

AGRONOMIC COTTON VARIETY TRIALS

THE SOUTHERN ROLLING PLAINS and PERMIAN BASIN OF TEXAS - 2012



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THE SOUTHERN ROLLING PLAINS and PERMIAN BASIN OF TEXAS - 2012

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Appreciation is expressed to the cooperators that provided their land, equipment and time in assisting with prepping, planting, managing and harvesting of these plots throughout the year. All cooperators are listed in Table 1. We would also like to extend our appreciation to the Cotton Seed Companies for providing seed and operating funds for these trials and Cotton Incorporated through Core Funds and the Texas State Support Committee for their partial support of these trials. Lastly we express our appreciation to all of the technicians, scouts, and support staff that assisted in the trials.

2012 HIGHLIGHTS

Variety selection is the most important decision made during the year. Unlike herbicide or insecticide decisions that can be changed during the season to address specific conditions and pests, variety selection is made only once, and variety selection dictates the management of a field for the entire season. Attention should be focused on agronomic characteristics such as yield, maturity, and fiber quality when selecting varieties. Figure 1 outlines the Best Management Practices for variety selection. Table 4 provides a summary of agronomic characteristics for the 39 varieties and experimental varieties tested in the San Angelo Uniform Irrigated Small Plot Variety Trial (M. Block, cooperator).

Texas producers planted 6.6 million acres of cotton in 2012, 0.5 million less than in 2011. From the latest data available, transgenic varieties accounted for 99% of the states acreage in 2012, which is up from 86% in 2011. Several transgenic traits are available in different cotton varieties providing herbicide and insect resistance. In Extension Districts 6 and 7, glyphosate resistant varieties are planted on essentially all acreage, but varieties with both glyphosate and insect resistant traits are not planted on all dryland acreage. According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2012 Crop” survey, the estimated percentage of upland cotton planted to specific brands in Texas are as follows: Alltex had 8.6%, Americot/NexGen had 18.6%, Bayer CropScience – FiberMax had 40%, Bayer CropScience – Stoneville had 2.3%, Croplan Genetics had 0.3%, Delta Pine had 19%, Dyna-Grow had 2.4%, and Phytogen had 8.4%.

To assist Texas cotton producers in remaining competitive in the Southern Rolling Plains and Permian Basin of Texas, the Texas A&M AgriLife Extension Service Agronomy program has been conducting research and demonstration variety trials (Fig. 2). This approach provides a good foundation of information that can be utilized to assist the variety selection process.

Thirteen large plot unreplicated demonstration, two small plot replicated research, and one large plot replicated research trials were planted in 2012. One demonstration trial in Martin County was lost due to drought. Harvested trials are summarized by location in Table 1.

Table 1 provides a list of planting and harvest dates, row spacing and plot area for each location, and indicated irrigated or dryland. Tables 2 and 3 show numerical rankings based upon gross revenue and lint yield for the variety trials across all locations separated into Extension District. Variety trials were planted in the following Extension District 7 Counties: Jones (Table 5), Nolan (Table 6), Fisher (Table 7), Tom Green (Tables 8-11). Variety trials were planted in the following Extension District 6 Counties: Howard (Tables 12 & 13), Upton (Table 14), Glasscock (Tables 15-19), and Martin (Not Harvested). All harvested locations had cotton grab samples that were ginned in Lubbock with the research gin with one lint cleaner. Fiber quality was determined by sending on or more samples per variety to the Texas Tech Biopolymer Laboratory for HVI analysis.

For unreplicated trials averages are calculated and values in a particular column that are above average are shaded. For replicated trials or trials with subsamples, statistical results are presented. The statistical analysis quantifies the variability of the test site conditions, such as soil type, harvesting, insect damage, etc. A trial location with a large LSD (least significant difference) and large CV (coefficient of variation) indicates a higher degree of variability at the trial location. A CV of 15% or less is generally considered acceptable and means the data are dependable. Trials with a small LSD indicate more consistency within the trial and higher likelihood of identifying differences among varieties. Two varieties that have a difference in yield or other parameter that is smaller than the LSD are not significantly different than each other for that parameter. Likewise, a variety that is within the range of the LSD is not significantly different than the highest variety in the trials. Non-significance is represented as “NS” and indicates no differences among the varieties within the data column at a 5% significance level.



First 40 Days – Fruiting to Finish

The Most Critical Period in Cotton Production Expert Recommendations of Best Management practices for an Efficient, Cost Effective Cotton Production System

Variety Selection

Cultivar selection is the most important decision made in the production enterprise. This decision has a lasting effect on the crop's early-season vigor and on overall plant health and uniformity during the First 40 Days. The crop's ultimate yield and fiber quality potential at harvest begin with variety selection and seed quality.

- ❖ Consider planting disease tolerant varieties, or those that have at least some resistance, where disease is a problem.

Choose Varieties with Genetic Potential for Higher Yield and Excellent Fiber Quality

Yield remains the ultimate measure of the crop, although the ever-increasing demand for higher fiber quality makes this factor a close second in priority. With more than 70% of the U.S. crop exported, fiber quality will become the single most important factor for U.S. cotton in the foreseeable future. International mill standards and specifications are higher than domestic mills.

- ❖ Long staple length – >35 (>1.08 inches)
- ❖ High strength – 28 to 29
- ❖ Premium micronaire – 3.8 to 4.8
- ❖ High uniformity Index – 82
- ❖ Smooth leaf with plant confirmation suitable for efficient harvest – 21/31 Grades 2-3 leaf

Plant Several Varieties: Consider Specific Traits and Crop Maturity after Yield and Quality

Consider planting 3 to 4 varieties to determine which cultivars and trait combinations perform best on your farms. Multiple varieties also minimize the risk of planting the entire farm to a potentially poor performing variety or using traits that do not add value to the individual cropping system.

- ❖ Always evaluate more than one year of variety data prior to planting large acreage to a new cultivar.

Select the Highest Quality Seed for Planting

High quality seed is critical to early success and the crop's ultimate performance. Rapid germination and emergence is best because it narrows the window for seedling disease and minimizes pest impact. In addition to the standard warm germination test, a cool germination test is recommended. Cool/Warm Vigor Index of 160 is best (e.g. 90 warm germ + 70 cool germ – 160)

Early planting into cool soils requires the best vigor index available in the variety you are planting

- ❖ CWVI >160 = Excellent
- ❖ CWVI 140-159 = Good
- ❖ CWVI 120-139 = Fair
- ❖ CWVI <120 = Poor

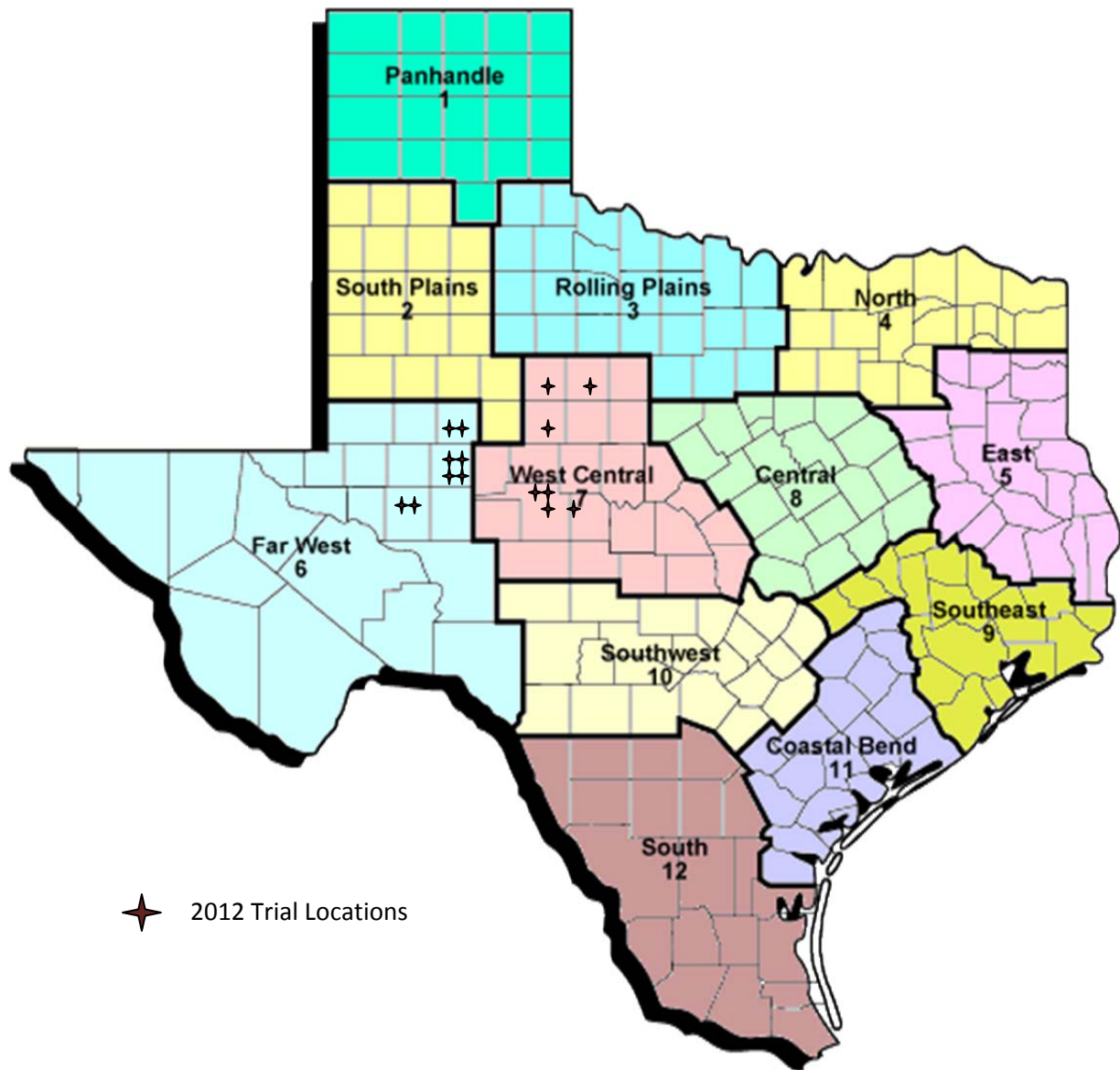


Figure 2. Texas A&M AgriLife Extension Districts with marked cotton variety trial locations by County.

Table 1.

A. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions and area of **2012**
Texas A&M AgriLife **Extension for District 7.**

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Irrigated
Richard Newman	Jones			6 rows, 40" 2X1, 2910ft, Unreplicated	Dryland
Don Martin	Nolan				
Joe Posey	Fisher			1 row, 30" 2X1, 11 ft 7 in long	
Daryl and Doyle Schnier	Tom Green	May, 2012	Oct. 19, 2012	4 rows, 40" X 30', 4 replications in RCBD	SSI under row
Kenny Gully	Tom Green			10 rows, 32" X 410ft, Unreplicated	Pivot
Michael Block	Tom Green	May 25, 2012	Oct. 19, 2012	40" rows, 4 row plots 30ft in length, 4 replications in RCBD	SSI

B. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions and area of **2012**
Texas A&M AgriLife **Extension for Extension District 6.**

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Irrigated
Allan Fuchs	Glasscock	May 24, 2012	Oct. 24, 2012	6 rows, 40" 2X1	SSI 10" pre and 12" in season
Russ and Bo Eggemeyer	Upton	May 22, 2012	Oct. 18, 2012	6 rows, 40" 2X1	SSI 6" pre and 8" in season
Marty Brooks	Howard			8 rows, 40" X 410ft	SSI
Rob Haney	Howard			10 rows, 32" X 410ft, Unreplicated	Dryland
Jerry Hoelscher	Glasscock	June 16, 2012	Nov. 8, 2012	6 rows, 40" 2X1	SSI 5" pre and 10" in season
Chris Hirt	Glasscock	May 29, 2012	Oct. 29, 2012	8 rows, 40" spacing	SSI 9" in season
Darrell Halfmann	Glasscock	May 22, 2012	Oct. 18, 2012	8 rows, 40" spacing	SSI 7" pre and 12" in season
Carl Hoelscher	Glasscock	June 5, 2012	Nov. 7, 2012	10 rows, 40" spacing	Dryland

Table 2.

A. Variety ranking based on lint value/acre, **Extension District 7, 2012.**

Extension District	D7			D7		D7		2012	
County (Cooperator)	Jones (Newman)	Nolan	Fisher	Tom Green (Gully)	Tom Green (Wilde)	Tom Green (Schnier)	Tom Green (Block)	Average	Number
Ave Gross Revenue	\$201.69	\$284.22	\$405.39	\$406.89	\$1,006.55	\$1,166.00	\$702.31	\$596.15	of trials
Number of entries	13	11	15	14	20	24	17	15	entered
Variety (alphabetically)								Rank	
ATX 65207 B2RF					19	21		20	2
ATX 6529 B2RF				14				14	1
ATX Dinero B2RF	9		8	6	12	20		11	4
ATX Edge B2RF	8		6					7	1
ATX Epic RF			11				8	10	1
ATX NITRO B2RF				5	11	22	17	14	4
Croplan 3428 B2F						14		14	1
Croplan 3787 B2F						4		4	1
DG 2570 B2RF					8	15	6	10	3
DG 2595 B2RF					17	11		14	2
DP 0935 B2RF				2	4	6		4	3
DP 1032 B2RF					7	18		13	2
DP 1044 B2 RF	4	1	9				13	7	4
DP 1050 B2RF	10							10	1
DP 11R159 B2RF						7*		7	1
DP 1219 B2 RF	2	4	14	4	3	8	2	5	5
DP 1321 B2RF							7	7	1
DP 1359 B2 RF				3	1		1	2	4
DP 174 RF		3	7					5	2
FM 1740 B2RF					18	12	15	15	3
FM 1944 GLB2	7		3	9	20	19**	4	10	7
FM 2484 B2F				7	15	3	12	9	6
FM 2989 GLB2	12	11	13	12	14	9	16	12	7
FM 9160 B2F	11							11	1
FM 9170 B2F		6	2			2		3	2
NG 0012 B2RF					6	10		8	2
NG 1511 B2 RF	1	5	10	8	2	7*	5	5	6
NG 1550 B2RF				1	10	5		5	3
NG 3348 B2RF	6	9	4					6	1
NG 4012 B2RF	13	8	12					11	1
PHY 333 WRF							11	11	1
PHY 339 WRF							3	3	1
PHY 367 WRF	5	10	1	11	16	16	14	10	7
PHY 375 WRF				13	13	17		14	3
PHY 499 WRF	3		5	10	5	1	9	6	7
PHY 565 WRF		7						7	1
ST 4288 B2RF						13		13	1
ST 4946 GL B2		7					10	9	3
ST 5458 B2RF		2	15		9	19**		11	2

* These varieties have the same gross revenue

**These varieties have the same gross revenue

B. Variety ranking based on lint value/acre, **Extension District 6, 2012.**

Extension District	D6	D6	D6	D6	D6	2012	
County (Cooperator)	Howard (Haney)	Howard (Brooks)	Upton (Eggemeyer)	Glasscock (Fuchs)	Upton (Halfmann)	Average	Number
Ave Gross Revenue	\$158.65	\$628.39	\$721.17	\$740.53	\$1,014.15	\$652.58	of trials
Number of entries	7	15	16	17	12	13	entered
Variety (alphabetically)						Rank	
ATX 91139 B2RF			13	17		15	2
ATX DINERO B2RF			16	12		14	3
ATX Epic RF	1					1	1
ATX NITRO B2RF		9	15	6		10	4
DG 2570 B2RF			1		2	2	2
DP 1032 B2RF		15	12	10		12	3
DP 1044 B2 RF		2	6	15		8	5
DP 1050 B2RF			4	16		10	2
DP 1219 B2 RF		10	5	9	7	8	5
DP 174 RF	5					5	1
FM 1740 B2F					9	9	1
FM 1944 GLB2		5	11	14	4	9	7
FM 2011 GT	7	3				5	2
FM 2484 B2 F		13	3	11	5	8	7
FM 2989 GLB2		4	7	13	3	7	7
FM 9103	6					6	1
FM 9170 B2RF		11	14	8	1	9	5
FM 9180 B2F					12	12	1
FM 9250 GL	3					3	1
NG 1511 B2RF		1		3		2	2
NG 3348		8				8	1
NG 4012 B2RF		12		4		8	2
NG 4111 RF	4					4	1
PHY 367 WRF		7	10	2		6	6
PHY 375 WRF			9	5		7	3
PHY 499 WRF	2	14	2	1	6	5	8
ST 4288 B2F					11	11	1
ST 5458 B2RF		6	8	7	10	8	4
ST 6448 GLB2					8	8	1

Table 3.

A. Variety ranking based on lint yield, **Extension District 7, 2012.**

Extension District	D7	D7	D7	D7	D7	D7	D7	2012	
County (Cooperator)	Jones	Nolan	Fisher	Tom Green (Gully)	Tom Green (Wilde)	Tom Green (Schnier)	Tom Green (Block)	Average	Number
Ave. Trial Yield (lbs/ac)	276	371	506	555	1252	1522	1053	791	of trials
Number of entries	13	11	15	14	20	24	26	18	entered
Variety (alphabetically)								Rank	
AM 1550 B2RF					13	3		8	2
ATX 65207 B2RF				14	16	21	24	19	4
ATX Dinero B2RF	9		8	10	11	24		12	5
ATX Edge B2RF	8		7				19	11	3
ATX Epic RF			9				7	8	2
ATX NITRO B2RF				7	8	23	16	14	4
Croplan 3428 B2F						11		11	1
Croplan 3787 B2F						6		6	1
DG 2570 B2RF					9	12		11	2
DG 2595 B2RF					14	14		14	2
DP 0935 B2RF				2	6	4	6	5	4
DP 1032 B2RF					5	20		13	2
DP 1044 B2 RF	4	1	11				10	7	4
DP 1050 B2RF	10							10	1
DP 11R159 B2RF						9		9	1
DP 1219 B2RF	2	4	15	4	3	8	1	5	7
DP 1359 B2 RF				3	2		3	3	3
DP 174 RF		2	6					4	2
FM 1740 B2F					19	13	23	18	3
FM 1944 GLB2	7		3	11	20	22	9	12	6
FM 2484 B2 F				9	15	7	26	14	4
FM 2989 GLB2	12	11	13	12	18	17	20	15	7
FM 9160 B2F	11							11	1
FM 9170 B2RF		6	2			5	22	9	4
FM 9180 B2F							25	25	1
NG 0012 B2RF					4	15		10	2
NG 1032 B2RF							14	14	1
NG 1511 B2RF	1	5	10	5	1	2	4	4	7
NG 1550 B2RF				1				1	1
NG 3348 B2RF	6	9	5					7	3
NG 4012 B2RF	13	7	12				15	12	4
PHY 339 WRF							17	17	1
PHY 367 WRF	5	10	1	8	17	10	21	10	7
PHY 375 WRF				13	12	16	8	12	4
PHY 499 WRF	3		4	6	7	1	2	4	6
PHY 565 WRF		8						8	1
ST 4288 B2RF						19	13	16	2
ST 4946 GL B2							5	5	1
ST 5458 B2RF		3	14		10	18	11	11	5
ST 6448 GLB2							12	12	1

B. Variety ranking based on lint yield, **Extension District 6, 2012.**

Extension District	D6	D6	D6	D6	D6	2012	
County (Cooperator)	Howard (Haney)	Howard (Brooks)	Glasscock (Fuchs)	Upton (Eggemeyer)	Upton (Halfmann)	Average	Number
Ave. Trial Yield (lbs/ac)	226	834	1320	1375	1773	1106	of trials
Number of entries	7	15	17	16	12	13	entered
Variety (alphabetically)						Rank	
ATX 91139 B2RF			17	13		15	2
ATX DINERO B2RF			12	16		14	2
ATX Epic RF	1					1	1
ATX NITRO 44 B2RF		9	6	15		10	3
DG 2570 B2RF				1	2	2	2
DP 1032 B2RF		15	10	12		12	3
DP 1044 B2RF		2	15	6		8	3
DP 1219 B2RF		10	9	5	7	8	4
DP 174 RF	5					5	1
DPL 1050 B2RF			16	4		10	2
FM 1740 B2F					9	9	2
FM 1944 GLB2		5	14	11	4	9	4
FM 2011 GT	7	3				5	2
FM 2484 B2 F		13	11	3	5	8	4
FM 2989 GLB2		4	13	7	3	7	4
FM 9103	6					6	1
FM 9170 B2RF		11	8	14	1	9	4
FM 9180 B2F					13	13	1
FM 9250 GL	3					3	1
NG 1511 B2RF		1	3			2	2
NG 3348		8				8	1
NG 4012 B2RF		12	4			8	2
NG 4111 RF	4					4	1
PHY 367 WRF		7	2	10		6	3
PHY 375 WRF			5	9		7	2
PHY 499 WRF	2	14	1	2	6	5	5
ST 4288 B2F					12	12	1
ST 5458 B2RF		6	7	8	10	8	4
ST 6448 GLB2					8	8	1

Table 4. Summary of agronomic characteristics for the 39 varieties and experimental varieties tested in the 2013 San Angelo Uniform Irrigated Small Plot Variety Trial (M. Block, cooperator). Continued on next page.

