.7	11.1	5	71.7	9.1	41-3,42-2

Table 18A. Results of the irrigated cotton variety test at the Dale Swinburn farm, Tulia, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
NexGen NG 3410 RF	4.0	1.17	82.7	28.3	9.7	3	74.5	9.0	31-4,32-2
Paymaster PM 2141 B2RF	4.4	1.11	80.8	27.0	10.1	4	73.1	8.1	41-2,41-4
FiberMax FM 9160B2F	3.6	1.17	81.9	30.1	8.9	5	77.2	8.1	31-2
Croplan Genetics CG 3020 B2RF	4.2	1.08	79.5	26.0	10.4	3	77.3	8.8	31-1,31-3
Mean	4.1	1.12	81.0	27.8	10.2	3	75.3	8.7	
c.v.%	7.7	2.1	1.2	2.5	4.8	25.7	2.0	5.3	
LSD 0.05	0.5	0.04	1.6	1.2	0.8	1	2.6	0.8	

Table 19. Yield Summary of the irrigated cotton variety test at the Dale Swinburn farm, Tulia, TX, 2008.

Designation	2004	2005	2006	2008	Average	Comp. Average*
	Four Year Average					
FiberMax FM 958LL	1269	1028	1695	1634	1407	
	Three Year Average					
PhytoGen PHY 370 WR		913	1435	1415	1254	1209

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

Table 20. Production information for furrow irrigated performance test at Texas AgriLife Research, Pecos, TX 2008.

Test:	Regional Variety	
Planting Date:	May 14	
Row Spacing:	34-42 in variable (equivalent to 38 in)	
Planting Pattern:	Solid	
Herbicide:	Prowl @ 2 pt/A applied pre-plant	
Fertilizer:	none	
Irrigations:	10.0 acre inches May 14 4.7 acre inches May 28 4.7 acre inches June 7 4.8 acre inches June 23 4.7 acre inches July 14	4.8 acre inches July 29 4.8 acre inches August 13 4.8 acre inches August 25 <u>4.8 acre inches September 9</u> 48.1 acre inches
Insecticide:	none	
Harvest Aids:	Prep @ 16 oz/A + Def @ 16 oz/A applied October 29 Gramoxone @ 16 oz/A applied November 4	
Harvest Date:	November 14	
Freeze Date:	November 7	

Table 21. Results of the irrigated cotton variety test at Texas AgriLife Research, Pecos, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/3/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
PhytoGen PHY 315 RF	1469	32.7	39.9	43.4	32.0	4.7	8.8	7.1	28.5	81	3	24
PhytoGen PHY 375 WRF	1416	29.9	39.1	41.4	29.9	4.7	8.5	6.8	28.4	79	3	23
Deltapine DP 555 BG/RR	1358	31.9	41.6	41.8	32.6	4.2	7.9	6.1	28.6	78	4	24
FiberMax FM 989B2R	1320	27.8	42.9	38.2	29.1	5.1	9.4	6.3	31.0	85	5	25
Stoneville ST 4498B2RF	1298	28.9	40.6	39.7	30.5	4.9	8.9	6.2	31.3	85	3	22
Deltapine DP 0935 B2RF	1286	29.5	40.3	43.7	32.5	4.7	9.1	7.2	28.4	75	5	23
Stoneville ST 5327B2RF	1242	28.0	40.1	40.9	29.5	4.1	8.0	6.0	28.1	85	3	23
FiberMax FM 9180B2F	1226	31.2	41.4	38.2	27.5	4.6	9.7	6.3	27.8	93	7	21
Deltapine DP 161 B2RF	1222	28.9	44.1	38.4	28.1	4.2	8.5	5.8	27.5	80	4	25
FiberMax FM 9058F	1209	29.5	41.6	40.7	30.5	5.0	9.7	7.1	28.5	93	6	20
Texas Tech Raider 276	1209	27.5	41.7	37.7	32.7	5.8	10.1	6.4	34.5	93	7	23
PhytoGen PHY 485 WRF	1191	26.2	39.9	38.7	28.1	4.0	8.2	5.6	28.1	78	3	24
Stoneville ST 5458B2RF	1182	27.7	39.2	42.2	30.7	4.5	9.1	7.0	27.4	84	5	21
Croplan Genetics CG 3220B2RF	1175	29.2	40.8	41.7	32.1	4.8	8.8	6.6	30.4	85	4	22
FiberMax FM 9160B2RF	1166	30.1	40.7	40.6	29.9	4.7	8.9	6.2	29.5	86	6	23
Deltapine DP 143 B2RF	1161	27.6	41.7	44.8	28.0	4.1	8.5	6.5	24.9	79	4	24
PhytoGen PHY 370 WR	1155	26.6	37.4	41.3	34.6	5.2	9.0	6.8	32.1	83	3	24
Stoneville ST 5288B2F	1134	29.9	41.1	40.5	29.2	4.3	8.4	6.1	28.7	88	4	22
Deltapine DP 0924 B2RF	1132	29.7	42.5	41.3	30.9	4.6	9.0	6.7	28.7	78	4	24
PhytoGen PHY 425 RF	1126	26.4	41.3	38.6	27.5	4.2	8.5	5.7	28.9	80	4	25
Seed Tec Genetics CT 210	1126	30.3	43.5	40.2	30.6	4.0	8.0	5.5	29.1	84	4	22
Acala NM03012	1122	26.2	41.2	42.2	30.2	5.0	9.6	7.3	29.2	78	3	26
PhytoGen PHY 745 WRF	1119	29.1	41.9	40.1	29.7	4.7	9.3	6.7	27.8	83	3	24
PhytoGen PHY 72	1115	27.4	40.8	40.4	30.1	4.7	9.3	6.9	27.4	79	3	22
FiberMax FM 1880B2F	1115	28.2	41.5	40.9	37.5	5.5	9.0	6.4	34.6	83	4	24
PhytoGen PHY 755 WRF	1100	26.9	43.0	39.0	28.2	4.4	8.6	5.7	30.1	81	3	22
Stoneville ST 4427B2RF	1093	27.0	39.8	38.9	22.0	3.5	9.0	6.2	21.7	85	3	23
Deltapine DP 174 RF	1082	28.8	37.8	43.7	32.4	4.9	8.7	7.1	30.3	78	4	25
Deltapine DP 0912 B2RF	1081	29.5	42.2	41.4	30.0	4.7	9.3	6.9	28.3	61	3	23
Monsanto 07X440 DF	1080	31.1	38.9	44.7	30.1	3.9	7.8	6.8	25.3	81	5	21

Table 21. Results of the irrigated cotton variety test at Texas AgriLife Research, Pecos, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Bolls	Storm	Height
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	11/3/08	Resistance	
Stoneville ST 4554B2RF	1079	25.9	37.7	39.4	28.7	4.5	8.9	6.4	28.0	85	3	21
Acala 1517-99	1073	25.7	40.3	36.7	26.4	4.5	9.7	6.2	26.3	74	2	25
FiberMax FM 1740B2F	1052	28.0	38.6	42.4	33.1	4.7	9.2	7.1	27.8	89	5	19
Deltapine DP 141 B2RF	1036	25.1	41.2	38.7	28.2	4.2	8.0	5.4	30.2	79	4	22
Bayer BCSX 0721B2F	1030	29.9	40.6	39.6	29.8	4.3	8.3	5.9	29.0	88	5	20
Deltapine DP 164 B2RF	1028	26.2	42.0	40.1	30.2	4.4	8.8	6.3	29.8	80	4	23
Stoneville ST 4288B2F	990	27.1	40.9	37.1	28.9	4.6	8.8	5.5	30.9	86	3	20
Croplan Genetics CG 4020B2RF	951	28.6	42.1	40.9	26.2	4.0	9.0	6.4	25.3	85	4	22
Acala 1517-99W	915	24.2	40.4	37.3	27.7	4.2	9.0	6.0	26.1	78	2	24
Mean	1148	28.3	40.8	40.4	29.8	4.5	8.8	6.3	28.7	82	4	23
c.v.%	14.9	9.0	6.1	3.2	8.4	8.9	3.8	6.0	9.9	7.7	13.4	5.6
LSD 0.05	201	3.0	3.0	2.2	4.3	0.7	0.6	0.6	4.8	7	1	1

Table 21A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Pecos, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
PhytoGen PHY 315 RF	4.6	1.06	79.9	26.1	10.3	1	79.2	8.2	31-1
PhytoGen PHY 375 WRF	4.7	1.08	81.1	26.6	10.8	2	80.2	7.9	31-1
Deltapine DP 555 BG/RR	4.1	1.06	79.0	27.2	9.5	2	80.6	8.3	21-1,21-2
FiberMax FM 989B2R	4.4	1.12	81.7	29.1	9.9	1	80.8	8.0	21-1,31-1
Stoneville ST 4498B2RF	4.2	1.08	81.6	28.3	12.1	3	77.4	8.4	31-1,31-2
Deltapine DP 0935 B2RF	4.6	1.07	80.2	27.0	10.9	1	80.1	8.4	21-1,21-2
Stoneville ST 5327B2RF	4.7	1.08	81.3	27.7	10.8	3	76.3	8.2	31-1,41-3
FiberMax FM 9180B2F	4.6	1.14	81.9	29.7	9.7	1	81.7	7.1	31-1
Deltapine DP 161 B2RF	4.7	1.13	80.5	28.1	9.9	1	79.5	7.7	31-1
FiberMax FM 9058F	4.5	1.14	79.6	28.5	8.8	1	81.0	7.5	31-1
Texas Tech Raider 276	4.3	1.14	80.5	30.2	8.5	1	82.7	7.6	21-1,21-2
PhytoGen PHY 485 WRF	4.3	1.06	80.6	28.0	11.8	5	76.2	7.8	41-1
Stoneville ST 5458B2RF	4.7	1.07	78.5	27.2	10.7	3	78.3	8.0	31-1,31-2
Croplan Genetics CG 3220B2RF	4.4	1.08	80.4	26.8	10.8	1	81.0	8.2	21-1,21-2
FiberMax FM 9160B2F	3.9	1.12	80.3	29.4	9.6	1	80.8	8.0	21-1,31-1
Deltapine DP 143 B2RF	3.9	1.13	79.0	27.2	9.7	3	80.1	7.4	31-1,31-2
PhytoGen PHY 370 WR	4.5	1.06	81.8	27.6	11.3	1	80.5	8.1	21-2
Stoneville ST 5288B2F	5.1	1.07	79.5	25.8	10.6	4	77.9	6.9	41-1
Deltapine DP 0924 B2RF	4.8	1.08	80.4	27.7	11.0	2	78.9	7.7	31-1,31-2
PhytoGen PHY 425 RF	4.2	1.06	80.8	27.7	11.2	3	76.5	8.8	21-4,41-1
Seed Tec Genetics CT 210	4.6	1.07	79.3	27.4	10.5	1	81.8	8.1	21-1
Acala NM03012	4.3	1.15	80.7	32.3	10.3	2	79.6	8.6	21-1,21-2
PhytoGen PHY 745 WRF	4.5	1.10	81.4	29.3	12.0	2	78.2	8.2	21-2,31-2
PhytoGen PHY 72	4.6	1.13	81.4	31.6	10.8	1	77.8	8.7	21-2,31-1
FiberMax FM 1880B2F	4.2	1.13	79.2	27.7	10.4	1	81.4	7.5	21-2,31-1
PhytoGen PHY 755 WRF	4.2	1.19	81.5	32.0	10.7	2	78.1	9.0	21-2,31-3
Stoneville ST 4427B2RF	4.8	1.07	80.2	27.3	10.1	3	78.5	8.2	31-1
Deltapine DP 174 RF	4.6	1.11	80.1	26.1	10.8	2	78.8	7.9	31-1
Deltapine DP 0912 B2RF	4.9	1.05	81.1	27.3	11.0	2	78.3	7.6	31-2
Monsanto 07X440 DF	4.2	1.08	80.4	25.2	11.1	3	80.0	8.2	21-2

Table 21A. Results of the irrigated cotton variety test at Texas AgriLife Reserch, Pecos, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 4554B2RF	4.3	1.05	79.7	28.0	12.4	3	77.8	8.1	31-1,31-2
Acala 1517-99	4.3	1.14	81.4	31.3	10.2	3	77.4	8.5	31-1,31-2
FiberMax FM 1740B2F	4.6	1.07	80.1	27.5	10.3	1	80.3	7.5	31-1
Deltapine DP 141 B2RF	4.2	1.10	79.3	27.3	10.3	1	79.4	7.5	31-1,31-2
Bayer BCSX 0721B2F	4.8	1.11	81.3	27.0	11.3	2	81.7	7.3	21-2,31-1
Deltapine DP 164 B2RF	4.6	1.13	80.9	27.8	9.8	1	79.8	7.7	31-1
Stoneville ST 4288B2F	4.4	1.12	79.6	28.0	9.8	1	79.8	7.9	21-1,31-1
Croplan Genetics CG 4020B2RF	4.6	1.11	80.1	25.7	10.4	2	81.5	8.0	11-2,31-1
Acala 1517-99W	3.6	1.16	81.2	31.3	10.0	4	75.0	7.9	31-2,41-2
Mean	4.4	1.10	80.4	28.1	10.5	2	79.3	7.9	
c.v.%	5.8	1.7	1.1	2.8	4.8	35.2	1.5	3.9	
LSD 0.05	0.4	0.03	1.5	1.3	0.8	1	2.0	0.5	

Table 22. Yield summary of the irrigated variety test at Texas AgriLife Research, Pecos, TX, 2008.

Designation	2004	2005	2006	2007	2008	Average	Comp. Average*
	Five Year Average						
Acala 1517-99	960	395	1182	1080	1073	938	
PhytoGen PHY 72	952	481	1264	1119	1115	986	
Deltapine 555 BG/RR	1354	448	1360	1031	1358	1110	
	Three Year Average						
Croplan Genetics 4020B2RF			1108	946	951	1002	837

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

Table 23. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2008.

