

# AGRONOMIC COTTON VARIETY TRIALS

## THE SOUTHERN ROLLING PLAINS and PERMIAN BASIN OF TEXAS – 2013



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## THE SOUTHERN ROLLING PLAINS and PERMIAN BASIN OF TEXAS - 2013

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## **2013 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).

From the latest data available, transgenic varieties accounted for 99% of the states' acreage in 2013. 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 2013 Crop" survey, the estimated percentage of upland cotton planted to specific brands in Texas are as follows: Alltex had 2.5%, Americot/NexGen had 20%, Bayer CropScience – FiberMax had 39%, Bayer CropScience – Stoneville had 2.5%, Croplan Genetics had 0.5%, Delta Pine had 16%, Dyna-Grow had 1.4%, and Phytogen had 7%.

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 in the variety selection process.

Twelve large plot unreplicated demonstration, two small plot replicated research, and one large plot replicated research trials were planted in 2013. Two demonstration trials in Martin County were lost; one due to drought and the other to hail. 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 indicates 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. Table 4 summarizes agronomic characteristics for the 39 varieties and experimental varieties tested in the San Angelo Uniform Irrigated Small Plot Variety Trial. Variety trials were planted in the following Extension District 7 Counties: Jones (Table 5), Nolan (Table 6), and Fisher (Table 7), Tom Green (Tables 8-11). Variety trials were planted in the following Extension District 6 Counties: Glasscock (Tables 12 & 13), Upton (Tables 14 & 15), Howard (Tables 16 & 17), 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**

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#### **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 over all 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 minimizes 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.

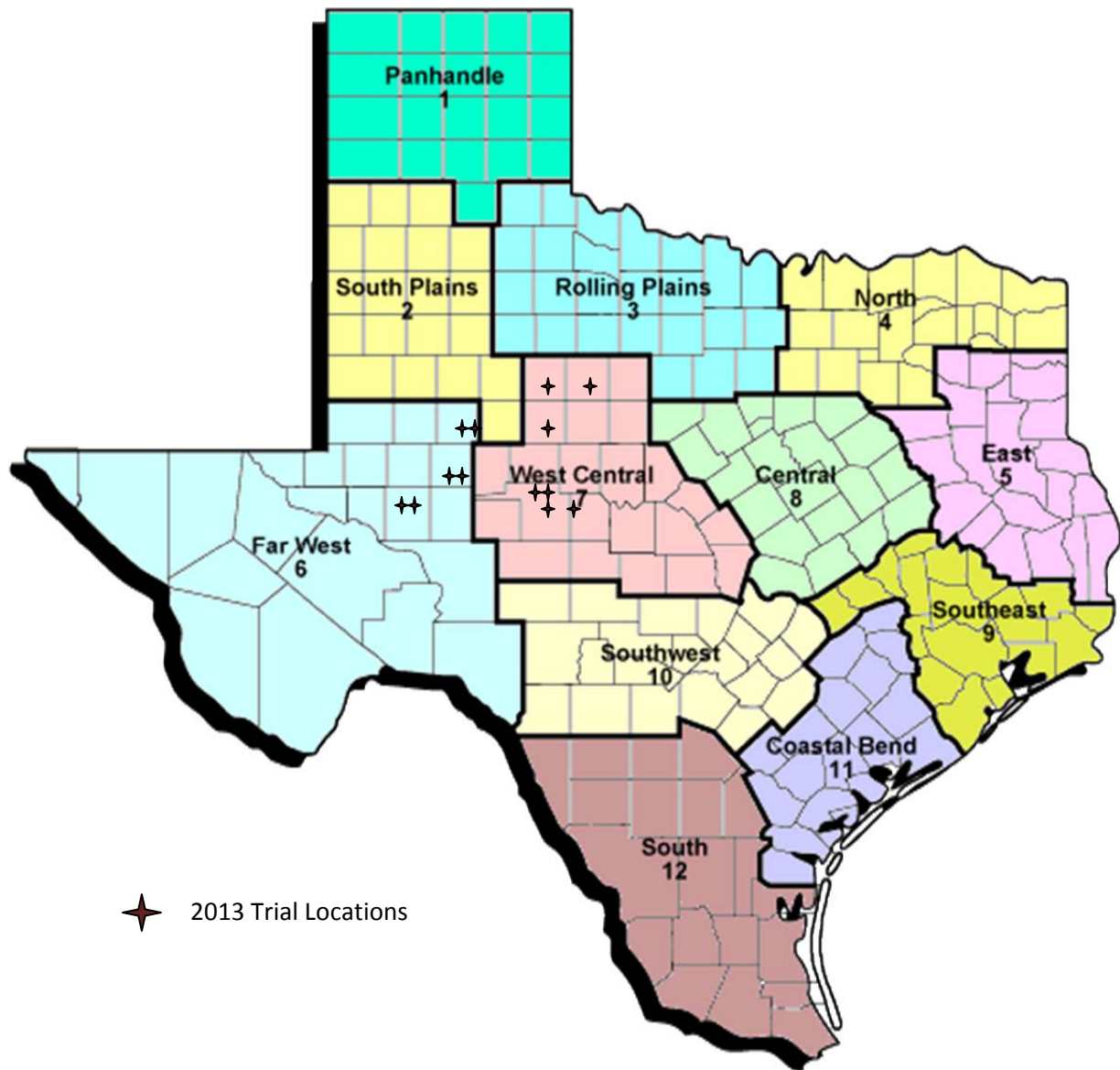
#### **Select the Highest Quality Seed for Planting**

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 1. Cotton Variety Selection Guide**



**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 **2013**  
Texas A&M AgriLife Extension **District 7** variety trials.

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Irrigated
Larry Lytle	Jones	June 17, 2013	Dec. 28, 2013	16 rows, 2,800 ft, 30" spacing, Unreplicated	Dryland
Don Martin	Nolan			hand picked 13'1" of row with 1 sample per variety	Dryland
Todd Coker	Fisher			hand picked 13'1" of row with 3 samples per variety	N/A
John and Doug Wilde	Tom Green	May 22, 2013	Nov. 4, 2013	16 rows-except for NG 5313 B2RF with 20 rows	SSI
Daryl and Doyle Schnier	Tom Green	June 5, 2013	Nov. 19, 2013	4 rows, 32 ft, 40" centers, 4 replications	SSI
Kenny Gully	Tom Green	June 13, 2013	Dec. 30, 2013	3 reps, 8 rows in, 1 out 1320 ft in length	Pivot
Michael Block	Tom Green	June 4, 2013	Nov. 14-15, 2013	4 rows, 3ft, 40" spacing, 4 replications in RCBD. 4 rows harvested	SSI

B. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions and area of **2013**  
Texas A&M AgriLife Extension **District 6** variety trials.

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Irrigated
Allan Fuchs	Glasscock	May 28, 2013	Nov. 13, 2013	6 rows, 40" 2X1, 1171 ft, Unreplicated	SDI 10" pre and 12" in season
Russ Eggemeyer	Upton	May 22, 2013	Oct. 31, 2013	6 rows, 40" 2X1, 665 ft, Unreplicated	SDI 6" pre & 8" in season
John Evridge	Upton	May 17, 2013	Nov. 13, 2013	8 rows, 40", 837 ft, Unreplicated	SDI 10" pre & 19" in season
Marty Brooks	Howard	May 27, 2013	Oct. 31, 2013	8 rows, 40", 400 ft, Unreplicated	
Donnie Reid	Howard	June 3, 2013	Nov. 21, 2013	8 rows, 40", 800 ft, Unreplicated	Dryland
Darren Jost	Glasscock	June 4, 2013	Dec. 16, 2013	8 rows, 40", 1300 ft, Unreplicated	

**Table 2.**

**A. 2013 Variety ranking based on lint value/acre by trial location in Extension District 7.**

Extension District	D7	D7	D7	D7	D7	D7	D7	2013		2012	
County (Cooperator)	Jones	Nolan	Fisher	Tom Green (Gully)	Tom Green (Wilde)	Tom Green (Schnier)	Tom Green (Block)	Average	Number	Average	Number
Ave. Gross Revenue	\$249.46	\$181.71	\$712.14	\$479.03	\$820.90	\$1,362.91	\$652.14	\$636.90	of trials	\$596.15	of trials
Number of entries	12	10	9	11	16	17	28	15	entered	15	entered
Variety (alphabetically)								Rank		Rank	
ATX 65207 B2RF							25	25	1	20	2
ATX EDGE B2RF							27	27	1	7	1
ATX Epic RF							12	12	1	10	1
ATX NITRO B2RF					10	17	28	18	3	14	4
DG 2570 B2RF					3	12	9	8	3	10	3
DG CT13545 B2RF					9	11		10	2	n.t.	n.t.
DP 0935 B2RF							5	5	1	n.t.	n.t.
DP 1032 B2RF							1	1	1	n.t.	n.t.
DP 1044 B2RF	3	8	8	8	12	1	17	8	7	7	4
DP 1219 B2RF	6			1	4	4	3	4	5	n.t.	n.t.
DP 1321 B2RF	8			2	2	13	10	7	5	7	1
DP 1359 B2RF	1		1	5	1	2	2	2	6	2	4
FM 1740 B2F							22	22	1	15	3
FM 1944 GLB2	12	3	6	9	8	16	7	9	7	10	7
FM 2484 B2F	11	5	4	10	16	5	15	9	7	9	6
FM 2989 GLB2	7	7	2	3	13	9	23	9	7	12	7
FM 9063 B2F							6	6	1	n.t.	n.t.
FM 9170 B2RF		9					16	13	2	3	2
FM 9180 B2F							11	11	1	n.t.	n.t.
NG 1511 B2RF	2	1		4	6	10	8	5	6	5	6
NG 4012 B2RF							24	24	1	11	1
NG 5315 B2RF	10	2	9		14	14		10	5	n.t.	n.t.
PHY 333 WRF						3		3	1	n.t.	n.t.
PHY 339 WRF							4	4	1	3	1
PHY 367 WRF	4	10	7	7	15	7	21	10	7	10	7
PHY 375 WRF							18	18	1	14	3
PHY 499 WRF	5	6	5	6	5	6	13	7	7	6	7
PHY 565 WRF					7	15		11	2	7	1
ST 4288 B2F							20	20	1	13	1
ST 4946 GLB2	9	4	3	11	11	8	14	9	7	9	3
ST 5458 B2RF							19	19	1	11	2
ST 6448 GLB2							26	26	1	n.t.	n.t.



