

AGRONOMIC COTTON VARIETY TRIALS THE SOUTHERN ROLLING PLAINS AND PERMIAN BASIN OF TEXAS – 2014



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Dr. David Drake¹, Asst. Professor and Extension Agronomist

Richard Minzenmayer², Extension Agent-IPM

Brad Easterling⁴, Extension Agent-IPM

Bill Thompson³, Asst. Professor and Extension Economist

Joshua Blanek³, County Extension Agent

Rebel Royall⁴, County Extension Agent

Raymond Quigg⁵, County Extension Agent

Tommy Yeater⁶, County Extension Agent

Parks Tucker⁷, County Extension Agent

Steve Estes⁸, County Extension Agent

Tyler Roberts⁹, County Extension Agent

Zach Wilcox¹⁰, County Extension Agent

Texas A&M AgriLife Extension Service

¹Department of Soil and Crop Sciences – San Angelo

(325) 653-4576 ext 230

drdrake@ag.tamu.edu

²Ballinger, ³San Angelo, ⁴Garden City, ⁵Rankin, ⁶Big Spring, ⁷Stanton, ⁸Anson, ⁹Roby,

¹⁰Sweetwater, Texas

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Appreciation is expressed to the cooperators that provided their land, equipment and time in assisting with land preparation, planting, managing, and harvesting of these plots throughout the year. 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. HVI fiber quality analysis was supported by the Texas Fiber Quality Initiative. Lastly, we express our appreciation to all of the technicians, scouts, and support staff that assisted in the trials.

2014 HIGHLIGHTS

The 2014 cotton growing season still experienced some lingering effects of a persistent drought through much of this portion of the state. Precipitation was variable in amount, location, and timing. Several dryland trials failed to produce economically harvestable yields whereas a few others received very timely rains and experienced record yields. Most of the irrigated yields were stable to average in terms of historic yield. Pest pressure was low to average but consistent with national trends much of the crop was contained transgenic BT proteins. Transgenic varieties accounted for over 99.5% of the United States acreage. Two companies Dow -Phytogen and Bayer Crop Science – FiberMax and Stoneville provided varieties with a third BT gene. The harvest season some somewhat delayed and difficult due to heavy rains near cutout that produced abundant vegetative growth and made defoliation and field work difficult.

Texas producers planted approximately 6.6 million acres in 2014, which was about 500,000 acres less than 2013. According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2014 Crop” survey for the Abilene Classing Office, the most popular varieties planted in the region were: Deltapine 1044 B2RF-9.80%, Phytogen 499 WRF-6.40%, NexGen 1511 B2RF-5.60%, Fibermax 1944 GLB2-5.40%, Deltapine1219 B2RF-4.70%, Stoneville 4946 GLB2-3.10%, Phytogen 339 WRF-0.43%, Croplan 3787 B2RF-0.28%, NexGen 3306 B2RF-0.28%, Fibermax 1830 GLT-0.25%, and Stoneville 4747 GLB2-0.09%.

VARIETY SELECTION

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. Table 4 provides a summary of agronomic characteristics for the 42 varieties and experimental varieties tested in the San Angelo Uniform Irrigated Small Plot Variety Trial (M. Block, cooperator).

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 annual research and demonstration variety trials. This approach provides a good foundation of information that can be utilized to assist in the variety selection process. Producers are better able to compare varietal performance in locations that are most similar to their climate, soil type, and management. Figure 1 outlines the Best Management Practices for variety selection.

TRIAL METHODS

Fourteen large plot unreplicated demonstration, two small plot replicated research, and one large plot replicated research trials were planted in 2014. Two demonstration trials in Martin County were lost; one due to drought and the other to hail. A dryland trial in Nolan County was also not harvested due to drought. Harvested trials are summarized by location in Table 1 and pin pointed to county on Figure 2.

All the cottonseed companies with RoundupFlex® or Glytol® and Twinlink® and Bt2® or Widestrike® technology had the opportunity to include at least one variety in the trials at each location. All varieties were treated with the company specific suite of seed treatments. Included on pages 7-11 are the cotton variety descriptions provided by the seed companies. Each of these trials were initiated in producers' fields and were managed by the producer including pest and nutrient management.

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. These tables and many of the individual location yield tables provide a summary of performance from previous years. Table 4 summarizes agronomic characteristics for the 42 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 12), Nolan (Table 6), Fisher (Table 10), Concho (Table 11), Runnels (Table 13), and Tom Green (Tables 5, 7-9). Variety trials were planted in the following Extension District 6 Counties: Glasscock (Table 15), Reagan (Tables 16 & 18), and Howard (Tables 14 & 17). Lint turnout, seed turnout, and lint quality were determined by taking fiber grab samples. Seed cotton grab samples were ginned at the Texas A&M AgriLife Research gin in Lubbock. Fiber quality was determined by sending one or more samples per variety to the Texas Tech Biopolymer Laboratory for HVI analysis.

DATA INTERPRETATION

Variety comparisons should be made with as many relevant observations as possible. Ideally, this information is gathered from multiple years and locations. Replications at a single trial location also provides a more robust comparison and can help separate a varieties performance and from differences in the soil, fertility, irrigation, etc. Because varieties change rapidly and trials are time consuming and costly; variety decisions must be made with limited information. Care should be taken to evaluate the strengths and weaknesses of each trial. Limited information may be better suited at eliminating unacceptable traits or performance and at predicting groups of higher performing varieties than a single high performer. Planting several varieties also reduces the risk of a particular year or management practice causing poor performance across an entire farm or area.

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 with 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.

ECONOMIC ANALYSIS

Production Budgets

Variety trial yield averages and average ccc loan rate prices were applied to Texas A&M AgriLife Extension production budgets maintained by the Department of Agricultural Economics at Texas A&M University. These budgets reflect the full cost of production and producer returns under representative dryland and irrigated production systems found in Far West and West Central Texas (Tables 18 through 21).

Root Rot Control

Table 22 presents a sensitivity analysis of the return to treatment for cotton root rot control. At an expected yield of 685lbs per acre, a producer would not see a positive return to treatment unless it was estimated that more than 10% of the field was affected by root rot. If yield expectation were only 385lbs per acre, 25% or more of the field would need to be affected by root rot for return to treatment to be positive. This free decision aid can be downloaded as an excel spreadsheet at <http://sanangelo.tamu.edu/extension/west-central-agricultural-economics/analytical-tools/>.

Mobile device applications for Android and Apple devices are available at:

Apple Mobile Users: download app from www.apple.com/itunes.

Android Device Users: download app from <https://play.google.com>.



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 1. Cotton Variety Selection Guide

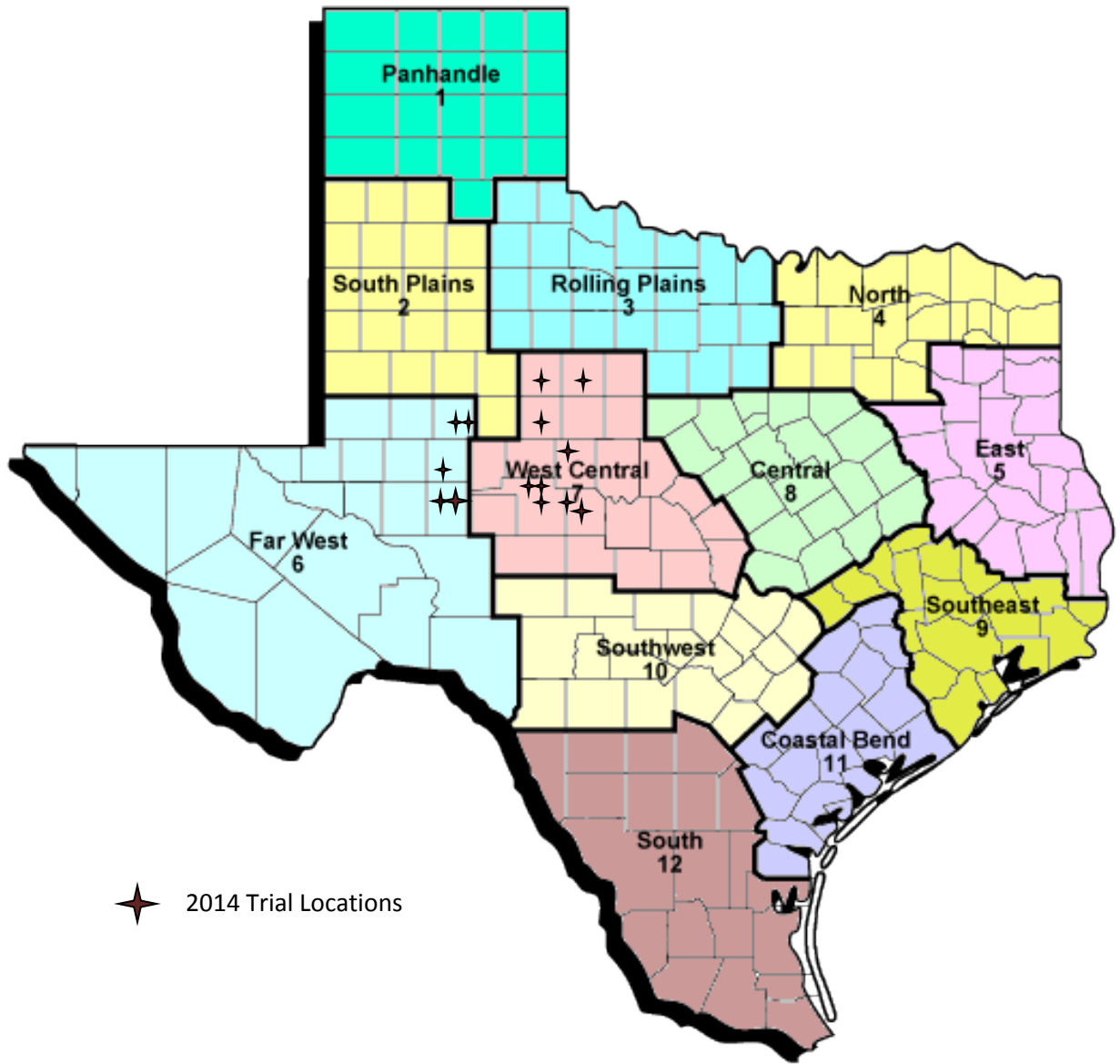


Figure 2. Texas A&M AgriLife Extension Districts with marked cotton variety trial locations by County.