Test:	Late Planted Variety
Planting Date:	June 10
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.3 acre inches April 25 3.1 acre inches June 10 1.7 acre inches July 14 2.5 acre inches August 1 2.5 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms
Harvest Aids:	None
Harvest Date:	November 21
Freeze Date:	October 23

Table 24. Results of the irrigated late planted variety test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Deltapine DP 104 B2RF	1536	24.6	46.4	37.2	29.2	6.5	11.5	6.6	36.9	93	5	28
Paymaster PM 2141 B2RF	1480	25.8	42.4	40.5	29.6	5.7	12.7	8.0	28.6	95	6	26
FiberMax FM 9180B2F	1378	26.4	43.7	39.9	32.6	5.7	11.2	7.1	32.1	90	6	28
AFD 5064F	1314	26.6	47.2	37.7	29.0	5.4	11.1	6.4	32.4	90	5	28
AFD 5065B2F	1310	23.7	45.3	36.8	28.1	5.8	11.5	6.3	34.2	91	6	29
FiberMax FM 955LLB2	1283	23.7	42.5	38.7	30.3	6.2	11.9	7.2	33.5	81	5	31
FiberMax FM 958LL	1244	24.5	41.5	40.8	29.8	5.8	11.7	7.4	30.8	85	5	30
Croplan Genetics CG 3020B2RF	1235	24.2	41.9	39.1	30.0	5.3	10.7	6.5	32.3	83	5	28
FiberMax FM 9063B2F	1228	23.9	42.2	39.3	28.0	5.6	11.3	6.9	32.2	86	5	29
07T#D-1	1219	21.4	44.1	36.0	26.1	5.8	12.9	6.9	30.1	75	6	29
PhytoGen PHY 370 WR	1216	24.2	38.8	41.1	30.3	5.0	10.5	6.7	30.1	75	4	32
Deltapine DP 0912 B2RF	1199	21.8	40.7	40.6	28.0	4.9	11.0	7.0	28.5	70	4	33
FiberMax FM 9058F	1199	23.9	40.9	41.0	30.4	5.4	11.1	7.3	30.8	88	5	27
Croplan Genetics CG 3520B2RF	1192	21.8	41.2	39.5	28.8	4.4	9.0	5.4	31.9	85	5	29
PhytoGen PHY 375 WRF	1134	22.2	38.0	40.7	29.7	4.5	10.4	6.6	27.9	74	4	32
Croplan Genetics CG 3220B2RF	1122	21.8	41.8	38.9	29.1	5.3	9.7	5.9	34.9	79	5	32
Monsanto 07X440DF	1078	24.8	38.4	44.4	34.2	4.7	9.3	6.8	31.2	78	4	30
Deltapine DP 0935 B2RF	1057	21.9	38.2	39.7	29.4	5.1	9.9	6.0	33.6	71	4	34
07T#A-5	1052	22.7	44.5	35.7	28.2	7.3	10.6	5.8	39.1	75	5	30
PhytoGen PHY 315 RF	990	21.2	37.1	41.8	31.6	4.9	10.0	6.7	31.1	71	4	32
Mean	1223	23.5	41.8	39.4	29.6	5.5	10.9	6.6	32.1	82	5	30
c.v.%	10.4	7.9	4.6	2.6	6.8	12.9	6.6	6.8	9.1	3.9	11.0	6.2
LSD 0.05	151	2.2	2.3	1.8	3.5	1.2	1.2	0.8	5.1	4	1	2

Table 24A. Results of the irrigated late planted variety test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 104 B2RF	3.0	1.13	81.5	27.6	10.3	4	77.7	7.7	31-1,41-1
Paymaster PM 2141 B2RF	3.3	1.14	82.2	27.0	9.9	4	78.7	7.8	31-1,31-2
FiberMax FM 9180B2F	3.4	1.21	83.1	29.6	9.3	3	82.3	7.5	21-2
AFD 5064F	3.5	1.10	81.5	27.9	9.8	3	78.5	8.3	21-2,31-2
AFD 5065B2F	3.1	1.16	81.0	28.1	10.3	4	79.8	7.5	21-2,31-2
FiberMax FM 955LLB2	2.9	1.20	81.6	28.5	8.9	3	81.6	7.3	11-2,31-2
FiberMax FM 958LL	2.8	1.21	81.9	28.6	8.5	3	79.8	7.7	21-2,31-1
Croplan Genetics CG 3020B2RF	3.0	1.12	81.0	25.1	10.1	2	81.5	8.6	11-2,21-1
FiberMax FM 9063B2F	3.1	1.22	81.4	29.3	9.0	2	81.3	7.6	21-1,21-2
07T#D-1	2.8	1.29	81.5	29.4	9.0	3	80.9	8.0	21-1,31-1
PhytoGen PHY 370 WR	2.9	1.07	81.4	26.0	9.9	3	80.7	9.3	11-2
Deltapine DP 0912 B2RF	2.6	1.11	80.5	26.8	9.6	4	81.6	8.9	11-2,21-1
FiberMax FM 9058F	2.9	1.20	80.3	27.9	8.6	4	81.3	8.0	21-1,31-1
Croplan Genetics CG 3520B2RF	2.9	1.14	80.6	25.6	10.4	3	80.0	8.7	11-2,21-2
PhytoGen PHY 375 WRF	2.7	1.13	81.8	25.5	9.5	3	79.1	9.1	21-1
Croplan Genetics CG 3220B2RF	2.7	1.13	79.9	25.3	9.6	3	81.3	8.4	21-1,21-2
Monsanto 07X440DF	2.7	1.13	79.6	25.8	10.3	3	80.5	8.4	21-1,21-2
Deltapine DP 0924 B2RF	2.7	1.12	80.8	27.7	9.9	4	77.5	8.4	21-1,41-1
07T#A-5	2.8	1.19	82.5	28.4	9.8	3	79.2	8.8	21-1,31-1
PhytoGen PHY 315 RF	2.8	1.07	79.3	25.1	9.3	2	80.2	9.1	11-2,21-1
Mean	2.9	1.15	81.2	27.2	9.6	3	80.2	8.2	
c.v.%	8.0	1.9	1.0	3.1	1.9	35.2	2.2	4.4	
LSD 0.05	0.4	0.04	1.4	1.4	0.3	2	3.1	0.6	

NOTES

Table 25. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2008.

Test:	New Variety and Strains
Planting Date:	May 17
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant Dual Magnum @ 1 ¼/A applied June 12
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.3 acre inches April 25 2.3 acre inches June 18 1.7 acre inches July 14 2.5 acre inches August 1 2.5 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms
Harvest Aids:	None
Harvest Date:	November 22
Freeze Date:	October 23

Table 26. Results of the irrigated new varieties and strains test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/23/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Deltapine DP 0912 B2RF	2138	30.3	43.9	41.4	32.5	6.1	10.3	7.5	33.8	74	4	26
Deltapine DP 0924 B2RF	2046	29.3	42.2	40.7	31.4	5.7	10.3	7.3	31.6	76	5	28
FiberMax FM 9058F	2035	28.9	42.2	40.5	32.8	6.2	11.4	7.9	31.9	81	6	27
Deltapine DP 0935 B2RF	2029	27.7	41.0	42.3	32.5	6.5	11.2	8.5	32.5	58	6	29
All-Tex 7A21	2013	28.5	39.4	44.3	33.5	5.5	10.0	8.4	30.7	66	5	29
Stoneville ST 4288B2F	1988	28.4	45.9	38.5	29.8	6.0	11.5	7.3	31.8	79	5	26
FiberMax FM 1845LLB2	1980	27.7	45.2	37.9	28.8	5.7	12.1	7.6	28.3	75	6	28
FiberMax FM 9180B2F	1974	28.3	43.5	37.0	28.6	6.5	11.6	7.2	33.3	83	6	26
Deltapine DP 121 RF	1927	29.0	40.9	41.4	31.6	5.2	9.9	7.3	29.5	75	5	26
Stoneville ST 5288B2F	1919	29.3	43.1	40.9	31.9	5.8	9.6	6.9	34.7	81	5	30
All-Tex 7A24	1849	28.0	39.2	42.0	31.3	5.6	10.4	7.7	30.2	63	6	31
Monsanto 07X440DF	1839	30.4	40.1	43.6	33.0	4.9	9.0	7.2	29.8	76	7	27
All-Tex 8103	1824	28.6	40.4	41.8	31.4	5.8	10.5	7.8	30.8	71	6	29
All-Tex 7B35	1820	26.6	42.7	39.6	28.6	5.5	11.3	7.6	29.0	66	5	26
Americot AM 1532 B2RF	1819	28.0	45.0	38.3	31.3	5.6	10.9	6.9	30.6	78	5	28
All-Tex 7A18	1770	27.6	42.7	40.6	30.3	5.8	9.7	6.8	34.2	74	5	29
Bayer BCSX0888LLB2	1761	28.7	41.1	39.8	30.7	5.8	11.9	8.0	28.6	80	7	26
Deltapine DP 143 B2F	1755	26.8	45.9	37.0	30.2	5.6	10.5	6.3	32.6	76	5	27
TA07A5	1748	26.9	45.8	37.1	29.1	5.8	12.4	7.5	28.7	76	5	26
Bayer BCSX0187LLB2	1733	28.9	42.5	39.9	30.7	5.7	10.5	7.3	31.3	76	6	27
All-Tex AW102	1714	27.9	42.7	39.5	30.0	5.9	10.6	7.1	32.9	71	6	27
Bayer BCSX0721B2F	1684	29.1	42.2	42.1	31.2	4.9	9.7	7.2	28.6	76	6	28
H&W GENETEX H&W 573 RF	1551	23.1	46.2	33.6	26.2	6.6	13.9	7.2	30.9	68	4	28
H&W GENETEX H&W 571 RF	1538	25.6	42.8	37.2	30.1	6.3	12.2	7.4	31.6	74	4	27
H&W GENETEX H&W 565 RF	1410	25.2	48.5	34.2	26.5	7.0	14.3	7.7	31.3	71	5	27
H&W GENETEX H&W 577 RF	1385	22.8	48.1	33.4	25.1	6.3	13.1	6.7	31.3	69	5	28
TAM B 147-21	1302	24.4	42.7	37.3	26.9	6.9	13.5	8.4	31.1	80	6	21
Seed Tec Genetics CT-596-9	1291	27.0	43.9	37.8	28.7	6.3	11.0	6.9	34.6	69	6	27
Mean	1780	27.6	43.2	39.2	30.1	5.9	11.2	7.4	31.3	74	5	27
c.v.%	9.0	4.9	4.1	2.3	4.2	8.5	3.2	5.1	7.9	8.3	8.2	6.8
LSD 0.05	189	1.6	2.1	1.5	2.2	0.9	0.6	0.6	4.2	7	1	2

Table 26A. Results of the irrigated new varieties and strains test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Deltapine DP 0912 B2RF	4.4	1.13	82.9	27.4	10.3	1	78.0	8.5	31-1,31-2
Deltapine DP 0924 B2RF	4.2	1.13	82.7	27.5	11.0	2	80.7	8.0	21-1,31-1
FiberMax FM 9058F	3.8	1.21	81.6	28.5	8.9	2	81.6	7.2	31-1,21-2
Deltapine DP 0935 B2RF	3.8	1.11	81.3	27.0	10.2	1	80.3	8.9	11-2,21-1
All-Tex 7A21	4.0	1.21	82.1	28.0	10.0	3	80.0	8.0	21-1,31-1
Stoneville ST 4288B2F	4.2	1.16	80.7	27.4	10.0	2	79.4	8.3	21-2,31-1
FiberMax FM 1845LLB2	3.7	1.19	82.0	28.5	10.2	3	79.6	7.9	31-1
FiberMax FM 9180B2F	4.0	1.16	81.3	27.8	10.1	3	80.3	7.0	31-1,31-2
Deltapine DP 121 RF	4.5	1.15	82.8	27.9	10.8	2	79.6	8.3	21-1,31-1
Stoneville ST 5288B2F	4.3	1.19	82.8	28.2	10.0	3	81.1	7.3	31-1
All-Tex 7A24	4.1	1.17	82.7	28.5	10.5	2	79.8	8.1	21-2,31-1
Monsanto 07X440DF	3.9	1.12	81.2	24.4	11.2	3	79.7	8.0	21-2,31-1
All-Tex 8103	3.9	1.15	82.9	30.1	10.4	4	78.4	7.8	31-1,31-2
All-Tex 7B35	3.7	1.15	81.0	27.3	9.8	2	79.4	7.8	21-1,41-1
Americot AM 1532 B2RF	3.9	1.17	81.5	26.3	9.9	2	79.9	8.3	21-1,31-1
All-Tex 7A18	3.6	1.16	81.2	27.4	9.7	1	78.4	8.4	31-1
Bayer BCSX0888LLB2	4.4	1.14	83.0	28.6	9.9	3	79.8	7.8	31-1
Deltapine DP 143 B2F	3.4	1.19	79.5	26.9	9.6	4	79.0	7.3	31-1,41-1
TA07A5	3.7	1.17	81.4	29.3	9.9	5	76.3	7.8	31-1,41-2
Bayer BCSX0187LLB2	4.0	1.15	81.5	28.0	9.2	2	81.3	7.6	21-2
All-Tex AW102	4.0	1.15	82.2	27.2	10.0	2	79.4	8.2	21-2,31-1
Bayer BCSX0721B2F	3.7	1.14	80.1	25.9	11.0	2	81.6	7.4	21-2,31-1
H&W GENETEX H&W 573 RF	3.8	1.23	83.6	29.4	10.1	3	79.1	7.4	31-1,31-2
H&W GENETEX H&W 571 RF	4.1	1.18	82.4	30.0	9.4	3	78.5	7.7	31-2
H&W GENETEX H&W 565 RF	4.4	1.15	83.4	28.9	10.3	3	77.5	7.4	41-1
H&W GENETEX H&W 577 RF	4.0	1.21	81.5	28.9	9.1	3	78.9	7.6	31-1,31-2
TAM B 147-21	3.7	1.35	82.7	32.7	9.7	4	79.1	7.9	31-1
Seed Tec Genetics CT-596-9	4.0	1.07	82.3	28.0	10.4	3	79.1	8.0	31-1
Mean	3.9	1.17	81.9	28.0	10.0	2	79.5	7.8	
c.v.%	5.8	2.0	1.1	3.1	3.9	30.6	1.8	3.3	
LSD 0.05	0.4	0.04	1.6	1.5	0.7	1	2.4	0.4	

NOTES

Table 27. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2008.