2012 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial										
						Rating Scale 1=poor 10 = excellent				
Variety	Lint yld lbs/acre	Seed yld lbs/acre	Lint % turn	Seed % turn	Stand Count plts/ac	Seedling vigor (scale)	Percent open Sept. 12	Bolls/row ft	Bolls/plant	Storm resistance
FM 9180 B2F	917	1503	0.28	0.46	38881	7.8	93.9	19.6	7.0	6.8
FM 2484 B2F	895	1392	0.28	0.44	36267	6.3	55.6	19.6	6.0	5.0
FM 1740 B2F	941	1392	0.29	0.44	34960	8.0	78.0	19.7	5.6	7.0
FM 9170 B2F	949	1504	0.29	0.47	41168	7.8	58.2	25.9	6.9	5.0
FM 2989 GLB2	989	1623	0.28	0.46	35287	6.3	46.3	13.5	6.8	7.5
FM 1944 GLB2	1060	1623	0.30	0.46	30713	6.5	66.7	17.5	5.7	6.0
FM 1944 GLB2 PV*	1014	1671	0.28	0.47	40842	7.3	63.3	19.3	6.1	5.3
ST 6448 GLB2	1038	1488	0.32	0.46	38881	7.0	56.6	20.5	8.8	4.7
BX 1347 GLB2	1043	1616	0.29	0.46	39861	6.0	75.5	16.3	4.9	6.0
ST 4946 GLB2	1188	1669	0.32	0.46	32347	6.7	54.2	21.7	6.0	5.5
ST 5458 B2RF	1053	1607	0.30	0.46	37574	7.3	49.0	17.0	5.1	6.0
ST 4288 B2F	1026	1690	0.29	0.48	35287	7.7	47.9	19.9	6.9	6.0
DP 1219 B2RF	1266	1840	0.31	0.45	45089	7.7	47.2	23.6	8.8	6.0
DP 11R136 B2RF	974	1536	0.29	0.45	33654	6.3	44.2	20.1	8.7	4.0
DP 11R154 B2R2	1149	1713	0.30	0.45	34634	7.0	26.5	18.7	6.1	7.0
Continued on next page										

Variety	Rating Scale 1=poor 10 = excellent										
	Lint yld	Seed yld			Stand Count	Seedling	Percent open				Storm
	lbs/acre	lbs/acre	Lint % turn	Seed % turn	plts/ac	vigor (scale)	Sept. 12	Bolls/row ft	Bolls/plant	resistance	
DP 0935 B2RF	1167	1652	0.31	0.43	35288	6.7	53.1	16.1	4.9	4.5	
DP 1032 B2RF	1022	1421	0.32	0.44	38881	6.0	55.4	21.7	6.2	6.3	
DP 1044 B2RF	1056	1660	0.29	0.45	40515	7.0	37.5	22.2	5.3	7.3	
DP 1359 B2RF	1198	1703	0.30	0.43	40842	5.7	63.3	22.6	7.0	6.3	
NG 4012 B2RF	1017	1493	0.31	0.46	36267	7.0	83.0	18.5	6.7	7.0	
NG 1511 B2RF	1198	1609	0.33	0.44	39535	7.5	82.4	18.5	6.4	7.0	
PHX 3074-04 WRF	1108	1629	0.31	0.45	41168	6.8	64.2	20.5	5.9	7.5	
PHX 5322-11 WRF	1051	1609	0.29	0.44	41822	6.0	63.3	17.8	7.0	4.0	
PHX 4339-CB WRF	1105	1578	0.32	0.45	36594	6.7	89.8	25.0	6.1	5.7	
PHX 4339-15 WRF	993	1511	0.29	0.44	42149	5.7	77.1	23.0	6.9	7.0	
PHY 499 WRF	1214	1694	0.31	0.43	36267	6.3	63.2	19.5	6.3	4.5	
PHY 367 WRF	960	1440	0.29	0.44	38228	7.0	75.5	20.9	7.6	6.0	
PHY 339 WRF	1015	1402	0.32	0.44	36267	5.8	79.6	25.9	9.0	4.3	
PHY 375 WRF	1081	1508	0.31	0.44	35287	7.5	80.7	21.4	8.1	3.3	
ATX CR103233	987	1453	0.30	0.44	35287	7.5	76.5	25.5	10.2	6.0	
ATX 65207 B2RF	927	1426	0.29	0.45	33654	8.3	69.2	23.5	7.4	6.0	
ATX 11WSTR357	988	1590	0.29	0.47	30059	7.7	79.2	18.6	5.3	7.0	
ATX 91239	1025	1538	0.30	0.45	38555	8.0	59.6	22.3	6.5	7.0	
ATX 784381	1012	1604	0.29	0.46	31366	7.0	55.8	17.8	5.8	7.3	
ATX 9CR253	1142	1632	0.30	0.42	39208	7.7	50.0	22.2	6.0	7.7	
ATX Edge	1013	1700	0.28	0.47	36921	7.3	92.0	26.1	8.3	8.0	
ATX Nitro 44 B2RF	1016	1646	0.29	0.47	39861	7.3	67.3	17.3	8.7	8.0	
ATX 1546	1022	1617	0.29	0.45	36921	7.5	61.5	28.4	7.4	7.5	
ATX Epic RF	1154	1655	0.31	0.45	37574	7.0	68.8	19.9	6.0	7.7	
ATX 10WR585	1032	1431	0.29	0.41	31040	7.3	68.6	18.8	10.2	6.3	
Average	1050	1577	0.30	0.45	37125	7.0	64.5	20.7	6.9	6.2	
P>(F) ⁶	0.001	0.001	0.002	0.001	0.105	0.001				0.001	
LSD (P=0.05)	133	189	0.019	0.015	NS	1.25				1.470	
CV %	9.0	8.6	4.5	2.7	15.9	11.1				19.3	
*PV = PonchoVotivo seed treatment											

Southern Rolling Plains, D7

Table 5.

		2012 Dryland Cotton Variety Trial				Texas A&M AgriLife Extension								
Name of County:	Jones (253)				Design:	6 rows, 40" 2X1 , 2910ft, Unreplicated								
District number:	7				Irrigation:	Dryland								
Year:	2012				Fertility:									
Producer:	Richard Newman, Stamford, TX				Herbicide:									
Plant Date:					Harvest Aids:									
Harvest Date:					Fiber Quality					Lint	Seed	Total		
	Yield Per Acre				Fiber					CCC	Gross	Gross	Gross	
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tx)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	
NG 1511 B2RF	413	559	0.37	0.50	31-3	1.02	4.6	28.9	80.3	\$51.70	\$213.65	\$83.90	\$265.35	
PHY 499 WRF	371	542	0.34	0.49	21-1	1.05	4.8	30.5	81.8	\$54.40	\$201.83	\$81.36	\$256.23	
DP 1219 B2RF	372	591	0.32	0.52	21-2	1.05	4.1	31.1	78.1	\$53.90	\$200.00	\$88.58	\$253.90	
DP 1044 B2RF	343	602	0.30	0.53	31-2	1.08	4.2	30.1	80.2	\$56.15	\$192.70	\$90.35	\$248.85	
NG 3348 B2RF	301	495	0.32	0.53	31-4	1.10	4.5	31.6	81.7	\$53.80	\$163.23	\$74.27	\$217.03	
PHY 367 WRF	302	450	0.34	0.51	31-3	1.05	4.6	28.0	79.6	\$53.00	\$159.94	\$67.46	\$212.94	
FM 1944 B2F	270	458	0.30	0.51	31-2	1.09	4.4	30.1	79.7	\$55.50	\$150.00	\$68.77	\$205.50	
DP 1050 B2RF	251	393	0.34	0.53	21-3	1.10	4.1	29.4	80.6	\$56.00	\$140.72	\$58.99	\$196.72	
ATX Edge B2RF	269	484	0.30	0.54	31-3	1.06	4.5	30.4	78.7	\$52.95	\$142.23	\$72.62	\$195.18	
ATX Dinero B2RF	269	453	0.32	0.54	31-2	1.04	4.4	27.0	79.1	\$51.30	\$137.89	\$67.95	\$189.19	
FM 9160 B2F	171	309	0.27	0.49	31-3	1.12	4.0	29.6	81.0	\$56.35	\$96.61	\$46.29	\$152.96	
NG 4012 B2RF	114	215	0.28	0.53	31-4	1.13	4.1	33.8	81.9	\$55.20	\$63.09	\$32.31	\$118.29	
FM 2989 B2RF	127	257	0.26	0.53	31-5	1.08	3.0	28.6	78.8	\$48.45	\$61.37	\$38.54	\$109.82	
Average	275	447	0.31	0.52	-	1.07	4.3	29.9	80.1	\$53.75	\$147.94	\$67.03	\$201.69	
Max.	413	602	0.37	0.54	-	1.13	4.80	33.8	81.9	\$56.35	\$213.65	\$90.35	\$265.35	
Min.	114	215	0.26	0.49	-	1.02	3.00	27.0	78.1	\$48.45	\$61.37	\$32.31	\$109.82	
Values that are average or above in a column are background highlighted														
Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.														
Gross Seed Return based on \$300/ton														
For Questions Contact: Steve Estes (325)823-2432 or Dr. David Drake (325)653-4576														

Table 6.

		2012 Irrigated Cotton Variety Trial								Texas A&M AgriLife Extension				
Name of County:	Nolan (353)									Design:				
District number:	7									Irrigation:				
Year:	2012									Fertility:				
Producer:										Herbicide:				
Plant Date:										Harvest Aids:				
Harvest Date:														
						Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber					CCC	Gross	Gross	Gross
	In Pounds	% Turnout			Color-	Length		Strength		Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	
DP 1219 B2RF	410	628	0.27	0.41	31-2	1.08	4.0	28.2	79.8	\$55.35	\$226.76	\$94.16	\$320.93	
FM 9170 B2RF	361	568	0.27	0.42	31-2	1.07	3.7	28.3	79.2	\$53.10	\$191.81	\$85.24	\$277.06	
DP 174 RF	458	749	0.25	0.40	31-2	1.03	3.8	26.4	78.0	\$51.10	\$234.11	\$112.33	\$346.45	
ST 5458 B2RF	449	744	0.25	0.41	31-2	1.05	4.0	27.3	79.6	\$53.25	\$239.27	\$111.67	\$350.95	
FM 2989 GLB2	275	463	0.23	0.39	31-2	1.00	4.2	27.3	76.8	\$49.30	\$135.74	\$69.38	\$205.12	
NG 4012 B2RF	328	531	0.25	0.40	31-3	1.06	4.0	28.3	79.4	\$53.15	\$174.44	\$79.63	\$254.06	
NG 1511 B2RF	399	586	0.27	0.40	32-3	1.01	4.3	27.8	80.4	\$48.95	\$195.15	\$87.89	\$283.04	
DP 1044 B2RF	469	762	0.25	0.40	31-3	1.05	4.1	28.0	79.2	\$53.15	\$249.36	\$114.32	\$363.68	
NG 3348 B2RF	306	513	0.25	0.41	32-1	1.05	3.9	27.1	79.9	\$51.40	\$157.37	\$76.98	\$234.35	
PHY 367 WRF	304	511	0.24	0.41	32-3	1.04	4.1	27.5	79.2	\$50.00	\$151.98	\$76.65	\$228.63	
PHY 565	326	590	0.24	0.43	31-3	1.05	3.8	29.2	79.5	\$53.25	\$173.59	\$88.55	\$262.14	
Average	371	604	0.25	0.41	-	1.04	3.96	27.76	79.18	52.00	\$193.60	\$90.62	\$284.22	
Max.	469	762	0.27	0.43	-	1.08	4.27	29.20	80.40	55.35	\$249.36	\$114.32	\$363.68	
Min.	275	463	0.23	0.39	-	1.00	3.65	26.40	76.80	48.95	\$135.74	\$69.38	\$205.12	

Table 7.