VARIETY CHARACTERISTICS/HIGHLIGHTS

Below are the cotton variety characteristics and highlights that were included in the 2014 Uniform Variety Trials and other common varieties planted in the Southern Rolling Plains. These cotton variety descriptions were provided by individual seed company representatives or publicly available information.

Alltex Epic RF

- Medium maturity variety
- Medium-tall plant height
- Smooth leaf
- Suited for irrigated and dryland conditions

Alltex Nitro 44 B2F

- Medium maturity variety
- Semi-smooth leaf
- Excellent seedling vigor
- Superior fiber quality with very long staple
- Premium micronaire in high micronaire conditions
- Adapted to irrigated South Texas, Texas High Plains, and Concho Valley

Croplan Genetics 3787 B2F

- Mid maturity variety
- Very good storm tolerance
- Excellent seedling vigor and early season emergence
- Adapted for dryland but produces good under irrigated conditions

DeltaPine 0912 B2RF

- Early maturity variety
- Medium plant height
- Semi-smooth leaf

DeltaPine 1044 B2RF

- Mid-full maturity variety
- Semi-smooth leaf
- Excellent fit on dryland and limited irrigation
- Very good Verticillium and Bacterial Blight resistance

DeltaPine 1212 B2RF

- Early maturity variety
- Medium-short plant height
- Light hairy leaf

DeltaPine 1219 B2RF

- Early maturity variety
- Medium-tall plant height
- Semi-smooth leaf
- Broadly adapted across Texas
- Good combination of yield and fiber quality

DeltaPine 1321 B2RF

- Early-mid maturity variety
- Medium-tall plant height
- Semi-smooth leaf
- Widely adapted to short-season environments and management

DeltaPine 1359 B2RF

- Full-season maturity variety
- Tall plant height
- Smooth leaf

DeltaPine 1410 B2RF

- Early maturity variety
- Medium plant height
- Semi-smooth leaf
- Broadly adapted across soils
- Excellent disease package
- Excellent storm resistance

Dyna-Gro 2285 B2RF

- Early maturity variety
- Semi-smooth leaf
- Very good seedling vigor
- Very good storm resistance

Dyna-Gro 2355 B2RF

- Early-medium maturity variety
- Medium plant height
- Semi-smooth leaf
- Very good storm tolerance

Dyna-Gro 2570 B2RF

- Early-mid to mid-season maturity variety
- Medium-tall height
- Smooth leaf
- Indeterminate, aggressive growth

FiberMax 1830 GLT

- Early-medium maturity variety
- Excellent fiber quality with high gin turnout
- TwinLink two-gene Bt protection against bollworm
- Liberty and glyphosate herbicide-tolerant

FiberMax 1944 GLB2

- Early-medium maturity, more towards medium maturity variety
- Widely adapted across entire Cotton Belt – irrigated or dryland
- Well suited for limited irrigation
- GlyTol® + LibertyLink® and Bollgard II® technology

FiberMax 2334 GLT

- Medium maturity variety
- Excellent yield potential
- Excellent fiber quality

FiberMax 2484 B2F

- Medium maturity variety
- Adapted to the Southwest region
- Excellent fiber package
- Good storm tolerance

FiberMax 2989 GLB2

- Medium maturity variety
- Medium-tall plant with a slightly bushy growth habit
- Smooth leaf
- Benefits from early season PRG applications
- Well-adapted to all cotton growing areas
- Good fiber properties
- GlyTol® + LibertyLink® and Bollgard II® technology

FiberMax 9180 B2F

- Early maturity variety
- Excellent fiber package
- Excellent storm tolerance
- Responds well to irrigation
- Easy-to-manage variety
- Adapted to the High and Rolling Plains

NexGen 1511 B2RF

- Medium maturity variety
- Medium-tall plant height
- Semi-smooth leaf
- Excellent seedling vigor
- High turnout and very good fiber quality
- Well adapted to irrigated or dryland throughout all areas of Texas
- Broad adaptation across soil types, geographies, and production systems
- Moderate to aggressive plant growth regulation may be necessary, especially prior to first bloom, on highly productive soils

NexGen 3306 B2RF

- Early-medium maturity variety
- Excellent fiber package
- Semi-smooth leaf
- Very good verticillium wilt tolerance

NexGen 5315 B2RF

- Full-season maturity variety
- Smooth leaf
- Excellent resistance to bronze wilt
- Very good seedling vigor

Phytogen 222 WRF

- Early maturity variety
- Short plant height
- Smooth leaf
- Excellent seedling vigor

Phytogen 333 WRF

- Early maturity variety
- Hairy leaf
- Excellent seedling vigor
- Outstanding fiber quality package
- Dryland or irrigated conditions

Phytogen 339 WRF

- Indeterminate, very early maturing variety
- Medium-tall plant height
- Semi-smooth leaf
- Excellent seedling vigor

Phytogen 495 W3RF

- Mid maturity variety
- Tall plant height
- Semi-smooth leaf
- Excellent seedling vigor

Phytogen 499 WRF

- Mid-maturity variety
- Aggressive growth, greater than PHY 375 WRF
- Consistent across soils and environments, suited for dryland and irrigated fields
- Outstanding seedling vigor and early season growth
- Larger seed size ~ 4,000 – 4,200 seed/lb.

Stoneville 4747 GLB2

- Early-mid maturity variety
- Medium height
- Semi-smooth leaf
- Medium storm tolerance
- GlyTol® + LibertyLink® and Bollgard II® technology

Stoneville 4946 GLB2

- Early-mid maturity variety
- GlyTol® + LibertyLink® and Bollgard II® technology
- Root-knot nematode tolerant
- Moderately-aggressive growth habits
- Broadly adapted across all cotton growing regions

Stoneville 6448 GLB2

- Full-season maturity variety
- Excellent seedling vigor
- Suited for irrigated or dryland conditions
- GlyTol® + LibertyLink® and Bollgard II® technology

Table 1.

A. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions, and area of **2014 Texas A&M AgriLife Extension District 7** variety trials.

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Field Type
Michael Block	Tom Green	June 13, 2014	December 5 & 8, 2014	40" centers, 4 rows x 36 ft. long, 4 replications, Every Row	Irrigated
Justin Alexander	Nolan			Hand sampled and cleaned from 13.1 ft. of row at 1 location, Unreplicated strips	Irrigated
Kenny Gully	Concho	May 15, 2014	October 28, 2014	40" centers, 8 rows, replicated 3 times across the field (rows were 1320 ft. long)	Irrigated
Daryl and Doyle Schniers	Tom Green	June 3, 2014	November 26, 2014	40" centers, 4 rows x 36 ft. long, 4 replications, Every Row	Irrigated
Doug Wilde	Tom Green	May 19, 2014	November 13, 2014	40" centers, 16 rows except for NG 1511 B2RF with 20 rows	Irrigated
Todd Coker	Fisher	June 6, 2014	October 16, 2014	Hand sampled and cleaned from 13.1 ft. of row at 2 locations, Unreplicated strips	Dryland
Kenny Gully	Concho	June 16, 2014	December 16, 2014	40" centers, 8 rows, replicated 3 times across the field (rows were 1320 ft. long)	Dryland
Larry Lytle	Jones	June 18, 2014	December 11, 2014	8 rows, 30" 2X1, unreplicated, plot size 0.923 acres	Dryland
Paul Minzenmayer	Runnels	June 2, 2014	October 22, 2014	36" centers, 8 row plots (rows were approximately 4500 ft. long), Every Row	Dryland

B. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions, and area of **2014 Texas A&M AgriLife Extension District 6** variety trials.

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Field Type
Donnie Reid	Howard	June 3, 2014	December 16, 2014	16 rows, 40", 400 ft., Unreplicated	Dryland
Russell Halfmann	Glasscock	June 9, 2014	October 28, 2014	16 rows, 8 x1, 2569 ft., Strip Trial	Dryland
Phillip Bales	Reagan	June 9, 2014	December 1, 2014	6 rows, 40", Solid, 1539 ft., Strip Trial	Irrigated
Marty Brooks	Howard	May 30, 2014	November 20, 2014	SDI, 16 rows, 40", 400 ft., Unreplicated	Irrigated
Ricky Halfmann	Reagan	May 20, 2014	October 29, 2014	6 rows, 40", 2X1, 870 ft., Strip Trial	Irrigated

Table 2.