Test:	Regional Breeders Strains
Planting Date:	May 17
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant Dual Magnum @ 1 ¼/A applied June 12
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.3 acre inches April 25 2.3 acre inches June 18 1.7 acre inches July 14 2.5 acre inches August 1 2.5 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms
Harvest Aids:	None
Harvest Date:	November 24
Freeze Date:	October 23

Table 28. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Source	Yield	Agronomic Properties								% Open Bolls 10/23/08	Storm Resistance	Height
			% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll			
			Lint	Seed	Picked	Pulled							
FiberMax FM 958	CHECK	1986	30.5	44.3	41.4	32.4	5.8	11.9	8.6	28.1	75	6	32
AU-6103	Weaver	1800	28.5	44.8	39.8	31.3	5.9	11.1	7.5	31.3	66	4	33
04-51-1501-P	Gannaway	1794	26.2	48.0	36.6	28.4	5.9	11.9	7.0	30.6	70	6	34
AU-1107	Weaver	1740	27.1	43.6	39.5	30.4	5.5	10.8	7.2	30.1	75	6	32
NM 03012	Zhang	1740	26.8	45.1	38.4	29.5	5.8	11.4	7.3	30.6	60	4	39
04-PST-275	Thaxton	1732	28.3	44.0	42.1	34.2	6.3	10.6	7.7	34.5	73	5	31
GA2004303	Chee	1727	29.0	42.4	41.5	31.9	5.7	10.2	7.5	31.5	70	5	33
Suregrow SG 105	CHECK	1718	27.4	44.1	39.7	30.8	5.5	11.6	7.8	28.1	73	5	33
Ark0015-06-11	Bourland	1717	29.2	44.2	41.5	31.2	5.8	11.2	8.1	29.9	68	5	35
AU-5367	Weaver	1697	27.2	43.9	39.4	30.0	5.4	10.4	7.2	29.5	63	5	38
PD03025	Campbell	1693	29.0	43.1	41.6	30.9	5.4	10.0	7.4	30.4	60	5	38
Deltapine DP 393	CHECK	1675	27.7	42.7	40.4	31.4	5.5	10.9	7.6	29.2	63	4	35
Ark0008-22-10	Bourland	1657	28.5	45.2	38.8	29.7	5.0	10.6	6.8	28.5	73	5	35
Ark0002-03-02	Bourland	1640	28.3	45.6	39.7	30.3	5.7	11.0	7.5	30.5	69	5	34
PD04012	Campbell	1633	26.2	43.8	39.5	30.3	5.8	11.5	7.6	30.5	70	5	35
Ark0012-03-08	Bourland	1631	29.3	42.2	41.7	32.2	6.7	11.1	8.0	34.8	71	5	33
Ark0001-01-03	Bourland	1614	27.9	46.6	39.2	30.8	5.1	11.4	7.5	26.5	70	4	35
0020-31 ne	Wallace	1614	28.5	46.5	38.4	29.3	5.6	11.3	7.2	30.1	73	3	35
04-22-810-D	Gannaway	1604	26.4	49.4	35.7	28.1	5.6	12.5	7.0	28.5	71	5	34
0147-22 ne	Wallace	1603	27.4	45.8	39.5	31.0	5.2	10.6	7.0	29.1	74	5	35
AU-5491	Weaver	1578	27.4	43.8	40.5	30.8	5.7	11.0	7.6	30.2	64	5	36
04PST-250	Thaxton	1552	26.1	43.0	39.2	33.7	5.8	11.8	8.0	28.3	71	4	35
LA05307029	Myers	1528	28.4	44.0	38.4	28.0	5.2	9.9	6.4	31.3	66	5	34
8921-2-2-14-13-11	Wallace	1525	25.9	42.8	38.7	29.1	5.7	10.8	7.1	31.0	68	5	33
Acala 1517-99	Zhang	1517	26.2	45.5	38.0	28.6	5.8	12.2	7.7	28.7	59	4	39
0028-16 ne	Wallace	1488	26.5	44.8	38.7	29.8	5.6	11.5	7.4	29.2	70	4	33
0149-17 ne	Wallace	1484	24.8	46.4	39.4	29.9	5.3	11.2	7.3	28.8	71	5	34
GA2004230	Chee	1483	28.0	45.1	40.2	31.7	5.2	9.4	6.5	32.0	64	6	38
LA05307094	Myers	1479	27.7	45.5	37.6	28.1	4.6	10.4	6.5	26.3	71	5	35
PD03011	Campbell	1476	26.5	42.1	40.3	31.2	5.5	10.1	7.1	31.3	61	5	37

Table 28. Results of the irrigated regional breeders strains test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Source	Yield	Agronomic Properties								% Open Bolls 10/23/08	Storm Resistance	Height
			% Turnout		% Lint		Boll	Seed	Lint	Seed Per			
			Lint	Seed	Picked	Pulled	Size	Index	Index	Boll			
04PST-246	Thaxton	1469	23.9	43.5	37.2	26.4	5.3	12.1	7.4	26.5	68	5	35
LA05307061	Myers	1442	28.2	44.7	39.1	29.6	4.9	10.5	7.0	27.0	74	5	33
PD99041	Campbell	1407	25.2	47.2	35.3	27.5	5.3	12.0	6.8	27.5	69	5	36
LA05307083	Myers	1300	26.2	45.7	36.2	27.9	5.2	12.2	7.0	26.4	69	4	33
TAM B182-34	Smith	1187	23.2	46.7	35.0	25.7	6.5	13.5	7.5	30.2	70	5	29
GA2004089	Chee	1099	26.7	38.0	43.8	32.6	4.6	9.1	7.4	27.1	60	5	36
Mean		1584	27.2	44.6	39.2	30.1	5.5	11.0	7.3	29.5	68	5	35
c.v.%		10.1	6.8	4.6	2.5	6.0	6.9	4.0	4.4	7.5	7.1	11.9	6.4
LSD 0.05		187	2.2	2.4	1.7	3.0	0.5	0.7	0.5	3.8	6	1	3

Table 28A. Results of the irrigated regional breeders strains test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation		Micro- naire	Length	Uni- formity	Strength	Elon- gation	Rd	+b	Color Grade ^{1/}	AREA	SFC
FiberMax FM 958	CHECK	4.3	1.18	82.7	30.7	5.1	81.6	7.5	11-2,31-1	0.4	8.6
AU-6103	Weaver	4.1	1.12	82.5	28.2	6.6	80.1	8.5	21-1,21-2	0.4	9.0
04-51-1501-P	Gannaway	3.9	1.18	81.9	31.0	6.0	80.9	7.9	21-1,31-1	0.5	8.5
AU-1107	Weaver	3.7	1.17	82.0	28.8	6.0	82.7	7.7	21-1,21-2	0.5	9.0
NM 03012	Zhang	3.9	1.24	82.5	31.9	6.4	80.3	8.2	21-1,31-1	0.8	8.3
04-PST-275	Thaxton	3.8	1.16	82.1	27.2	6.9	81.4	8.6	21-1	0.4	9.2
GA2004303	Chee	4.0	1.15	82.2	29.2	5.8	78.1	8.1	21-1,41-1	1.5	9.0
Suregrow SG 105	CHECK	4.2	1.16	83.7	28.5	6.6	80.0	7.8	21-1,41-1	0.3	8.2
Ark0015-06-11	Bourland	3.7	1.17	82.0	26.8	7.7	81.3	8.8	21-1	0.6	8.8
AU-5367	Weaver	4.0	1.20	82.6	30.9	5.3	78.9	7.8	21-1,41-1	0.4	8.7
PD03025	Campbell	4.1	1.16	82.4	29.3	5.2	80.3	8.2	21-1,31-1	0.6	8.4
Deltapine DP 393	CHECK	3.9	1.15	81.8	29.3	7.1	80.2	8.5	21-1,31-1	0.5	9.0
Ark0008-22-10	Bourland	3.6	1.15	81.9	28.5	6.4	80.4	7.9	21-2,31-1	0.8	9.7
Ark0002-03-02	Bourland	3.7	1.18	81.8	28.6	6.4	83.0	7.7	21-1	0.4	9.2
PD04012	Campbell	4.1	1.18	82.7	30.1	6.0	81.0	8.3	21-1,21-2	0.4	8.3
Ark0012-03-08	Bourland	4.3	1.15	84.2	28.6	6.8	81.4	7.9	21-1,21-2	0.5	8.1
Ark0001-01-03	Bourland	3.7	1.16	81.5	27.9	6.8	82.6	7.2	21-2	0.4	9.3
0020-31 ne	Wallace	3.8	1.18	82.3	29.8	5.6	81.5	8.0	21-1,21-2	0.4	8.9
04-22-810-D	Gannaway	3.8	1.19	82.7	31.1	6.4	80.2	8.5	21-1,21-2	0.7	8.4
0147-22 ne	Wallace	3.9	1.16	82.1	29.0	6.1	81.6	7.6	21-1,31-1	0.6	9.0
AU-5491	Weaver	4.0	1.18	82.7	29.9	5.9	80.6	8.2	21-1,21-2	0.4	8.7
04PST-250	Thaxton	4.4	1.14	84.8	28.9	7.2	81.5	8.5	11-2,21-1	0.5	7.8
LA05307029	Myers	4.3	1.20	83.9	30.3	6.8	79.9	8.6	21-1	0.4	7.7
8921-2-2-14-13-11	Wallace	3.8	1.14	83.0	28.2	7.3	81.0	8.3	21-1	0.3	8.7
Acala 1517-99	Zhang	3.8	1.24	84.0	32.1	6.2	79.3	8.2	21-2,31-1	0.9	7.5
0028-16 ne	Wallace	3.7	1.13	81.0	26.8	6.1	80.7	7.8	21-1,31-1	0.4	10.1
0149-17 ne	Wallace	3.8	1.15	82.1	28.3	5.7	81.1	8.4	11-2,21-2	0.7	9.1
GA2004230	Chee	3.7	1.26	81.2	29.0	5.5	82.0	7.7	21-1,21-2	0.5	8.4
LA05307094	Myers	4.1	1.19	83.8	29.1	7.1	78.7	8.4	21-2,31-1	0.7	8.1
PD03011	Campbell	4.0	1.16	82.7	28.8	5.8	80.9	8.5	21-1	0.4	8.6

Table 28A. Results of the irrigated regional breeders strains test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation		Micro- naire	Length	Uni- formity	Strength	Elon- gation	Rd	+b	Color Grade ^{1/}	AREA	SFC
04PST-246	Thaxton	3.9	1.21	84.4	29.4	6.7	80.2	8.3	21-2	0.7	7.9
LA05307061	Myers	4.1	1.15	84.1	29.9	7.0	78.3	8.2	31-1	0.7	8.0
PD99041	Campbell	3.6	1.21	83.2	30.3	6.2	80.8	7.9	21-2	0.4	8.2
LA05307083	Myers	4.0	1.16	84.0	28.9	7.6	76.9	8.1	31-2	0.8	8.6
TAM B182-34	Smith	3.4	1.35	81.8	31.0	4.9	80.5	8.1	21-1,21-2	0.7	8.1
GA2004089	Chee	3.3	1.18	81.4	29.0	5.7	82.5	8.2	11-1,21-2	0.4	9.4
Mean		3.9	1.18	82.6	29.3	6.3	80.6	8.1		0.5	8.6
c.v.%		7.3	1.3	0.7	1.8	3.8	1.9	4.1		61.3	3.8
LSD 0.05		0.5	0.03	0.9	0.9	0.4	2.6	0.6		0.6	0.5

NOTES

Table 29. Production information for furrow irrigated performance test at Texas AgriLife Research, Lubbock, TX 2008.

Test:	Regional High Quality
Planting Date:	May 17
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Trilin @ 1 ¼ pt/A applied pre-plant Dual Magnum @ 1 ¼/A applied June 12
Fertilizer:	100-20-0 lbs/A applied pre-plant
Irrigations:	5.3 acre inches April 25 2.3 acre inches June 18 1.7 acre inches July 14 2.5 acre inches August 1 2.5 acre inches August 14
Insecticide:	Temik @ 2.4 lbs/A at planting Ammo 2.5 EC @ 5.2 oz/A applied July 18 for bollworms
Harvest Aids:	None
Harvest Date:	November 22
Freeze Date:	October 23

Table 30. Results of the irrigated regional high quality test at Texas AgriLife Research, Lubbock, TX 2008.

Designation	Source	Yield	Agronomic Properties								% Open Bolls 10/23/08	Storm Resistance	Height
			% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll			
			Lint	Seed	Picked	Pulled							
FiberMax FM 1740B2F	Steve Nichols	2178	31.4	44.3	41.0	33.1	5.7	10.9	7.9	29.5	79	5	32
PhytoGen PHY 4815WRF	Joel Mahill	1954	28.6	43.5	36.6	28.3	5.8	11.6	7.3	28.8	74	5	36
Deltapine DP 164B2RF	Cindy Green	1908	28.4	47.1	37.3	31.8	5.6	10.2	6.3	33.1	66	5	37
Deltapine DP 174RF	Cindy Green	1870	28.6	41.2	41.1	32.3	5.9	10.4	7.7	31.2	66	5	37
Deltapine DP 141B2RF	Cindy Green	1848	27.0	44.8	37.3	29.9	5.6	9.8	6.2	34.1	68	5	36
PhytoGen PHY 755WRF	Joel Mahill	1837	28.0	48.0	35.7	27.7	5.3	11.1	6.5	29.3	71	4	34
Deltapine DP 555BG/RR	Cindy Green	1822	30.0	42.0	39.7	33.1	5.1	9.2	6.4	31.5	69	4	37
Deltapine DP 161B2RF	Cindy Green	1779	27.7	45.5	37.1	28.2	5.2	9.7	6.0	32.3	68	5	37
Phytogen PHY 72	Joel Mahill	1767	28.9	45.0	37.8	29.6	5.2	11.1	7.0	27.8	64	4	36
Ark 0009-13-01	Fred Bourland	1689	27.1	44.0	40.3	32.6	5.3	11.7	7.9	27.2	66	5	35
07T#A-5	John Gannaway	1655	26.8	46.0	37.3	29.0	6.1	11.7	7.2	31.4	69	6	35
MD25	Bill Meredith	1600	27.4	41.5	38.9	30.7	6.1	11.5	7.7	30.7	58	4	37
Ark 0015-06-09	Fred Bourland	1572	25.5	42.0	40.8	30.8	6.3	11.1	7.9	32.3	65	5	36
DP 143B2RF	Cindy Green	1535	26.2	44.6	36.8	30.0	5.5	10.4	6.3	31.5	73	5	33
MD5-4	Bill Meredith	1526	26.6	42.2	38.4	28.7	4.1	9.4	6.0	26.0	54	5	38
07T#B-3	John Gannaway	1521	25.2	47.1	34.7	27.3	6.3	12.9	7.2	30.8	71	6	35
07T#B-4	John Gannaway	1441	23.8	46.2	35.8	28.9	6.0	12.0	6.9	31.4	60	6	35
Raider 276	Dick Auld	1420	23.6	46.4	36.7	29.0	6.5	11.9	7.0	34.3	65	6	36
Ark 0016-05-10	Fred Bourland	1416	28.6	41.8	39.7	32.0	5.6	11.5	8.0	27.9	74	3	33
TAM 182-34 ELS	C. Wayne Smith	1094	22.7	43.8	34.2	26.6	6.5	13.1	7.2	31.0	75	5	28
Mean		1672	27.1	44.4	37.8	29.9	5.7	11.3	7.0	30.6	68	5	35
c.v.%		9.0	6.5	4.2	2.7	3.2	6.0	3.7	5.3	7.4	11.9	11.3	6.8
LSD 0.05		177	2.1	2.2	1.8	1.7	0.6	0.7	0.7	3.9	10	1	3

Table 30A. Results of the irrigated regional high quality test at Texas AgriLife Reserch, Lubbock, TX, 2008.