**B. 2013 Variety ranking based on lint value/acre by trial location in Extension District 6.**

Extension District	D6	D6	D6	D6	D6	D6	2013		2012	
County (Cooperator)	Howard (Reid)	Howard (Brooks)	Glasscock (Jost)	Glasscock (Fuchs)	Upton (Eggemeyer)	Upton (Evridge)	Average	Number	Average	Number
Ave. Gross Revenue	\$305.26	\$664.59	\$963.93	\$1,154.30	\$821.34	\$1,379.53	\$881.49	of trials	\$652.58	of trials
Number of entries	12	7	15	13	11	13	12	entered	14	entered
Variety (alphabetically)							Rank		Rank	
ATX EDGE B2RF	4		5	8	10	11	8	5	n.t.	n.t.
ATX NITRO B2RF				9		14	12	2	10	4
DG 2285 B2RF	11						11	1	n.t.	n.t.
DG 2570 B2RF			7	2		2	4	3	2	2
DG 2595 B2RF			9				9	1	n.t.	n.t.
DP 1044 B2RF	7		6	3	1	6	5	5	8	5
DP 1219 B2RF			15	1	5	1	6	4	8	5
DP 1359 B2RF		4	11	7	3	5	6	5	n.t.	n.t.
FM 1944 GLB2	10		10	12	11	12	11	5	9	7
FM 2011 GT	5		2				4	2	5	2
FM 2484 B2RF	1	5		4	6	10	5	5	8	7
FM 2989 GLB2	8	3				7	6	3	7	7
FM 9250 GL	12		1				7	2	3	1
NG 1511 B2RF		6					6	1	2	2
NG 4111 RF	3						3	1	4	1
NG 5315 B2RF	9						9	1	n.t.	n.t.
PHY 339 WRF			13	10	8	8	10	4	n.t.	n.t.
PHY 367 WRF	6		12	11	9	13	10	5	6	6
PHY 375 WRF			8	13	4	9	9	4	7	3
PHY 499 WRF		2	4	5	7	4	4	5	5	8
ST 4946 GLB2	2	1	3	6	2	3	3	6	n.t.	n.t.
ST 6448 GLB2		7	14				11	2	8	1

**Table 3.**

**A. 2013 Variety ranking based on lint yield by location in Extension District 7.**

Extension District	D7	D7	D7	D7	D7	D7	D7	2013		2012	
County (Cooperator)	Jones	Nolan	Fisher	Tom Green (Gully)	Tom Green (Wilde)	Tom Green (Schnier)	Tom Green (Block)	Average	Number	Average	Number
Ave. Trial Yield (lbs/ac)	339	251	942	629	1221	1837	955	882	of trials	791	of trials
Number of entries	11	10	9	11	16	17	17	13	entered	18	entered
Variety (alphabetically)								Rank		Rank	
ATX Epic RF							8	8	1	8	2
ATX NITRO B2RF					6	17	17	13	3	14	4
DG 2570 B2RF					4	12	13	10	3	11	2
DG CT13545 B2RF					9	14		12	2	n.t.	n.t.
DP 1044 B2 RF	1			9	14	3	14	8	5	7	4
DP 1219 B2 RF	2	8	8	1	5	6	1	4	7	n.t.	n.t.
DP 1321 B2RF	3			2	1	4	7	3	5	n.t.	n.t.
DP 1359 B2 RF	4			6	2	2	2	3	5	3	3
FM 1740 B2F								16	1	18	3
FM 1944 GLB2	5		1	8	11	16	11	9	6	12	6
FM 2011 GT		6	6					6	2	n.t.	n.t.
FM 2484 B2 F	6			11	16	5	10	10	5	14	4
FM 2989 GLB2	7	7	4	3	13	11	15	9	7	15	7
FM 9170 B2RF		4	3					4	2	9	4
FM 9250 GL		5						5	1	n.t.	n.t.
NG 1511 B2 RF	8			5	3	10	4	6	5	4	7
NG 4111 RF		1						1	1	n.t.	n.t.
NG 5315 B2RF	9				15	13		12	3	n.t.	n.t.
PHY 333 WRF						1	5	3	2	n.t.	n.t.
PHY 339 WRF		2	9					5	3	17	1
PHY 367 WRF	10			7	12	8	12	10	5	10	7
PHY 375 WRF		10	7					9	2	12	4
PHY 499 WRF	11			4	7	7	6	7	5	4	6
PHY 565 WRF		9	5		10	15		10	4	8	1
ST 4946 GL B2	12			10	8	9	9	10	5	5	1
ST 6448 GLB2		3	2					3	2	12	1

**B. 2013 Variety ranking based on lint yield by location in Extension District 6.**

Extension District	D6	D6	D6	D6	D6	D6	2013		2012	
County (Cooperator)	Howard (Reid)	Howard (Brooks)	Glasscock (Jost)	Glasscock (Fuchs)	Upton (Eggemeyer)	Upton (EvrIDGE)	Average	Number	Average	Number
Ave. Trial Yield (lbs/ac)	417	882	1240	1516	1131	1830	1169	of trials	1106	of trials
Number of entries	12	7	15	13	11	14	12	entered	13	entered
Variety (alphabetically)							Rank		Rank	
ATX EDGE B2RF	12		9	8	6	9	9	5	n.t.	n.t.
ATX NITRO B2RF				9		12	11	2	10	3
DG 2285 B2RF	11						11	1	n.t.	n.t.
DG 2570 B2RF			5	2		3	3	3	2	2
DG 2595 B2RF			7				7	1	n.t.	n.t.
DP 1044 B2RF	5		8	5	2	6	5	5	8	3
DP 1219 B2RF			15	4	5	1	6	4	8	4
DP 1359 B2RF		4	11	7	4	5	6	5	n.t.	n.t.
FM 1944 GLB2	7		13	13	11	13	11	5	9	4
FM 2011 GT	6		3				5	2	5	2
FM 2484 B2RF	8	5		3	8	7	6	5	8	4
FM 2989 GLB2	4	3				8	5	3	7	4
FM 9250 GL	9		4				7	2	3	1
NG 1511 B2RF		6					6	1	2	2
NG 4111 RF	2						2	1	4	1
NG 5315 B2RF	1						1	1	n.t.	n.t.
PHY 339 WRF			12	10	10	11	11	4	n.t.	n.t.
PHY 367 WRF	10		10	11	9	14	11	5	6	3
PHY 375 WRF			6	12	3	10	8	4	7	2
PHY 499 WRF		2	1	6	7	4	4	5	5	5
ST 4946 GLB2	3	1	2	1	1	2	2	6	n.t.	n.t.
ST 6448 GLB2		7	14				11	2	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).

2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial										
					1= poor 10= excellent		1= poor 10= excellent			
Variety	Seedling Vigor	Height	1st F Branch	Total Nodes	NAWF at Sept. 1	Stay Green rating Oct 2	%Open Boll 3-Oct	Storm Resistance	Boll Weight	100 Fuzzy Seed Weight
FM 2484 B2F	5.5	24.8	6.9	16.0	0.5	9	29		4.60	9.54
FM 2484 B2F HSd*	6	27.1	5.3	17.3	1.0	9	17	3	4.77	9.76
FM 1740 B2F	5	25.8	5.8	17.4	1.9		61	7	5.19	9.81
FM 9170 B2F	5.5	27.8	5.0	17.1	1.0	9	23	4	4.90	9.42
FM 2989 GLB2	6	26.3	6.0	17.8	1.0		32	2	5.04	10.29
FM 1944 GLB2	6	29.0	6.5	17.5	1.3	8	35	2	5.42	10.41
BX 1445 GLB2	5.5	30.0	5.0	17.8	1.5	7	29	4	5.25	8.63
ST 6448 GLB2	6	25.3	6.0	14.0	2.3		18	2	4.92	10.53
BX 1347 GLB2	6	27.0	5.4	16.4	1.3	9	56	4	5.27	9.79
ST 4946 GLB2	6.5	30.3	5.6	16.9	1.1	8	41	4	5.07	9.72
ST 5458 B2RF	6	27.3	5.6	16.6	1.3	7	53	3	5.19	9.75
DP 1219 B2RF	5.5	29.3	5.8	17.5	1.3	9	27	1	4.55	8.27
DP 1044 B2RF	5	26.8	6.5	16.9	0.9	7	32	4	4.50	8.36
DP 1359 B2RF	5.5	30.5	6.0	18.1	1.4	10	28	2	4.80	7.75
DP 12R249	5.5	30.9	5.6	17.6	1.6	9	23	3	4.65	7.86
DP 12R242	4.5	30.8	5.4	16.6	1.4	8	33		4.66	8.07
DP 1321 B2RF	6	28.2	5.4	17.3	0.8	5	77	1	4.76	9.35
AM1511 B2RF	6	25.7	6.3	16.3	1.1	7	55	3	5.14	9.53
PHY 333 WRF	6	27.3	5.1	16.0	0.8	7	56	1	4.90	9.68
PHY 499 WRF	6	28.4	6.5	17.5	1.6	8	41	3	4.72	9.51
PHY 367 WRF	6	28.6	7.0	17.4	0.8	7	43	2	4.56	8.92
PH 339 WRF	6	28.8	5.8	17.6	1.3	7	82	3	4.72	9.43
PHY 375 WRF	5.5	30.4	6.5	18.3	1.8	4	60	3	4.78	9.51
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Variety	Seedling Vigor	Height	1st F Branch	Total Nodes	NAWF at Sept. 1	Stay Green rating Oct 2	%Open Boll 3-Oct	Storm Resistance	Boll Weight	100 Fuzzy Seed Weight
DGX 11W351 B2RF	6	28.0	6.6	17.7	0.8	8	27	4	5.09	9.40
DGX 11WSRF794 RF	5.5	28.4	6.9	18.5	1.1	9	45	2	4.89	9.03
DGX CT13464 B2RF	6	28.4	6.9	17.0	1.3	8	45		5.11	10.46
DGX CT13454 B2RF	6	27.9	5.3	16.6	1.0	8	43	5	4.41	9.86
DGX CT 13125 B2RF	5.5	28.8	5.1	17.5	1.8		51	5	4.71	9.33
DGX 11WSRF692-1 RF	6	29.3	6.0	17.3	1.3	8	34	5	4.91	8.77
ATX 65207 B2RF	6	28.3	6.2	16.3	1.0	6	55	3	4.65	8.89
ATX Nitro 44 B2RF	5.5	28.4	6.3	16.5	1.1	7	54	4	5.06	10.15
ATX Epic RF	6	25.9	6.5	16.4	1.1	9	48	3	5.37	9.94
FM 9180 B2F	6	26.3	4.5	16.8	1.8	8	37	6	5.46	10.80
FM 1944 GLB2 PV**	6	25.8	4.0	18.0	2.0	7	27	3	5.42	10.54
FM 9063 B2F	6	27.0	4.3	17.4	3.0	8	27	6	5.56	10.89
ST 4288 B2F	6.5	28.1	5.5	17.3	1.1	7	52	3	4.99	10.11
DP 0935 B2RF	6	30.5	5.9	16.4	1.6		26	4	5.58	9.99
DP 1032 B2RF	5	29.6	7.1	16.3	1.3	9	23	2	4.93	8.52
DP 1032 B2RF HSd*	6	30.5	5.5	17.0	0.3	9	41		4.78	8.59
NG 4012 B2RF	6	28.3	7.0	16.9	1.4		57	3	5.03	9.23
DG 2570 B2RF	6	26.5	5.5	17.8	2.0		23	5	5.12	10.07
ATX EDGE B2RF	5.5	29.0	4.5	18.5	1.8		42	3	4.74	9.07
Average	6	28.1	5.8	17.1	1.3	8	1015		4.96	9.46
P>(F) <sup>6</sup>									0.01	
LSD (P=0.05)									0.40	
CV %									4.01	
*HSd = Higher seeding rate 3.79 seeds/ft or 49,533 seeds/acre compared to all others at 3.09 seeds/foot or 40,384 seeds/acre										
**PV = PonchoVotivo seed treatment										