A. 2014 Variety ranking based on lint value/acre by trial location in Extension District 7.

Extension District	D7	D7	D7	D7	D7	D7	D7	D7	D7	D7	2014		2013	
County (Cooperator)	Jones	Fisher	Nolan	Tom Green (Gully-Dry)	Tom Green (Gully-Irr.)	Tom Green (Schniers)	Tom Green (Wilde)	Tom Green (Block)	Runnels (Minzenmayer)	Average	Number	Average	Number	
Ave. Gross Revenue	\$371.37	\$80.06	\$1,082.18	\$684.08	\$948.42	\$1,431.68	\$1,201.68	\$1,146.27	\$816.79	\$862.50	of trials	\$636.90	of trials	
Number of entries	14	15	12	13	13	21	19	42	15	18	entered	15	entered	
Variety (alphabetically)											Rank		Rank	
ATX 12KN 44-2 B2RF								32		32	1	n.t.	n.t.	
ATX 12WRF-770-A1 RF								21		21	1	exp	exp	
ATX 12WSTR 761-2 B2RF								10		10	1	exp	exp	
ATX CR 103233-33 B2RF								9		9	1	exp	exp	
ATX CT14944 RF								24		24	1	n.t.	n.t.	
ATX Epic RF				9				28		19	2	12	1	
ATX NITRO 44 B2RF								19		19	1	n.t.	n.t.	
BX 1537								26		26	1	n.t.	n.t.	
CP 3156 B2RF		1								1	1	n.t.	n.t.	
DG 2285B2RF						19	16	11		15	3	n.t.	n.t.	
DG 2355 B2RF								38		38	1	n.t.	n.t.	
DG 2570B2RF						2	9	20		10	3	8	3	
DP 1044 B2RF	12	12						4		9	3	8	7	
DP 1212B2RF				11	13	5	15	42	4	15	6	n.t.	n.t.	
DP 1219 B2RF	2	14	5					12		8	4	4	5	
DP 1321 B2RF			7		12	14	3	33	9	13	6	7	6	
DP 1359 B2RF			9		3	6	13	8	6	8	6	2	6	
DP 1410 B2RF	14	15	11	7	7	17	17	16	13	13	9	n.t.	n.t.	
FM 1830 GLT	6	10	2	8	9	16	6	3	2	7	9	n.t.	n.t.	
FM 1900 GLT (BX 1538)								31		31	1	n.t.	n.t.	
FM 1944 GLB2	3	4		3		15	8	22	7	9	7	9	7	
FM 1944 GLB2 PV								6		6	1	n.t.	n.t.	
FM 2007 GLT (BX 1539)								23		23	1	n.t.	n.t.	
FM 2334 GLT	1	13	1	2	5	20	2	17	10	8	9	n.t.	n.t.	
FM 2484B2F						12	1	30	12	14	4	9	7	
FM 2989 B2F								36		36	1	n.t.	n.t.	
FM 9180 B2F								41		41	1	n.t.	n.t.	
MON 12R 224 B2R2								40		40	1	exp	exp	
MON 12R 249 B2R2								2		2	1	exp	exp	
NG 1511 B2RF	13	11	6	6	10	8	18	39	15	14	9	5	6	
NG 3306B2RF				10		10	14	14		12	4	n.t.	n.t.	
NG 4111 RF	11	6								9	2	n.t.	n.t.	
NG 5315 B2RF	8	9	12		8		19	34	8	14	7	10	5	
PHY 222 WRF								35		35	1	n.t.	n.t.	
PHY 333WRF				4	6	11	10	18	1	8	6	3	1	
PHY 339 WRF			8	12	11	21	11	29	14	15	7	4	1	
PHY 367 WRF	5	8								7	2	10	7	
PHY 375 WRF	9	7								8	2	18	1	
PHY 495WRF						7	12	7		9	3	n.t.	n.t.	
PHY 499 WRF	4	5	10	1	2	4	5	5	11	5	9	7	7	
PHY EP PX 3003-04WRF						9				9	1	n.t.	n.t.	
PHY EP PX 4444-13WRF						1		25		13	2	n.t.	n.t.	
PHY EP PX 5540-57WRF						13		37		25	2	n.t.	n.t.	
ST 4747 GLB2	10	3	4	13	1	18	7	13	5	8	9	n.t.	n.t.	
ST 4946 GLB2	7	2	3	5	4	3	4	1	3	4	9	9	7	
ST 5115 GLT (BX 1534)								15		15	1	n.t.	n.t.	
ST 6448 GLB2								27		27	1	n.t.	n.t.	

B. 2014 Variety ranking based on lint value/acre by trial location in **Extension District 6.**

Extension District	D6	D6	D6	D6	D6	2014		2013	
County (Cooperator)	Howard (Dry)	Howard (Irr.)	Ricky Halfmann	Bales	Russell Halfmann	Average	Number	Average	Number
Ave. Gross Revenue	\$244.66	\$669.80	\$702.97	\$433.95	\$58.82	\$422.04	of trials	\$881.49	of trials
Number of entries	13	17	16	15	17	16	entered	12	entered
Variety (alphabetically)						Rank		Rank	
12R249DP B2RF		6				6	1	n.t.	n.t.
DG 2285 B2RF	7	7	14	3		8	4	11	1
DG 2570 B2RF		17	12	5		11	3	4	3
DP 1044 B2RF	8				3	6	2	5	5
DP 1212 B2RF					13	13	1	n.t.	n.t.
DP 1219 B2RF	3	1	1	2	7	3	5	6	4
DP 1252 B2RF					10	10	1	n.t.	n.t.
DP 1321 B2RF		13	2	10	11	9	4	n.t.	n.t.
DP 1359 B2RF					9	9	1	6	5
DP 1410 B2RF	5				14	10	2	n.t.	n.t.
DP 1454 NR B2RF					6	6	1	n.t.	n.t.
FM 1830 GLT	11	3	16	11	5	9	5	n.t.	n.t.
FM 1944 GLB2	6	8	4	12	2	6	5	11	5
FM 2334 GLT		16	3		17	12	3	n.t.	n.t.
FM 2484 B2F	13	5	9	14	1	8	5	5	5
FM 2989 GLB2					15	15	1	6	3
FM 8270GLB2					8	8	1	n.t.	n.t.
FM 9170 B2F				15		15	1	n.t.	n.t.
NG 1511 B2RF	10	12	11	8	16	11	5	6	1
NG 3306 B2RF		11	13	7		10	3	n.t.	n.t.
NG 4111 RF	9					9	1	3	1
NG 5315 B2RF	2	2	8	1		3	4	9	1
NITRO 44 B2RF		15				15	1	n.t.	n.t.
PHY 333 WRF			6	4		5	2	n.t.	n.t.
PHY 339 WRF			5	13		9	2	10	4
PHY 367 WRF	4				12	8	2	10	5
PHY 375 WRF	12					12	1	9	4
PHY 417 WRF		9				9	1	n.t.	n.t.
PHY 499 WRF		14	10		4	9	3	4	5
ST 4747 GLB2		4	7	9		7	3	n.t.	n.t.
ST 4946 GLB2	1	10	15	6		8	4	3	6

Table 3.

A. 2014 Variety ranking based on lint yield by location in Extension District 7.

Extension District	D7	D7	D7	D7	D7	D7	D7	D7	D7	2014		2013	
County (Cooperator)	Jones	Fisher	Nolan	Tom Green (Gully-Dry)	Tom Green (Gully-Irr.)	Tom Green (Schniers)	Tom Green (Wilde)	Tom Green (Block)	Runnels (Minzenmayer)	Average	Number of trials entered	Average	Number of trials entered
Ave. Trial Yield (lbs/ac)	581	125	1474	932	1338	1926	1631	1512	1100	1180		882	
Number of entries	14	15	12	13	13	21	19	42	15	18		13	
Variety (alphabetically)										Rank		Rank	
ATX 12KN 44-2 B2RF								21		21	1	n.t.	n.t.
ATX 12WRF-770-A1 RF								7		7	1	exp	exp
ATX 12WSTR 761-2 B2RF								10		10	1	exp	exp
ATX CR 103233-33 B2RF								6		6	1	exp	exp
ATX CT14944 RF								20		20	1	n.t.	n.t.
ATX Epic RF				8				34		21	2	8	1
ATX NITRO 44 B2RF								18		18	1	20	1
BX 1537								17		17	1	n.t.	n.t.
CP 3156 B2RF		1								1	1	n.t.	n.t.
DG 2285B2RF						19	15	13		16	3	n.t.	n.t.
DG 2355 B2RF								39		39	1	n.t.	n.t.
DG 2570B2RF						9	12	24		15	3	10	3
DP 1044 B2RF	13	13						5		10	3	9	5
DP 1212B2RF				10	13	7	14	42	8	16	6	n.t.	n.t.
DP 1219 B2RF	4	14	5					19		11	4	4	5
DP 1321 B2RF					12	2	2	27	4	9	5	4	6
DP 1359 B2RF			7		5	10	16	15	6	10	6	3	5
DP 1410 B2RF	14	15	11	7	6	13	18	12	15	12	9	n.t.	n.t.
FM 1830 GLT	10	8	2	9	8	15	6	4	2	7	9	n.t.	n.t.
FM 1900 GLT (BX 1538)								30		30	1	n.t.	n.t.
FM 1944 GLB2	5	5		3		17	8	33	11	12	7	10	7
FM 1944 GLB2 PV								23		23	1	12	1
FM 2007 GLT (BX 1539)								25		25	1	n.t.	n.t.
FM 2334 GLT	1	12	1	4	7	20	1	22	10	9	9	n.t.	n.t.
FM 2484B2F						12	3	28	12	14	4	8	7
FM 2989 B2F								40		40	1	18	1
FM 9180 B2F								41		41	1	9	1
MON 12R 224 B2R2								38		38	1	exp	exp
MON 12R 249 B2R2								3		3	1	exp	exp
NG 1511 B2RF	11	11	3	6	10	18	13	29	13	13	9	6	6
NG 3306B2RF				11		6		17		15	4	n.t.	n.t.
NG 4111 RF	12	6								9	2	n.t.	n.t.
NG 5315 B2RF	9	9	12		9		19	37	9	15	7	10	4
PHY 222 WRF								35		35	1	n.t.	n.t.
PHY 333WRF				2	4	8	10	16	1	7	6	3	2
PHY 339 WRF			9	13	11	21	11	31	14	16	7	7	3
PHY 367 WRF	2	10								6	2	8	7
PHY 375 WRF	7	7								7	2	n.t.	n.t.
PHY 495WRF						4	9	9		7	3	n.t.	n.t.
PHY 499 WRF	3	3	8	1	3	3	5	2	7	4	9	6	5
PHY EP PX 3003-04WRF						16				16	1	n.t.	n.t.
PHY EP PX 4444-13WRF						1		14		8	2	n.t.	n.t.
PHY EP PX 5540-57WRF						11		32		22	2	n.t.	n.t.
ST 4747 GLB2	8	4	4	12	1	14	7	8	3	7	9	n.t.	n.t.
ST 4946 GLB2	6	2	6	5	2	5	4	1	5	4	9	9	5
ST 5115 GLT (BX 1534)								11		11	1	n.t.	n.t.
ST 6448 GLB2								36		36	1	n.t.	n.t.