Designation		Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 1740B2F	Steve Nichols	3.6	1.18	81.5	29.6	10.7	3	79.3	7.6	31-1,31-2
PhytoGen PHY 4815WRF	Joel Mahill	3.5	1.13	81.0	28.2	11.7	2	78.7	8.4	21-2,31-1
Deltapine DP 164B2RF	Cindy Green	4.0	1.17	80.9	26.5	12.1	2	77.9	8.4	31-1
Deltapine DP 174RF	Cindy Green	3.6	1.21	79.4	29.9	10.2	2	77.7	8.1	31-1,31-2
Deltapine DP 141B2RF	Cindy Green	3.8	1.11	77.3	27.4	11.1	1	79.6	7.7	21-1,41-1
PhytoGen PHY 755WRF	Joel Mahill	4.0	1.20	81.5	31.7	10.6	2	77.7	8.0	31-1,31-2
Deltapine DP 555BG/RR	Cindy Green	3.7	1.13	79.7	25.6	11.6	1	79.3	8.6	21-2
Deltapine DP 161B2RF	Cindy Green	3.3	1.13	79.2	27.2	9.9	2	80.5	7.7	21-1,31-1
Phytogen 72	Joel Mahill	3.9	1.19	80.3	30.8	10.8	1	77.3	8.1	31-1,41-1
Ark 0009-13-01	Fred Bourland	3.9	1.14	79.6	28.2	10.2	2	79.5	7.4	21-2,41-1
07T#A-5	John Gannaway	4.4	1.17	81.8	30.0	10.9	1	78.2	8.5	21-2,31-1
MD25	Bill Meredith	4.1	1.19	81.7	30.1	10.9	2	77.0	8.0	31-1,41-1
Ark 0015-06-09	Fred Bourland	3.6	1.19	82.1	30.1	10.5	2	76.6	7.6	31-2,41-1
Deltapine DP 143B2RF	Cindy Green	3.2	1.12	78.8	28.1	10.8	1	79.7	8.6	11-2,31-1
MD5-4	Bill Meredith	3.9	1.24	81.3	29.5	10.7	2	78.4	8.5	31-1,31-3
07T#B-3	John Gannaway	3.6	1.17	80.2	29.1	10.0	3	78.0	7.7	31-1,41-1
07T#B-4	John Gannaway	3.6	1.19	80.7	29.3	10.3	3	78.1	7.2	31-1,41-1
Raider 276	Dick Auld	4.0	1.14	80.0	27.4	10.9	1	80.8	7.9	21-1,31-1
Ark 0016-05-10	Fred Bourland	3.9	1.18	80.8	28.8	11.7	1	78.5	8.7	21-2,31-1
TAM 182-34 ELS	C. Wayne Smith	3.4	1.14	79.0	28.3	9.9	1	78.5	7.7	21-2,41-1
Mean		3.7	1.17	80.3	28.9	10.7	2	78.5	8.0	
c.v.%		6.3	4.3	1.4	6.6	6.8	44.4	3.0	5.9	
LSD 0.05		0.4	0.09	2.0	3.3	1.3	1	4.1	0.8	

NOTES

Table 31. Production information for furrow irrigated performance test at Texas AgriLife Research, Halfway, TX 2008.

Test:	Verticillium Wilt Variety
Planting Date:	May 19
Row Spacing:	40 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Dual Magnum @ 1.3pt/A + Caparol 4L @ 2.4 pts/A applied May 21
Fertilizer:	120-0-0 lbs/A applied pre-plant
Irrigations:	3.4 acre inches April 21 2.3 acre inches June 5 2.5 acre inches July 17 3.0 acre inches August 6
Insecticide:	Temik @ 2.4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 22
Harvest Aids:	None
Harvest Date:	November 3
Freeze Date:	October 23

Table 32. Results of the irrigated verticillium wilt test at Texas AgriLife Research, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open				Actual Counts
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height	V-P	
		Lint	Seed	Picked	Pulled									
FiberMax FM 989	1252	25.6	43.2	36.9	28.7	5.8	11.6	6.8	31.0	38	5	21	-5	24
NexGen NG 3348 B2RF	1150	25.9	46.0	38.2	27.6	5.2	11.6	7.3	27.5	38	6	23	-3	20
FiberMax FM 1880B2F	1124	26.4	45.4	35.2	26.9	5.6	11.0	6.2	31.8	39	4	23	1	12
Deltapine DP 121 RF	1123	26.2	41.8	38.3	28.2	4.8	10.6	6.5	28.5	39	4	23	-14	30
FiberMax FM 9180B2F	1120	25.6	46.1	35.2	23.7	5.7	11.9	7.0	30.0	50	7	22	-17	34
06-42-329-V	1090	27.2	44.1	38.3	28.1	5.1	10.9	7.0	28.1	49	6	20	-14	30
Deltapine DP 104 B2RF	1080	24.4	48.6	32.5	24.3	5.6	11.8	6.1	30.3	45	7	23	-6	23
FiberMax FM 1740B2F	1052	27.1	42.9	39.0	28.6	5.0	10.9	7.1	27.3	39	6	21	-18	31
Deltapine DP 0912 B2RF	1044	25.6	43.4	37.3	28.0	5.2	10.7	6.7	28.6	45	5	23	-28	45
FiberMax FM 9160B2F	1042	27.5	45.8	35.9	27.9	5.3	10.6	6.3	30.1	46	6	20	-2	15
FiberMax FM 9058F	1006	25.2	44.6	35.6	25.3	5.1	11.0	6.5	27.9	48	6	21	-23	39
All-Tex AT 7A24	1003	27.0	41.0	38.1	26.1	5.3	10.3	6.7	30.3	34	6	23	-26	43
Paymaster PM 2141 B2RF	962	25.2	43.3	38.6	28.0	5.1	11.4	7.3	26.8	39	8	21	-17	33
FiberMax FM 9063B2F	959	25.5	44.6	35.7	26.0	5.6	12.9	7.4	27.2	36	6	20	-11	23
Monstanto 07X440DF	958	27.5	42.0	39.9	28.6	4.4	9.2	6.4	26.3	55	7	22	-33	48
04-47-2231-V	953	24.4	47.1	34.0	25.8	5.6	11.8	6.2	30.7	31	7	22	1	10
Deltapine DP 0924 B2RF	950	25.6	44.6	37.0	27.3	5.1	10.2	5.9	29.7	38	5	23	-20	34
Americot AM 1532 B2RF	945	23.9	45.1	35.3	25.4	4.6	10.2	5.7	28.6	39	6	23	-23	38
Croplan Genetics CG 3020B2RF	943	23.5	45.5	34.7	25.1	4.9	10.8	5.9	28.5	40	5	23	-18	34
H&W GENETEX H&W 578RF	935	22.1	43.6	32.9	24.8	6.7	13.8	7.0	31.5	30	4	22	-5	19
NexGen NG 4377 B2RF	929	24.9	46.0	36.2	27.4	5.0	10.3	6.0	29.8	38	5	23	-21	35
NexGen NG 4370 B2RF	928	25.0	45.7	35.3	27.6	4.8	10.1	5.7	29.8	45	5	24	-20	36
Croplan Genetics CG 4020B2RF	927	23.6	44.3	35.0	26.1	4.8	11.1	6.2	27.3	41	5	22	-27	39
04-47-1427-V	920	22.2	49.1	33.6	26.1	5.2	11.3	5.9	29.2	31	7	22	-8	24
Deltapine DP 0935 B2RF	914	24.8	41.1	36.8	27.4	5.7	11.2	6.9	29.9	31	5	23	-20	36
Stoneville ST 4288B2F	896	24.1	44.9	37.3	28.2	5.7	12.1	7.1	28.5	30	5	21	-19	30
NexGen NG 3410 RF	885	24.2	46.3	36.4	26.2	5.5	11.6	7.0	28.3	30	7	21	-2	14
Seed Tec Genetics CT 210	885	24.8	46.9	34.5	26.3	4.6	9.8	5.1	31.2	34	5	21	-21	33
NexGen NG 3331 B2RF	882	25.0	44.0	35.7	27.1	4.8	9.6	5.7	30.1	50	5	24	-35	51
Croplan Genetics CG 3220B2RF	871	23.7	44.1	37.6	27.8	5.0	10.6	6.5	29.1	51	5	23	-23	40

Table 32. Results of the irrigated verticillium wilt test at Texas AgriLife Research, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open			Actual Counts	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height		V-P
		Lint	Seed	Picked	Pulled									
Paymaster PM 2326 RR	862	23.8	46.8	36.1	27.3	5.0	11.3	6.5	27.8	35	7	22	1	10
H&W GENETEX H&W 571RF	854	23.2	43.4	36.0	27.6	5.6	12.2	7.2	28.2	35	5	21	-11	24
Croplan Genetics CG 3520B2RF	849	23.6	44.1	35.5	25.6	4.5	10.1	5.8	27.8	49	4	21	-18	31
Croplan Genetics CG 3035RF	798	24.3	41.6	37.4	28.5	5.5	11.0	6.8	30.1	51	6	23	-30	46
Paymaster PM HS-26	787	23.2	45.4	33.5	26.1	6.8	12.0	6.3	36.4	40	7	23	-6	22
H&W GENETEX H&W 573RF	783	19.9	45.5	31.3	22.9	6.0	12.6	6.2	30.5	28	5	23	-10	24
H&W GENETEX H&W 565RF	771	22.5	48.2	33.9	25.8	6.4	12.9	6.9	31.6	40	7	23	-26	42
H&W GENETEX H&W 577RF	769	21.0	46.9	31.5	23.3	5.7	11.2	5.3	34.1	25	5	22	-20	33
06-42-261-V	738	21.4	45.8	36.8	26.4	5.3	13.3	7.9	24.8	34	7	22	-11	26
Lankart LK 57	719	23.4	46.9	35.5	25.9	5.6	11.6	6.4	30.8	38	7	19	-28	41
Mean	941	24.5	44.9	35.8	26.6	5.3	11.2	6.5	29.4	39	6	22	-16	30
c.v.%	11.8	3.6	3.2	3.6	5.3	7.7	6.5	7.1	8.0	15.9	12.8	6.7	20.6	35.9
LSD 0.05	130	1.0	1.7	2.3	2.4	0.7	1.2	0.8	4.0	7	1	2	11	13

Counts=average actual counts

V-P=Actual minus projected

Table 32A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Reserch, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 989	3.4	1.21	81.7	32.2	9.1	2	78.8	8.2	21-2,31-1
NexGen NG 3348 B2RF	3.8	1.17	81.7	30.0	10.2	4	76.2	8.9	31-2,31-3
FiberMax FM 1880B2F	3.3	1.18	81.6	29.8	10.2	3	78.2	8.4	31-1
Deltapine DP 121 RF	3.7	1.17	83.2	29.5	10.6	3	77.4	8.8	31-1
FiberMax FM 9180B2F	3.5	1.21	82.9	30.7	9.9	6	77.1	7.7	31-1,41-1
06-42-329-V	3.5	1.18	83.2	32.0	9.0	3	77.2	8.0	31-2
Deltapine DP 104 B2RF	3.4	1.18	83.2	30.6	11.3	4	76.1	8.4	31-1,41-1
FiberMax FM 1740B2F	3.8	1.16	82.6	29.4	10.1	3	78.7	8.4	31-1
Deltapine DP 0912 B2RF	3.2	1.14	81.3	29.6	10.8	3	77.0	8.5	31-1,31-2
FiberMax FM 9160B2F	2.9	1.22	82.8	31.5	9.1	3	79.2	7.9	31-1
FiberMax FM 9058F	3.2	1.21	80.1	29.9	8.9	3	78.6	8.2	31-1
All-Tex AT 7A24	3.4	1.19	82.3	29.1	10.3	3	78.8	8.8	21-2,31-1
Paymaster PM 2141 B2RF	3.7	1.14	82.0	27.7	10.1	5	74.3	7.5	41-1,41-2
FiberMax FM 9063B2F	3.5	1.21	81.3	32.7	9.6	3	77.9	8.1	31-1
Monstanto 07X440DF	3.2	1.10	81.0	25.7	11.2	4	76.5	8.9	31-1,31-3
04-47-2231-V	4.0	1.15	81.7	29.8	10.4	4	76.6	8.5	31-1,31-2
Deltapine DP 0924 B2RF	3.3	1.20	80.9	31.0	9.3	2	79.1	8.0	31-1
Americot AM 1532 B2RF	3.1	1.19	81.3	27.7	9.6	2	78.0	8.7	31-1
Croplan Genetics CG 3020B2RF	3.2	1.14	81.9	27.1	10.5	2	79.1	8.9	21-1,21-2
H&W GENETEX H&W 578RF	3.6	1.18	82.9	31.7	9.7	4	77.3	8.0	31-1,41-1
NexGen NG 4377 B2RF	3.3	1.17	82.3	28.9	10.2	5	76.1	8.6	31-1,31-4
NexGen NG 4370 B2RF	3.3	1.18	82.5	29.1	10.0	4	75.6	8.7	31-3,41-1
Croplan Genetics CG 4020B2RF	3.0	1.15	79.8	26.3	10.0	3	77.2	8.9	21-2,31-2
04-47-1427-V	3.2	1.28	83.0	35.2	9.5	4	73.8	10.1	23-4,31-2
Deltapine DP 0935 B2RF	3.0	1.12	78.3	28.4	9.9	3	77.5	9.4	21-3,31-3
Stoneville ST 4288B2F	3.1	1.17	80.3	29.7	10.1	3	75.0	9.0	31-3,41-3
NexGen NG 3410 RF	3.5	1.20	81.1	30.4	9.5	4	76.3	8.6	31-2
Seed Tec Genetics CT 210	3.2	1.18	81.7	31.1	10.2	3	79.7	8.3	21-2
NexGen NG 3331 B2RF	3.1	1.13	81.4	28.2	10.0	4	75.8	8.8	31-2,31-4
Croplan Genetics CG 3220B2RF	2.7	1.15	80.2	28.5	10.3	3	77.6	8.7	31-1