		2012 Irrigated Cotton Variety Trial								Texas A&M AgriLife Extension			
Name of County:	Fisher					Design:	1 row, 30" 2X1, 11 ft 7 in long						
District number:	7					Irrigation:							
Year:	2012					Fertility:							
Producer:	Joe Posey					Herbicide:							
Plant Date:						Harvest Aids:							
Harvest Date:													
		Fiber Quality								Lint	Seed	Total	
Yield Per Acre						Fiber				CCC	Gross	Gross	Gross
In Pounds		% Turnout		Color-	Length	Mic	Strength	Uniformity	Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	(gram/tex)		Value	(\$/acre)	(\$/acre)	(\$/acre)	
DP 1044 B2RF	456	822	0.29	0.52	21-2	1.11	3.9	29.4	81.7	\$57.55	\$262.40	\$123.24	\$385.64
DP 1219 B2RF	377	656	0.29	0.50	21-2	1.10	3.3	31.2	79.6	\$54.50	\$205.28	\$98.46	\$303.73
DP 174 RF	520	762	0.38	0.55	21-1	1.09	3.6	28.7	79.5	\$55.95	\$290.84	\$114.32	\$405.16
NG 4012 B2RF	425	676	0.35	0.56	21-1	1.07	3.8	28.3	80.8	\$54.25	\$230.62	\$101.43	\$332.05
NG 3348	553	887	0.35	0.56	21-1	1.10	3.7	30.2	81.8	\$56.75	\$313.60	\$133.05	\$446.66
NG 1511	473	759	0.35	0.56	21-1	1.10	3.6	30.4	81.1	\$56.75	\$268.49	\$113.92	\$382.41
ST 5458	399	643	0.35	0.57	21-1	1.06	3.5	28.6	79.7	\$51.75	\$206.32	\$96.48	\$302.79
FM 2989 GLB2	412	700	0.33	0.56	21-1	1.12	3.2	30.7	80.2	\$54.10	\$222.83	\$105.07	\$327.90
FM 9170 B2RF	667	1088	0.35	0.58	21-1	1.17	3.4	33.2	82.2	\$56.15	\$374.75	\$163.22	\$537.96
FM 1944 GLB2	601	1040	0.33	0.58	21-3	1.16	3.3	31.4	79.4	\$53.20	\$319.90	\$155.95	\$475.85
PHY 367 WRF	694	1128	0.36	0.59	21-2	1.10	3.5	30.6	80.3	\$56.75	\$393.75	\$169.16	\$562.91
PHY 499 WRF	559	811	0.38	0.55	21-1	1.09	3.9	31.2	82.1	\$57.10	\$319.46	\$121.59	\$441.04
ATX EDGE	498	971	0.27	0.52	31-2	1.08	3.6	30.2	80.1	\$56.00	\$278.77	\$145.70	\$424.47
ATX DINERO	476	813	0.33	0.56	21-1	1.09	4.1	28.9	80.7	\$56.60	\$269.29	\$121.92	\$391.20
ATX EPIC RF	474	711	0.28	0.43	31-1	1.06	3.5	29.7	81.7	\$53.70	\$254.31	\$106.72	\$361.02
Average	506	831	0	1	-	1	4	30	81	\$55.41	\$280.71	\$124.68	\$405.39
Max.	694	1128	0	1	-	1	4	33	82	\$57.55	\$393.75	\$169.16	\$562.91
Min.	377	643	0	0	-	1	3	28	79	\$51.75	\$205.28	\$96.48	\$302.79

Table 8.

2012 Cotton Variety Trial					Texas A&M AgriLife Extension									
Name of County:	Tom Green (451)				Design:	10 rows, 32" X 410ft, Unreplicated								
District number:	7				Irrigation:									
Year:	2012				Fertility:									
Producer:	Kenny Gully				Herbicide:									
Plant Date:					Harvest Aids:									
Harvest Date:					Fiber Quality									Lint
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	
In Pounds		% Turnout			Color-	Length			Strength	Loan	Return	Return ⁴	Return	
Variety ¹	Lint	Seed	Lint	Seed	Leaf	Mic	(staple)	Uniformity	(gram/tex)	Value	(\$/acre)	(\$/acre)	(\$/acre)	
NG 1550 B2RF	661*	933	0.34	0.49	42-2	4.7	1.01	80.7	26.3	\$48.15	\$318.06	\$139.96	\$458.01	
DP 0935 B2RF	635*	987	0.31	0.48	41-2	4.5	1.01	79.5	28	\$48.55	\$308.31	\$148.08	\$456.39	
DP 1359 B2RF	606*	896	0.33	0.48	41-1	4.6	1.07	80.6	30	\$52.80	\$319.89	\$134.47	\$454.36	
DP 1219 B2RF	590*	903	0.31	0.47	41-2	4.6	1.07	78	30.2	\$51.95	\$306.46	\$135.46	\$441.91	
ATX Nitro 44	551	912	0.29	0.49	41-5	4	1.09	80.8	33	\$51.10	\$281.44	\$136.76	\$418.20	
ATX Dinero B2RF	534	919	0.31	0.53	41-3	4.6	1.06	79.4	28.1	\$52.00	\$277.66	\$137.80	\$415.46	
FM 2484 B2F	538	834	0.31	0.48	41-3	4.1	1.1	80.7	30	\$53.90	\$289.79	\$125.04	\$414.83	
NG 1511 B2RF	571*	819	0.3	0.43	41-5	4.5	1.02	80.6	31.4	\$49.15	\$280.64	\$122.84	\$403.48	
FM 1944 B2F	523	839	0.3	0.48	31-3	4.7	1.07	79.7	27.1	\$53.00	\$277.33	\$125.89	\$403.22	
PHY 499 WRF	567*	737	0.31	0.45	42-3	4.3	1.05	79.8	30.5	\$50.25	\$285.15	\$110.61	\$395.76	
PHY 367 WRF	551	824	0.32	0.47	42-4	4.4	0.99	80.5	28.1	\$47.55	\$262.19	\$123.55	\$385.74	
FM 2989 GLB2	498	786	0.3	0.47	41-2	4.6	1.08	80.1	29.2	\$53.55	\$266.94	\$117.86	\$384.80	
PHY 375 WRF	497	639	0.31	0.45	41-3	4.7	1.02	79.9	28.8	\$50.00	\$248.48	\$95.85	\$344.33	
ATX 65207 B2RF	445	724	0.28	0.46	42-4	4.4	1.01	80.1	28.7	\$47.55	\$211.37	\$108.62	\$319.99	
Average	555	839	0.31	0.48	-	4.5	1.05	80.3	29.2	\$50.68	\$280.98	\$125.91	\$406.89	
P>(F) ⁵	0.096	0.132	-	-	-	-	-	-	-	-	-	-	-	
Lsd (0.05 or 0.10)	101	n.s.	-	-	-	-	-	-	-	-	-	-	-	
C.V.	13.2	15.2	-	-	-	-	-	-	-	-	-	-	-	

¹ Values for varieties shaded in gray or marked with (*) are not significantly different than the highest treatment in the column

² Fiber quality analysis conducted by sending a single ginned fiber subsample for HVI at the Fiber and biopolymer Research Institute, Texas Tech University, Lubbock, TX.

³ color and leaf grade based on a single sample.

⁴ Gross Seed Return based on \$300/ton

⁵ The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties Differences between varieties that are greater than the LSD indicate a significant difference between the them for the measurement in a column. n.s. indicates no statistical difference among the treatments for that particular measurement/column.

Table 9.

					2012 Dryland Cotton Variety Trial				Texas A&M AgriLife Extension					
Name of County:	Tom Green (451)				Design:									
District number:	7				Irrigation:									
Year:	2012				Fertility:									
Producer:	John and Doug Wilde				Herbicide:									
Plant Date:					Harvest Aids:									
Harvest Date:					Fiber Quality									
	Yield Per Acre				-----						Lint	Seed	Total	
	In Pounds		% Turnout			Fiber				CCC	Gross	Gross	Gross	
	-----				Color-	Length		Strength		Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	
DP 1359 B2RF	1469	2352	32.0	51.2	312	1.21	4.2	33.4	83.5	\$57.60	\$846.14	\$352.80	\$1,198.94	
NG 1511 B2RF	1523	2375	32.2	50.2	413	1.16	4.4	33.5	83.3	\$54.60	\$831.56	\$356.25	\$1,187.81	
DP 1219 B2RF	1384	2107	32.6	49.6	312	1.21	4.1	35.3	82.3	\$57.50	\$795.80	\$316.05	\$1,111.85	
DP 0935 B2RF	1323	2192	33.0	54.7	313	1.14	4.1	31.9	82.4	\$56.75	\$750.80	\$328.95	\$1,079.75	
PHY 499 WRF	1315	2433	29.1	53.8	414	1.19	4.5	35.3	84.9	\$54.05	\$710.76	\$364.95	\$1,075.71	
NGX 0012 B2RF	1362	1920	35.7	50.3	312	1.19	4.5	31.9	84.6	\$57.50	\$783.15	\$288.00	\$1,071.15	
DP 1032 B2RF	1359	2022	33.9	50.4	314	1.21	4.2	34.1	82.9	\$55.40	\$752.89	\$303.30	\$1,056.19	
DG 2570 B2RF	1311	2417	30.5	56.3	423	1.13	3.9	33.4	83.0	\$52.45	\$687.62	\$362.55	\$1,050.17	
ST 5458 B2RF	1240	2333	27.3	51.3	413	1.15	4.0	32.7	81.7	\$54.50	\$675.80	\$349.95	\$1,025.75	
AM 1550 B2RF	1219	2139	29.6	51.9	313	1.12	4.2	30.6	82.0	\$56.65	\$690.56	\$320.85	\$1,011.41	
All Tx Nitro 44 B2RF	1314	2369	29.0	52.3	515	1.21	4.0	35.7	83.3	\$49.70	\$653.06	\$355.35	\$1,008.41	
All Tx Dinero B2RF	1237	2201	29.8	53.0	414	1.14	4.1	30.7	82.4	\$53.80	\$665.51	\$330.15	\$995.66	
PHY 375 WRF	1223	2119	29.8	51.6	413	1.18	4.1	31.8	83.5	\$54.70	\$668.98	\$317.85	\$986.83	
FM 2989 GLB2	1101	2111	28.1	53.9	313	1.18	4.2	33.4	83.3	\$57.05	\$628.12	\$316.65	\$944.77	
FM 2484 B2F	1175	2203	26.1	49.0	415	1.24	3.8	35.1	84.1	\$51.95	\$610.41	\$330.45	\$940.86	
PHY 367 WRF	1135	2073	27.6	50.4	414	1.19	4.1	33.4	83.3	\$54.10	\$614.04	\$310.95	\$924.99	
DG 2595 B2RF	1206	2185	27.2	49.2	417	1.16	4.2	33.9	82.3	\$47.25	\$569.84	\$327.75	\$897.59	
FM 1740 B2F	1055	1871	31.2	55.3	313	1.13	4.3	32.3	82.7	\$56.60	\$597.13	\$280.65	\$877.78	
All Tx 65207 B2RF	1149	2045	28.8	51.2	425	1.11	4.2	30.7	83.6	\$49.60	\$569.90	\$306.75	\$876.65	
FM 1944 GLB2	942	1912	25.5	51.7	314	1.22	4.1	33.9	82.9	\$55.40	\$521.87	\$286.80	\$808.67	
Average	1252	2169	30.0	51.9	375	1.17	4.2	33.2	83.1	\$54.36	\$681.20	\$325.35	\$1,006.55	
Max	1523	2433	35.7	56.3	515	1.24	4.5	35.7	84.9	\$57.60	\$846.14	\$364.95	\$1,198.94	
Min	942	1871	25.5	49.0	312	1.11	3.8	30.6	81.7	\$47.25	\$521.87	\$280.65	\$808.67	

Table 10. Continues onto next page.