**Southern Rolling Plains, D7**

**Table 5.**

					2013 Dryland Cotton Variety Trial					Texas A&M AgriLife Extension				
Name of County:	Jones				Plant Date: June 17, 2013									
County ID Number:	253				Harvest Date: Dec. 28, 2013									
District number:	7				Design: 16 rows, 2,800 ft, 30" spacing, 2X1, Unreplicated									
Year:	2013				Fertility:									
Producer:	Larry Lytle				Herbicide:									
					Fiber Quality					Lint	Seed	Total	2012*	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout			Color-	Length		Strength		Loan	Return	Return	Return	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 13 tested
DP 1359 B2 RF	503	633	0.40	0.51	31-1	1.05	4.7	30.1	80.9	\$53.90	\$271.11	\$94.95	\$366.05	n.t.
NG 1511 B2 RF	396	513	0.39	0.51	31-2	1.00	4.7	30.4	80.1	\$50.40	\$199.33	\$76.99	\$276.32	1
DP 1044 B2 RF	371	551	0.35	0.52	42-1	1.10	4.1	31.1	81.6	\$51.60	\$191.42	\$82.63	\$274.05	4
PHY 367 WRF	346	484	0.38	0.53	31-1	1.09	4.5	28.5	80.6	\$55.70	\$192.96	\$72.54	\$265.50	5
PHY 499 WRF	363	471	0.38	0.49	31-1	1.04	5.0	31.5	82.4	\$52.30	\$190.08	\$70.72	\$260.80	3
DP 1219 B2 RF	330	496	0.35	0.53	22-1	1.13	4.3	31.6	81.5	\$55.00	\$181.77	\$74.36	\$256.13	2
FM 2989 GL B2	331	476	0.36	0.52	31-1	1.05	4.5	27.7	80.1	\$53.60	\$177.39	\$71.46	\$248.85	12
DP 1321 B2RF	331	477	0.36	0.52	23-1	1.14	4.3	34.9	82.4	\$51.85	\$171.50	\$71.48	\$242.97	n.t.
ST 4946 GL B2	310	434	0.36	0.50	31-2	1.02	4.8	30.6	80.7	\$52.10	\$161.51	\$65.05	\$226.56	n.t.
NG 5315 B2RF	290	382	0.37	0.49	31-1	1.09	4.6	29.5	82.9	\$55.90	\$162.11	\$57.30	\$219.41	n.t.
FM 2484 B2 F	271	356	0.38	0.50	31-1	1.09	4.4	30.0	79.6	\$55.50	\$150.18	\$53.42	\$203.60	n.t.
FM 1944 GLB2	223	305	0.35	0.48	41-2	1.01	4.7	29.6	78.2	\$48.30	\$107.50	\$45.81	\$153.31	7
Average	339	465	0.37	0.51	-	1.07	4.5	30.5	80.9	\$53.01	\$179.74	\$69.73	\$249.46	
Max.	503	633	0.40	0.53	-	1.14	4.98	34.9	82.9	\$55.90	\$271.11	\$94.95	\$366.05	
Min.	223	305	0.35	0.48	-	1.00	4.12	27.7	78.2	\$48.30	\$107.50	\$45.81	\$153.31	
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									
* Planted on R. Newman farm in 2012														

**Table 6.**

2013 Dryland Cotton Variety Trial					Texas A&M AgriLife Extension									
Name of County:	Nolan (353)				Plant Date:									
County ID Number:	353				Harvest Date:									
District number:	7				Design:									
Year:	2013				Fertility:									
Producer:	Don Martin				Herbicide:									
Fiber Quality										Lint	Seed	Total	2012	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout			Color-	Length	Strength		Uniformity	Loan	Return	Return	Return	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)		Value	(\$/acre)	(\$/acre)	(\$/acre)	of # tested
NG 1511 B2RF	339	500	0.28	0.41	41-2	1.10	4.2	31.4	81.3	\$54.00	\$183.06	\$74.93	\$257.99	5
NG 5315 B2RF	350	522	0.25	0.38	41-2	1.02	4.1	30.4	78.7	\$50.10	\$175.24	\$78.37	\$253.61	n.t.
FM 1944 GLB2	239	403	0.23	0.38	41-3	1.00	3.8	27.4	77.0	\$48.25	\$115.52	\$60.40	\$175.92	n.t.
ST 4946 GLB2	313	463	0.27	0.40	41-4	1.02	4.1	31.1	79.7	\$49.90	\$156.18	\$69.45	\$225.63	n.t.
FM 2484 B2F	224	383	0.23	0.39	41-3	1.01	3.8	28.5	77.5	\$48.25	\$108.19	\$57.39	\$165.58	n.t.
PH 499 WRF	162	235	0.25	0.36	41-3	0.95	4.3	29.1	79.7	\$47.55	\$77.19	\$35.19	\$112.38	n.t.
FM 2989 GLB2	266	443	0.23	0.39	41-3	0.97	3.6	29.7	79.0	\$47.40	\$126.23	\$66.41	\$192.64	11
DP 1044 B2RF	223	358	0.23	0.37	41-4	1.03	4.1	29.9	78.3	\$49.25	\$109.67	\$53.72	\$163.40	1
FM 9170 BCF	264	392	0.26	0.38	41-5	0.97	3.6	25.8	77.8	\$45.20	\$119.17	\$58.81	\$177.98	6
PH 367 WRF	127	210	0.20	0.33	42-3	0.99	4.2	28.6	78.3	\$47.45	\$60.41	\$31.52	\$91.93	10
Average	251	391	0.24	0.38	-	1.01	4.0	29.2	78.7	\$48.74	\$123.09	\$58.62	\$181.71	
Max.	350	522	0.28	0.41	-	1.10	4.27	31.4	81.3	\$54.00	\$183.06	\$78.37	\$257.99	
Min.	127	210	0.20	0.33	-	0.95	3.62	25.8	77.0	\$45.20	\$60.41	\$31.52	\$91.93	
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: Zach Wilcox (325)235-3184 or Dr. David Drake (325)653-4576									

**Table 7.**

2013 Cotton Variety Trial					Texas A&M AgriLife Extension									
Name of County:	Fisher				Plant Date:									
County ID Number:					Harvest Date:									
District number:	7				Design: hand picked 13'1" of row with 3 samples per variety									
Year:	2013				Fertility:									
Producer:	Todd Coker				Herbicide:									
Fiber Quality										Lint	Seed	Total	2012	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout			Color-	Length	Strength			Loan	Return	Return	Return	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of #tested
DP 1359 B2RF	1144	1313	0.36	0.42	21-1	1.10	4.52	31.15	80.80	\$57.05	\$652.60	\$196.95	\$849.55	n.t.
FM 2989 GLB2	1022	1423	0.29	0.40	31-2	1.11	4.48	31.00	80.90	\$57.55	\$588.18	\$213.51	\$801.69	13
ST 4946 GLB2	1050	1409	0.33	0.43	31-1*	1.15	3.96	32.40	82.10	\$55.88	\$586.56	\$211.32	\$797.89	n.t.
FM 2484 B2F	1021	1353	0.36	0.48	21-1	1.18	3.97	33.40	82.15	\$56.10	\$572.66	\$202.91	\$775.56	n.t.
PH 499 WRF	952	1066	0.40a	0.44	31-1	1.08	5.01	32.00	81.85	\$55.63	\$529.83	\$159.85	\$689.67	4
FM 1944 GLB2	927	1084	0.32	0.38	21-1	1.10	4.74	30.20	82.35	\$55.48	\$514.14	\$162.56	\$676.70	3
PH 367 WRF	844	1165	0.29	0.40	31-2*	1.11	4.25	31.80	81.45	\$56.65	\$477.99	\$174.79	\$652.78	1
DP 1044 B2RF	814	1063	0.30	0.39	21-1*	1.09	4.45	33.20	80.50	\$56.18	\$457.48	\$159.45	\$616.93	11
NG 5315 B2RF	702	1014	0.27	0.40	31-1*	1.13	4.31	32.35	80.90	\$56.43	\$396.38	\$152.10	\$548.49	n.t.
Average	942	1210	0.32	0.41	-	1.11	4.41	31.94	81.44	\$56.33	\$530.65	\$181.49	\$712.14	
P>(F) <sup>6</sup>	0.40	0.57	0.00	0.03		0.12	0.02	0.04	0.19	0.97				
LSD (P=0.05)	n.s.	n.s.	0.03	0.05		n.s.	0.37	1.33	n.s.	n.s.				
CV %	23.75	25.41	5.40	0.44		2.59	4.91	2.41	0.87	3.46				

<sup>1</sup> Values followed by an (a) are not significantly different than the highest treatment in the column