B. 2014 Variety ranking based on lint yield by location in **Extension District 6.**

Extension District	D6	D6	D6	D6	D6	2014		2013	
County (Cooperator)	Howard (Dry)	Howard (Irr.)	Ricky Halmann	Bales	Russell Halfmann	Average	Number	Average	Number
Ave. Trial Yield (lbs/ac)	371	974	1090	651	84	634	of trials	1169	of trials
Number of entries	13	17	16	15	17	16	entered	13	entered
Variety (alphabetically)						Rank		Rank	
12R249DP B2RF		6				6	1	n.t.	n.t.
DG 2285 B2RF	8	5	14	3		8	4	11	1
DG 2570 B2RF		16	12	4		11	3	3	3
DP 1044 B2RF	9				2	6	2	5	5
DP 1212 B2RF					14	14	1	n.t.	n.t.
DP 1219 B2RF	4	1	1	2	5	3	5	6	4
DP 1252 B2RF					9	9	1	n.t.	n.t.
DP 1321 B2RF		10	2	9	15	9	4	n.t.	n.t.
DP 1359 B2RF					8	8	1	n.t.	n.t.
DP 1410 B2RF	5				13	9	2	n.t.	n.t.
DP 1454 NR B2RF					7	7	1	n.t.	n.t.
FM 1830 GLT	12	4	16	11	6	10	5	n.t.	n.t.
FM 1944 GLB2	7	12	6	12	3	8	5	11	5
FM 2334 GLT		17	3	14	17	13	4	n.t.	n.t.
FM 2484 B2F	13	7	9		1	8	4	6	5
FM 2989 GLB2					16	16	1	n.t.	n.t.
FM 8270GLB2					10	10	1	n.t.	n.t.
FM 9170 B2F				15		15	1	n.t.	n.t.
NG 1511 B2RF	6	9	11	8	11	9	5	6	1
NG 3306 B2RF		14	13	6		11	3	n.t.	n.t.
NG 4111 RF	10					10	1	2	1
NG 5315 B2RF	2	2	4	1		2	4	1	1
NITRO 44 B2RF		15				15	1	n.t.	n.t.
PHY 333 WRF			7	5		6	2	n.t.	n.t.
PHY 339 WRF			5	13		9	2	n.t.	n.t.
PHY 367 WRF	3				12	8	2	11	5
PHY 375 WRF	11					11	1	8	4
PHY 417 WRF		8				8	1	n.t.	n.t.
PHY 499 WRF		13	10		4	9	3	4	5
ST 4747 GLB2		3	8	10		7	3	n.t.	n.t.
ST 4946 GLB2	1	11	15	7		9	4	2	6

Table 4. Summary of agronomic characteristics for the 42 varieties and experimental varieties tested in the 2014 San Angelo Uniform Irrigated Small Plot Variety Trial (M. Block, cooperator).

2014 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial													
1= poor, 10= excellent													
		Stand	Seedling	Plant	1st F	Total	NAWF at	Stay Green	Bolls	%Open Boll	Storm	Boll	100 Fuzzy
	Variety	Count	Vigor	Height	Branch	Nodes	Sept. 5	Rating Oct. 22	Per ft.	Oct. 17	Resistance	Weight	Seed Weight
1	ATX 12KN 44-2 B2RF	42,375	7.3	30.3	6.6	18.1	2.1	7.5	28.6	45.0	8.0	5.6	9.5
2	ATX 12WRF-770-A1 RF	27,250	4.3	33.3	6.9	18.9	2.3	7.5	27.6	41.0	7.7	5.4	9.3
3	ATX 12WSTR 761-2 B2RF	42,250	6.0	30.6	6.3	17.4	1.9	6.5	26.8	68.0	8.7	5.7	9.5
4	ATX CR 103233-33 B2RF	40,750	6.3	32.4	6.2	17.6	2.4	6.5	27.3	52.0	8.7	6.1	9.4
5	ATX CT14944 RF	36,750	6.7	30.0	6.3	17.7	2.6	7.0	21.0	42.0	6.3	5.7	9.3
6	ATX Epic	39,625	7.3	33.8	6.9	18.2	1.9	7.0	24.6	60.0	7.3	5.6	10.5
7	ATX NITRO 44 B2RF	42,000	6.7	28.8	6.3	17.5	1.2	6.5	19.9	66.0	6.3	5.5	9.8
8	BX 1537	45,375	7.0	31.7	6.5	17.2	1.2	8.0	23.1	69.0	7.0	6.3	11.0
9	DG 2285 B2RF	39,500	6.3	37.3	7.3	19.5	2.3	6.5	27.3	57.0	5.7	6.4	10.3
10	DG 2355 B2RF	38,125	7.0	33.3	7.4	19.3	2.6	6.5	27.2	45.0	6.3	4.7	8.6
11	DG 2570 B2RF	42,500	7.0	30.1	6.1	18.3	0.9	7.0	22.8	74.0	4.3	5.5	10.3
12	DP 1044 B2RF	42,625	6.3	31.0	7.0	19.8	2.7	8.0	22.2	54.0	7.0	5.1	8.4
13	DP 1212 B2RF	44,500	6.7	33.7	7.0	18.5	1.4	7.0	26.6	66.0	5.0	5.2	10.3
14	DP 1219 B2RF	42,750	6.7	34.1	6.3	18.9	2.5	9.0	23.8	52.0	6.3	4.9	8.6
15	DP 1321 B2RF	42,750	7.0	34.1	6.5	18.6	1.9	7.5	24.6	56.0	7.7	5.9	9.9
16	DP 1359 B2RF	42,750	7.0	31.9	6.3	18.3	1.7	5.5	23.7	53.0	6.0	4.9	9.4
17	DP 1410 B2RF	43,500	5.7	32.3	6.6	19.0	2.9	9.0	29.5	44.0	6.7	5.3	8.6
18	FM 1830 GLT	39,750	6.3	28.8	7.6	17.4	2.1	7.5	17.9	28.0	6.0	5.8	9.8
19	FM 1900 GLT (BX 1538)	34,875	5.7	30.2	6.8	17.9	1.7	6.5	23.8	42.0	5.7	5.7	9.2
20	FM 1944 GLB2	41,500	7.0	29.2	7.2	19.3	2.0	7.0	23.1	54.0	5.7	5.9	10.5
21	FM 1944 GLB2 PV*	39,750	6.3	26.7	6.8	17.7	1.7	7.0	20.8	53.0	5.3	5.7	8.8

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Southern Rolling Plains, D7

Table 5.

2014 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension							
Name of County:	Tom Green			Plant Date: June 13, 2014						David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230							
County ID Number:	451			Harvest Date: Dec 5 & 8, 2014													
District number:	7			Design: 40" centers, 12 rows x 36 ft. long, 4 replications, Every Row													
Year:	2014			Fertility: Pre-plant soil test 0-6" (N-P-K-S) 24-62-756-33 ppm													
Producer:	Michael Block			Herbicide: Glyphosate Applications													
Fiber Quality										Lint	Seed	Total	2013				
Yield Per Acre						Fiber				CCC	Gross	Gross	Gross	Lint yld	2014		
In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	of 22 tested	Rank	Entry	Gross	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)				
ST 4946 GLB2	1714	2859	0.30	0.50	21-4*	1.12	3.8	29.6	82.1	\$54.60	\$935.98	\$357.34	\$1,293.32	10	1	37	1
PHY 499 WRF	1676	2708	0.28	0.45	21-5*	1.15	3.7	30.85	83	\$54.10	\$906.91	\$338.49	\$1,245.40	6	2	33	5
MON 12R 249 B2R2	1662	2707	0.29	0.48	11-2*	1.10	3.8	29.3	80.45	\$56.95	\$946.71	\$338.39	\$1,285.10	exp	3	17	2
FM 1830 GLT	1659	2604	0.30	0.48	11-2*	1.19	3.6	31.15	81.6	\$55.98	\$928.38	\$325.52	\$1,253.90	n.t.	4	19	3
DP 1044 B2RF	1632	2690	0.29	0.48	21-3*	1.13	3.6	29.2	80.85	\$55.93	\$912.61	\$336.29	\$1,248.90	17	5	10	4
ATX CR 103233-33 B2RF	1619	2512	0.30	0.46	11-2*	1.08	4.2	29.4	82	\$55.28	\$894.71	\$313.98	\$1,208.69	exp	6	4	9
ATX 12WRF-770-A1 RF	1616	2224	0.30	0.42	21-5*	1.14	3.8	31.1	82.85	\$54.40	\$879.31	\$278.06	\$1,157.36	exp	7	2	21
ST 4747 GLB2	1612	2724	0.28	0.48	31-5*	1.15	3.7	28.3	81.2	\$53.43	\$861.48	\$340.53	\$1,202.01	22	8	36	13
PHY 495 W3RF	1612	2564	0.29	0.46	21-3*	1.11	3.8	30.65	82.55	\$55.23	\$890.28	\$320.46	\$1,210.74	n.t.	9	32	7
ATX 12WSTR 761-2 B2RF	1606	2598	0.29	0.47	21-4	1.23	3.6	30.5	82.15	\$54.78	\$879.87	\$324.78	\$1,204.65	exp	10	3	10
ST 5115 GLT (BX 1534)	1605	2815	0.27	0.47	21-2*	1.11	3.0	30.1	80.9	\$52.75	\$846.59	\$351.86	\$1,198.45	n.t.	11	23	15
DP 1410 B2RF	1580	2639	0.28	0.47	21-3*	1.14	3.6	29.9	80.75	\$53.90	\$851.59	\$329.82	\$1,181.41	n.t.	12	15	16
DG 2285 B2RF	1578	2550	0.30	0.48	21-3*	1.12	3.9	28.65	82.2	\$56.00	\$883.88	\$318.71	\$1,202.59	n.t.	13	7	11
PX 4444-13 WRF	1560	2476	0.30	0.47	11-3*	1.19	3.2	29.4	80.95	\$53.58	\$835.97	\$309.44	\$1,145.41	n.t.	14	34	25
DP 1359 B2RF	1557	2631	0.28	0.47	21-2*	1.10	3.7	28.75	80.55	\$56.55	\$880.28	\$328.89	\$1,209.18	2	15	14	8
PHY 333 WRF	1553	2603	0.28	0.47	21-4*	1.14	3.8	28.45	82.55	\$54.73	\$850.07	\$325.41	\$1,175.48	5	16	30	18
BX 1537	1542	2122	0.32	0.43	21-3*	1.14	3.8	29.3	82.85	\$56.33	\$868.41	\$265.27	\$1,133.69	n.t.	17	24	26
ATX NITRO 44 B2RF	1542	2702	0.28	0.49	21-4*	1.21	3.4	31.35	82.2	\$53.80	\$829.44	\$337.71	\$1,167.15	20	18	6	19
DP 1219 B2RF	1541	2544	0.29	0.49	21-3	1.15	3.7	31.25	80.8	\$57.38	\$884.42	\$317.99	\$1,202.41	1	19	12	12