		2012 Irrigated Cotton Variety Trial								Texas A&M AgriLife Extension				
Name of County:	Tom Green (451)					Design:	4 rows, 40" X 30', 4 replications in RCBD							
District number:	7					Irrigation:	SSI on 40" spacing under row							
Year:	2012					Fertility:								
Producer:	Schniers					Herbicide:	Seed treatments							
Plant Date:	May , 2012					Harvest Aids:								
Harvest Date:	Oct. 19, 2012													
Fiber Quality ²														
		Yield Per Acre										Lint	Seed	Total
		In Pounds		% Turnout						CCC	Gross	Gross	Gross	
						Color-	Fiber			Strength	Loan	Return	Return ⁵	Return
Variety ¹	Lint	Seed	Lint	Seed	Leaf ³	Mic	(staple)	Uniformity	(gram/tex)	Value ⁴	(\$/acre)	(\$/acre)	(\$/acre)	
PHY 499 WRF	1753a	2564	29.5a	43.2	41-2*	4.60a	1.10	82.2	32.3	\$53.43	\$937	\$385	\$1,321	
FM 9170 B2F	1624a	2728	28.2	47.4	41-4	3.85	1.16	81.8	31.8	\$53.90	\$875	\$409	\$1,285	
FM 2484 B2F	1618a	2421	30.9a	46.1	31-2*	3.80	1.17a	82.3a	31.9	\$55.98a	\$906	\$363	\$1,269	
Croplan 3787 B2F	1622a	2345	30.1a	43.5	31-1*	4.25	1.12	83.0a	29.8	\$55.23a	\$896	\$352	\$1,247	
AM 1550 B2RF	1659a	2504	29.7a	44.9	41-2*	4.40a	1.06	81.2	28.6	\$52.50	\$871	\$376	\$1,246	
DP 0935 B2RF	1658a	2600	28.9	45.3	42-2*	4.30	1.09	81.2	29.3	\$51.23	\$849	\$390	\$1,239	
DP 11R159 B2R2	1556a	2433	28.6	44.7	31-2*	4.30	1.14	81.2	32.3	\$55.48a	\$863	\$365	\$1,228	
NG 1511 B2RF	1676a	2328	30.9a	42.9	41-3*	4.65a	1.09	81.8	30.2	\$52.45	\$879	\$349	\$1,228	
DP 1219 B2RF	1561a	2502	27.5	44.0	41-2*	4.00	1.13	81.5	32.1	\$54.45a	\$850	\$375	\$1,225	
FM 2989 GLB2	1482	2576	27.0	47.0	41-4	4.05	1.12	81.2	30.4	\$53.50	\$793	\$386	\$1,179	
NGX 0012 B2RF	1507	2228	29.8a	43.7	31-2*	4.15	1.14	83.2a	30.0	\$55.88a	\$842	\$334	\$1,176	
DG 2595 B2RF	1510	2386	29.2a	46.1	41-2*	4.60a	1.11	82.6a	30.3	\$54.08a	\$817	\$358	\$1,175	
FM 1740 B2F	1513	2398	29.0	46.0	41-4	4.35	1.10	81.5	29.1	\$52.95	\$801	\$360	\$1,161	
ST 4288 B2RF	1444	2580	27.6	49.4a	41-2*	4.50a	1.10	81.2	29.2	\$53.48	\$772	\$387	\$1,159	
Croplan 3428 B2F	1515	2242	29.2a	43.3	41-3*	4.30	1.18a	82.8a	29.8	\$53.83	\$815	\$336	\$1,152	
DG 2570 B2RF	1514	2347	30.5a	47.2	42-1	4.35	1.09	83.1a	30.2	\$51.50	\$780	\$352	\$1,132	
PHY 367 WRF	1533	2418	28.2	44.4	52-3	4.30	1.10	81.0	29.7	\$48.78	\$748	\$363	\$1,111	
PHY 375 WRF	1497	2266	29.8a	45.1	41-2*	4.35	1.06	81.7	29.4	\$51.45	\$770	\$340	\$1,110	
DP 1032 B2RF	1441	2194	27.7	42.2	41-3*	4.25	1.11	81.5	29.9	\$53.85	\$776	\$329	\$1,105	
ST 5458 B2RF	1445	2367	27.0	44.2	42-4*	4.50a	1.10	80.7	29.5	\$49.85	\$720	\$355	\$1,075	
FM 1944 GLB2	1353	2285	27.6	46.6	41-2*	4.15	1.15	80.6	29.3	\$54.15a	\$733	\$343	\$1,075	
All Tx Dinero B2RF	1329	2280	26.7	46.0	41-3*	4.25	1.09	81.4	28.8	\$53.28	\$708	\$342	\$1,050	
All Tx 65207 B2RF	1371	2308	27.8	46.9	42-4*	4.15	1.10	81.8	30.2	\$49.13	\$674	\$346	\$1,020	
All Tx Nitro 44 B2RF	1340	2334	27.1	47.3	41-5*	3.70	1.18a	82.2	33.5a	\$49.73	\$666	\$350	\$1,016	
Average	1522	2401	28.7	45.3	-	4.25	1.11	81.8	30.3	\$52.92	\$806	\$360	\$1,166	
P>(F) ⁶	0.004	0.010	0.035	0.001	-	0.001	0.001	0.018	0.001	0.001	-----	min/max	-----	
LSD (P=0.05)	208	n.s.	1.73	1.16	-	0.209	0.023	0.95	1.05	\$1.92	\$666	\$329	\$1,016	
CV %	9.7	9.3	4.3	1.8	-	3.49	1.5	0.8	2.5	2.56	\$937	\$409	\$1,321	

Schniers Data continued:

Acknowledgements of assistance from Michael Block, Producer; Rick Minzenmayer, Pam Halfmann, Dr. Chris Sansone, Justin Mullens, Travis Holle and the sponsoring companies.

¹ Values for varieties shaded in yellow or marked by an (a) are not significantly different than the highest treatment in the column and values shaded in orange are above average for that parameter/column

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Mention of a trademark or a proprietary product does not constitute an endorsement of the product by Texas A&M AgriLife Extension Service and does not imply its approval to the exclusion of other products that also may be suitable. Abbreviations include: All-Tex (ATX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), FiberMax (FM), Glytol (G), Liberty Link (L)

NexGen (NG), Phytogen (PHY), Poncho Votivo seed treatment (PV), Roundup Flex (F or RF), Stoneville (ST), and Widestrike (W).

² Fiber quality analysis conducted with a minimum of two ginned fiber subsamples by HVI at the Fiber and biopolymer Research Institute, Texas Tech University, Lubbock, TX

³ color and leaf grade based on a minimum of two samples. Values followed by an (*) indicate a difference between the samples.

⁴ CCC loan value based on cotton stored at Lubbock, TX. Base \$51.70

⁵ Gross Seed Return based on \$300/ton

⁶ The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties

Differences between varieties that are greater than the LSD indicate a significant difference between the them for the measurement in a column.

n.s. indicates no statistical difference among the treatments for that particular measurement/column

Table 11. Continues onto next page.

A.

		2012 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension							
Name of County:	Tom Green ()					Design:	40" rows, 4 row plots 30ft in length, 4 replications in RCBD							
District number:	7					Irrigation:	SSI							
Year:	2012					Fertility:	Seed treatments							
Producer:	Michael Block					Herbicide:								
Plant Date:	May 25, 2012													
Harvest Date:	Oct. 19, 2012						Fiber Quality ²							
	Yield Per Acre	-----										Lint	Seed	Total
	In Pounds	% Turnout				Fiber	CCC				Gross	Gross	Gross	
	-----	-----				Color-	Length	Strength			Loan	Return	Return ⁵	Return
Variety ¹	Lint	Seed	Lint	Seed	Leaf ³	(staple)	Mic	gram/tex	Uniformity	Value ⁴	(\$/acre)	(\$/acre)	(\$/acre)	
DP 1219 B2RF	1266 a	1840 a	0.31 a	0.45	31-3*	1.08	4.50	30.2	80.5	\$55.13	\$697.90	\$276.02	\$973.92	
PHY 499 WRF	1214 a	1694 a	0.31 a	0.43	32-4*	1.06	4.74	30.7	82.6 a	\$50.43	\$612.23	\$254.17	\$866.41	
DP 1359 B2RF	1198 a	1703 a	0.30	0.43	31-3*	1.04	4.59	28.7	79.4	\$51.48	\$616.55	\$255.51	\$872.06	
NG 1511 B2RF	1198 a	1609	0.33 a	0.44	32-3	1.02	4.88 a	28.7	80.5	\$49.47	\$592.76	\$241.30	\$834.06	
ST 4946 GLB2	1188 a	1669 a	0.32 a	0.46	32-3*	1.07	4.70	29.9	82.6 a	\$52.28	\$621.03	\$250.28	\$871.31	
DP 0935 B2RF	1167 a	1652 a	0.31	0.43	22-3*	1.04	4.66	27.3	79.8	\$51.70	\$603.08	\$247.78	\$850.85	
ATX Epic RF	1154 a	1655 a	0.31 a	0.45	32-4*	1.05	4.68	28.9	81.7 a	\$50.95	\$587.94	\$248.26	\$836.21	
PHY 375 WRF	1081	1508	0.31 a	0.44	42-2*	1.02	4.78	27.1	81.1	\$49.10	\$530.60	\$226.27	\$756.87	
FM 1944 GLB2	1060	1623	0.30	0.46 a	31-3*	1.08	4.57	28.9	80.6	\$54.25	\$575.24	\$243.40	\$818.64	
DP 1044 B2RF	1056	1660 a	0.29	0.45	31-2	1.05	4.58	27.3	81.6 a	\$52.70	\$556.39	\$248.93	\$805.32	
ST 5458 B2RF	1053	1607	0.30	0.46	32-3*	1.02	4.89 a	27.8	78.6	\$48.63	\$512.26	\$241.11	\$753.37	
ST 6448 GLB2	1038	1488	0.32 a	0.46	31-3*	1.07	4.76	26.5	80.4	\$53.47	\$555.24	\$223.25	\$778.49	
ST 4288 B2F	1026	1690 a	0.29	0.48 a	32-3*	1.04	4.70	27.3	79.9	\$50.58	\$518.75	\$253.50	\$772.25	
DP 1032 B2RF	1022	1421	0.32 a	0.44	32-2*	1.06	4.66	27.8	80.9	\$51.98	\$531.35	\$213.13	\$744.48	
NG 4012 B2RF	1017	1493	0.31 a	0.46	32-3*	1.05	4.68	28.8	81.8 a	\$51.03	\$518.69	\$223.89	\$742.57	
ATX Nitro 44 B2RF	1016	1646	0.29	0.47 a	42-5*	1.11 a	3.83	31.5 a	81.9 a	\$48.23	\$490.23	\$246.87	\$737.10	
PHY 339 WRF	1015	1402	0.32 a	0.44	31-3*	1.06	4.32	29.5	81.2	\$53.68	\$545.13	\$210.24	\$755.37	
FM 1944 GLB2 PV	1014	1671 a	0.28	0.47 a	31-3*	1.08	4.52	28.9	79.8	\$53.53	\$542.76	\$250.70	\$793.46	
ATX Edge	1013	1700 a	0.28	0.47 a	32-3*	1.03	4.41	27.6	78.8	\$49.23	\$498.90	\$254.99	\$753.89	
FM 2989 GLB2	989	1623	0.28	0.46	31-2	1.07	4.49	28.9	81.0	\$54.33	\$537.61	\$243.50	\$781.11	
PHY 367 WRF	960	1440	0.29	0.44	32-3*	1.04	4.45	29.1	80.9	\$50.43	\$483.95	\$215.97	\$699.92	
FM 9170 B2F	949	1504	0.29	0.47 a	31-2*	1.08	4.20	29.5	81.0	\$54.48	\$517.25	\$225.57	\$742.82	
FM 1740 B2F	941	1392	0.29	0.44	31-3*	1.04	4.55	29.2	81.2	\$52.15	\$490.70	\$208.75	\$699.45	
ATX 65207 B2RF	927	1426	0.29	0.45	42-3*	1.03	4.79	28.0	81.4 a	\$49.20	\$456.14	\$213.88	\$670.02	
FM 9180 B2F	917	1503	0.28	0.46	31-3	1.09 a	4.45	31.2 a	81.9 a	\$55.20	\$506.44	\$225.50	\$731.94	
FM 2484 B2F	895	1392	0.28	0.44	31-3*	1.11 a	4.02	29.6	81.3	\$56.05	\$501.55	\$208.83	\$710.38	
Average	1050	1577	0.30	0.45	-	1.06	4.51	28.86	80.92	\$52.16	\$551.02	\$233.07	\$784.09	
P>(F) ⁶	0.001	0.001	0.002	0.001	-	0.001	0.001	0.001	0.001	-----	min/max	-----	-----	
LSD (P=0.05)	133	189	0.019	0.015	-	0.026	0.202	1.01	1.24	\$48.23	\$456.14	\$208.75	\$670.02	
CV %	9.0	8.6	4.5	2.7	-	1.74	3.3	2.6	1.1	\$56.05	\$697.90	\$276.02	\$973.92	