<sup>6</sup> 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 treatments

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: Tyler Roberts (325)776-3259 or Dr. David Drake (325)653-4576



**Table 8.**

		2013 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension						
Name of County:	Tom Green (451)					Design:	40", 16 rows-except for NG 5313 B2RF with twenty rows. Unreplicated						
District number:	7					Irrigation:	SSI						
Year:	2013					Fertility:	15 gal 10-34-0 pre-plant; 120 units of Nitrogen during growing season applied with SSI						
Producer:	John and Doug Wilde					Herbicide:	post plant 1 pt. Direx, 2 pts. Caparol 1 ½ pts. Generic Glyphosate						
Plant Date:	May 22, 2013					Harvest Aids:	5 lbs. Temik @ planting						
Harvest Date:	Nov. 4, 2013												
													2012 Lint yld
Variety	Lint turn %	Seed turn	Bur Cotton yld lb/ acre	Lint yld	Seed yld lb/ acre	Lint loan value \$/lb	Lint value	Seed value	Total value	Ginning cost	Seed technology	Net value	ranking of 20 tested
DP 1359 B2RF	27.5	53.2	4980	1368	2647	0.518	708.59	231.62	940.22	149.39	71.87	718.95	n.t.
DP 1321 B2RF	27.1	46.9	5045	1370	2368	0.5325	729.37	207.19	936.56	151.36	73.03	712.18	n.t.
DG 2570 B2RF	27.6	53.2	4643	1283	2468	0.538	690.32	215.97	906.29	139.28	71.75	695.27	9
PHY 499 WRF	27.3	48.5	4586	1251	2222	0.5385	673.52	194.47	867.99	137.59	66.6	663.81	7
NG 1511 B2RF	27.8	46.9	4869	1355	2286	0.492	666.7	199.99	866.69	146.08	67.78	652.83	1
DP 1219 B2RF	25.8	42.6	4912	1269	2090	0.5415	687.34	182.91	870.25	147.37	73.35	649.53	3
FM 1944 GLB2	27.3	51.1	4307	1176	2200	0.542	637.57	192.46	830.03	129.22	64.24	636.57	20
PHY 565 WRF	26.7	48	4522	1207	2168	0.5365	647.5	189.72	837.22	135.65	66.6	634.98	n.t.
DG CT13545 B2RF	27.4	47.1	4419	1213	2081	0.533	646.41	182.09	828.51	132.56	71.75	624.2	n.t.
ST 4946 GLB2	27.4	49.4	4436	1216	2213	0.5055	614.61	193.66	808.26	133.08	73.35	601.83	n.t.
ATX Nitro-44 B2RF	25.8	49.4	4888	1263	2414	0.4765	601.74	211.2	812.94	145.63	71.54	594.77	8
DP 1044 B2RF	25.2	49.1	4426	1115	2171	0.539	600.99	189.95	790.93	132.77	73.03	585.13	n.t.
FM 2989 GLB2	26.4	51.5	4259	1125	2195	0.4895	550.93	192.08	743.01	127.77	67.78	547.46	18
NG 5315 B2RF	27.9	46.2	3956	1103	1829	0.494	544.36	160.03	704.39	118.91	67.78	517.92	n.t.
FM 2484 B2F	26.9	47.2	3969	1066	1872	0.494	526.81	163.83	690.64	119.06	64.24	507.34	15
P HY 367 WRF	26.5	33.6	4356	1155	1464	0.4955	572.44	128.1	700.54	130.68	73.03	496.84	17
Average	26.9125	47.74375	4535.8125	1220.94	2168	0.516625	631.2	189.704375	820.904375	136.025	69.8575	614.9756	
Max	27.9	53.2	5045	1370	2647	0.542	729.37	231.62	940.22	151.36	73.35	718.95	
Min	25.2	33.6	3956	1066	1464	0.4765	526.81	128.1	690.64	118.91	64.24	496.84	

**Table 9.**

**A.**

2013 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension						
Name of County:	Tom Green (451)			Design:			4 rows, 32 ft., 40". 4 replications						
District number:	7			Irrigation:			SSI						
Year:	2013			Fertility:			100 lb. 11-52-0 pre-plant, 60 lbs. 32-0-0 through SSI during season						
Producer:	Daryl & Doyle Schniers			Herbicide:			Topguard® for control of cotton root rot						
Plant Date:	May 28, 2013			Harvest Aids:			16 fl oz Prep & 16 fl oz Folex followed by 23 oz Gramoxone Inteon & O						
Harvest Date:	Nov. 19, 2013												
			Bur Cotton	Lint	Seed	Lint Loan	Lint	Seed	Total	Ginning	Seed	Net	
	Lint	Seed	yield	yield	yield	value	value	value	value	cost	Technology	value	
Variety	% Turnout		lb/acre			\$/lb	\$/acre						
DP 1044B2RF	26.6	45.7	7344	1952	3353	0.5498	1,073.14	419.17	1,492.31	220.32	55.19	1,216.81	a
PHY X3122-40WRF	26.7	42.3	7375	1968	3120	0.5447	1,071.67	390.05	1,461.72	221.24	56.73	1,183.75	ab
DP 1359B2RF	23.9	39.1	8225	1966	3220	0.5415	1,064.36	402.51	1,466.87	246.76	55.83	1,164.28	abc
DP 1219B2RF	23.9	42.7	8004	1912	3422	0.5405	1,033.42	427.72	1,461.14	240.12	59.60	1,161.41	abc
FM 2484B2F	27.1	44.3	7119	1929	3153	0.5378	1,037.37	394.08	1,431.45	213.58	56.73	1,161.14	abc
PHY 499WRF	24.9	42.9	7643	1906	3277	0.5293	1,009.11	409.62	1,418.73	229.30	58.09	1,131.34	abcd
PHY 367WRF	26.3	42.7	7068	1858	3016	0.5487	1,019.51	377.02	1,396.53	212.05	57.22	1,127.26	abcd
ST 4946GLB2	26.7	44.6	6949	1857	3096	0.5392	1,001.17	387.03	1,388.20	208.48	56.17	1,123.56	abcd
FM 2989GLB2	27.7	47.5	6616	1834	3144	0.5300	971.99	393.06	1,365.05	198.47	56.17	1,110.40	abcd
NG 1511B2RF	27.2	41.2	6779	1847	2794	0.5417	1,000.51	349.29	1,349.79	203.37	57.57	1,088.86	abcd
DG 2570B2RF	27.1	43.9	6711	1816	2946	0.5320	965.99	368.19	1,334.19	201.33	56.17	1,076.69	abcd
DG CT13545B2RF	23.8	42.2	7368	1752	3110	0.5430	951.55	388.79	1,340.34	221.03	57.60	1,061.70	bcd
DP 1321B2RF	24.8	34.6	7790	1935	2693	0.5142	995.10	336.64	1,331.73	233.69	57.17	1,040.88	bcd
NG 5315B2RF	26.5	41.2	6704	1777	2759	0.5325	946.19	344.88	1,291.07	201.12	56.26	1,033.69	cd
PHY 565WRF	25.7	41.2	6789	1748	2794	0.5337	932.60	349.28	1,281.88	203.68	54.17	1,024.03	cd
FM 1944 GLB2	27.6	45.5	6183	1706	2816	0.5282	901.30	351.96	1,253.26	185.50	58.00	1,009.75	d
All-Tex Nitro-44 B2RF	23.6	41.6	6187	1461	2574	0.5362	783.50	321.77	1,105.27	185.61	54.81	864.85	e
Test average	25.9	42.5	7109	1837	3017	0.5366	985.79	377.12	1,362.91	213.27	56.68	1,092.96	
CV, %	2.6	2.7	7.4	7.6	7.6	4.8	7.6	7.6	7.6	7.4	--	7.9	
OSL	<0.0001	<0.0001	0.0007	0.0148	0.0014	0.9856	0.0066	0.0014	0.0095	0.0007	--	0.0063	
LSD	1.1	1.9	870	231	380	NS	123.85	47.51	171.30	26.10	--	144.49	

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:  
 \$3.00/cwt ginning cost.  
 \$250/ton for seed.  
 Value for lint based on CCC loan value from grab samples and FBRI HVI results.

**B.**

2013 Irrigated Cotton Variety Trial		Texas A&M AgriLife Extension
Name of County:	Tom Green (451)	Fertilizer: 100 lb. 11-52-0 pre-plant,
District number:	7	60 lbs. 32-0-0 through SSI during season
Producer:	Daryl & Doyle Schniers	Insecticide: None
Plant Date:	June 5, 2013	Fungicide: Topguard® for control
Harvest Date:	Nov. 19, 2013	of cotton root rot
Variety	Plants/row (3rd True Leaf Stage)	Plants/acre ( 3rd True Leaf Stage)
All-Tex Nitro 44 B2RF	3	39267
Dyna-Gro 2570 B2RF	2.8	36649
Dyna-Gro CT 13545 B2RF	2.9	37958
PHY 339 WRF	3	39267
FiberMax 1944 GLB2	1.7	22251
Stoneville 4946 GLB2	2.5	32723
FiberMax 2989 GLB2	2.4	31414
FiberMax 2484 B2F	2.8	36649
Phytogen 565 WRF	2.2	28796
Phytogen 367 WRF	2.9	37958
NexGen 1511 B2RF	2.6	34031
Phytogen 499 WRF	2.9	37958
NexGen 5315 B2RF	2.4	31414
Deltapine 1219 B2RF	2.9	37958
Deltapine 1359 B2RF	3.1	40576
Deltapine 1044 B2RF	2.8	36649
Deltapine 1321 B2RF	2.8	36649
Average	2.7	35186
Average plant populations were determined from two different locations within		
each plot at each growth stage.		