Continued on next page

Variety	Yield Per Acre				Fiber Quality						CCC Loan Value	Lint Gross Return (\$/acre)	Seed Gross Return (\$/acre)	Total Gross Return (\$/acre)	2013 Lint yld ranking of 22 tested	2014 Lint Yld Rank	Entry Number	Gross Return Rank
	In Pounds		% Turnout		Color- Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity									
	Lint	Seed	Lint	Seed														
ATX CT14944 RF	1534	2190	0.31	0.45	11-3*	1.12	4.2	29.45	82.15	\$56.85	\$871.86	\$273.76	\$1,145.62	n.t.	20	5	24	
ATX 12KN 44-2 B2RF	1532	2344	0.30	0.47	31-6*	1.15	3.6	31.7	83.95	\$53.15	\$814.27	\$292.94	\$1,107.21	n.t.	21	1	32	
FM 2334 GLT	1529	2345	0.31	0.47	21-1*	1.18	3.9	30	82.7	\$58.03	\$887.10	\$293.18	\$1,180.28	n.t.	22	21	17	
FM 1944 GLB2 PV	1521	2782	0.26	0.48	21-1*	1.16	3.5	30.55	80.95	\$57.75	\$878.30	\$347.79	\$1,226.09	12	23	42	6	
DG 2570 B2RF	1509	2669	0.28	0.49	21-2*	1.14	3.3	30.5	82.15	\$54.85	\$827.47	\$333.66	\$1,161.13	n.t.	24	9	20	
FM 2007 GLT (BX 1539)	1491	2537	0.29	0.49	21-2*	1.18	3.9	29.35	82.2	\$55.75	\$831.03	\$317.10	\$1,148.13	n.t.	25	40	23	
NG 3306 B2RF	1482	2755	0.27	0.51	21-2*	1.17	3.7	31.25	83.7	\$57.88	\$857.63	\$344.36	\$1,201.99	n.t.	26	27	14	
DP 1321 B2RF	1482	2316	0.30	0.46	31-4	1.11	4.4	29.25	82.9	\$54.98	\$814.47	\$289.44	\$1,103.91	7	27	13	33	
FM 2484 B2F	1477	2619	0.27	0.47	11-3*	1.18	3.0	30.7	81.9	\$53.00	\$782.84	\$327.42	\$1,110.26	11	28	22	30	
NG 1511 B2RF	1472	2183	0.30	0.45	21-4*	1.06	4.2	28.6	78.6	\$51.28	\$754.92	\$272.90	\$1,027.81	4	29	26	39	
FM 1900 GLT (BX 1538)	1464	2639	0.27	0.48	21-5*	1.18	3.5	31.25	82.15	\$53.23	\$779.12	\$329.84	\$1,108.96	n.t.	30	25	31	
PHY 339 WRF	1449	2431	0.29	0.49	21-3*	1.16	3.9	30	82.8	\$55.85	\$809.16	\$303.88	\$1,113.04	3	31	31	29	
PX 5540-57 WRF	1448	2559	0.27	0.49	31-4*	1.16	3.1	29.4	81.4	\$50.68	\$733.90	\$319.92	\$1,053.82	n.t.	32	35	37	
FM 1944 GLB2	1447	2649	0.28	0.51	21-3	1.13	3.8	29.3	80.7	\$57.00	\$825.03	\$331.15	\$1,156.18	12	33	20	22	
ATX Epic	1435	2424	0.28	0.47	11-2	1.12	3.7	28.8	81.9	\$57.00	\$818.22	\$302.98	\$1,121.20	8	34	39	28	
PHY 222 WRF	1415	2386	0.29	0.48	21-4*	1.13	4.5	28.8	82.4	\$54.88	\$776.63	\$298.25	\$1,074.87	n.t.	35	29	35	
ST 6448 GLB2	1412	2610	0.26	0.48	21-2	1.16	3.5	28.25	80.85	\$56.65	\$799.83	\$326.29	\$1,126.13	n.t.	36	38	27	
NG 5315 B2RF	1403	2353	0.28	0.47	11-1	1.15	3.7	28.45	83	\$57.65	\$808.67	\$294.11	\$1,102.78	n.t.	37	28	34	
MON 12R 224 B2R2	1366	2289	0.29	0.49	21-2*	1.08	3.7	27	79.85	\$53.00	\$723.86	\$286.16	\$1,010.02	exp	38	16	40	
DG 2355 B2RF	1362	2561	0.26	0.49	31-5*	1.13	3.9	30.1	82.3	\$53.70	\$731.41	\$320.17	\$1,051.58	n.t.	39	8	38	
FM 2989 B2F	1362	2551	0.26	0.49	11-2*	1.13	3.5	28.9	81.45	\$54.10	\$736.78	\$318.89	\$1,055.67	18	40	18	36	
FM 9180 B2F	1252	2370	0.26	0.49	21-3	0.98	3.4	32.45	80.55	\$51.58	\$645.89	\$296.29	\$942.17	9	41	41	41	
DP 1212 B2RF	1182	1963	0.28	0.47	31-4*	1.15	4.3	30.1	82.85	\$54.43	\$643.30	\$245.37	\$888.67	n.t.	42	11	42	
Average	1512	2519	0.29	0.48	-	1.14	3.7	29.8	80.3	\$54.97	\$831.39	\$314.88	\$1,146.27	966				
P>(F)6	0.001	0.001	0.001	0.001	-	0.004	0.001	0.001	0.001	0.032	----	Max/Min	----	Max/Min				
LSD (P=0.05)	218	358	0.019	0.017	-	0.078	0.414	1.860	1.760	\$3.96	\$946.71	\$357.34	\$1,293.32	1117				
CV %	10.3	10.2	3.4	1.8	-	3.4	5.6	3.1	1.1	3.6	\$643.30	\$245.37	\$888.67	787				

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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), Twinlink (T), Widestrike (W) and Widestrike 3 (W3).

1 Values for varieties shaded in bluegrey or marked by an (a) are not significantly different than the highest treatment in the column and values shaded in green 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 \$250/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.

NS indicates no statistical difference among the treatments for that particular measurement/column

Table 6.

2014 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension				
Name of County:	Nolan				Plant Date:									
County ID Number:	353				Harvest Date:									
District number:	7				Design: Hand sampled and cleaned from 13.1 ft of row at 1 location, Unreplicated strips									
Year:	2014				Fertility:									
Producer:	Justin Alexander				Herbicide: None									
Variety	Fiber Quality									Lint	Seed	Total	2013	
	Yield Per Acre		% Turnout		Color-	Fiber		Strength		CCC	Gross	Gross	Gross	Lint yld
	In Pounds		Lint	Seed	Leaf	Length (staple)	Mic	(gram/tex)	Uniformity	Loan	Return	Return	Return	ranking
	Lint	Seed	Lint	Seed						Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested
FM 2334 GLT	2006	2596	0.33	0.43	11-2	1.18	4.17	31.4	81.2	\$58.20	\$1,167.60	\$324.52	\$1,492.12	n.t.
FM 1830 GLT	1689	2300	0.31	0.42	31-3	1.21	4.42	31.5	81.2	\$56.90	\$961.30	\$287.47	\$1,248.77	n.t.
NG 1511 B2RF	1634	2291	0.29	0.41	31-7	1.08	4.14	29.5	80.8	\$53.00	\$866.10	\$286.34	\$1,152.44	n.t.
ST 4747 GLB2	1623	2478	0.28	0.43	31-6	1.16	4.41	28.5	81.6	\$53.30	\$865.01	\$309.71	\$1,174.73	n.t.
DP 1219 B2RF	1575	2352	0.29	0.43	31-4	1.16	3.77	33.9	81.3	\$55.35	\$871.96	\$293.95	\$1,165.91	n.t.
ST 4946 GLB2	1562	2552	0.28	0.46	21-4	1.16	3.58	31.5	82.9	\$55.70	\$870.19	\$318.99	\$1,189.18	n.t.
DP 1321 B2RF	1424	2154	0.29	0.44	21-5	1.11	3.96	30.4	80.7	\$54.15	\$771.26	\$269.27	\$1,040.54	n.t.
PHY 499 WRF	1264	1986	0.28	0.44	41-5	1.08	4.06	29.9	80.2	\$50.90	\$643.23	\$248.20	\$891.44	n.t.
PHY 339 WRF	1249	2008	0.28	0.44	21-4	1.15	3.66	32.1	82.0	\$55.85	\$697.72	\$251.05	\$948.77	n.t.
DP 1359 B2RF	1245	1793	0.29	0.41	31-3	1.15	3.84	33.0	81.6	\$56.95	\$708.77	\$224.07	\$932.85	n.t.
DP 1410 B2RF	1216	1840	0.30	0.45	31-5	1.18	3.71	31.6	80.2	\$53.90	\$655.21	\$230.01	\$885.22	n.t.
NG 5315 B2RF	1199	1778	0.29	0.42	31-6	1.14	4.06	29.8	82.9	\$53.55	\$642.00	\$222.25	\$864.25	n.t.
Average	1474	2177	0.29	0.43	-	1.15	3.98	31.1	81.4	\$54.81	\$810.03	\$272.15	\$1,082.18	-
Max.	2006	2596	0.33	0.46	-	1.21	4.42	33.9	82.9	\$58.20	\$1,167.60	\$324.52	\$1,492.12	-
Min.	1199	1778	0.28	0.41	-	1.08	3.58	28.5	80.2	\$50.90	\$642.00	\$222.25	\$864.25	-

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 \$250/ton For Questions Contact: Zach Wilcox (325)236-6912 or Dr. David Drake (325)653-4576

Table 7.