Blocks Data continued:

Acknowledgements of assistance from Michael Block, Producer; Rick Minzenmayer, Pam Halfmann, Dr. Chris Sansone, Justin Mullens, Travis Holle and the sponsoring companies.

1 Values for varieties shaded in yellow or marked by an (a) are not significantly different than the highest treatment in the column and values shaded in orange are above average for that parameter/column

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of other products that also may be suitable. Abbreviations include: All-Tex (ATX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), FiberMax (FM), Glytol (G), Liberty Link (L)

NexGen (NG), Phytogen (PHY), Poncho Votivo seed treatment (PV), Roundup Flex (F or RF), Stoneville (ST), and Widestrike (W).

2 Fiber quality analysis conducted with a minimum of two ginned fiber subsamples by HVI at the Fiber and biopolymer Research Institute, Texas Tech University, Lubbock, TX

3 color and leaf grade based on a minimum of two samples. Values followed by an (*) indicate a difference between the samples.

4 CCC loan value based on cotton stored at Lubbock, TX. Base \$51.70

5 Gross Seed Return based on \$300/ton

6 The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with

large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties

Differences between varieties that are greater than the LSD indicate a significant difference between them for the measurement in a column.

n.s. indicates no statistical difference among the treatments for that particular measurement/column

B. 2012 M. Block Agronomic data. Continues onto next page.

2012 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial										
Rating Scale 1=poor 10 = excellent										
Variety	Lint yld lbs/acre	Seed yld lbs/acre	Lint % turn	Seed % turn	Stand Count plts/ac	Seedling vigor (scale)	Percent open Sept. 12	Bolls/row ft	Bolls/plant	Storm resistance
FM 9180 B2F	917	1503	0.28	0.46	38881	7.8	93.9	19.6	7.0	6.8
FM 2484 B2F	895	1392	0.28	0.44	36267	6.3	55.6	19.6	6.0	5.0
FM 1740 B2F	941	1392	0.29	0.44	34960	8.0	78.0	19.7	5.6	7.0
FM 9170 B2F	949	1504	0.29	0.47	41168	7.8	58.2	25.9	6.9	5.0
FM 2989 GLB2	989	1623	0.28	0.46	35287	6.3	46.3	13.5	6.8	7.5
FM 1944 GLB2	1060	1623	0.30	0.46	30713	6.5	66.7	17.5	5.7	6.0
FM 1944 GLB2 PV*	1014	1671	0.28	0.47	40842	7.3	63.3	19.3	6.1	5.3
ST 6448 GLB2	1038	1488	0.32	0.46	38881	7.0	56.6	20.5	8.8	4.7
BX 1347 GLB2	1043	1616	0.29	0.46	39861	6.0	75.5	16.3	4.9	6.0
ST 4946 GLB2	1188	1669	0.32	0.46	32347	6.7	54.2	21.7	6.0	5.5
ST 5458 B2RF	1053	1607	0.30	0.46	37574	7.3	49.0	17.0	5.1	6.0
ST 4288 B2F	1026	1690	0.29	0.48	35287	7.7	47.9	19.9	6.9	6.0
DP 1219 B2RF	1266	1840	0.31	0.45	45089	7.7	47.2	23.6	8.8	6.0
DP 11R136 B2RF	974	1536	0.29	0.45	33654	6.3	44.2	20.1	8.7	4.0
DP 11R154 B2R2	1149	1713	0.30	0.45	34634	7.0	26.5	18.7	6.1	7.0
Continued on next page										

Variety	Rating Scale 1=poor 10 = excellent									
	Lint yld	Seed yld			Stand Count	Seedling	Percent open			Storm
	lbs/acre	lbs/acre	Lint % turn	Seed % turn	plts/ac	vigor (scale)	Sept. 12	Bolls/row ft	Bolls/plant	resistance
DP 0935 B2RF	1167	1652	0.31	0.43	35288	6.7	53.1	16.1	4.9	4.5
DP 1032 B2RF	1022	1421	0.32	0.44	38881	6.0	55.4	21.7	6.2	6.3
DP 1044 B2RF	1056	1660	0.29	0.45	40515	7.0	37.5	22.2	5.3	7.3
DP 1359 B2RF	1198	1703	0.30	0.43	40842	5.7	63.3	22.6	7.0	6.3
NG 4012 B2RF	1017	1493	0.31	0.46	36267	7.0	83.0	18.5	6.7	7.0
NG 1511 B2RF	1198	1609	0.33	0.44	39535	7.5	82.4	18.5	6.4	7.0
PHX 3074-04 WRF	1108	1629	0.31	0.45	41168	6.8	64.2	20.5	5.9	7.5
PHX 5322-11 WRF	1051	1609	0.29	0.44	41822	6.0	63.3	17.8	7.0	4.0
PHX 4339-CB WRF	1105	1578	0.32	0.45	36594	6.7	89.8	25.0	6.1	5.7
PHX 4339-15 WRF	993	1511	0.29	0.44	42149	5.7	77.1	23.0	6.9	7.0
PHY 499 WRF	1214	1694	0.31	0.43	36267	6.3	63.2	19.5	6.3	4.5
PHY 367 WRF	960	1440	0.29	0.44	38228	7.0	75.5	20.9	7.6	6.0
PHY 339 WRF	1015	1402	0.32	0.44	36267	5.8	79.6	25.9	9.0	4.3
PHY 375 WRF	1081	1508	0.31	0.44	35287	7.5	80.7	21.4	8.1	3.3
ATX CR103233	987	1453	0.30	0.44	35287	7.5	76.5	25.5	10.2	6.0
ATX 65207 B2RF	927	1426	0.29	0.45	33654	8.3	69.2	23.5	7.4	6.0
ATX 11WSTR357	988	1590	0.29	0.47	30059	7.7	79.2	18.6	5.3	7.0
ATX 91239	1025	1538	0.30	0.45	38555	8.0	59.6	22.3	6.5	7.0
ATX 784381	1012	1604	0.29	0.46	31366	7.0	55.8	17.8	5.8	7.3
ATX 9CR253	1142	1632	0.30	0.42	39208	7.7	50.0	22.2	6.0	7.7
ATX Edge	1013	1700	0.28	0.47	36921	7.3	92.0	26.1	8.3	8.0
ATX Nitro 44 B2RF	1016	1646	0.29	0.47	39861	7.3	67.3	17.3	8.7	8.0
ATX 1546	1022	1617	0.29	0.45	36921	7.5	61.5	28.4	7.4	7.5
ATX Epic RF	1154	1655	0.31	0.45	37574	7.0	68.8	19.9	6.0	7.7
ATX 10WR585	1032	1431	0.29	0.41	31040	7.3	68.6	18.8	10.2	6.3
Average	1050	1577	0.30	0.45	37125	7.0	64.5	20.7	6.9	6.2
P>(F) ⁶	0.001	0.001	0.002	0.001	0.105	0.001				0.001
LSD (P=0.05)	133	189	0.019	0.015	NS	1.25				1.470
CV %	9.0	8.6	4.5	2.7	15.9	11.1				19.3
*PV = PonchoVotivo seed treatment										

Permian Basin, D6

Table 12.

2012 Dryland Cotton Variety Trial					Texas A&M AgriLife Extension								
Name of County:	Howard (277)				Design:	10 rows, 32" X 410ft, Unreplicated							
District number:	6				Irrigation:	Dryland							
Year:	2012				Fertility:								
Producer:	Rob Haney				Herbicide:								
Plant Date:					Harvest Aids:								
Harvest Date:					Fiber Quality						Lint	Seed	Total
Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	
In Pounds		% Turnout			Color-	Length		Strength	Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	Mic	(staple)	Uniformity (gram/tex)	Value	(\$/acre)	(\$/acre)	(\$/acre)	
ATX Epic RF	319	439	39.9	54.8	33-2	4.7	0.99	79.8	27.7	\$47.75	\$152.26	\$65.80	\$218.06
PHY 499 WRF	234	347	34.4	51.1	32-3	4.8	1.02	79.7	29.4	\$49.95	\$116.67	\$52.12	\$168.80
FM 9250 GL	229	349	38.2	58.1	32-3	4.4	0.99	77.6	26.5	\$47.85	\$109.74	\$52.30	\$162.04
NG 4111 RF	207	317	32.4	49.5	33-1	4.6	1.04	79.8	29.1	\$48.40	\$100.30	\$47.49	\$147.78
DP 174 RF	200	277	33.3	46.2	32-2	4.7	0.99	78.5	26.8	\$48.15	\$96.20	\$41.58	\$137.78
FM 9103	200	333	33.3	55.4	32.2	4.6	1.00	78.4	27.0	\$48.15	\$96.20	\$49.89	\$146.09
FM 2011 GT	193	278	34.5	49.7	42-4	4.6	0.98	79.3	27.5	\$45.85	\$88.47	\$41.73	\$130.20
Average	226	334	35.1	52.1	-	4.6	1.00	79.0	27.7	\$48.01	\$108.55	\$50.13	\$158.68
Max	319	439	39.9	58.1	-	4.8	1.04	79.8	29.4	\$49.95	\$152.26	\$65.80	\$218.06
Min	193	277	32.4	46.2	-	4.4	0.98	77.6	26.5	\$45.85	\$88.47	\$41.58	\$130.20
Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.													
Gross Seed Return based on \$300/ton.													