Table 32A. Results of the irrigated verticillium wilt variety test at Texas AgriLife Reserch, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Paymaster PM 2326 RR	3.9	1.12	82.5	30.4	10.4	3	75.0	8.6	31-4,41-1
H&W GENETEX H&W 571RF	3.4	1.19	81.7	31.2	9.4	4	74.9	8.2	41-1,41-3
Croplan Genetics CG 3520B2RF	3.6	1.17	82.0	27.4	10.9	4	75.5	8.7	31-1,41-3
Croplan Genetics CG 3035RF	3.0	1.15	80.8	28.6	10.5	2	76.5	9.6	22-2,31-3
Paymaster PM HS-26	4.1	1.11	82.9	29.4	10.8	3	75.9	8.7	31-1,31-4
H&W GENETEX H&W 573RF	3.7	1.22	82.5	30.8	9.2	3	77.3	8.1	31-2
H&W GENETEX H&W 565RF	3.6	1.17	82.6	31.0	10.2	5	75.5	8.0	31-2,41-1
H&W GENETEX H&W 577RF	3.7	1.21	81.4	30.9	9.1	3	75.3	8.4	31-1,41-3
06-42-261-V	4.3	1.17	79.3	31.1	10.0	5	74.0	8.6	41-1,41-3
Lankart LK 57	3.2	1.10	79.6	27.5	9.9	3	77.8	8.3	31-1,31-2
Mean	3.4	1.17	81.6	29.9	10.0	3	76.7	8.6	
c.v.%	5.8	2.5	1.2	5.1	2.9	25.2	2.2	8.0	
LSD 0.05	0.3	0.05	1.6	2.6	0.5	1	2.9	1.1	

NOTES

Table 33. Production information for pivot irrigated performance tests at AG-CARES, Lamesa, TX 2008.

Test:	Nematode Variety		
Planting Date:	May 9		
Row Spacing:	40in		
Planting Pattern:	Solid		
Herbicide:	Prowl @ 3 pt/A applied pre-plant Dual @ 1 ¼ pt/A applied June 17		
Fertilizer:	10-34-0 @ 120 lbs/A applied pre-plant		
Irrigations:	.75 acre-in on April 13	.4 acre-in on July 3	.4 acre-in on Aug 2
	.75 acre-in on April 28	.4 acre-in on July 5	.4 acre-in on Aug 5
	.3 acre-in on May 10	.4 acre-in on July 8	.4 acre-in on Aug 9
	.3 acre-in on May 14	.4 acre-in on July 11	.4 acre-in on Aug 21
	.3 acre-in on May 16	.4 acre-in on July 15	.4 acre-in on Aug 24
	.3 acre-in on May 19	.4 acre-in on July 18	<u>.4 acre-in on Aug 27</u>
	.3 acre-in on May 21	.4 acre-in on July 21	9.6 acre inches
	.5 acre-in on May 24	.4 acre-in on July 23	
	.4 acre-in on June 27	.4 acre-in on July 26	
	.4 acre in on June 30	.4 acre-in on July 28	
		.4 acre-in on July 31	
Insecticide:	Temik @ 3.5 lbs/A at planting		
Harvest Aids:	Prep @ 22 oz/A + Ginstar @ 6 oz/A applied October 2 paraquat @ 32 oz/A applied October 16		
Harvest Date:	October 27		
Freeze Date:	October 29		

Table 34. Results of the irrigated nematode variety test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open			Nematode Counts
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 9/24/08	Storm Resistance	Height	
		Lint	Seed	Picked	Pulled								
Stoneville ST 5458B2RF	1450	28.6	44.9	39.1	29.2	5.2	10.4	7.0	29.3	41	6	30	1820a
Deltapine DP 0935 B2RF	1446	29.4	42.0	39.4	28.4	5.3	11.0	7.5	28.0	26	6	32	850a
FiberMax FM 1740B2F	1437	30.2	42.4	39.7	29.7	5.3	10.8	7.5	28.0	43	6	31	1870a
Deltapine DP 174 RF	1417	29.5	42.5	41.1	31.2	6.1	9.6	7.2	34.8	50	5	27	625a
Stoneville ST 5288B2F	1408	29.3	44.3	38.2	29.0	4.6	8.9	5.8	30.0	70	5	32	1440a
FiberMax FM 9160B2F	1379	29.9	44.7	37.3	28.9	5.4	9.9	6.2	32.6	54	6	30	1450a
Deltapine DP 0924 B2RF	1367	29.4	44.9	38.7	29.0	5.0	10.0	6.6	29.0	68	5	30	2070a
Americot AM 1532 B3RF	1277	27.6	43.9	37.7	29.6	5.3	10.1	6.5	30.9	46	6	32	915a
NexGen NG 4377 B2RF	1276	28.9	45.1	37.4	29.2	5.1	10.0	6.3	30.3	50	6	32	1460ab
Stoneville ST 4288B2F	1263	27.7	45.5	38.0	28.6	5.3	10.0	6.5	31.1	48	6	31	120c
NexGen NG 3331 B2RF	1209	29.6	45.8	38.3	29.5	5.4	10.9	7.2	28.7	65	5	30	1265a
Stoneville ST 4498B2RF	1196	27.8	44.2	36.9	28.1	5.4	11.0	6.8	29.3	56	5	32	605a
Monsanto 07X440 DF	1192	30.8	42.0	41.3	31.0	4.6	8.7	6.5	28.9	66	6	30	1380a
Deltapine DP 0912 B2RF	1187	26.9	43.9	37.4	28.7	5.0	10.3	6.7	28.0	55	5	29	1440a
Stoneville LA 887	1183	25.4	42.3	37.1	27.2	5.6	10.7	7.6	28.3	48	6	30	1560a
Bayer BCSX 0721B2F	1176	28.8	42.0	39.3	30.1	4.8	9.2	6.4	29.2	58	6	33	1410a
Deltapine DP 164 B2RF	1133	27.0	46.6	38.4	29.0	4.6	9.9	6.2	28.3	43	6	32	1860a
NexGen NG 4370 B2RF	1104	26.5	42.5	38.2	30.6	5.2	10.2	6.6	29.6	51	5	32	1125a
FiberMax FM 1880B2F	1094	29.5	47.0	37.3	29.2	5.3	10.3	6.5	30.2	60	6	33	3030a
07-18-302-N	1069	22.2	47.0	32.5	23.5	5.6	11.0	5.6	32.3	25	6	30	870a
Deltapine DP 491	1069	29.5	43.4	37.5	29.2	5.1	9.3	6.0	31.9	44	6	30	1175a
NexGen NG 3348 B2RF	1049	27.9	45.0	37.3	28.6	5.3	10.3	6.4	31.3	53	5	31	1985a
NexGen NG 3410 RF	996	28.0	46.5	36.7	27.9	5.4	11.2	6.8	29.1	30	7	31	2880a
07-17-105-N	987	22.2	50.3	29.6	20.4	5.9	12.1	5.4	32.5	39	6	28	165bc
Mean	1224	28.0	44.5	37.7	28.6	5.2	10.2	6.5	30.0	49	6	31	
c.v.%	25.0	5.7	3.8	3.8	3.4	8.4	7.6	7.0	10.1	31.0	15.0	7.8	
LSD 0.05	363	1.9	2.0	2.4	1.7	0.7	1.3	0.8	5.2	18	1	3	

Nematode counts: Means were significantly different at P= 0.05, based on the Waller-Duncan k ratio t-test, when letters are different.

The Log₁₀ transformation was used on plot counts for the analysis. There were no treatment differences for non transformed data.

Table 34A. Results of the irrigated nematode variety test at the AG-CARES farm, Lamesa, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 5458B2RF	4.7	1.14	81.0	29.4	9.7	3	74.3	8.7	41-3
Deltapine DP 0935 B2RF	4.3	1.12	80.2	28.8	9.6	2	78.8	8.7	21-2,31-1
FiberMax FM 1740B2F	4.4	1.11	80.9	29.1	9.8	2	77.9	8.3	31-1,31-2
Deltapine DP 174 RF	4.0	1.14	80.7	27.8	9.8	3	77.3	8.1	31-2
Stoneville ST 5288B2F	4.5	1.10	80.0	27.1	9.8	4	78.2	7.5	31-1,41-1
FiberMax FM 9160B2F	4.0	1.18	82.4	30.4	8.9	3	79.3	7.5	31-1,31-2
Deltapine DP 0924 B2RF	4.5	1.14	80.9	28.6	9.2	3	76.7	8.1	31-2
Americot AM 1532 B3RF	4.3	1.15	81.7	27.6	9.9	4	76.9	8.4	31-1,31-2
NexGen NG 4377 B2RF	4.4	1.14	81.5	28.1	9.5	4	74.8	8.5	41-1
Stoneville ST 4288B2F	4.8	1.15	80.8	29.6	9.8	2	76.8	8.8	31-1
NexGen NG 3331 B2RF	4.6	1.12	82.3	29.2	9.6	4	74.2	8.5	41-1,41-3
Stoneville ST 4498B2RF	4.2	1.14	82.2	30.6	10.6	3	76.0	8.4	31-2
Monsanto 07X440 DF	4.4	1.08	80.0	25.8	10.8	3	76.3	8.5	31-1,41-1
Deltapine DP 0912 B2RF	4.9	1.12	80.3	28.2	10.2	3	77.3	7.9	31-1,31-2
Stoneville LA 887	4.6	1.16	81.3	30.7	9.8	3	75.6	8.5	31-2,31-4
Bayer BCSX 0721B2F	4.1	1.15	81.9	28.0	10.7	3	79.3	7.8	31-1
Deltapine DP 164 B2RF	4.4	1.19	81.8	30.7	9.1	3	79.2	8.1	31-1
NexGen NG 4370 B2RF	4.3	1.13	81.6	28.5	9.9	3	76.5	8.4	31-1,31-2
FiberMax FM 1880B2F	4.3	1.16	80.9	29.7	9.4	3	79.4	7.6	31-1
07-18-302-N	3.7	1.23	81.4	34.0	9.4	5	75.9	8.4	31-2,41-1
Deltapine DP 491	4.1	1.16	81.1	31.4	9.3	3	75.6	7.7	41-1
NexGen NG 3348 B2RF	4.5	1.12	81.0	29.1	9.5	3	74.3	8.9	31-4,41-3
NexGen NG 3410 RF	4.2	1.17	81.1	30.3	9.2	3	74.9	8.2	41-1
07-17-105-N	3.6	1.25	83.0	31.9	9.6	3	76.5	7.7	41-1
Mean	4.3	1.15	81.2	29.3	9.7	3	76.7	8.2	
c.v.%	8.2	2.0	1.2	2.8	2.9	24.3	1.3	2.6	
LSD 0.05	0.6	0.04	1.7	1.4	0.5	1	1.7	0.4	

NOTES

Table 35. Production information for drip irrigated bacterial blight test at the City farm, Lubbock, TX 2008.

Test: Bacterial Blight
 Planting Date: May 16
 Row Spacing: 40 in
 Planting Pattern: Solid
 Bacterial Blight: Applied July 18

Table 36. Ratings of the Bacterial Blight variety screening at the City farm, Lubbock, TX 2008.

Variety	BLIGHT
FiberMax FM 9160B2F	0e
FiberMax FM 958	0e
FiberMax FM 1740B2F	1e
PhytoGen PHY 375 WRF	3e
Croplan Genetics CG 3020B2RF	4e
FiberMax FM 9180B2F	6e
PhytoGen PHY 370 WR	36d
PhytoGen PHY 315 RF	56c
Croplan Genetics CG 4020B2RF	78b
Croplan Genetics CG 3520B2RF	80b
Monsanto 07X440DF	93a
All-Tex AT Atlas	94a
Croplan Genetics CG 3035RF	96a
Deltapine DP 0924 B2RF	98a
Croplan Genetics CG 3220B2RF	100a
Deltapine DP 0912 B2RF	100a
Deltapine DP 0935 B2RF	100a
All-Tex AT Patriot RF	100a
Mean	58
c.v.%	15.3
LSD 0.05	11

Sprayed with Race 18 of bacterial blight
 (10^9 bacteria/ml at a rate of 50 gal/acre)
 on 18 July and rated on 11 August

NOTES

Table 37. Production information for pivot irrigated performance tests at AG-CARES, Lamesa, TX 2008.