2014 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension									
Name of County:	Tom Green				Plant Date: May 15, 2014									
County ID Number:	451				Harvest Date: October 28, 2014									
District number:	7				Design: 40" centers, 8 rows, replicated 3 times across the field (rows were 1320 ft. long), Pattern: 8 planted rows, 1 out									
Year:	2014				Fertility: 150 lbs. 11-52-00 pre-plant, 100 units of 32-00-00 (URAN) beginning at first bloom									
Producer:	Kenny Gully				Herbicide: 2 RoundUp applications during the growing season									
					Fiber Quality					Lint	Seed	Total	2013	
Yield Per Acre					Color- Leaf	Fiber		Strength (gram/tex)	Uniformity	CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout				Length (staple)	Mic			Loan	Return	Return	Return	Return
Variety	Lint	Seed	Lint	Seed					Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested	
ST 4747GLB2	1663	2378	31.10	44.50		35.10	4.60	27.2	79.6	\$49.22	\$818.53	\$297.25	\$1,115.78	n.t.
ST 4946GLB2	1460	2138	35.10	51.50		34.30	4.80	30.2	82.1	\$49.75	\$726.35	\$267.25	\$993.60	11
PHY 499WRF	1442	2014	34.50	48.20		34.20	4.80	30.6	82.2	\$52.33	\$754.60	\$251.75	\$1,006.35	6
PHY 333WRF	1418	2006	33.10	46.80		34.80	4.30	28.1	81.5	\$51.87	\$735.52	\$250.75	\$986.27	n.t.
DP 1359B2RF	1386	2003	33.00	47.70		34.80	4.50	30.0	80.4	\$54.37	\$753.57	\$250.38	\$1,003.94	5
DP 1410B2RF	1382	2089	31.40	47.50		35.80	4.30	30.6	80.9	\$52.22	\$721.68	\$261.13	\$982.81	n.t.
FM 2334GLT	1327	1873	35.20	49.70		36.70	4.50	31.2	82.6	\$56.87	\$754.66	\$234.13	\$988.79	n.t.
FM 1830GLT	1285	1794	34.00	47.50		36.10	4.50	31.1	81.7	\$55.10	\$708.04	\$224.25	\$932.29	n.t.
NG 5315B2RF	1280	1810	33.40	47.20		35.20	4.70	28.7	82.5	\$56.18	\$719.10	\$226.25	\$945.35	n.t.
NG 1511B2RF	1269	1809	30.40	43.40		34.20	4.80	29.8	81.8	\$54.03	\$685.64	\$226.13	\$911.77	4
PHY 339WRF	1206	1789	32.00	47.40		34.30	4.30	29.4	80.9	\$54.22	\$653.89	\$223.63	\$877.52	n.t.
DP 1321B2RF	1143	1658	31.10	45.10		34.60	4.80	29.3	82.0	\$52.15	\$596.07	\$207.25	\$803.32	2
DP 1212B2RF	1136	1648	30.10	43.60		35.30	4.80	30.7	82.4	\$50.68	\$575.72	\$206.00	\$781.72	n.t.
Average	1338	1924	32.65	46.93	-	35.03	4.59	29.8	81.6	\$53.00	\$707.95	\$240.47	\$948.42	629
Max.	1663	2378	35.20	51.50	-	36.70	4.80	31.2	82.6	\$56.87	\$818.53	\$297.25	\$1,115.78	-
Min.	1136	1648	30.10	43.40	-	34.20	4.30	27.2	79.6	\$49.22	\$575.72	\$206.00	\$781.72	-

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 \$250/ton For Questions Contact: Rick Minzenmayer (325)365-1292 or Dr. David Drake (325)653-4576

Table 8.

2014 Irrigated Cotton Variety Trial					Texas A&M AgriLife Extension									
Name of County:	Tom Green				Plant Date: June 3, 2014									
County ID Number:	451				Harvest Date: November 26, 2014									
District number:	7				Design: 40" centers, 2 rows x 36 ft. long, 4 replications, Every Row									
Year:	2014				Fertility:									
Producer:	Daryl and Doyle Schniers				Herbicide: None									
Variety	Yield Per Acre				Fiber Quality					Lint	Seed	Total	2013	
	In Pounds		% Turnout		Color-Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity	CCC	Gross	Gross	Gross	Lint yld
	Lint	Seed	Lint	Seed						Loan	Return	Return	Return	ranking
									Value	(\$/acre)	(\$/acre)	(\$/acre)	of 17 tested	
PHY EP PX 4444-13WRF	2360	3333	31.40	44.30		39.80	4.0	30.6	83.0	\$57.12	\$1,348.03	\$416.63	\$1,764.66	n.t.
DP 1321B2RF	2077	2978	30.50	43.70		36.60	4.9	30.0	82.7	\$50.28	\$1,044.32	\$372.25	\$1,416.57	4
PHY 499WRF	2032	3015	28.60	42.50		36.50	4.7	31.6	83.3	\$53.78	\$1,092.81	\$376.88	\$1,469.68	7
PHY 495WRF	2018	2850	29.00	41.00		35.80	4.6	31.9	83.0	\$54.05	\$1,090.73	\$356.25	\$1,446.98	n.t.
ST 4946GLB2	2015	3159	27.80	43.50		36.50	4.7	30.8	83.3	\$54.12	\$1,090.52	\$394.88	\$1,485.39	9
NG 3306B2RF	2002	2870	29.90	42.80		37.20	4.8	30.9	83.7	\$53.73	\$1,075.67	\$358.75	\$1,434.42	n.t.
DP 1212B2RF	2000	3132	29.20	45.80		37.90	4.9	30.9	83.6	\$53.75	\$1,075.00	\$391.50	\$1,466.50	n.t.
PHY 333WRF	1987	2867	28.70	41.40		37.30	4.5	29.8	83.0	\$54.12	\$1,075.36	\$358.38	\$1,433.74	n.t.
DG 2570B2RF	1968	3212	29.60	48.30		35.40	4.5	29.6	82.5	\$55.92	\$1,100.51	\$401.50	\$1,502.01	12
DP 1359B2RF	1922	2947	28.00	42.90		37.80	4.3	32.0	81.2	\$56.42	\$1,084.39	\$368.38	\$1,452.77	2
PHY EP PX 5540-57WRF	1914	3131	26.90	44.10		37.80	4.2	31.3	83.2	\$54.32	\$1,039.68	\$391.38	\$1,431.06	n.t.
FM 2484B2F	1882	3063	27.80	45.30		39.10	4.2	31.8	82.8	\$55.72	\$1,048.65	\$382.88	\$1,431.53	5
DP 1410B2RF	1878	3071	27.60	45.20		38.20	4.2	31.2	82.3	\$53.83	\$1,010.93	\$383.88	\$1,394.80	n.t.
ST 4747GLB2	1862	2949	26.60	42.10		38.00	4.5	29.8	82.5	\$53.62	\$998.40	\$368.63	\$1,367.03	n.t.
FM 1830GLT	1845	2710	29.60	43.50		39.50	4.5	32.3	83.4	\$57.32	\$1,057.55	\$338.75	\$1,396.30	n.t.
PHY EP PX 3003-04WRF	1844	3142	26.30	44.80		36.40	4.7	32.5	82.4	\$56.52	\$1,042.23	\$392.75	\$1,434.98	n.t.
FM 1944GLB2	1832	3101	26.90	45.50		38.40	4.7	31.8	82.7	\$55.30	\$1,013.10	\$387.63	\$1,400.72	16
NG 1511B2RF	1821	3150	27.70	48.00		38.80	4.6	31.8	84.6	\$57.57	\$1,048.35	\$393.75	\$1,442.10	10
DG 2285B2RF	1772	2792	28.60	45.10		36.70	4.5	29.9	82.3	\$55.20	\$978.14	\$349.00	\$1,327.14	n.t.
FM 2334GLT	1715	2528	27.90	41.20		39.10	4.4	31.6	83.5	\$57.38	\$984.07	\$316.00	\$1,300.07	n.t.
PHY 339WRF	1700	2643	27.80	43.30		37.40	4.4	30.8	83.1	\$55.08	\$936.36	\$330.38	\$1,266.74	n.t.
Average	1926	2983	28.40	44.01	-	37.63	4.5	31.1	83.0	\$55.01	\$1,058.80	\$372.88	\$1,431.68	1837
Max.	2360	3333	31.40	48.30	-	39.80	4.90	32.5	84.6	\$57.57	\$1,348.03	\$416.63	\$1,764.66	-
Min.	1700	2528	26.30	41.00	-	35.40	4.00	29.6	81.2	\$50.28	\$936.36	\$316.00	\$1,266.74	-
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 \$250/ton For Questions Contact: Rick Minzenmayer (325)365-1292 or Dr. David Drake (325)653-4576														

Table 9.

2014 Irrigated Cotton Variety Trial															Texas A&M AgriLife Extension				
Name of County:	Tom Green				Plant Date: May 19, 2014														
County ID Number:	451				Harvest Date: November 13, 2014														
District number:	7				Design: 40" centers, 16 rows-except for NG 1511 B2RF with twenty rows														
Year:	2014				Fertility:														
Producer:	Doug Wilde				Herbicide: Temik 5 lbs/acre at plant 1 ½ pt. Direx, 1 qt Caparol														
Variety	Yield Per Acre				Fiber Quality					CCC	Lint	Seed	Total	2013					
	In Pounds		% Turnout		Color-	Fiber		Strength		Loan	Gross	Gross	Gross	Lint yld					
	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 16 tested					
FM 2334GLT	1957	2842	33.30	48.40	21-4	38.70	4.4	32.3	82.5	\$55.60	\$1,088.09	\$355.25	\$1,443.34	n.t.					
DP 1321B2RF	1957	2696	35.50	49.00	31-5	36.20	4.5	31.1	82.8	\$53.70	\$1,050.91	\$337.00	\$1,387.91	1					
FM 2484B2F	1940	3044	31.40	49.30	21-4	39.40	3.8	31.5	83.3	\$55.80	\$1,082.52	\$380.50	\$1,463.02	16					
ST 4946GLB2	1865	2777	33.60	50.00	21-4	36.50	4.3	31.9	82.1	\$55.45	\$1,034.14	\$347.13	\$1,381.27	8					
PHY 499WRF	1835	2574	32.10	45.00	31-4	35.80	4.2	31.0	82.1	\$55.20	\$1,012.92	\$321.75	\$1,334.67	7					
FM 1830GLT	1737	2430	35.10	49.10	11-2	39.70	4.2	33.0	83.2	\$57.60	\$1,000.51	\$303.75	\$1,304.26	n.t.					
ST 4747GLB2	1713	2534	35.40	52.30	31-5	37.40	4.5	31.3	82.3	\$53.80	\$921.59	\$316.75	\$1,238.34	n.t.					
FM 1944GLB2	1633	2618	29.20	46.90	21-4	38.10	4.5	32.1	82.1	\$55.60	\$907.95	\$327.25	\$1,235.20	11					
PHY 495WRF	1603	2395	30.00	44.80	31-5	35.20	4.3	30.8	83.8	\$53.15	\$851.99	\$299.38	\$1,151.37	n.t.					
PHY 333WRF	1590	2376	30.00	44.80	21-5	35.50	4.2	29.2	81.6	\$54.10	\$860.19	\$297.00	\$1,157.19	n.t.					
PHY 339WRF	1544	2362	33.70	51.50	21-4	36.80	4.2	30.5	81.5	\$55.50	\$856.92	\$295.25	\$1,152.17	n.t.					
DG 2570B2RF	1537	2292	34.00	50.80	21-5	35.80	4.5	29.9	82.2	\$57.05	\$876.86	\$286.50	\$1,163.36	4					
NG 1511B2RF	1518	2029	32.30	43.10	31-5	34.60	4.7	29.6	81.7	\$53.00	\$804.54	\$253.63	\$1,058.17	3					
DP 1212B2RF	1491	2240	32.50	48.80	31-5	36.50	4.9	30.5	83.1	\$53.60	\$799.18	\$280.00	\$1,079.18	n.t.					
DG 2285B2RF	1481	2209	35.70	53.20	21-3	35.80	4.2	30.1	81.9	\$54.00	\$799.74	\$276.13	\$1,075.87	n.t.					
DP 1359B2RF	1477	2274	31.90	49.00	21-3	37.40	4.0	32.4	82.0	\$57.45	\$848.54	\$284.25	\$1,132.79	2					
NG 3306B2RF	1469	2249	36.60	55.90	21-4	37.10	4.5	31.8	83.2	\$55.60	\$816.76	\$281.13	\$1,097.89	n.t.					
DP 1410B2RF	1454	2239	30.90	47.60	31-5	37.40	4.0	31.7	81.5	\$53.90	\$783.71	\$279.88	\$1,063.58	n.t.					
NG 5315B2RF	1197	1846	28.90	44.50	11-2	36.50	3.8	28.4	82.4	\$56.95	\$681.69	\$230.75	\$912.44	15					
Average	1631	2422	32.74	48.63	-	36.86	4.3	31.0	82.4	\$55.11	\$898.88	\$302.80	\$1,201.68	1221					
Max.	1957	3044	36.60	55.90	-	39.70	4.90	33.0	83.8	\$57.60	\$1,088.09	\$380.50	\$1,463.02	1370					
Min.	1197	1846	28.90	43.10	-	34.60	3.80	28.4	81.5	\$53.00	\$681.69	\$230.75	\$912.44	1066					
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 \$250/ton For Questions Contact: Rick Minzenmayer (325)365-1292 or Dr. David Drake (325)653-4576																			