Table 13.

2012 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension								
Name of County:	Howard (277)				Design:	8 rows, 40" X 410ft							
District number:	6				Irrigation:	SSI							
Year:	2012				Fertility:								
Producer:	Marty Brooks				Herbicide:								
Plant Date:					Harvest Aids:								
Harvest Date:					Fiber Quality						Lint	Seed	Total
Yield Per Acre										CCC	Lint	Seed	Total
					Fiber					Loan	Gross	Gross	Gross
In Pounds		% Turnout			Color-	Length			Strength	Value	Return	Return	Return
Variety	Lint	Seed	Lint	Seed	Leaf	Mic	(staple)	Uniformity (gram/tex)		(\$/acre)	(\$/acre)	(\$/acre)	
NG 1511 B2RF	1310	1954	0.36	0.54	31-5	4.8	1.08	81.4	28.9	\$52.80	\$691.89	\$293.11	\$985.00
DP 1044 B2RF	1133	2086	0.30	0.55	31-4	4.6	1.10	80.6	28.3	\$53.90	\$610.77	\$312.90	\$923.67
FM 2011 GT	1104	1674	0.33	0.50	31-4	4.7	1.11	81.6	30.4	\$54.90	\$606.29	\$251.07	\$857.36
FM 2989 GLB2	1048	1872	0.30	0.54	31-3	4.7	1.10	80.3	28.7	\$55.40	\$580.85	\$280.74	\$861.59
FM 1944 GLB2	856	1425	0.30	0.50	31-4	4.9	1.12	79.2	28.7	\$54.10	\$462.85	\$213.80	\$676.64
ST 5458 B2RF	847	1295	0.35	0.53	42-3	5.1	0.99	78.4	26.4	\$45.00	\$381.16	\$194.19	\$575.35
PHY 367 WRF	821	1262	0.33	0.50	42-3	4.5	1.04	79.5	28.4	\$48.70	\$399.76	\$189.32	\$589.08
NG 3348	784	1283	0.32	0.53	42-4	4.6	1.08	80.4	29.0	\$50.65	\$397.24	\$192.51	\$589.75
ATX Nitro 44 B2RF	745	1188	0.30	0.47	42-5	4.2	1.06	79.3	28.5	\$48.00	\$357.80	\$178.20	\$536.00
DP 1219 B2RF	707	1083	0.33	0.50	42-2	4.7	1.03	79.6	28.3	\$48.70	\$344.26	\$162.47	\$506.74
FM 9170 B2RF	697	1217	0.32	0.55	31-5	4.6	1.10	81.4	30.6	\$53.10	\$370.08	\$182.49	\$552.56
NG 4012 B2RF	693	1130	0.30	0.50	31-3	4.9	1.09	80.7	28.4	\$55.40	\$383.84	\$169.56	\$553.40
FM 2484 B2F	671	979	0.32	0.46	41-4	4.5	1.06	79.7	28.5	\$51.50	\$345.47	\$146.90	\$492.36
PHY 499 WRF	625	935	0.35	0.52	31-4	4.9	1.05	82.1	30.6	\$53.10	\$331.92	\$140.27	\$472.19
DP 1032 B2RF	461	761	0.31	0.51	31-2	4.9	1.08	81.0	28.2	\$55.70	\$256.89	\$114.13	\$371.01
Average	834	1343	0.32	0.51	-	4.7	1.07	80.3	28.8	\$52.06	\$434.74	\$201.44	\$636.18
Max	1310	2086	0.36	0.55	-	5.1	1.12	82.1	30.6	\$55.70	\$691.89	\$312.90	\$985.00
Min	461	761	0.30	0.46	-	4.2	0.99	78.4	26.4	\$45.00	\$256.89	\$114.13	\$371.01
Not Replicated													
Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.													
Gross Seed Return based on \$300/ton													

Table 14.

		2012 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension					
Name of County:	Upton (461)							Design:	6 rows, 40" 2X1					
District number:	6							Irrigation:	SSI 6" pre and 8" in season					
Year:	2012							Fertility:	50 units of Nitrogen per acre during season					
Producer:	Russ and Bo Eggemeyer							Herbicide:	Glyphosate (1.5 qt) applied 2 times					
Plant Date:	May 22, 2012							Harvest Aids:	Prep (1.5 pt) + Gromoxone (3 oz). Gramoxone Inteon (20 oz)					
Harvest Date:	Oct. 18, 2012													
		Fiber Quality								Lint	Seed	Total		
Yield Per Acre		Fiber						CCC	Lint	Gross	Seed	Total		
In Pounds		% Turnout		Color-	Length	Mic	Strength	Uniformity	Loan	Value	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	(gram/tex)		Value	per acre	(\$/acre)	(\$/acre)	(\$/acre)	
FM 2484 B2RF	1461		35.2		21-2	36	4.5	29.3	80.5	\$56.85	\$830.66			
PHY 499 WRF	1475		33.1		31-4	34	4.7	29.8	82.3	\$52.90	\$780.24			
DG 2570 B2RF	1501		37.4		21-3	33	4.8	28.4	81.9	\$51.90	\$778.88			
FM 2989 GLB2	1410		34.7		31-2	34	4.8	29.3	81	\$53.60	\$755.95			
DP 1219 B2RF	1423		33.8		31-3	34	4.5	28.1	79.4	\$52.65	\$749.29			
DP 1050 B2RF	1440		36.9		21-1	33	4.7	27.1	80.6	\$51.95	\$747.83			
DP 1044 B2RF	1420		33.7		31-3	33	4.9	27.5	80	\$51.75	\$734.61			
PHY 375 WRF	1389		35.6		31-2	33	4.7	27.2	80.8	\$51.85	\$720.33			
FM 1944 GLB2	1310		33.4		31-2	35	4.8	28.1	79	\$54.70	\$716.33			
PHY 367 WRF	1370		32.5		31-4	33	4.5	29.1	80	\$50.75	\$695.22			
FM 9170 B2RF	1286		32.5		21-1	34	4.6	28.4	79.7	\$54.00	\$694.62			
ATX NITRO 44 B2RF	1276		31.3		31-4	35	4.2	30.3	78.8	\$53.65	\$684.49			
FM 5458 B2RF	1394		33.7		31-3	33	5.1	27.1	79.4	\$48.80	\$680.19			
DP 1032 B2RF	1309		35		21-1	33	4.9	27.4	79.6	\$51.95	\$680.02			
ATX 91139 B2RF	1299		33.6		31-5	34	4.5	26.8	79.6	\$51.00	\$662.24			
ATX DINERO	1229		31.9		21-2	33	4.7	26.8	78.1	\$51.10	\$627.80			
Average	1375		34		-	34	5	28	80	\$52.46	\$721.17			
Max.	1501		37		-	36	5	30	82	\$56.85	\$830.66			
Min.	1229		31		-	33	4	27	78	\$48.80	\$627.80			

Table 15.

2012 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension				
Name of County:	Glasscock (173)				Design:	6 rows, 40" 2X1								
District number:	6				Irrigation:	SSI 10" pre and 12" in season								
Year:	2012				Fertility:	120 units of Nitrogen per acre and 20 units Potassium during season								
Producer:	Allan Fuchs				Herbicide:	Glyphosate (40 oz) applied 2 times								
Plant Date:	May 24, 2012				Harvest Aids:	Prep (1 pt) + Folex (1 pt). Gramoxone Inteon (23 oz) and Aim (0.25 oz)								
Harvest Date:	Oct. 24, 2012													
Fiber Quality										Lint	Seed	Total		
Yield Per Acre				Fiber						CCC	Lint	Seed	Total	
In Pounds		% Turnout		Color-	Length	Strength			Loan	Value	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	per acre	(\$/acre)	(\$/acre)	(\$/acre)
PHY 499 WRF	1511		37.0		31-4	36	4.2	31.8	82.3	\$55.25	\$834.85			
NG 1511 B2RF	1454		37.1		31-3	36	4.6	32.5	82.3	\$56.25	\$817.89			
PHY 367 WRF	1469		37.5		31-4	36	4.4	31.3	81.4	\$55.10	\$809.45			
NG 4012 B2RF	1377		35.5		21-1	36	4.4	31.6	81.2	\$57.30	\$788.76			
PHY 375 WRF	1369		33.6		21-3	37	3.9	33	81.2	\$56.95	\$779.86			
FM 9170 B2RF	1357		33.5		21-3	38	4.0	33.8	82.4	\$56.95	\$772.66			
ST 5458 B2RF	1365		33.6		31-4	36	4.6	29.8	80.8	\$54.90	\$749.65			
DP 1032 B2RF	1311		34.1		21-2	36	4.5	30	81.1	\$57.10	\$748.54			
DP 1219 B2RF	1321		31.6		31-3	36	4.1	29.8	81.1	\$56.20	\$743.78			
ATX NITRO 44 B2RF	1367		32.4		31-5	37	4.0	34.9	82.5	\$54.25	\$741.74			
FM 2484 B2RF	1297		32.2		21-3	38	4.0	32.8	82.4	\$56.95	\$738.74			
FM 2989 GLB2	1261		31.8		21-3	36	4.2	30.6	81.1	\$56.85	\$717.16			
ATX DINERO B2RF	1263		32.0		31-3	36	4.5	29.3	81.1	\$55.80	\$704.81			
FM 1944 GLB2	1256		33.3		31-3	36	4.5	30	80.6	\$56.05	\$703.93			
DP 1050 B2RF	1150		32.9		21-1	36	4.1	29.5	81.7	\$57.25	\$658.40			
DP 1044 B2RF	1208		31.5		21-3	34	4.5	29.3	80.9	\$53.70	\$648.46			
ATX 91139 B2RF	1107		34.1		21-3	37	3.9	29.7	82.7	\$56.95	\$630.34			
Average	1320		33.7		-	36	4.26	31.16	81.58	\$56.11	\$740.53			
Max.	1511		37.5		-	38	4.6	34.9	82.7	\$57.30	\$834.85			
Min.	1107		31.5		-	34	3.9	29.3	80.6	\$53.70	\$630.34			

Table 16.