Test:	Pima		
Planting Date:	May 9		
Row Spacing:	40in		
Planting Pattern:	Solid		
Herbicide:	Prowl @ 3 pt/A applied pre-plant Dual @ 1 ¼ pt/A applied June 17		
Fertilizer:	10-34-0 @ 120 lbs/A applied pre-plant		
Irrigations:	.75 acre-in on April 13	.4 acre-in on July 3	.4 acre-in on Aug 2
	.75 acre-in on April 28	.4 acre-in on July 5	.4 acre-in on Aug 5
	.3 acre-in on May 10	.4 acre-in on July 8	.4 acre-in on Aug 9
	.3 acre-in on May 14	.4 acre-in on July 11	.4 acre-in on Aug 21
	.3 acre-in on May 16	.4 acre-in on July 15	.4 acre-in on Aug 24
	.3 acre-in on May 19	.4 acre-in on July 18	<u>.4 acre-in on Aug 27</u>
	.3 acre-in on May 21	.4 acre-in on July 21	9.6 acre-in
	.5 acre-in on May 24	.4 acre-in on July 23	
	.4 acre-in on June 27	.4 acre-in on July 26	
	.4 acre in on June 30	.4 acre-in on July 28	
		.4 acre-in on July 31	
Insecticide:	Temik @ 3.5 lbs/A at planting		
Harvest Aids:	Prep @ 22 oz/A + Ginstar @ 6 oz/A applied October 2 paraquat @ 32 oz/A applied October 16		
Harvest Date:	October 27		
Freeze Date:	October 29		

Table 38. Results of the pivot irrigated pima test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Bolls	Storm	Height
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10/2/08	Resistance	
Hazera YD-1198 (Hybrid)	1356	26.1	44.2	35.0	27.5	4.7	10.9	6.4	25.6	55	2	33
Hazera YD-1199 (Hybrid)	1106	21.9	42.1	33.6	26.2	4.9	11.3	6.1	26.6	45	2	37
FiberMax Cobalt	747	23.8	43.1	36.5	25.9	3.0	10.1	6.2	17.4	15	3	28
PhytoGen PHY 800	730	24.0	41.5	37.1	27.0	3.2	11.2	7.0	16.9	1	2	31
PhytoGen PHY 830	707	23.6	38.6	40.4	27.4	2.6	10.5	6.6	17.6	9	3	31
Deltapine DP 744	523	24.3	41.9	40.0	30.4	3.6	10.5	6.9	21.0	6	2	30
Mean	861	23.9	41.9	37.1	27.4	3.6	10.7	6.5	20.7	22	2	32
c.v.%	14.1	6.7	6.0	1.4	6.1	12.4	12.1	10.1	14.2	36.8	17.7	9.1
LSD 0.05	152	2.0	3.1	1.0	3.9	0.9	2.6	1.4	6.3	10	1	4

Table 38A. Results of the pivot irrigated pima test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Micro-		Uni-	Strength	Elon-	Leaf	Rd	+b	Color
	naire	Length							
Hazera YD-1198 (Hybrid)	3.7	1.25	81.9	35.5	10.0	8	64.0	10.4	53-1,53-3
Hazera YD-1199 (Hybrid)	3.1	1.28	81.8	34.7	10.5	7	64.7	10.6	43-4,53-1
FiberMax Cobalt	3.2	1.37	83.1	40.3	8.6	4	61.7	13.2	44-2,44-3
PhytoGen PHY 800	3.5	1.30	82.1	39.2	9.5	5	63.4	11.5	34-2,53-2
PhytoGen PHY 830	3.3	1.36	83.0	37.7	9.1	5	67.5	11.8	33-3,43-3
Deltapine DP 744	3.3	1.35	81.5	39.4	8.9	4	66.3	12.5	33-4,34-2
Mean	3.3	1.32	82.2	37.8	9.4	5	64.6	11.6	
c.v.%	5.3	2.2	1.9	4.7	3.8	21.1	2.9	5.0	
LSD 0.05	0.4	0.06	3.2	3.6	0.7	2	3.8	1.2	

Table 39. Production information for drip irrigated performance test at AG-CARES, Lamesa, TX 2008.

Test:	Pima
Planting Date:	May 30
Row Spacing:	40in
Planting Pattern:	Solid
Herbicide:	Caparol @ 1.8pt/A applied pre-plant Dual @ 1 ¼ pt/A applied June 18
Fertilizer:	10-34-0 @ 120lbs/A applied pre-plant 32-0-0 @ 30 lbs/A applied April 30 (fertigation) 32-0-0 @ 30 lbs/A applied June 29 (fertigation) 32-0-0 @ 30 lbs/A applied July 16 (fertigation) 32-0-0 @ 30 lbs/A applied July 24 (fertigation)
Irrigations:	6.06 acre-in applied pre-plant 8.63 acre-in applied June-August
Growth Regulator:	Pix 6oz/A applied July 24
Insecticide:	Temik @ 3.5 lbs/A at planting
Harvest Aids:	paraquat @ 32oz/A applied October 16
Harvest Date:	November 18
Freeze Date:	October 29

Table 40. Results of the drip irrigated pima test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/10/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Hazera YD-1198 (Hybrid)	1659	22.7	42.7	36.6	29.2	4.8	11.9	7.3	24.4	81	2	47
Hazera YD-1199 (Hybrid)	1425	19.8	45.3	32.6	25.7	4.7	10.1	5.4	29.0	84	2	47
FiberMax Cobalt	1126	20.9	43.1	35.5	25.9	3.2	11.0	6.5	17.3	68	3	36
PhytoGen PHY 830	940	19.1	38.3	37.7	26.9	3.2	11.3	7.2	17.1	54	2	41
Deltapine DP 744	853	19.0	37.4	36.4	27.0	4.1	12.9	7.8	19.4	38	3	37
PhytoGen PHY 800	824	17.5	36.4	35.7	26.3	3.7	13.3	7.8	16.7	43	2	41
Mean	1138	19.8	40.5	35.7	26.8	3.9	11.7	7.0	20.6	61	2	42
c.v.%	10.5	7.1	5.8	2.1	2.0	3.7	9.6	7.0	9.8	10.0	21.5	5.8
LSD 0.05	147	1.8	2.9	1.5	1.1	0.3	2.3	1.0	4.1	8	1	3

Table 40A. Results of the drip irrigated pima test at the AG-CARES farm, Lamesa, TX 2008.

Designation	Micro-		Uni-	Elon-	Leaf	Rd	+b	Color	
	naire	Length	formity					Strength	gation
Hazera YD-1198 (Hybrid)	3.1	1.27	80.8	34.4	10.4	6	67.9	10.5	43-1,43-2
Hazera YD-1199 (Hybrid)	2.9	1.31	81.2	34.4	10.7	6	69.1	10.0	32-2,42-2
FiberMax Cobalt	3.0	1.36	82.1	39.0	9.3	2	69.1	12.9	23-4,24-2
PhytoGen PHY 830	2.9	1.37	82.6	37.6	9.0	2	72.1	12.4	23-1,23-4
Deltapine DP 744	3.1	1.35	82.1	39.7	8.8	2	70.5	12.3	23-4
PhytoGen PHY 800	2.9	1.38	83.3	39.2	9.1	4	69.8	12.0	23-4,33-4
Mean	3.0	1.34	82.0	37.4	9.5	4	69.7	11.7	
c.v.%	6.6	3.4	1.9	3.5	3.6	31.6	1.7	2.0	
LSD 0.05	0.4	0.09	3.2	2.6	0.7	2	2.4	0.5	

Table 41. Production information for furrow irrigated performance test at Texas AgriLife Research, Pecos, TX 2008.

Test:	Pima	
Planting Date:	May 14	
Row Spacing:	34-42 in variable (equivalent to 38 in)	
Planting Pattern:	Solid	
Herbicide:	Prowl @ 2 pt/A applied pre-plant	
Fertilizer:	none	
Irrigations:	10.0 acre inches May 14	4.8 acre inches July 29
	4.7 acre inches May 28	4.8 acre inches August 13
	4.7 acre inches June 7	4.8 acre inches August 25
	4.8 acre inches June 23	<u>4.8 acre inches September 9</u>
	4.7 acre inches July 14	48.1 acre inches
Insecticide:	none	
Harvest Aids:	Prep @ 16 oz/A + Def @ 16 oz/A applied October 29 Gramoxone @ 16 oz/A applied November 4	
Harvest Date:	November 14	
Freeze Date:	November 7	

Table 42. Results of the irrigated pima test at Texas AgriLife Research, Pecos, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 11/3/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Hazera YD-1198 (Hybrid)	1289	26.4	40.8	36.6	28.9	4.0	9.2	6.1	24.3	88	3	25
Hazera YD-1199 (Hybrid)	1186	23.4	45.3	35.2	25.9	4.0	10.1	5.9	23.8	88	3	23
PhytoGen PHY 830	825	25.4	40.7	38.3	27.1	3.0	10.3	6.7	18.1	66	4	20
FiberMax Cobalt	813	24.3	46.2	37.6	29.6	2.9	10.7	6.5	17.4	73	5	19
PhytoGen PHY 800	770	24.0	42.9	37.3	26.6	2.9	11.5	7.0	15.3	53	4	24
Deltapine DP 744	758	24.9	42.9	38.7	28.8	3.1	11.0	6.5	18.2	50	5	20
Mean	940	24.7	43.1	37.3	27.8	3.3	10.4	6.4	19.5	69	4	22
c.v.%	14.1	6.1	4.1	2.3	6.8	9.7	7.1	4.8	5.5	7.6	17.4	5.8
LSD 0.05	166	1.9	2.2	1.7	4.4	0.8	1.5	0.6	2.5	7	1	2

Table 42A. Results of the irrigated pima test at Texas AgriLife Research, Pecos, TX 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Hazera YD-1198 (Hybrid)	3.9	1.26	81.8	36.3	10.1	5	69.9	10.4	32-2,43-1
Hazera YD-1199 (Hybrid)	3.6	1.34	83.6	36.8	10.2	6	70.9	9.6	42-1
PhytoGen PHY 830	3.4	1.36	83.0	42.2	9.2	1	71.6	12.3	23-2,23-3
FiberMax Cobalt	3.5	1.35	83.7	41.9	8.8	2	71.5	12.4	23-3,23-4
PhytoGen PHY 800	3.3	1.33	83.3	42.5	8.7	1	70.6	12.5	23-3,33-3
Deltapine DP 744	3.7	1.33	82.8	40.5	8.5	1	72.0	12.0	23-1,23-3
Mean	3.5	1.33	83.0	40.0	9.2	2	71.1	11.5	
C.V.%	5.2	1.4	1.4	1.2	4.1	16.0	2.0	2.7	
LSD 0.05	0.4	0.04	2.4	1.0	0.8	1	2.8	0.6	

Table 43. Summary over locations for the pima variety tests 2008.

Variety	Over All	Lamesa pivot	Lamesa Drip	Pecos
	Yield	RANK	RANK	RANK
Hazera YD-1198 (Hybrid)	1435	1	1	1
Hazera YD-1199 (Hybrid)	1239	2	2	2
FiberMax Cobalt	895	3	3	4
PhytoGen PHY 830	824	5	4	3
PhytoGen PHY 800	775	4	6	5
Deltapine DP 744	711	6	5	6

Table 44. Production information for pivot irrigated performance test at Helms Research Farm, Halfway, TX 2008.

Test:	High Treatment Water x Variety
Planting Date:	May 19
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Glyphos extra @ 32 oz/A applied May 19 Glyphos extra @ 32 oz/A applied July 9
Fertilizer:	60-30-0 lbs/A applied pre-plant 90 lbs/A N applied through pivot July 7-August 1
Irrigations:	3.2 acre inches applied pre-plant 17.4 acre inches applied May-September
Insecticide:	Temik @ 4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 24
Harvest Aids:	None
Harvest Date:	December 19
Freeze Date:	October 23

Table 45. Results of the high irrigation treatment of the water x variety test at the Helms farm, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
FiberMax FM 9058F	1053	25.7	41.2	36.8	26.3	5.3	11.1	6.8	28.7	33	6	24
AFD 5064F	936	24.4	44.5	36.5	28.3	6.7	10.6	6.3	34.6	35	6	26
FiberMax FM 1740B2RF	916	26.5	40.3	38.6	36.2	5.1	10.3	6.8	28.6	21	6	24
Deltapine DP 104 B2RF	897	23.4	47.2	33.1	25.1	6.0	10.8	5.8	34.6	35	6	24
PhytoGen PHY 425 RF	891	23.2	42.8	35.6	26.0	4.8	10.4	6.0	28.5	26	4	27
FiberMax FM 9063B2RF	883	24.8	42.6	36.6	28.2	6.0	11.7	7.1	31.1	29	6	18
Stoneville ST 4427B2RF	874	23.9	42.7	36.2	26.6	5.1	10.2	6.2	30.2	16	4	27
Paymaster PM 2141 B2RF	872	25.2	43.4	36.9	26.6	5.2	12.6	7.7	24.6	45	7	20
Stoneville ST 4554B2RF	860	24.9	42.6	37.3	24.4	4.7	10.1	6.4	26.9	15	4	25
NexGen NG 1527 RF	859	23.9	45.6	37.3	27.9	4.8	10.4	6.5	27.7	50	8	24
Stoneville ST 4664F	857	24.6	41.0	37.9	34.1	6.3	9.9	6.5	37.4	28	4	26
Americot AM 1532 B2RF	819	22.7	41.5	35.3	25.0	4.7	10.2	5.9	27.9	20	4	26
Americot AM 1664 B2RF	801	22.2	40.2	36.3	25.2	4.3	10.1	6.1	26.0	28	5	24
Americot AM 1622 B2RF	795	22.0	43.0	33.5	22.9	5.0	11.0	5.8	28.6	26	5	23
Deltapine DP 121 RF	791	23.9	39.2	39.7	24.3	4.0	8.9	6.3	25.1	20	4	26
Dyna-Gro DG 2242B2RF	784	23.0	42.6	36.7	28.6	4.7	10.1	6.2	28.0	33	4	22
AFD 5065B2F	776	21.4	45.0	33.5	22.0	5.2	11.6	6.1	28.3	34	6	25
PhytoGen PHY 485 WRF	772	22.1	40.2	35.9	25.0	5.5	10.3	6.1	32.2	24	4	27
All-Tex AT Arid B2RF	763	21.8	45.3	33.6	23.5	4.5	11.4	6.2	24.1	33	8	23
All-Tex AT Summit B2RF	762	23.6	43.0	34.5	23.3	5.0	10.8	6.0	28.4	19	5	24
Deltapine DP 164 B2RF	755	23.0	43.4	35.1	28.3	5.9	10.7	6.0	34.0	5	4	26
All-Tex AT Marathon B2RF	732	21.5	42.2	35.9	26.3	5.5	10.7	6.3	31.4	11	4	26
Deltapine DP 143 B2RF	704	22.6	42.8	35.2	25.3	5.3	10.1	5.7	32.6	10	4	24
Dyna-Gro DG 2570B2RF	673	24.4	41.0	37.8	24.4	4.6	10.1	6.5	26.8	11	5	25
Mean	826	23.5	42.6	36.1	26.4	5.1	10.6	6.3	29.4	25	5	24
c.v.%	13.7	5.0	4.4	2.6	11.0	17.6	6.1	5.6	16.6	34.6	10.3	11.5
LSD 0.05	134	1.4	2.2	1.6	5.0	1.6	1.1	0.6	8.4	10	1	3