**Table 10.**

**A.**

2013 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension				
Name of County:	Tom Green				Plant Date: June 13, 2013. 39,000 seeds/ac									
County ID Number:	451				Harvest Date: Dec. 30, 2013									
District number:	7				Design: 3 reps, 8 rows in, 1 out 1320 ft in length									
Year:	2013				Pivot Irrigation									
Producer:	Kenny Gully													
Yield Per Acre										Fiber Quality				
Variety	In Pounds	% Turnout		Color-Leaf	Fiber			Strength (gram/tex)	Uniformity	CCC Loan Value	Gross Return (\$/acre)	Gross Return (\$/acre)	Total Gross Return (\$/acre)	2012 Lint yld ranking of 14 tested
		Lint	Seed		Length (staple)	Mic								
DP 1219 B2RF	817	1362	0.24	0.40	34-3*	1.09	3.3	30.2	80.1	\$45.78	\$374.06	\$204.23	\$578.29	4
DP 1321 B2RF	790	1163	0.26	0.38	33-1*	1.15	3.5	32.1	81.2	\$49.42	\$390.36	\$174.47	\$564.84	n.t.
FM 2989 GLB2	713	1241	0.23	0.40	43-2*	1.10	4.1	30.5	81.7	\$48.33	\$344.44	\$186.11	\$530.55	12
NG 1511 B2RF	671	1025	0.27	0.41	33-2*	1.13	3.6	29.7	81.1	\$49.27	\$330.81	\$153.81	\$484.62	5
DP 1359 B2RF	668	1084	0.24	0.38	34-2*	1.13	3.4	29.5	80.8	\$47.13	\$314.80	\$162.56	\$477.36	3
PHY 499 WRF	672	1103	0.23	0.38	34-2*	1.11	3.3	30.5	79.6	\$45.40	\$304.91	\$165.45	\$470.36	6
PHY 367 WRF	610	1064	0.23	0.40	34-3*	1.09	3.6	28.9	81.1	\$46.95	\$286.42	\$159.58	\$446.00	8
DP 1044 B2RF	589	1090	0.22	0.40	34-3*	1.10	3.7	30.6	82.0	\$47.87	\$281.75	\$163.47	\$445.22	n.t.
FM 1944 GLB2	602	1088	0.23	0.42	34-1*	1.10	3.4	29.4	81.2	\$46.20	\$278.06	\$163.18	\$441.24	11
FM 2484 B2F	561	960	0.22	0.38	44-3*	1.11	3.9	30.7	81.6	\$48.63	\$273.04	\$144.04	\$417.08	9
ST 4946 GLB2	572	957	0.24	0.40	34-2*	1.10	3.5	29.9	81.2	\$47.22	\$270.28	\$143.49	\$413.77	n.t.
NG 5315 B2RF	-	-	0.21	0.37	44-2*	1.10	3.9	30.5	82.1	\$48.22				n.t.
Average	629	1054	0.23	0.39	-	1.11	3.6	30.2	81.2	\$47.53	\$313.54	\$165.49	\$479.03	
P>(F) <sup>6</sup>	0.02	0.02	0.02	0.09		0.09	0.00	0.01	0.01	0.14				
LSD (P=0.05)	202.62	302.38	0.02	n.s.		n.s.	0.3	1.1	1.0	n.s.				
CV %	22.42	19.99	7.37	4.59		2.11	5.9	2.6	0.9	\$3.66				

Values in a column that are background highlighted are not statistically different than the highest value in the test.

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: Rick Minzenmayer (325) 365-1292 or Dr. David Drake (325)653-4576

Note: Yeild data from NG5315 was removed due to a poor stand

**B. 2013 K. Gully Agronomic data**

2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial			
Average of 9 samples per variety: 3 samples per block: 3 blocks(replications)			
Kenny Gully Farm			
Variety	Stand Count	Bolls/ ft.	% Open Boll 10/10/14
DP 1044 B2RF	17443	33.2	0
DP 1219 B2RF	18606	32.0	2
DP 1321 B2RF	20059	33.0	1
DP 1359 B2RF	21804	32.36	4
FM 1944 GLB2	21222	22.62	5
FM 2484 B2F	18896	24.18	0
FM 2989 GLB2	22966	20.22	0
NG 1511 B2RF	13082	24.02	1
NG 5313 B2RF	13373	21.27	0
PHY 367 WRF	18024	25.78	4
PHY 499 WRF	16861	21.80	2
ST 4946 GLB2	22385	27.93	1
Average	18727	26.5	

**Table 11.**

**A.**

2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial													
David R. Drake, Extension Agronomist, San Angelo, TX						Plant Date: June 4, 2013, 40" rows, seeded 3.09 seeds/ft, ave. plant stand plts/ac 38,034							
Producers Name: Michael Block, Wall, TX						Design: 4 row plots 33ft in length, 4 replications in RCBD, 4 rows harvested							
Drip irrigated on 40" spacing perpendicular to rows						Harvest Date: Nov 14-15, 2013, stripper							
Pest Control: Seed treatments						Two or three turnout and quality samples ginned at Texas A&M AgriLife Research and Extension Center in Lubbock, TX							
For Questions about this Variety Trial Contact: drdrake@ag.tamu.edu or (325)653-4576													

Variety <sup>1</sup>	Yield Per Acre		Fiber Quality <sup>2</sup>								Lint Gross Return (\$/acre)	Seed Gross Return <sup>5</sup> (\$/acre)	Total Gross Return (\$/acre)		
	In Pounds		% Turnout		Fiber			CCC	Loan	Gross				Gross	
	Lint	Seed	Lint	Seed	Color- Leaf <sup>3</sup>	Length (staple)	Mic	Strength (gram/tex)	Uniformity	Value <sup>4</sup>				Return	Return <sup>5</sup>
DP 1359 B2RF	1105	1558	0.29	0.41	31-3,41-4	1.08	4.5	32.0	79.1	\$53.43	\$590.59	\$233.71	\$824.31		
DP 1219 B2RF	1117	1625	0.29	0.42	41-4,41-5	1.08	4.4	31.5	80.2	\$51.40	\$574.04	\$243.79	\$817.82		
PHY 339 WRF	1067	1656	0.29	0.46	41-4,51-5	1.13	3.9	31.5	81.7	\$51.63	\$550.72	\$248.44	\$799.15		
DP 12R249	1090	1540	0.31	0.43	41-5,41-3	1.08	4.2	30.8	79.3	\$51.70	\$563.69	\$231.03	\$794.72		
DP 12R242	1094	1498	0.30	0.41	41-4,41-6	1.09	4.6	30.5	81.6	\$50.95	\$557.41	\$224.64	\$782.05		
DGX 11W351 B2RF	1025	1485	0.29	0.42	41-5,41-4	1.07	4.1	32.5	80.3	\$51.48	\$527.65	\$222.79	\$750.43		
DGX 11WSRF749 RF	1012	1529	0.29	0.43	41-5,41-4	1.09	4.1	29.5	80.2	\$51.40	\$520.34	\$229.34	\$749.68		
BX 1445 GLB2	999	1367	0.29	0.40	41-5,41-4	1.14	4.5	33.9	81.8	\$52.65	\$525.82	\$204.98	\$730.79		
FM 1944 GLB2	937	1545	0.27	0.45	41-3,41-5	1.12	4.0	31.3	79.7	\$52.73	\$494.23	\$231.77	\$726.00		
AM1511 B2RF	1059	1505	0.29	0.41	51-4,51-7	1.09	4.0	31.9	80.3	\$47.13	\$499.14	\$225.81	\$724.95		
DGX 11WSRF692-1 RF	1011	1480	0.29	0.42	41-5,51-5	1.09	3.7	32.3	79.7	\$49.28	\$498.35	\$222.00	\$720.35		
DP 1321 B2RF	968	1553	0.27	0.43	51-4,51-4	1.11	3.9	31.8	81.9	\$50.05	\$484.49	\$232.88	\$717.37		
FM 9180 B2F	960	1604	0.27	0.44	41-5,41-7	1.14	3.9	33.4	81.1	\$49.40	\$474.19	\$240.62	\$714.81		
ATX Epic RF	963	1541	0.28	0.44	41-5,41-6	1.07	4.2	31.4	80.6	\$49.83	\$479.97	\$231.22	\$711.19		
PHY 499 WRF	1006	1587	0.27	0.43	51-6,51-7	1.10	4.1	32.5	81.4	\$46.58	\$468.69	\$238.04	\$706.74		
ST 4946 GLB2	959	1599	0.26	0.44	51-6,51-7	1.11	3.9	33.6	82.1	\$48.55	\$465.57	\$239.85	\$705.42		
PHY 333 WRF	1009	1630	0.26	0.42	51-7,51-8	1.16	3.7	30.0	80.8	\$45.55	\$459.39	\$244.51	\$703.90		
DGX CT 13125 B2RF	972	1533	0.27	0.43	41-6,41-5	1.15	3.5	32.1	80.8	\$48.45	\$471.16	\$229.93	\$701.09		
FM 2484 B2F	941	1329	0.29	0.41	41-3,41-5	1.14	3.9	33.1	81.2	\$53.10	\$499.43	\$199.39	\$698.82		
FM 9170 B2F	921	1405	0.28	0.42	41-4,41-3	1.11	3.8	31.3	78.7	\$53.00	\$487.98	\$210.68	\$698.66		
DP 1044 B2RF	906	1432	0.27	0.43	41-5,41-4	1.09	3.9	30.9	80.1	\$52.10	\$472.24	\$214.82	\$687.06		
PHY 375 WRF	917	1530	0.25	0.42	51-5	1.10	3.7	30.9	79.8	\$48.90	\$448.32	\$229.44	\$677.76		
ST 5458 B2RF	937	1604	0.26	0.45	51-6,41-8	1.10	3.7	30.7	78.6	\$46.45	\$435.39	\$240.62	\$676.00		
PHY 367 WRF	928	1537	0.26	0.42	51-6	1.11	3.8	31.3	80.6	\$47.43	\$440.32	\$230.53	\$670.85		
FM 1740 B2F	859	1471	0.26	0.44	41-3	1.06	4.0	30.0	79.3	\$51.85	\$445.62	\$220.62	\$666.25		