2012 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension				
Name of County:	Glasscock (173)				Design:	8 rows, 40" spacing								
District number:	6				Irrigation:	SSI 7" pre and 12" in season								
Year:	2012				Fertility:	105 units of Nitrogen per acre and 150 lbs of 10-34-0 knifed pre-plant								
Producer:	Darrell Halfmann				Herbicide:	Glyphosate (1 qt) applied 2 times								
Plant Date:	May 22, 2012				Harvest Aids:	Prep (1.5 pt) + Def (0.75 pt). Gramoxone Inteon (22 oz)								
Harvest Date:	Oct. 18, 2012													
Fiber Quality										Lint	Seed	Total		
Yield Per Acre				Fiber						CCC	Lint	Seed	Total	
In Pounds		% Turnout		Color-	Length	Strength		Loan	Value	Return	Return	Return		
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	per acre	(\$/acre)	(\$/acre)	(\$/acre)
DG 2570 B2RF	1827		41.0		21-3	37	4.98	32.3	84.9	\$57.50	\$1,050.00			
FM 9170 B2RF	1827		37.8		21-3	38	4.40	32.0	83.4	\$57.40	\$1,049.00			
FM 2989 GLB2	1820		37.0		21-3	37	4.61	32.1	84.0	\$57.50	\$1,046.00			
FM 2484 B2F	1816		37.7		21-3	38	4.47	32.3	82.8	\$57.30	\$1,041.00			
FM 1944 GLB2	1817		38.6		21-3	37	4.34	29.8	82.4	\$57.00	\$1,036.00			
PHY 499 WRF	1801		40.7		21-3	37	4.97	30.5	84.1	\$57.40	\$1,034.00			
DP 1219 B2RF	1799		39.1		21-3	37	4.52	31.3	83.9	\$57.40	\$1,033.00			
FM 1740 B2F	1787		38.7		21-3	37	4.77	32.0	83.8	\$57.40	\$1,026.00			
ST 6448 GLB2	1788		38.9		21-3	37	4.87	30.6	82.8	\$57.20	\$1,023.00			
FM 1944 GLB2-PV	1741		36.6		21-3	38	4.66	30.8	84.5	\$57.40	\$999.00			
ST 4288 B2F	1717		36.7		21-3	38	4.86	30.6	83.2	\$57.30	\$984.00			
ST 5458 B2RF	1776		39.3		21-3	37	5.08	30.6	84.0	\$55.10	\$979.00			
FM 9180 B2F	1535		34.5		21-3	38	4.95	33.6	84.0	\$57.55	\$884.00			
Average	1773		38		-	37	5	31	84	57	1014			
Max.	1827		41		-	38	5.08	33.6	84.9	57.55	1050			
Min.	1535		34.5		-	37	4.34	29.8	82.4	55.1	884			

Table 17.

		2012 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension							
Name of County:	Glasscock (173)					Design:	6 rows, 40" 2X1									
District number:	6					Irrigation:	SSI 5" pre and 10" in season									
Year:	2012					Fertility:	90 units of Nitrogen through drip system and 175 lbs of 8-28-0 knifed pre-plant									
Producer:	Jerry Hoelscher					Herbicide:	Glyphosate (40 oz) applied 2 times									
Plant Date:	June 16, 2012					Harvest Aids:	Prep (1 pt) + Folex (0.5 pt). Gramoxone Inteon (20 oz) and Aim (0.2 oz)									
Harvest Date:	Nov. 8, 2012															
		Fiber Quality									Lint	Seed	Total			
Yield Per Acre		Fiber							CCC		Gross	Gross	Gross			
In Pounds		% Turnout			Color- Leaf	Length (staple)	Mic	Strength (gram/tex)	Uniformity	Loan Value	Value per acre	Return (\$/acre)	Return (\$/acre)	Return (\$/acre)		
Variety	Lint	Seed	Lint	Seed												
DP 1219 B2RF	1303		34.9		11-1	35	3.9	31.1	78.2	\$55.75	\$726.68					
FM 2989 B2RF	1256		33.5		21-1	35	4.4	30.4	81.3	\$56.25	\$706.53					
FM 2484 B2RF	1202		32.6		11-2	36	3.9	30.3	81.9	\$57.25	\$688.33					
PHY 499 WRF	1224		33.1		21-3	34	4.4	29.9	82.2	\$53.95	\$660.29					
NG 1511 B2RF	1180		35.6		21-1	34	4.7	29.5	81.2	\$54.25	\$639.91					
DP 1032 WRF	1130		34.4		21-1	35	4.4	28.8	81.2	\$56.00	\$632.92					
PHY 375 WRF	1146		33.4		21-2	34	4.1	29.5	79.8	\$54.40	\$623.23					
DG 2570 B2RF	1150		32.8		21-2	34	4.6	28.1	80.7	\$54.00	\$620.89					
FM 1944 GLB2	1060		32		21-1	36	4	31	81.3	\$57.45	\$609.06					
ST 5458 B2RF	1127		30.9		21-2	34	4.3	29.2	80.3	\$54.00	\$608.52					
DP 1044 B2RF	1115		31.8		11-1	34	4	28.8	81.1	\$54.15	\$603.78					
FM 9170 B2RF	1047		30.2		11-1	36	4.2	31.2	81.2	\$57.45	\$601.29					
ATX NITRO 44 B2RF	1070		31.1		21-4	37	3.8	33	82.9	\$56.10	\$600.37					
NG 4012 B2RF	1075		34.2		21-1	34	4.4	28.8	80.6	\$54.00	\$580.38					
PHY 367 WRF	1052		30.3		21-2	34	4.2	28.9	80.2	\$54.15	\$569.65					
ATX EDGE B2RF	988		29.4		21-3	36	4.2	32.5	81.5	\$56.85	\$561.90					
ATX 91139 B2RF	950		30.3		21-3	36	3.9	30.1	81.8	\$56.65	\$538.39					
Average	1122		32.4		-	35	4.2	30.1	81.0	\$55.45	\$621.89					
Max.	1303		35.6		-	37	4.7	33.0	82.9	\$57.45	\$726.68					
Min.	950		29.4		-	34	3.8	28.1	78.2	\$53.95	\$538.39					

Table 18.

		2012 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension					
Name of County:	Glasscock (173)					Design:	8 rows, 40" spacing							
District number:	6					Irrigation:	SSI 9" in season							
Year:	2012					Fertility:	70 units of Nitrogen per acre and 200lbs of 10-34-0 knifed pre-plant							
Producer:	Chris Hirt					Herbicide:	Glyphosate (1 qt) applied 2 times							
Plant Date:	May 29, 2012					Harvest Aids:	Prep (1.5 pt) + Folex (1 pt). Gramoxone Inteon (24 oz) and Aim (0.25 oz)							
Harvest Date:	Oct. 29, 2012													
		Fiber Quality									Lint	Seed	Total	
Yield Per Acre						Fiber			CCC			Gross	Gross	Gross
In Pounds		% Turnout		Color-	Length	Strength		Loan	Value	Return	Return	Return		
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	per acre	(\$/acre)	(\$/acre)	(\$/acre)
DP 0912 B2RF	1210		36.5		31-3	37.4	4.3	32.4	83.1	\$56.95	\$689.34			
DP 12R244R2	1216		34.5		31-3	36.2	4.1	28.4	81.5	\$56.25	\$684.02			
DP 12R245 B2R2	1121		36.5		31-3	38.1	4.3	30.9	83.9	\$56.85	\$637.02			
DP 12R251 B2R2	1113		35.6		31-3	37.8	3.9	33.2	80.8	\$56.80	\$632.26			
DP 1044 B2RF	1098		34.3		31-3	38.4	4.6	32.2	79.6	\$56.10	\$616.25			
DP 12R249 B2R2	1109		35.9		31-3	40.6	3.3	32.5	84.2	\$55.05	\$610.45			
DP 11R154 B2R2	1060		32.7		31-3	39.0	4.2	33.8	83.2	\$57.00	\$603.99			
DP 12R242 B2R2	1059		35.6		31-3	35.8	4.3	30.6	81.9	\$56.55	\$598.95			
FM 9170 B2RF	1009		31.7		31-3	37.4	5.0	33.9	81.7	\$56.65	\$571.72			
DP 1359 B2RF	1007		32.8		31-3	36.8	3.5	28.2	82.8	\$56.30	\$566.90			
FM 1740 B2RF	985		31.5		31-3	37.8	4.7	30.9	82.4	\$56.60	\$557.47			
DP 1321 B2RF	973		32.1		31-3	36.8	4.3	31.5	83.8	\$56.95	\$554.28			
DP 174 RF	970		33.9		31-3	38.4	4.7	31.0	84.5	\$56.90	\$551.95			
DP 1032 B2RF	898		31.6		31-3	38.1	4.0	32.5	82.1	\$56.85	\$510.65			
DP 11R136 B2R2	890		30.3		31-3	35.5	4.7	28.0	81.4	\$56.10	\$499.29			
DP 12R215 B2R2	890		27.0		31-3	34.9	5.2	28.5	82.3	\$53.20	\$473.63			
Average	1038		33.3		-	37.4	4.3	31.2	82.5	\$56.32	\$584.89			
Max.	1216		36.5		-	40.6	5.2	33.9	84.5	\$57.00	\$689.34			
Min.	890		27.0		-	34.9	3.3	28.0	79.6	\$53.20	\$473.63			

Table 19.

					2012 Dryland Cotton Variety Trial					Texas A&M AgriLife Extension					
Name of County:	Glasscock (173)				Design:	10 rows, 40" spacing									
District number:	6				Irrigation:	Dryland									
Year:	2012				Fertility:	105 units of Nitrogen per acre and 150 lbs of 10-34-0 knifed pre-plant									
Producer:	Carl Hoelscher				Herbicide:	Glyphosate (1 qt) applied 1 time									
Plant Date:	June 5, 2012				Harvest Aids:	Gramoxone Inteon (24 oz)									
Harvest Date:	Nov. 7, 2012														
					Fiber Quality							Lint	Seed	Total	
Yield Per Acre					Fiber					CCC		Gross	Gross	Gross	
In Pounds		% Turnout			Color-	Length	Strength		Loan	Value	Return	Return	Return		
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	per acre	(\$/acre)	(\$/acre)	(\$/acre)	
DP 1219 B2RF	194		33.3		21-3	32	4.1	25.9	77.7	\$49.65	\$96.12				
FM 9170 B2RF	181		30.3		21-3	33	3.8	27.9	77.6	\$51.20	\$92.48				
PHY 499 WRF	168		35.0		31-3	32	4.1	27.2	79.9	\$50.40	\$84.42				
DP 1044 B2RF	169		32.4		31-3	32	4.2	27.4	77.7	\$49.55	\$83.72				
NG 4012 B2RF	169		32.3		31-1	32	4.3	26.2	77.7	\$49.50	\$83.70				
PHY 367 WRF	165		30.0		22-3	32	4.1	25.2	78.7	\$47.80	\$79.02				
NG 1511 B2RF	156		35.7		31-3	32	4.4	27.1	79.1	\$49.50	\$76.99				
PHY 375 WRF	155		35.6		31-1	31	4.2	24.0	76.9	\$47.85	\$74.22				
DG 2570 B2RF	158		34.0		32-3	31	4.5	24.7	79.4	\$46.80	\$73.91				
ATX EPIC RF	156		33.7		22-1	30	4.4	24.4	79.0	\$47.15	\$73.78				
ATX EDGE B2RF	153		30.2		31-4	31	4.6	24.3	77.3	\$47.20	\$72.41				
FM 2989 GLB2	142		31.5		31-2	32	4.8	26.9	78.6	\$49.60	\$70.29				
ST 5488 B2RF	146		30.5		31-3	31	4.5	24.1	77.0	\$47.60	\$69.68				
ATX 784381 RF	128		32.7		21-2	33	3.7	26.5	78.1	\$51.25	\$65.76				
FM 1740 B2RF	131		32.3		21-3	32	4.1	26.5	78.8	\$49.75	\$65.40				
FM 1944 GLB2	118		30.2		21-2	33	4.2	27.6	78.7	\$51.35	\$60.71				
Average	156		32.5		-	32	4.3	26.0	78.3	\$49.13	\$76.41				
Max.	194		35.7		-	33	4.8	27.9	79.9	\$51.35	\$96.12				
Min.	118		30.0		-	30	3.7	24.0	76.9	\$46.80	\$60.71				



<http://cotton.tamu.edu/>
<http://sanangelo.tamu.edu/agronomy>

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