Table 45A. Results of the high irrigation treatment of the water x variety test at the Helms farm, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
FiberMax FM 9058F	3.0	1.22	80.9	29.1	9.1	2	74.3	9.3	31-1,42-1
AFD 5064F	3.5	1.11	82.0	27.8	10.1	3	72.6	9.6	32-1,42-1
FiberMax FM 1740B2RF	3.2	1.12	81.0	27.4	10.0	1	75.0	9.2	31-3,31-4
Deltapine DP 104 B2RF	2.9	1.14	81.9	29.2	10.9	3	73.4	9.5	32-2
PhytoGen PHY 425 RF	3.3	1.14	81.3	27.2	10.6	3	70.9	10.3	32-2,43-1
FiberMax FM 9063B2RF	3.1	1.21	80.4	29.9	9.3	2	74.1	9.2	31-4,32-2
Stoneville ST 4427B2RF	3.0	1.12	79.2	26.9	9.0	2	67.7	11.0	43-1,43-3
Paymaster PM 2141 B2RF	3.3	1.15	82.2	27.5	10.3	4	75.0	9.1	31-2,32-2
Stoneville ST 4554B2RF	3.2	1.13	80.8	27.5	11.2	2	70.9	12.0	23-1,33-3
NexGen NG 1527 RF	2.7	1.16	80.3	27.6	9.7	3	76.3	8.1	31-2,41-1
Stoneville ST 4664F	3.1	1.16	81.4	27.9	10.9	2	72.4	10.8	32-1,33-1
Americot AM 1532 B2RF	2.6	1.17	78.6	25.6	9.6	2	74.5	10.6	23-1,31-3
Americot AM 1664 B2RF	2.9	1.15	79.8	26.2	10.4	5	66.8	10.4	43-2
Americot AM 1622 B2RF	2.9	1.19	81.0	26.7	9.8	1	71.2	10.5	33-2,42-1
Deltapine DP 121 RF	2.9	1.14	81.4	27.7	10.2	2	72.9	10.8	32-1,33-1
Dyna-Gro DG 2242B2RF	2.9	1.13	79.4	26.0	10.3	4	71.3	10.0	32-1,42-2
AFD 5065B2F	2.8	1.16	79.9	28.2	10.2	2	74.1	9.1	31-4,42-1
PhytoGen PHY 485 WRF	3.3	1.13	80.9	27.8	10.7	3	68.8	11.5	33-2,33-4
All-Tex AT Arid B2RF	3.0	1.13	80.8	27.1	10.2	2	71.9	10.3	32-1,43-1
All-Tex AT Summit B2RF	3.1	1.10	80.9	25.5	10.0	2	73.3	10.0	22-2,42-1
Deltapine DP 164 B2RF	2.8	1.15	79.4	27.8	9.1	1	71.1	11.2	23-2,33-2
All-Tex AT Marathon B2RF	2.8	1.12	79.8	25.6	10.1	3	71.4	10.6	32-1,33-2
Deltapine DP 143 B2RF	2.8	1.16	78.8	27.1	9.3	4	68.2	11.5	33-4,43-1
Dyna-Gro DG 2570B2RF	2.7	1.12	79.3	26.4	10.1	1	74.2	11.2	22-1,23-2
Mean	3.0	1.14	80.5	27.3	10.0	2	72.2	10.2	
c.v.%	4.8	1.5	0.9	2.2	2.6	51.1	3.1	5.0	
LSD 0.05	0.2	0.03	1.2	1.0	0.5	2	3.8	0.9	

NOTES

Table 46. Production information for pivot irrigated performance test at Helms Research Farm, Halfway, TX 2008.

Test:	Medium Treatment Water x Variety
Planting Date:	May 19
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Glyphos extra @ 32 oz/A applied May 19 Glyphos extra @ 32 oz/A applied July 9
Fertilizer:	60-30-0 lbs/A applied pre-plant 90 lbs/A N applied through pivot July 7-August 1
Irrigations:	3.2 acre inches applied pre-plant 11.9 acre inches applied May-September
Insecticide:	Temik @ 4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 24
Harvest Aids:	None
Harvest Date:	December 19
Freeze Date:	October 23

Table 47. Results of the medium irrigation treatment of the water x variety test at the Helms farm, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Stoneville ST 4427B2RF	894	25.8	43.8	36.2	25.5	4.6	9.9	6.0	27.5	34	4	20
Stoneville ST 4664F	886	28.0	45.1	38.1	29.0	5.5	9.7	6.3	33.8	24	4	19
FiberMax FM 1740B2RF	884	29.3	42.8	40.1	29.0	5.6	10.3	7.3	31.3	33	6	18
Americot AM 1532 B2RF	870	26.7	44.1	36.2	26.7	4.9	10.1	6.0	29.6	28	4	20
Dyna-Gro DG 2570B2RF	856	27.7	43.8	37.9	27.2	5.4	10.2	6.6	30.7	25	4	19
PhytoGen PHY 425 RF	837	26.4	46.5	35.5	25.8	4.3	10.2	5.9	25.7	38	4	20
Americot AM 1664 B2RF	828	26.5	44.4	37.2	25.9	4.5	9.8	6.1	27.6	41	4	18
FiberMax FM 9058F	827	27.3	44.2	36.7	27.3	5.4	10.5	6.3	31.1	34	6	18
Dyna-Gro DG 2242B2RF	811	27.6	44.9	36.4	25.0	4.2	9.5	5.7	26.6	34	4	19
Deltapine DP 121 RF	810	28.0	41.7	42.0	28.3	4.5	9.4	7.0	27.1	26	4	19
Stoneville ST 4554B2RF	796	27.1	44.3	37.8	27.3	5.5	10.5	6.8	30.2	16	4	19
NexGen NG 1527 RF	795	26.2	46.5	36.8	26.4	4.9	10.6	6.4	27.7	46	8	18
AFD 5064F	791	26.4	45.3	35.1	25.1	5.4	11.4	6.6	28.7	30	7	20
All-Tex AT Marathon B2RF	783	24.3	45.0	35.2	24.3	4.9	10.1	5.9	29.3	30	5	19
FiberMax FM 9063B2RF	780	27.1	44.7	35.7	25.4	5.4	11.9	6.9	28.1	30	6	18
PhytoGen PHY 485 WRF	774	25.8	44.0	35.9	26.4	4.3	9.7	5.8	26.4	33	5	21
Deltapine DP 104 B2RF	758	25.5	48.2	35.2	26.3	5.7	10.9	6.1	32.3	38	6	18
Americot AM 1622 B2RF	737	24.2	47.2	33.6	24.4	5.6	11.7	6.2	30.6	33	4	19
Deltapine DP 164 B2RF	719	25.5	45.0	37.1	26.4	4.8	9.6	5.9	29.9	11	4	21
Paymaster PM 2141 B2RF	684	26.2	44.0	34.9	24.4	5.0	12.1	6.9	25.3	33	7	18
AFD 5065B2F	665	24.8	47.6	32.9	24.0	5.6	11.1	5.7	32.0	35	7	18
All-Tex AT Arid B2RF	662	25.3	49.0	32.3	23.3	5.5	11.8	6.0	29.6	26	8	18
All-Tex AT Summit B2RF	629	26.5	45.6	35.1	23.9	4.4	10.9	6.2	25.3	34	5	18
Deltapine DP 143 B2RF	591	25.8	45.8	35.9	26.7	5.3	9.7	5.8	32.9	13	4	18
Mean	778	26.4	45.1	36.2	26.0	5.0	10.4	6.2	29.1	30	5	19
c.v.%	11.9	4.3	3.2	3.1	3.8	6.8	4.7	4.9	6.9	18.5	12.0	6.4
LSD 0.05	109	1.3	1.7	1.9	1.7	0.6	0.8	0.5	3.4	7	1	1

Table 47A. Results of the medium irrigation treatment of the water x variety test at the Helms farm, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 4427B2RF	3.5	1.11	80.5	27.3	9.7	2	72.3	10.8	33-1,32-2
Stoneville ST 4664F	3.9	1.13	81.6	28.8	11.4	2	69.9	10.7	33-2,43-1
FiberMax FM 1740B2RF	3.7	1.12	80.7	28.5	10.2	1	77.2	9.2	21-3,31-1
Americot AM 1532 B2RF	3.4	1.17	80.5	26.1	9.8	1	73.5	10.3	32-1
Dyna-Gro DG 2570B2RF	3.6	1.11	79.8	27.2	10.6	2	71.9	11.2	23-2,33-2
PhytoGen PHY 425 RF	3.9	1.16	81.4	28.7	11.0	3	71.1	10.6	33-1,33-2
Americot AM 1664 B2RF	3.5	1.15	81.6	26.9	10.4	1	72.9	10.0	32-1,42-1
FiberMax FM 9058F	3.6	1.21	80.7	30.0	9.1	3	76.5	8.4	31-2
Dyna-Gro DG 2242B2RF	3.6	1.13	80.7	27.0	10.5	2	74.2	9.3	31-3,31-4
Deltapine DP 121 RF	3.9	1.13	81.9	28.1	10.3	2	71.3	10.1	32-2
Stoneville ST 4554B2RF	3.7	1.14	80.8	28.1	11.1	2	70.9	11.4	33-1
NexGen NG 1527 RF	3.3	1.18	82.0	29.3	10.1	3	76.2	7.7	31-2,41-1
AFD 5064F	4.0	1.12	82.3	28.1	10.3	2	72.3	10.0	32-1,42-1
All-Tex AT Marathon B2RF	3.3	1.13	80.6	26.1	10.4	1	76.3	9.3	21-4,31-3
FiberMax FM 9063B2RF	3.5	1.21	81.5	30.6	9.5	2	77.7	8.7	21-2,31-1
PhytoGen PHY 485 WRF	3.7	1.16	82.3	29.0	11.1	3	71.5	10.4	32-2
Deltapine DP 104 B2RF	3.6	1.15	82.5	29.5	10.7	2	75.4	8.9	31-3,31-4
Americot AM 1622 B2RF	3.4	1.19	81.4	27.6	10.4	2	75.5	9.0	31-3,41-3
Deltapine DP 164 B2RF	3.5	1.15	79.7	27.3	9.2	2	71.4	11.0	33-1,33-2
Paymaster PM 2141 B2RF	3.8	1.15	82.0	27.6	10.0	3	73.7	8.5	41-1,42-1
AFD 5065B2F	3.6	1.14	80.6	28.3	10.4	2	75.0	8.6	31-4,41-1
All-Tex AT Arid B2RF	3.7	1.11	81.4	27.9	10.3	2	75.2	9.2	31-3,31-4
All-Tex AT Summit B2RF	3.5	1.08	81.0	25.9	10.6	1	75.4	9.3	31-3
Deltapine DP 143 B2RF	3.4	1.16	78.9	27.4	9.7	2	72.8	10.0	32-1,42-1
Mean	3.6	1.14	81.1	27.9	10.3	2	73.7	9.7	
c.v.%	5.0	1.5	1.1	2.7	2.5	44.5	2.1	4.0	
LSD 0.05	0.3	0.03	1.5	1.3	0.4	1	2.6	0.7	

NOTES

Table 48. Production information for pivot irrigated performance test at Helms Research Farm, Halfway, TX 2008.

Test:	Low Treatment Water x Variety
Planting Date:	May 19
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Glyphos extra @ 32 oz/A applied May 19 Glyphos extra @ 32 oz/A applied July 9
Fertilizer:	60-30-0 lbs/A applied pre-plant 90 lbs/A N applied through pivot July 7-August 1
Irrigations:	3.2 acre inches applied pre-plant 6.49 acre inches applied May-September
Insecticide:	Temik @ 4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 24
Harvest Aids:	None
Harvest Date:	December 19
Freeze Date:	October 23

Table 49. Results of the low irrigation treatment of the water x variety test at the Helms farm, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
NexGen NG 1527 RF	837	22.2	43.3	34.8	25.7	5.1	10.2	5.8	31.0	18	7	30
Paymaster PM 2141 B2RF	824	23.7	42.0	36.3	26.1	5.2	11.9	7.2	26.0	14	8	25
AFD 5065B2F	821	20.4	43.3	35.0	25.1	5.5	10.5	6.0	31.9	7	7	30
AFD 5064F	816	20.6	39.6	36.8	26.0	5.3	9.8	6.1	31.8	8	7	32
FiberMax FM 1740B2RF	790	22.4	36.0	39.3	27.7	4.7	9.4	6.4	29.2	2	6	30
Deltapine DP 104 B2RF	721	22.6	43.4	35.3	25.5	5.5	10.5	5.8	30.6	9	7	30
Stoneville ST 4427B2RF	714	19.6	36.9	36.0	26.5	5.4	10.8	6.6	29.7	2	4	36
Stoneville ST 4664F	710	20.6	34.7	37.3	26.8	5.4	9.6	6.1	33.1	1	4	36
All-Tex AT Marathon B2RF	646	18.4	37.7	34.3	24.8	5.4	10.4	5.7	32.1	1	5	33
Dyna-Gro DG 2242B2RF	645	20.9	41.9	36.4	25.5	5.0	10.6	6.4	28.7	6	5	30
All-Tex AT Summit B2RF	642	19.9	39.4	35.7	24.8	5.0	9.3	5.5	32.9	3	5	33
Dyna-Gro DG 2570B2RF	642	22.3	41.0	38.1	27.8	5.3	9.8	6.5	31.3	3	5	30
FiberMax FM 9058F	639	21.9	40.1	37.7	27.4	5.5	10.8	6.7	30.7	5	6	30
FiberMax FM 9063B2RF	639	19.9	36.8	36.5	25.8	5.7	11.0	6.6	31.4	3	6	30
Stoneville ST 4554B2RF	626	20.0	36.8	36.4	24.0	4.8	10.1	4.9	35.2	2	4	32
Americot AM 1664 B2RF	584	20.2	38.1	36.1	25.0	4.6	9.1	5.4	31.0	5	4	30
PhytoGen PHY 485 WRF	582	18.3	37.9	35.3	25.4	4.5	9.5	5.6	28.4	3	4	36
Deltapine DP 121 RF	567	18.9	34.9	39.8	28.4	5.2	9.1	6.3	32.8	2	3	36
Americot AM 1622 B2RF	559	18.2	40.2	33.1	23.4	5.1	10.8	5.6	30.2	4	5	31
All-Tex AT Arid B2RF	544	18.3	40.3	33.3	22.8	5.0	9.4	5.1	32.7	8	7	30
Americot AM 1532 B2RF	534	17.2	36.5	35.6	25.0	5.0	9.3	5.5	32.5	2	5	33
Deltapine DP 164 B2RF	522	21.6	42.1	36.3	26.5	4.9	10.1	5.9	30.2	2	4	35
PhytoGen PHY 425 RF	508	18.4	38.7	36.1	24.5	4.4	9.0	5.5	29.4	9	4	36
Deltapine DP 143 B2RF	441	16.8	37.3	34.3	25.8	5.6	10.0	5.5	34.9	0	4	36
Mean	648	20.1	39.1	36.1	25.7	5.1	10.0	5.9	31.1	5	5	32
c.v.%	20.4	10.5	7.9	3.2	5.8	9.6	8.5	10.1	7.0	88.6	10.9	7.3
LSD 0.05	156	2.5	3.7	2.0	2.6	0.8	1.5	1.0	3.7	5	1	3