Continued on next page

Variety <sup>1</sup>	Yield Per Acre		Fiber Quality <sup>2</sup>							Lint	Seed	Total	
	In Pounds		% Turnout		Fiber					CCC	Gross	Gross	Gross
	-----		-----		Color-	Length	Strength		Loan	Return	Return <sup>5</sup>	Return	
	Lint	Seed	Lint	Seed	Leaf <sup>3</sup>	(staple)	Mic	(gram/tex)	Uniformity	Value <sup>4</sup>	(\$/acre)	(\$/acre)	(\$/acre)
DGX CT13464 B2RF	947	1508	0.28	0.45	51-7,51-8	1.17	3.7	33.8	81.8	\$45.80	\$433.95	\$226.24	\$660.20
FM 2989 GLB2	874	1418	0.26	0.42	51-5,41-4	1.08	4.2	30.8	79.8	\$50.20	\$438.85	\$212.73	\$651.57
DGX CT13454 B2RF	853	1517	0.25	0.45	51-7	1.22	3.6	36.3	83.8	\$46.00	\$392.25	\$227.53	\$619.79
ATX 65207 B2RF	831	1427	0.25	0.43	51-6	1.06	3.7	30.8	80.6	\$46.95	\$390.30	\$213.99	\$604.29
BX 1347 GLB2	824	1302	0.26	0.42	41-5,51-7	1.11	4.0	30.0	80.0	\$47.93	\$395.07	\$195.29	\$590.36
ATX Nitro 44 B2RF	842	1444	0.26	0.45	51-7	1.18	3.4	34.4	81.8	\$43.90	\$369.73	\$216.65	\$586.38
DP 1032 B2RF	1096**	1606**	0.28	0.41	41-3,41-4	1.08	4.3	30.8	80.8	\$53.58	\$587.25	\$240.95	\$828.19
DP 0935 B2RF	1011**	1521**	0.28	0.43	41-6,41-4	1.07	4.0	30.2	80.5	\$50.90	\$514.68	\$228.21	\$742.89
FM 9063 B2F	966**	1609**	0.28	0.46	41-6,41-5	1.13	4.0	32.1	81.7	\$50.45	\$487.30	\$241.29	\$728.59
DG 2570 B2RF	913**	1542**	0.27	0.46	41-4,41-3	1.09	3.9	32.1	81.1	\$53.50	\$488.30	\$231.36	\$719.66
ST 4288 B2F	887**	1544**	0.25	0.43	51-4,41-5	1.10	3.8	29.4	79.6	\$50.00	\$443.44	\$231.55	\$674.99
NG 4012 B2RF	867**	1390**	0.28	0.45	41-5,51-6	1.15	3.8	33.9	81.3	\$49.63	\$430.45	\$208.52	\$638.97
ST 6448 GLB2	787**	1285**	0.27	0.44	41-3,41-5	1.09	3.9	29.2	80.2	\$51.90	\$408.42	\$192.79	\$601.21
ATX EDGE B2RF	789**	1448**	0.24	0.44	51-6	1.10	3.8	30.3	79.4	\$46.80	\$369.37	\$217.25	\$586.62
Average	955	1505	0.27	0.43		1.11	3.9	31.6	80.6	\$49.81	\$476.52	\$225.79	\$702.31
P>(F) <sup>6</sup>	0.01	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01	-----	min/max	-----
LSD (P=0.05)	121	173	0.03	0.03		0.03	0.3	1.6	1.3	3.62	\$369.37	\$192.79	\$586.38
CV %	9	8	5.98	3.00		1.56	4.0	2.5	0.8	3.63	\$590.59	\$248.44	\$828.19
Acknowledgements of assistance from Michael Block, Producer; Rick Minzenmayer, Pam Halfmann, Alicia Theroit, Zan Gassiot, Brittany Gale and the sponsoring companies.													
References to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas A&M AgriLife Extension Service is implied.													
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).													
** Yields followed by (**) are based on 2 replications. Data is provided only as a reference and is not included in the analysis													
1 Values for varieties shaded in gray 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													
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. If samples differed both are listed.													
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. 2013 M. Block Agronomic data**

2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial									1= poor 10= excellent		1= poor 10= excellent	
Variety	Stand Count	Seedling Vigor	Height	1st F Branch	Total Nodes	NAWF at Sept. 1	Stay Green rating Oct 2	Bolls/ 5ft.	%Open Boll 3-Oct	Storm Resistance	Boll Weight	100 Fuzzy Seed Weight
FM 2484 B2F	41,491	5.5	24.8	6.9	16.0	0.5	9	147.8	29		4.60	9.54
FM 2484 B2F HSd*	43,124	6	27.1	5.3	17.3	1.0	9	121.3	17	3	4.77	9.76
FM 1740 B2F	41,491	5	25.8	5.8	17.4	1.9		100.3	61	7	5.19	9.81
FM 9170 B2F	38,551	5.5	27.8	5.0	17.1	1.0	9	143.0	23	4	4.90	9.42
FM 2989 GLB2	42,145	6	26.3	6.0	17.8	1.0		103.8	32	2	5.04	10.29
FM 1944 GLB2	34,957	6	29.0	6.5	17.5	1.3	8	105.3	35	2	5.42	10.41
BX 1445 GLB2	34,304	5.5	30.0	5.0	17.8	1.5	7	137.5	29	4	5.25	8.63
ST 6448 GLB2	38,551	6	25.3	6.0	14.0	2.3		98.0	18	2	4.92	10.53
BX 1347 GLB2	38,878	6	27.0	5.4	16.4	1.3	9	103.3	56	4	5.27	9.79
ST 4946 GLB2	39,531	6.5	30.3	5.6	16.9	1.1	8	107.5	41	4	5.07	9.72
ST 5458 B2RF	36,427	6	27.3	5.6	16.6	1.3	7	141.0	53	3	5.19	9.75
DP 1219 B2RF	33,814	5.5	29.3	5.8	17.5	1.3	9	104.5	27	1	4.55	8.27
DP 1044 B2RF	34,141	5	26.8	6.5	16.9	0.9	7	153.8	32	4	4.50	8.36
DP 1359 B2RF	37,898	5.5	30.5	6.0	18.1	1.4	10	121.3	28	2	4.80	7.75
DP 12R249	38,224	5.5	30.9	5.6	17.6	1.6	9	137.0	23	3	4.65	7.86
DP 12R242	37,571	4.5	30.8	5.4	16.6	1.4	8	98.5	33		4.66	8.07
DP 1321 B2RF	38,388	6	28.2	5.4	17.3	0.8	5	122.3	77	1	4.76	9.35
AM1511 B2RF	36,101	6	25.7	6.3	16.3	1.1	7	99.3	55	3	5.14	9.53
PHY 333 WRF	41,001	6	27.3	5.1	16.0	0.8	7	112.3	56	1	4.90	9.68
PHY 499 WRF	36,264	6	28.4	6.5	17.5	1.6	8	180.5	41	3	4.72	9.51
PHY 367 WRF	40,348	6	28.6	7.0	17.4	0.8	7	118.0	43	2	4.56	8.92
PH 339 WRF	40,185	6	28.8	5.8	17.6	1.3	7	118.8	82	3	4.72	9.43
PHY 375 WRF	36,264	5.5	30.4	6.5	18.3	1.8	4	107.3	60	3	4.78	9.51
Continued on next page												



Variety	Stand Count	Seedling Vigor	Height	1st F Branch	Total Nodes	NAWF at Sept. 1	Stay Green rating Oct 2	Bolls/ 5ft.	%Open Boll 3-Oct	Storm Resistance	Boll Weight	100 Fuzzy Seed Weight
DGX 11W351 B2RF	39,531	6	28.0	6.6	17.7	0.8	8	103.0	27	4	5.09	9.40
DGX 11WSRF794 RF	43,288	5.5	28.4	6.9	18.5	1.1	9	152.0	45	2	4.89	9.03
DGX CT13464 B2RF	32,507	6	28.4	6.9	17.0	1.3	8	69.5	45		5.11	10.46
DGX CT13454 B2RF	39,531	6	27.9	5.3	16.6	1.0	8	119.3	43	5	4.41	9.86
DGX CT 13125 B2RF	36,754	5.5	28.8	5.1	17.5	1.8		123.0	51	5	4.71	9.33
DGX 11WSRF692-1 RF	41,655	6	29.3	6.0	17.3	1.3	8	101.0	34	5	4.91	8.77
ATX 65207 B2RF	34,141	6	28.3	6.2	16.3	1.0	6	94.8	55	3	4.65	8.89
ATX Nitro 44 B2RF	35,774	5.5	28.4	6.3	16.5	1.1	7	103.8	54	4	5.06	10.15
ATX Epic RF	39,858	6	25.9	6.5	16.4	1.1	9	84.3	48	3	5.37	9.94
FM 9180 B2F	43,125	6	26.3	4.5	16.8	1.8	8	115.0	37	6	5.46	10.80
FM 1944 GLB2 PV**	35,283	6	25.8	4.0	18.0	2.0	7	112.5	27	3	5.42	10.54
FM 9063 B2F	41,491	6	27.0	4.3	17.4	3.0	8	100.0	27	6	5.56	10.89
ST 4288 B2F	41,445	6.5	28.1	5.5	17.3	1.1	7	109.0	52	3	4.99	10.11
DP 0935 B2RF	32,997	6	30.5	5.9	16.4	1.6		98.5	26	4	5.58	9.99
DP 1032 B2RF	36,264	5	29.6	7.1	16.3	1.3	9	108.5	23	2	4.93	8.52
DP 1032 B2RF HSd*	48352	6	30.5	5.5	17.0	0.3	9	96.0	41		4.78	8.59
NG 4012 B2RF	44758	6	28.3	7.0	16.9	1.4		114.5	57	3	5.03	9.23
DG 2570 B2RF	34,631	6	26.5	5.5	17.8	2.0		50.5	23	5	5.12	10.07
ATX EDGE B2RF	41,491	5.5	29.0	4.5	18.5	1.8		83.0	42	3	4.74	9.07
Average	38,632	6	28.1	5.8	17.1	1.3	8	112.4	1015		4.96	9.46
P>(F) <sup>6</sup>	0.22										0.01	
LSD (P=0.05)	n.s.										0.40	
CV %											4.01	
*HSd = Higher seeding rate 3.79 seeds/ft or 49,533 seeds/acre compared to all others at 3.09 seeds/foot or 40,384 seeds/acre												
**PV = PonchoVotivo seed treatment												