Table 10.

		2014 Dryland Cotton Variety Trial								Texas A&M AgriLife Extension				
Name of County:	Fisher									Plant Date: June 6, 2014				
County ID Number:	64									Harvest Date: Oct. 16, 2014				
District number:	7									Design: Hand sampled and cleaned from 13.1 ft of row at 2 locations, Unreplicated strips				
Year:	2014									Fertility:				
Producer:	Todd Coker									Herbicide: None				
		Fiber Quality								Lint	Seed	Total	2013	
Yield Per Acre										CCC	Gross	Gross	Gross	Lint yld
In Pounds		% Turnout		Color-	Fiber	Strength		CCC	Loan	Return	Return	Return	Lint yld	
Variety	Lint	Seed	Lint	Seed	Leaf	Length (staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 9 tested
CP 3156 B2RF	190	234	0.45	0.55	11-1	0.99	4.57	26.1	79.6	\$49.05	\$93.19	\$29.29	\$122.48	n.t.
ST 4946 GLB2	167	225	0.43	0.57	11-1	1.05	5.03	31.8	82.3	\$51.40	\$85.73	\$28.19	\$113.92	3
PHY 499 WRF	158	176	0.47	0.53	11-1	1.01	5.10	29.4	81.5	\$47.05	\$74.16	\$22.05	\$96.21	n.t.
ST 4747 GLB2	154	209	0.42	0.58	11-1	1.02	4.87	24.4	77.7	\$48.75	\$75.17	\$26.11	\$101.29	n.t.
FM 1944 GLB2	145	196	0.43	0.57	11-1	1.05	4.83	27.7	78.7	\$52.80	\$76.70	\$24.45	\$101.15	6
NG 4111 RF	145	194	0.43	0.57	21-1	0.98	4.37	27.4	79.7	\$48.00	\$69.40	\$24.29	\$93.69	n.t.
PHY 375 WRF	142	175	0.45	0.55	11-1	0.97	4.63	26.3	79.1	\$48.00	\$68.25	\$21.92	\$90.16	n.t.
FM 1830 GLT	122	142	0.46	0.54	11-1	0.97	4.18	25.8	78.8	\$46.45	\$56.85	\$17.81	\$74.66	n.t.
NG 5315 B2RF	120	129	0.48	0.52	11-1	1.03	4.75	27.8	78.9	\$50.65	\$60.94	\$16.13	\$77.06	9
PHY 367 WRF	118	157	0.43	0.57	21-1	1.00	4.60	29.0	79.7	\$49.15	\$58.16	\$19.63	\$77.78	n.t.
NG 1511 B2RF	116	145	0.45	0.55	21-1	0.94	5.06	28.0	79.8	\$45.15	\$52.51	\$18.12	\$70.63	n.t.
FM 2334 GLT	85	85	0.50	0.50	11-1	0.93	4.61	22.6	76.8	\$45.45	\$38.72	\$10.63	\$49.36	n.t.
DP 1044 B2RF	81	109	0.43	0.58	22-1	0.85	4.62	24.9	77.0	\$44.25	\$35.73	\$13.65	\$49.38	8
DP 1219 B2RF	72	100	0.42	0.58	12-1	0.87	4.53	24.6	77.3	\$44.25	\$32.00	\$12.49	\$44.49	n.t.
DP 1410 B2RF	65	80	0.45	0.55	12-1	0.93	4.25	24.9	75.8	\$44.25	\$28.64	\$9.97	\$38.61	n.t.
Average	125	157	0.45	0.55	-	0.97	4.67	26.7	78.8	\$47.64	\$60.41	\$19.65	\$80.06	942
Max.	190	234	0.50	0.58	-	1.05	5.10	31.8	82.3	\$52.80	\$93.19	\$29.29	\$122.48	-
Min.	65	80	0.42	0.50	-	0.85	4.18	22.6	75.8	\$44.25	\$28.64	\$9.97	\$38.61	-

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: Dr. David Drake (325)653-4576

Table 11.

2014 Dryland Cotton Variety Trial															Texas A&M AgriLife Extension				
Name of County:	Concho				Plant Date: June 16, 2014														
County ID Number:	95				Harvest Date: December 16, 2014														
District number:	7				Design: 40" centers, 8 rows, replicated 3 times across the field (rows were 1320 ft. long), Pattern: 8 planted rows, 1 out														
Year:	2014				Fertility: Blend pre-plant														
Producer:	Kenny Gully				Herbicide: RoundUp as needed during the growing season														
Fiber Quality																			
Yield Per Acre					Fiber					CCC	Lint	Seed	Total	2013					
In Pounds		% Turnout			Color-Leaf	Length (staple)	Mic	Strength (gram/tex)	Uniformity	Loan Value	Gross Return (\$/acre)	Gross Return (\$/acre)	Gross Return (\$/acre)	Lint yld of 12 tested					
Variety	Lint	Seed	Lint	Seed															
PHY 499WRF	1112	1567	33.60	47.40		35.90	4.90	29.6	82.9	\$54.42	\$605.15	\$195.88	\$801.03	n.t.					
PHY 333WRF	1013	1446	32.70	46.70		36.30	4.70	30.0	82.4	\$54.88	\$555.93	\$180.75	\$736.68	n.t.					
FM 1944GLB2	1008	1547	33.40	51.30		36.40	4.90	29.2	81.6	\$53.95	\$543.82	\$193.38	\$737.19	n.t.					
FM 2334GLT	989	1407	35.30	50.30		37.80	4.60	30.8	83.0	\$57.45	\$568.18	\$175.88	\$744.06	n.t.					
ST 4946GLB2	960	1458	31.80	48.20		35.70	4.60	29.7	81.1	\$55.42	\$532.03	\$182.25	\$714.28	n.t.					
NG 1511B2RF	926	1298	31.80	44.60		35.40	4.80	29.8	81.7	\$55.30	\$512.08	\$162.25	\$674.33	n.t.					
DP 1410B2RF	907	1460	30.40	49.00		37.20	4.50	31.1	81.6	\$53.05	\$481.16	\$182.50	\$663.66	n.t.					
AT Epic RF	894	1494	31.40	52.50		36.10	4.90	30.7	80.9	\$52.28	\$467.38	\$186.75	\$654.13	n.t.					
FM 1830GLT	880	1264	31.80	45.60		38.20	4.70	31.9	82.3	\$56.43	\$496.58	\$158.00	\$654.58	n.t.					
DP 1212B2RF	875	1336	31.80	48.50		36.50	5.00	30.2	82.4	\$53.10	\$464.63	\$167.00	\$631.63	n.t.					
NG 3306B2RF	873	1164	31.30	41.70		37.30	4.40	31.7	83.2	\$57.80	\$504.59	\$145.50	\$650.09	n.t.					
ST 4747GLB2	839	1358	27.60	44.70		37.40	4.70	28.3	80.9	\$51.92	\$435.61	\$169.75	\$605.36	n.t.					
PHY 339WRF	835	1267	29.40	44.60		36.30	4.60	30.3	82.9	\$56.00	\$467.60	\$158.38	\$625.98	n.t.					
Average	932	1390	31.72	47.32	-	36.65	4.72	30.3	82.1	\$54.77	\$510.37	\$173.71	\$684.08	-					
Max.	1112	1567	35.30	52.50	-	38.20	5.00	31.9	83.2	\$57.80	\$605.15	\$195.88	\$801.03	-					
Min.	835	1164	27.60	41.70	-	35.40	4.40	28.3	80.9	\$51.92	\$435.61	\$145.50	\$605.36	-					
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 \$250/ton					For Questions Contact: Rick Minzenmayer (325)365-1292 or Dr. David Drake (325)653-4576														

Table 12.