Table 49A. Results of the low irrigation treatment of the water x variety test at the Helms farm, Halfway, TX, 2008

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
NexGen NG 1527 RF	2.4	1.13	77.9	25.4	9.9	3	74.8	9.3	31-3,32-2
Paymaster PM 2141 B2RF	2.7	1.12	80.5	25.8	9.9	3	70.1	11.0	33-2
AFD 5065B2F	2.5	1.14	79.6	26.4	10.1	1	73.2	10.9	32-1,33-1
AFD 5064F	2.8	1.12	80.4	27.0	9.8	3	70.5	11.7	23-4,33-1
FiberMax FM 1740B2RF	2.3	1.10	79.2	25.2	9.6	1	73.9	11.1	22-2,23-1
Deltapine DP 104 B2RF	2.7	1.11	80.1	27.0	10.2	3	72.6	10.6	23-1,42-1
Stoneville ST 4427B2RF	2.3	1.11	79.8	25.4	9.1	2	69.4	13.0	23-4,24-2
Stoneville ST 4664F	2.5	1.12	79.5	25.3	10.8	2	70.1	12.1	23-4,33-3
All-Tex AT Marathon B2RF	2.5	1.12	79.0	24.7	10.1	1	72.3	12.0	23-2,23-4
Dyna-Gro DG 2242B2RF	2.7	1.15	80.2	24.9	10.4	2	72.4	10.7	32-1,32-2
All-Tex AT Summit B2RF	2.5	1.09	78.8	23.3	9.8	1	73.5	11.2	22-1,33-1
Dyna-Gro DG 2570B2RF	2.5	1.12	80.1	26.0	10.5	2	71.3	12.4	23-3,23-4
FiberMax FM 9058F	2.4	1.16	77.8	25.6	8.9	1	69.2	10.3	42-1,43-2
FiberMax FM 9063B2RF	2.5	1.19	79.6	27.8	9.3	2	70.1	10.8	33-2,43-1
Stoneville ST 4554B2RF	2.4	1.11	79.0	25.2	10.3	2	70.4	12.5	23-3,33-3
Americot AM 1664 B2RF	2.5	1.11	78.7	25.2	10.3	2	72.3	11.9	23-2,23-3
PhytoGen PHY 485 WRF	2.6	1.12	80.5	26.8	10.4	2	66.5	11.8	33-2,44-1
Deltapine DP 121 RF	2.5	1.12	80.3	27.0	10.2	2	71.3	12.3	23-2,23-3
Americot AM 1622 B2RF	2.4	1.16	79.1	25.1	9.6	2	70.9	11.6	13-2,33-4
All-Tex AT Arid B2RF	2.3	1.11	79.0	25.7	9.6	2	73.7	10.4	22-2,32-2
Americot AM 1532 B2RF	2.4	1.15	78.4	24.6	9.5	2	71.7	11.8	23-2,33-1
Deltapine DP 164 B2RF	2.3	1.11	78.1	25.3	9.1	1	70.3	11.8	33-3
PhytoGen PHY 425 RF	2.7	1.14	81.0	26.4	10.7	2	67.1	11.4	34-2,43-1
Deltapine DP 143 B2RF	2.3	1.16	77.9	26.1	9.2	2	69.0	12.7	24-2,33-3
Mean	2.5	1.13	79.3	25.7	9.9	2	71.1	11.4	
c.v.%	5.4	1.9	1.2	2.9	2.5	45.5	2.1	5.4	
LSD 0.05	0.2	0.04	1.7	1.3	0.4	1	2.6	1.1	

NOTES

Table 50. Production information for dryland test at Helms Research Farm, Halfway, TX 2008.

Test:	Dryland Treatment Water x Variety
Planting Date:	May 19
Row Spacing:	30 in
Planting Pattern:	Solid
Herbicide:	Triflurin @ 32 oz/A applied pre-plant Glyphos extra @ 32 oz/A applied May 19 Glyphos extra @ 32 oz/A applied July 9
Fertilizer:	60-30-0 lbs/A applied pre-plant 90 lbs/A N applied through pivot July 7-August 1
Irrigations:	3.6 acre inches applied pre-plant 9.1 inches rainfall May-September
Insecticide:	Temik @ 4 lbs/A at planting
Growth Regulator:	Pentia @ 8 oz/A applied July 24
Harvest Aids:	None
Harvest Date:	December 19
Freeze Date:	October 23

Table 51. Results of the dryland treatment of the water x variety test at the Helms farm, Halfway, TX 2008.

Designation	Yield	Agronomic Properties								% Open		
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10/9/08	Storm Resistance	Height
		Lint	Seed	Picked	Pulled							
Stoneville ST 4664F	484	23.9	41.4	36.7	26.8	5.4	10.4	6.4	31.1	8	4	17
FiberMax FM 9058F	428	23.0	39.7	36.9	25.9	5.2	11.2	6.9	27.8	10	6	17
FiberMax FM 1740B2RF	424	27.9	43.9	36.9	27.1	5.5	11.1	6.7	28.7	8	6	16
Dyna-Gro DG 2242B2RF	417	22.4	40.9	35.0	23.8	4.7	10.3	5.9	28.1	20	4	16
Americot AM 1532 B2RF	402	23.4	44.3	33.4	23.5	4.7	10.6	5.6	28.1	13	5	16
Americot AM 1622 B2RF	398	21.5	44.7	32.3	22.0	4.6	10.5	5.1	29.0	13	5	15
All-Tex AT Summit B2RF	380	23.7	45.6	35.6	25.0	4.7	10.6	6.0	28.0	13	5	16
NexGen NG 1527 RF	357	22.6	42.8	34.6	25.5	4.6	11.4	6.3	25.3	15	7	17
Stoneville ST 4554B2RF	351	23.7	43.5	34.7	24.8	5.2	11.2	6.4	28.1	5	3	16
Dyna-Gro DG 2570B2RF	329	26.6	46.0	37.3	27.7	5.0	10.3	6.4	29.1	10	5	15
Deltapine DP 121 RF	321	24.9	40.3	36.7	25.8	4.6	10.3	6.2	26.9	10	4	16
Deltapine DP 104 B2RF	287	22.0	44.7	32.0	22.1	4.8	11.3	5.7	27.1	28	7	17
FiberMax FM 9063B2RF	279	24.9	45.0	35.3	25.0	5.1	12.0	6.7	26.9	10	6	15
PhytoGen PHY 485 WRF	274	21.0	40.5	33.1	24.1	4.7	10.0	5.3	29.5	15	4	16
Stoneville ST 4427B2RF	262	23.0	42.7	34.4	23.7	4.5	10.1	5.7	27.4	18	4	17
All-Tex AT Marathon B2RF	260	20.7	42.4	31.8	21.8	4.5	10.8	5.2	27.6	5	4	14
AFD 5065B2F	252	20.9	39.8	31.6	23.2	4.9	10.8	5.2	29.9	20	7	15
Deltapine DP 164 B2RF	250	24.2	47.1	34.6	25.8	5.3	9.9	5.7	33.6	15	4	16
PhytoGen PHY 425 RF	245	21.2	40.8	33.7	23.9	4.2	10.4	5.7	24.5	10	3	17
Americot AM 1664 B2RF	220	21.0	38.5	34.3	23.2	3.8	9.9	5.5	23.3	25	4	15
Deltapine DP 143 B2RF	216	25.0	47.4	34.0	25.6	5.0	10.0	5.4	31.1	15	4	14
All-Tex AT Arid B2RF	215	23.2	45.8	34.5	22.7	4.5	10.8	5.3	29.5	10	7	16
AFD 5064F	202	24.2	43.4	33.2	24.0	4.9	11.0	5.7	27.9	20	8	19
Paymaster PM 2141 B2RF	196	16.7	35.7	35.3	22.1	3.9	11.0	6.4	21.4	28	7	16
Mean	310	22.8	42.6	34.5	24.4	4.7	10.6	5.9	27.9	14	5	16
c.v.%	35.7	10.7	6.7	3.9	5.8	10.0	4.7	5.6	7.8	70.2	9.2	7.6
LSD 0.05	192	4.2	5.0	2.3	2.4	0.8	0.9	0.6	3.7	17	1	2

Table 51A. Results of the dryland treatment of the water x variety test at the Helms farm, Halfway, TX, 2008.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Stoneville ST 4664F	3.8	1.15	81.6	28.3	11.3	1	71.0	12.1	23-4
FiberMax FM 9058F	4.3	1.18	80.9	28.5	9.1	1	75.5	8.7	31-4
FiberMax FM 1740B2RF	4.3	1.11	82.2	26.9	10.3	1	77.3	9.1	31-3
Dyna-Gro DG 2242B2RF	4.2	1.18	83.1	27.7	10.8	1	73.6	9.5	32-2
Americot AM 1532 B2RF	4.0	1.17	83.0	27.4	10.4	1	76.3	10.0	22-2
Americot AM 1622 B2RF	3.6	1.20	82.4	27.8	10.2	1	75.5	10.2	22-2
All-Tex AT Summit B2RF	3.6	1.11	81.4	26.4	10.5	1	74.2	9.8	32-1
NexGen NG 1527 RF	4.4	1.18	82.8	28.9	9.8	2	71.5	8.3	41-4
Stoneville ST 4554B2RF	4.5	1.12	81.7	28.4	11.3	1	66.7	11.6	43-3
Dyna-Gro DG 2570B2RF	4.3	1.16	83.4	28.6	10.7	1	72.2	10.6	33-1
Deltapine DP 121 RF	4.6	1.17	83.2	28.4	10.4	1	73.7	9.7	32-2
Deltapine DP 104 B2RF	4.0	1.14	81.1	29.4	11.1	1	76.5	9.3	31-3
FiberMax FM 9063B2RF	4.2	1.23	82.5	30.4	9.5	1	77.7	9.1	21-2
PhytoGen PHY 485 WRF	4.4	1.14	81.2	29.7	11.0	1	70.2	9.7	42-1
Stoneville ST 4427B2RF	4.0	1.14	81.0	27.1	9.6	1	74.5	9.7	32-2
All-Tex AT Marathon B2RF	3.8	1.14	83.0	27.5	10.4	1	75.7	9.2	31-3
AFD 5065B2F	4.4	1.14	82.1	27.9	10.5	2	74.4	9.2	31-4
Deltapine DP 164 B2RF	3.9	1.13	80.8	28.0	9.6	1	73.2	10.9	33-1
PhytoGen PHY 425 RF	4.6	1.17	81.9	29.1	10.7	3	71.7	9.7	42-1
Americot AM 1664 B2RF	4.1	1.14	82.6	27.2	10.8	1	75.5	9.5	32-1
Deltapine DP 143 B2RF	3.8	1.16	80.2	28.1	9.7	2	73.6	9.9	32-1
All-Tex AT Arid B2RF	3.9	1.14	81.3	28.5	10.0	1	75.5	9.3	31-3
AFD 5064F	4.8	1.10	79.3	27.7	10.8	1	75.3	8.3	41-1
Paymaster PM 2141 B2RF	--	--	--	--	--	--	--	--	--

One rep of fiber data were measured, therefore no statistical analysis are available.

Table 52. Summary of water x variety tests at the Helms farm, Halfway, TX, 2008.

Variety	Overall Average	High Rank	Medium Rank	Low Rank	Dry Rank	GxE
FiberMax FM 1740B2RF	754	3	3	5	3	3084
FiberMax FM 9058F	737	1	8	13	2	5853
Stoneville ST 4664F	734	11	2	8	1	6826
NexGen NG 1527 RF	712	10	12	1	8	7946
AFD 5064F	686	2	13	4	23	13032
Stoneville ST 4427B2RF	686	7	1	7	15	15056
Deltapine DP 104 B2RF	666	4	17	6	12	11887
Dyna-Gro DG 2242B2RF	664	16	9	10	4	15075
Stoneville ST 4554B2RF	658	9	11	15	9	13632
Americot AM 1532 B2RF	656	12	4	21	5	19233
FiberMax FM 9063B2RF	645	6	15	14	13	15390
Paymaster PM 2141 B2RF	644	8	20	2	24	19996
AFD 5065B2F	629	17	21	3	17	22906
Dyna-Gro DG 2570B2RF	625	24	5	12	10	25986
Americot AM 1622 B2RF	622	14	18	19	6	21986
Deltapine DP 121 RF	622	15	10	18	11	21896
PhytoGen PHY 425 RF	620	5	6	23	19	24356
Americot AM 1664 B2RF	608	13	7	16	20	25195
All-Tex AT Marathon B2RF	605	22	14	9	16	25252
All-Tex AT Summit B2RF	603	20	23	11	7	25468
PhytoGen PHY 485 WRF	601	18	16	17	14	25310
Deltapine DP 164 B2RF	562	21	19	22	18	34176
All-Tex AT Arid B2RF	546	19	22	20	22	37016
Deltapine DP 143 B2RF	488	23	24	24	21	55281