**Permian Basin, D6**

**Table 12.**

		2013 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension					
Name of County:	Glasscock (173)					Design:	6 rows, 40" 2X1 , 1171 ft, Unreplicated							
District number:	6					Irrigation:	SDI 10" pre and 12" in season							
Year:	2013					Fertility:	120 units N and 20 units Potassium							
Producer:	Allan Fuchs					Herbicide:	Glyphosate (40 fl oz) twice.							
Plant Date:	May 28, 2013					Harvest Aids:	16 fl oz Prep & 16 fl oz Folex followed by 23 oz Gramoxone Inteon & 0.25 oz Aim							
Harvest Date:	Nov. 13, 2013													
		Fiber Quality							Lint	Seed	Total	2012		
Yield Per Acre						Fiber			CCC	Gross	Gross	Gross	Lint yld	
In Pounds		% Turnout		Color-	Length	Strength			Loan	Return	Return	Return	ranking	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 17 tested
DP 1219 B2RF	1593	2315	0.33	0.48	31-3	1.17	4.0	33.7	81.7	\$56.80	\$905.10	\$347.21	\$1,252.31	9
DG 2570 B2RF	1611	2303	0.35	0.50	41-3	1.10	4.7	33.3	83.4	\$54.10	\$871.61	\$345.51	\$1,217.12	n.t
DP 1044 B2RF	1584	2371	0.32	0.48	41-3	1.14	4.2	32.5	83.9	\$54.65	\$865.52	\$355.66	\$1,221.18	15
FM 2484 B2RF	1598	2304	0.33	0.48	31-5	1.19	3.9	33.5	83.0	\$54.15	\$865.19	\$345.60	\$1,210.79	11
PHY 499 WRF	1565	2208	0.34	0.47	41-3	1.13	4.3	32.1	83.7	\$54.50	\$853.05	\$331.25	\$1,184.30	1
ST 4946 GLB2	1636	2447	0.33	0.49	41-5	1.17	4.1	35.7	83.6	\$51.85	\$848.50	\$367.07	\$1,215.58	n.t
DP 1359 B2RF	1503	2016	0.35	0.47	41-2	1.15	4.5	33.7	81.6	\$54.40	\$817.80	\$302.34	\$1,120.14	n.t
ATX Edge B2RF	1478	2142	0.33	0.47	41-4	1.15	4.4	33.7	81.9	\$53.75	\$794.39	\$321.27	\$1,115.66	n.t
ATX Nitro B2RF	1463	2250	0.32	0.49	41-4	1.19	4.1	35.7	82.9	\$54.00	\$789.86	\$337.47	\$1,127.33	6
PHY 339 WRF	1441	1996	0.33	0.46	41-2	1.17	4.3	33.7	82.5	\$54.65	\$787.57	\$299.41	\$1,086.98	n.t
PHY 367 WRF	1421	2063	0.31	0.45	41-3	1.13	4.3	33.4	82.5	\$54.45	\$773.70	\$309.42	\$1,083.12	2
FM 1944 GLB2	1409	2204	0.30	0.48	41-2	1.17	4.3	32.5	80.8	\$54.50	\$767.71	\$330.58	\$1,098.29	14
PHY 375 WRF	1410	2050	0.32	0.47	41-2	1.11	4.5	31.3	81.8	\$54.30	\$765.58	\$307.57	\$1,073.15	5
Average	1516	2205	0.33	0.48	-	1.15	4.3	33.4	82.6	\$54.32	\$823.51	\$330.80	\$1,154.30	
Max.	1636	2447	0.35	0.50	-	1.19	4.73	35.7	83.9	\$56.80	\$905.10	\$367.07	\$1,252.31	
Min.	1409	1996	0.30	0.45	-	1.10	3.89	31.3	80.8	\$51.85	\$765.58	\$299.41	\$1,073.15	
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: Rebel Royall (432)354-2381 or Dr. David Drake (325)653-4576									

**Table 13.**

		2013 Irrigated Cotton Variety Trial								Texas A&M AgriLife Extension					
Name of County:	Glasscock				Plant Date: June 4, 2013										
County ID Number:	173				Harvest Date: Dec. 16, 2013									Late Variety	
District number:	6				Design: 8 rows, 40" , 1300 ft, Unreplicated									Test	
Year:	2013													J. Hoelscher	
Producer:	Darren Jost													Farm	
Yield Per Acre		Fiber Quality								CCC	Lint	Seed	Total	2012	
In Pounds		% Turnout		Color-	Fiber			Strength		Loan	Gross	Gross	Gross	Lint yld	
Variety	Lint	Seed	Lint	Seed	Leaf	Length (staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 17 tested	
FM 9250 GL	1337	2187	0.32	0.52	31-2	1.14	3.9	30.9	81.4	\$57.10	\$763.71	\$327.99	\$1,091.69	n.t.	
FM 2011 GT	1362	1948	0.33	0.47	31-1	1.10	4.3	30.5	82.0	\$56.25	\$766.14	\$292.25	\$1,058.39	n.t.	
ST 4946 GLB2	1407	1979	0.37	0.52	41-3	1.09	4.2	30.7	81.1	\$53.90	\$758.56	\$296.85	\$1,055.41	n.t.	
PHY 499 WRF	1410	1933	0.35	0.48	41-3	1.09	4.2	30.4	82.3	\$54.00	\$761.53	\$289.93	\$1,051.46	3	
ATX EDGE B2RF	1249	2018	0.32	0.52	41-2	1.11	4.2	30.4	82.6	\$54.45	\$680.03	\$302.71	\$982.74	16	
DP 1044 B2RF	1253	1838	0.32	0.46	31-2	1.09	4.2	31.0	82.1	\$56.35	\$706.09	\$275.68	\$981.78	10	
DG 2570 B2RF	1292	1905	0.33	0.49	31-3	1.07	4.4	29.3	81.2	\$53.60	\$692.66	\$285.71	\$978.37	6	
PHY 375 WRF	1270	1867	0.34	0.50	41-2	1.06	4.0	29.5	81.3	\$52.75	\$669.70	\$280.02	\$949.72	7	
DG 2595 B2RF	1255	1702	0.35	0.47	41-1	1.08	4.5	29.9	82.1	\$53.65	\$673.41	\$255.31	\$928.72	n.t.	
FM 1944 GLB2	1147	1785	0.30	0.47	31-2	1.13	3.9	30.3	81.2	\$57.10	\$654.98	\$267.70	\$922.68	13	
DP 1359 B2RF	1180	1700	0.32	0.45	31-3	1.13	3.8	30.5	80.1	\$56.55	\$667.32	\$254.96	\$922.28	n.t.	
PHY 367 WRF	1204	1815	0.32	0.48	41-2	1.06	4.0	29.3	81.0	\$52.75	\$635.23	\$272.18	\$907.41	14	
PHY 339 WRF	1179	1724	0.31	0.45	41-1	1.15	4.3	30.2	82.3	\$54.35	\$640.86	\$258.61	\$899.47	n.t.	
ST 6448 GLB2	1069	1769	0.30	0.49	31-2	1.15	3.9	27.7	80.1	\$56.90	\$608.07	\$265.38	\$873.44	n.t.	
DP 1219 B2RF	977	2011	0.24	0.49	31-3	1.17	3.5	34.0	81.5	\$56.65	\$553.74	\$301.65	\$855.39	1	
Average	1240	1879	0.32	0.49	-	1.11	4.1	30.3	81.5	\$55.09	\$682.14	\$281.80	\$963.93		
Max.	1410	2187	0.37	0.52	-	1.17	4.45	34.0	82.6	\$57.10	\$766.14	\$327.99	\$1,091.69		
Min.	977	1700	0.24	0.45	-	1.06	3.54	27.7	80.1	\$52.75	\$553.74	\$254.96	\$855.39		

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: Rebel Royall (432)354-2381 or Dr. David Drake (325)653-4576

**Table 14.**

					2013 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension				
Name of County:	Upton (461)				Design: 6 rows, 40" 2X1 , 665 ft, Unreplicated									
District number:	6				Irrigation: SDI 6" pre & 8" in season									
Year:	2013				Fertility: 200 lbs 10-34-0 knifed pre-plant and 50 units N in season									
Producer:	Russ Eggemeyer				Herbicide: Glyphosate (48 fl oz) twice.									
Plant Date:	May 22, 2013				Harvest Aids: 24 fl oz Prep & 3 fl oz Gramoxone followed by 20 oz Gramoxone									
Harvest Date:	Oct. 31, 2013													
					Fiber Quality					Lint	Seed	Total	2012	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout			Color-	Length		Strength		Loan	Return	Return	Return	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 16 tested
DP 1044 B2RF	1218	1718	0.32	0.46	42-3	1.09	4.4	33.2	82.1	\$51.60	\$628.27	\$257.63	\$885.90	6
ST 4946 GLB2	1257	1835	0.34	0.49	42-5	1.07	4.5	32.3	82.0	\$48.85	\$613.96	\$275.18	\$889.14	n.t.
DP 1359 B2RF	1169	1586	0.32	0.44	42-4	1.08	4.2	31.6	81.7	\$51.10	\$597.54	\$237.90	\$835.45	n.t.
PHY 375 WRF	1188	1661	0.33	0.47	42-4	1.06	4.5	32.0	81.1	\$50.30	\$597.48	\$249.14	\$846.62	9
DP 1219 B2RF	1154	1596	0.32	0.44	42-3	1.10	4.1	33.8	80.6	\$51.65	\$595.86	\$239.43	\$835.29	5
FM 2484 B2RF	1087	1475	0.33	0.44	41-4	1.15	4.0	35.6	81.9	\$53.90	\$585.98	\$221.27	\$807.25	3
PHY 499 WRF	1120	1621	0.31	0.45	42-4	1.08	4.4	32.7	81.2	\$50.95	\$570.66	\$243.10	\$813.75	2
PHY 339 WRF	1082	1528	0.32	0.45	41-4	1.06	4.1	32.7	80.7	\$52.55	\$568.37	\$229.22	\$797.58	n.t.
PHY 367 WRF	1084	1586	0.31	0.45	42-3	1.06	4.3	29.7	80.7	\$50.40	\$546.26	\$237.88	\$784.14	10
ATX EDGE B2RF	1125	1755	0.30	0.46	41-6	1.08	4.5	30.3	79.8	\$48.30	\$543.20	\$263.32	\$806.52	n.t.
FM 1944 GLB2	964	1441	0.28	0.42	41-4	1.11	4.3	31.8	80.1	\$53.65	\$516.96	\$216.09	\$733.05	11
Average	1131	1618	0.32	0.45	-	1.09	4.3	32.3	81.1	\$51.20	\$578.59	\$242.74	\$821.34	
Max.	1257	1835	0.34	0.49	-	1.15	4.50	35.6	82.1	\$53.90	\$628.27	\$275.18	\$889.14	
Min.	964	1441	0.28	0.42	-	1.06	4.01	29.7	79.8	\$48.30	\$516.96	\$216.09	\$733.05	
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: Rebel Royall (432)354-2381, Raymond Quigg (432) 693-2313 or Dr. David Drake (325)653-4576														

**Table 15.**

		2013 Irrigated Cotton Variety Trial								Texas A&M AgriLife Extension				
Name of County:	Upton (461)					Design:		8 rows, 837 ft, Unreplicated						
District number:	6					Irrigation:		SDI 10" pre & 19" in season					Planted on	
Year:	2013					Fertility:		102 units N drip injected in season					D. Halfmann	
Producer:	John Evridge					Herbicide:		Glyphosate (40 fl oz) once.					farm	
Plant Date:	May 17, 2013					Harvest Aids:		24 fl oz Prep & 1 fl oz Sharpen followed by 2 fl oz ET & 24 oz Gramoxone						
Harvest Date: Nov.	Nov. 13, 2013													
Yield Per Acre		Fiber Quality				Lint		Seed		Total		2012		
In Pounds		% Turnout		Color-	Fiber	Strength		CCC	Gross	Gross	Gross	Lint yld		
Variety	Lint	Seed	Lint	Seed	Leaf	Length (staple)	Mic (gram/tex)	Uniformity	Value	Return (\$/acre)	Return (\$/acre)	Return (\$/acre)	of 13 tested	
DP 1219 B2RF	2140	2986	0.34	0.47	41-2	1.20	4.0	35.0	81.7	\$54.55	\$1,167.28	\$447.84	\$1,615.11	7
DG 2570 B2RF	2037	3073	0.32	0.48	41-4	1.13	4.2	33.0	81.9	\$53.85	\$1,096.77	\$461.00	\$1,557.77	2
ST 4946 GLB2	2110	3183	0.33	0.50	41-5	1.12	3.9	32.6	82.4	\$51.70	\$1,090.68	\$477.48	\$1,568.16	n.t
PHY 499 WRF	1932	2752	0.30	0.43	41-3	1.16	4.3	33.1	83.3	\$54.60	\$1,054.97	\$412.83	\$1,467.80	6
DP 1359 B2RF	1913	2782	0.31	0.45	41-3	1.17	3.8	34.6	81.1	\$54.55	\$1,043.31	\$417.30	\$1,460.61	n.t
DP 1044 B2RF	1833	2815	0.32	0.49	41-3	1.13	4.2	31.0	81.2	\$54.45	\$997.96	\$422.24	\$1,420.21	n.t
FM 2989 GLB2	1809	2807	0.32	0.49	41-3	1.18	4.2	33.0	82.8	\$54.65	\$988.77	\$421.08	\$1,409.84	3
PHY 339 WRF	1745	2636	0.29	0.44	41-3	1.18	4.0	35.8	84.0	\$54.85	\$957.07	\$395.39	\$1,352.46	n.t
PHY 375 GLB2	1770	2716	0.31	0.48	41-4	1.12	4.1	32.0	81.9	\$53.80	\$952.22	\$407.46	\$1,359.68	n.t
FM 2484 B2RF	1819	2722	0.33	0.49	41-5	1.22	3.5	33.3	82.7	\$51.60	\$938.57	\$408.37	\$1,346.94	5
ATX EDGE B2RF	1777	2856	0.30	0.49	51-6	1.13	4.2	34.6	81.8	\$47.60	\$846.09	\$428.39	\$1,274.48	n.t
FM 1944 GLB2	1626	2616	0.30	0.48	41-5	1.19	3.9	34.1	82.8	\$51.75	\$841.49	\$392.44	\$1,233.93	4
PHY 367 GLB2	1462	2099	0.32	0.45	41-4	1.14	4.4	32.9	83.0	\$53.85	\$787.32	\$314.85	\$1,102.17	n.t
ATX NITRO B2RF	1653	2576	0.30	0.46	51-7	1.19	3.7	35.2	82.7	\$45.85	\$757.86	\$386.36	\$1,144.23	n.t
Average	1830	2759	0.31	0.47	-	1.16	4.0	33.6	82.4	\$52.69	\$965.74	\$413.79	\$1,379.53	
Max.	2140	3183	0.34	0.50	-	1.22	4.36	35.8	84.0	\$54.85	\$1,167.28	\$477.48	\$1,615.11	
Min.	1462	2099	0.29	0.43	-	1.12	3.53	31.0	81.1	\$45.85	\$757.86	\$314.85	\$1,102.17	
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: Rebel Royall (432)354-2381, Raymond Quigg (432) 693-2313 or Dr. David Drake (325)653-4576														

**Table 16.**

		2013 Cotton Variety Trial								Texas A&M AgriLife Extension				
Name of County:	Howard	Plant Date: May 27, 2013												
County ID Number:	227	Harvest Date: Oct. 31, 2013												
District number:	6	Design: 8 rows, 40" , 400 ft, Unreplicated												
Year:	2013													
Producer:	Brooks' Farm													
		Fiber Quality								Lint	Seed	Total	2012	
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint yld
	In Pounds	% Turnout		Color-	Length	Strength			Loan	Return	Return	Return	ranking	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 15 tested
ST 4946 GLB2	1086	1671	0.28	0.43	41-4	1.14	3.7	35.1	80.0	\$53.85	\$584.93	\$250.61	\$835.54	n.t.
PHY 499 WRF	1084	1484	0.29	0.40	41-3	1.12	3.8	35.2	83.0	\$54.70	\$593.19	\$222.60	\$815.79	14
FM 2989 GLB2	926	1480	0.26	0.41	41-4	1.12	3.6	32.4	80.7	\$53.65	\$496.74	\$222.04	\$718.79	4
DP 1359 B2RF	914	1303	0.31	0.44	32-3	1.12	3.6	32.1	79.7	\$52.75	\$482.32	\$195.41	\$677.73	n.t.
FM 2484 B2F	854	1179	0.29	0.40	41-2	1.16	3.6	31.2	79.7	\$53.85	\$459.73	\$176.87	\$636.61	13
NG 1511 B2RF	719	1175	0.25	0.41	42-3	1.06	4.0	33.3	80.7	\$50.90	\$366.06	\$176.23	\$542.29	n.t.
ST 6448 GLB2	591	784	0.29	0.38	31-3	1.11	3.2	28.0	79.1	\$52.10	\$307.79	\$117.61	\$425.40	n.t.
DP 1044 B2RF	***	***	0.26	0.42	41-3	1.13	3.8	33.0	81.6	\$54.50				2
FM 8270 GLB2	***	***	0.29	0.43	41-4	1.16	3.6	35.3	82.7	\$53.85				n.t.
ATX Nitro 44 B2RF	***	***	0.27	0.41	51-4	1.21	3.5	35.7	80.9	\$50.60				9
DG 2570	***	***	0.25	0.43	31-3	1.10	3.4	32.8	80.8	\$53.95				n.t.
DP 1219 B2RF	***	***	0.25	0.44	41-3	1.15	3.4	32.4	79.3	\$52.00				10
FM 1944 GLB2	***	***	0.24	0.40	41-3	1.14	3.1	29.6	78.0	\$49.65				5
Average	882	1297	0.27	0.42	-	1.13	3.6	32.8	80.5	\$52.80	\$470.11	\$194.48	\$664.59	
Max.	1086	1671	0.31	0.44	-	1.21	4.03	35.7	83.0	\$54.70	\$593.19	\$250.61	\$835.54	
Min.	591	784	0.24	0.38	-	1.06	3.11	28.0	78.0	\$49.65	\$307.79	\$117.61	\$425.40	
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: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576									
*** tested but yeild was removed due to uneven irrigation														

**Table 17.**

		2013 Dryland Cotton Variety Trial									Texas A&M AgriLife Extension			
Name of County:	Howard										Plant Date: June 3, 2013			
County ID Number:	227										Harvest Date: Nov. 21, 2013			
District number:	6										Design: 8 rows, 40" ,800 ft, Unreplicated			
Year:	2013													
Producer:	Donnie Reid													
		Fiber Quality									Lint	Seed	Total	2012
Yield Per Acre						Fiber				CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout		Color-	Length	Strength			Loan	Return	Return	Return	ranking	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 7 tested
FM 2484 B2F	382	654	0.25	0.43	41-4	1.08	3.9	28.8	78.8	\$52.15	\$199.07	\$98.13	\$297.20	n.t.
ST 4946 GLB2	474	787	0.26	0.43	41-4	1.06	4.3	32.4	80.6	\$52.40	\$248.59	\$117.99	\$366.58	n.t.
NG 4111 RF	488	763	0.34	0.53	42-3	1.03	3.6	29.6	79.0	\$48.80	\$237.91	\$114.44	\$352.35	4
ATX EDGE B2RF	321	611	0.25	0.47	41-4	1.04	3.6	27.1	77.7	\$48.90	\$156.92	\$91.72	\$248.64	n.t.
FM 2011 GT	393	583	0.32	0.47	41-4	1.03	3.4	27.7	78.3	\$47.15	\$185.17	\$87.50	\$272.66	7
PHY 367 WRF	378	578	0.29	0.44	41-3	1.04	3.9	28.1	79.2	\$50.15	\$189.68	\$86.63	\$276.30	n.t.
DP 1044 B2RF	412	605	0.32	0.47	41-3	0.99	4.3	29.0	78.6	\$48.30	\$199.03	\$90.76	\$289.79	n.t.
FM 2989 GLB2	446	643	0.33	0.47	41-3	1.03	4.2	29.1	78.7	\$49.90	\$222.31	\$96.51	\$318.82	n.t.
NG 5315 B2RF	597	712	0.37	0.45	41-2	1.05	4.7	28.4	80.0	\$52.50	\$313.18	\$106.76	\$419.94	n.t.
FM 1944 GLB2	383	614	0.28	0.44	41-2	1.05	4.0	28.2	78.4	\$51.80	\$198.49	\$92.14	\$290.63	n.t.
DG 2285 B2RF	353	579	0.31	0.52	41-5	1.03	3.4	29.9	79.3	\$46.50	\$164.30	\$86.90	\$251.20	n.t.
FM 9250 GL	378	610	0.29	0.47	41-2	1.02	3.5	26.3	76.9	\$49.55	\$187.52	\$91.53	\$279.05	3
Average	417	645	0.30	0.47	-	1.04	3.9	28.7	78.8	\$49.84	\$208.51	\$96.75	\$305.26	
Max.	597	787	0.37	0.53	-	1.08	4.70	32.4	80.6	\$52.50	\$313.18	\$117.99	\$419.94	
Min.	321	578	0.25	0.43	-	0.99	3.44	26.3	76.9	\$46.50	\$156.92	\$86.63	\$248.64	
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: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576									



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