2014 Dryland Cotton Variety Trial										Texas A&M AgriLife Extension					
Name of County:	Jones				Plant Date: June 18, 2014										
County ID Number:	253				Harvest Date: December 11, 2014										
District number:	7				Design: 8 rows, 30" 2X1, unreplicated, plot size 0.923 acres										
Year:	2014				Fertility:										
Producer:	Larry Lytle				Herbicide: None										
Fiber Quality										Lint	Seed	Total	2013		
Yield Per Acre										CCC	Gross	Gross	Gross	Lint yld	
In Pounds										Loan	Return	Return	Return	ranking	
% Turnout										Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested	
Variety	Lint	Seed	Lint	Seed	Color- Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested	
FM 2334 GLT	719	879	0.35	0.43	31-2	1.09	5.19	29.2	81.0	\$52.85	\$379.94	\$109.84	\$489.78	n.t.	
PHY 367 WRF	704	838	0.32	0.38	41-6	0.98	4.98	26.3	79.4	\$41.85	\$294.67	\$104.75	\$399.42	4	
PHY 499 WRF	689	887	0.28	0.36	31-4	1.00	5.29	29.1	81.1	\$45.25	\$311.64	\$110.88	\$422.52	5	
DP 1219 B2RF	660	952	0.29	0.42	31-4	1.09	4.94	29.0	79.0	\$53.25	\$351.60	\$119.04	\$470.64	6	
FM 1944 GLB2	627	918	0.29	0.43	31-3	1.07	5.30	29.5	80.0	\$49.15	\$307.95	\$114.79	\$422.75	12	
ST 4946 GLB2	579	817	0.28	0.39	31-6	1.02	5.24	29.0	79.5	\$45.75	\$264.87	\$102.14	\$367.00	9	
PHY 375 WRF	567	799	0.31	0.43	31-4	0.98	5.15	26.5	79.2	\$43.45	\$246.26	\$99.88	\$346.14	n.t.	
ST 4747 GLB2	566	777	0.27	0.36	41-8	1.05	5.33	25.6	78.8	\$43.35	\$245.30	\$97.11	\$342.42	n.t.	
NG 5315 B2RF	562	691	0.32	0.39	21-1	1.04	5.03	27.5	80.4	\$48.70	\$273.77	\$86.36	\$360.12	10	
FM 1830 GLT	544	664	0.33	0.40	21-2	1.11	5.09	30.7	80.8	\$54.65	\$297.30	\$82.94	\$380.24	n.t.	
NG 1511 B2RF	487	662	0.29	0.39	41-5	1.02	5.28	28.3	79.6	\$43.35	\$211.17	\$82.77	\$293.94	2	
NG 4111 RF	482	671	0.27	0.38	31-4	1.03	5.08	30.5	79.9	\$46.80	\$225.59	\$83.90	\$309.49	n.t.	
DP 1044 B2RF	480	653	0.28	0.39	31-5	1.05	5.13	29.1	78.5	\$47.25	\$227.02	\$81.63	\$308.65	3	
DP 1410 B2RF	465	625	0.27	0.36	41-6	1.04	5.00	29.3	79.9	\$44.70	\$208.02	\$78.08	\$286.10	n.t.	
Average	581	774	0.30	0.39	-	1.04	5.15	28.5	79.8	\$47.17	\$274.65	\$96.72	\$371.37	339	
Max.	719	952	0.35	0.43	-	1.11	5.33	30.7	81.1	\$54.65	\$379.94	\$119.04	\$489.78	503	
Min.	465	625	0.27	0.36	-	0.98	4.94	25.6	78.5	\$41.85	\$208.02	\$78.08	\$286.10	223	

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 \$250/ton For Questions Contact: Steve Estes (325)823-2432 or Dr. David Drake (325)653-4576

Table 13.

2014 Dryland Cotton Variety Trial														
Name of County:		Runnels			Plant Date: June, 2, 2014					Texas A&M AgriLife Extension				
County ID Number:		65			Harvest Date: October 22, 2014									
District number:		7			Design: 36" centers, 8 row plots (rows were approximately 4500 ft. long), Every Row									
Year:		2014			Fertility:									
Producer:		Paul Minzenmayer			Herbicide: RoundUp applications during the growing season as needed									
Variety	Yield Per Acre				Fiber Quality					CCC	Lint	Seed	Total	2013
	In Pounds		% Turnout		Color-	Fiber		Strength		Loan	Return	Return	Return	Lint yld
	Lint	Seed	Lint	Seed	Leaf	Length (staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested
PHY 333WRF	1318	1876	37.00	52.60	21-5	35.80	4.2	30.6	82.8	\$54.20	\$714.36	\$234.50	\$948.86	n.t.
FM 1830GLT	1185	1588	37.40	50.10	21-2	37.40	4.5	32.4	82.1	\$58.05	\$687.89	\$198.50	\$886.39	n.t.
ST 4747GLB2	1151	1798	33.50	52.40	31-5	37.10	4.4	29.2	80.8	\$53.55	\$616.36	\$224.75	\$841.11	n.t.
DP 1321B2RF	1148	1602	35.10	49.10	21-5	34.90	4.5	29.4	81.6	\$53.40	\$613.03	\$200.25	\$813.28	n.t.
ST 4946GLB2	1147	1777	33.50	52.00	21-5	35.50	4.2	31.4	82.6	\$54.35	\$623.39	\$222.13	\$845.52	n.t.
DP 1359B2RF	1130	1577	35.40	49.40	11-2	35.20	4.1	30.0	80.4	\$56.85	\$642.41	\$197.13	\$839.53	n.t.
PHY 499WRF	1120	1693	32.70	49.50	21-4	33.90	4.5	29.7	81.9	\$53.15	\$595.28	\$211.63	\$806.91	n.t.
DP 1212B2RF	1108	1712	34.40	53.30	31-3	36.50	4.7	31.4	82.9	\$56.65	\$627.68	\$214.00	\$841.68	n.t.
NG 5315B2RF	1090	1578	36.50	52.80	11-2	35.50	4.4	28.9	83.4	\$57.60	\$627.84	\$197.25	\$825.09	n.t.
FM 2334GLT	1078	1466	33.10	45.00	21-2	37.10	4.6	33.1	82.3	\$58.05	\$625.78	\$183.25	\$809.03	n.t.
FM 1944GLB2	1037	1937	29.60	55.30	21-3	35.50	4.5	29.7	81.8	\$56.85	\$589.53	\$242.13	\$831.66	n.t.
FM 2484B2F	1021	1435	31.40	44.10	21-3	37.10	4.2	31.9	81.9	\$57.40	\$586.05	\$179.38	\$765.43	n.t.
NG 1511B2RF	1013	1427	34.50	48.60	21-3	33.90	4.3	30.2	81.8	\$54.00	\$547.02	\$178.38	\$725.40	n.t.
PHY 339WRF	987	1555	30.20	47.60	21-4	35.20	4.1	30.3	81.8	\$54.60	\$538.90	\$194.38	\$733.28	n.t.
DP 1410B2RF	970	1467	31.30	47.40	21-3	36.80	4.1	30.6	81.4	\$57.25	\$555.33	\$183.38	\$738.70	n.t.
Average	1100	1633	33.71	49.95	-	35.83	4.4	30.6	82.0	\$55.73	\$612.72	\$204.07	\$816.79	-
Max.	1318	1937	37.40	55.30	-	37.40	4.70	33.1	83.4	\$58.05	\$714.36	\$242.13	\$948.86	-
Min.	970	1427	29.60	44.10	-	33.90	4.10	28.9	80.4	\$53.15	\$538.90	\$178.38	\$725.40	-
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 \$250/ton For Questions Contact: Rick Minzenmayer (325)365-1292 or Dr. David Drake (325)653-4576														

Permian Basin, D6

Table 14.

		2014 Dryland Cotton Variety Trial								Texas A&M AgriLife Extension					
Name of County:	Howard	Plant Date: June 3, 2014													
County ID Number:	227	Harvest Date: Dec 16, 2014													
District number:	6	Design: 16 rows, 40" , 400 ft, Unreplicated													
Year:	2014	Fertility:													
Producer:	Donnie Reid	Herbicide:													
		Fiber Quality								Lint	Seed	Total	2013		
Yield Per Acre		Fiber								CCC	Gross	Gross	Gross	Lint yld	
In Pounds		% Turnout				Color-	Length	Mic	Strength	Uniformity	Loan	Return	Return	Return	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)		(gram/tex)		Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested	
ST 4946 GLB2	571	789	0.36	0.50	41-5	1.08	5.03	30.9	80.1	\$50.15	\$286.50	\$98.64	\$385.14	3	
NG 5315 B2RF	540	681	0.36	0.45	41-5	1.07	5.12	29.2	81.0	\$50.50	\$272.88	\$85.15	\$358.03	1	
PHY 367 WRF	393	541	0.34	0.47	31-5	1.06	5.03	28.7	80.2	\$49.15	\$192.96	\$67.61	\$260.57	9	
DP 1219 B2RF	388	529	0.30	0.40	41-4	1.11	4.76	31.5	80.4	\$56.70	\$220.05	\$66.07	\$286.12	n.t.	
DP 1410 B2RF	359	509	0.29	0.42	41-4	1.07	4.75	29.8	79.7	\$49.25	\$176.93	\$63.63	\$240.56	n.t.	
NG 1511 B2RF	358	452	0.32	0.40	31-3	0.99	5.23	28.2	79.3	\$42.15	\$151.10	\$56.50	\$207.60	n.t.	
FM 1944 GLB2	353	513	0.28	0.41	31-2	1.06	5.09	27.6	79.1	\$48.40	\$171.01	\$64.11	\$235.12	7	
DG 2285 B2RF	350	473	0.31	0.42	41-6	1.02	4.94	26.4	80.7	\$49.45	\$173.24	\$59.16	\$232.40	11	
DP 1044 B2RF	347	459	0.32	0.42	31-3	1.04	5.15	29.1	81.1	\$45.45	\$157.82	\$57.36	\$215.18	5	
NG 4111 RF	326	451	0.31	0.43	31-3	1.04	4.97	31.0	81.0	\$48.65	\$158.68	\$56.41	\$215.09	2	
PHY 375 WRF	289	392	0.30	0.41	41-4	1.03	5.00	28.0	80.4	\$46.60	\$134.70	\$48.95	\$183.65	n.t.	
FM 1830 GLT	273	341	0.33	0.42	41-4	1.09	5.21	29.8	80.1	\$52.55	\$143.63	\$42.63	\$186.26	n.t.	
FM 2484 B2F	269	385	0.27	0.39	42-6	1.08	4.96	29.1	79.4	\$47.15	\$126.74	\$48.13	\$174.87	8	
Average	371	501	0.32	0.43	-	1.06	5.02	29.2	80.2	\$48.93	\$182.02	\$62.64	\$244.66	417	
Max.	571	789	0.36	0.50	-	1.11	5.23	31.5	81.1	\$56.70	\$286.50	\$98.64	\$385.14	597	
Min.	269	341	0.27	0.39	-	0.99	4.75	26.4	79.1	\$42.15	\$126.74	\$42.63	\$174.87	321	
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 \$250/ton For Questions Contact: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576															

Table 15.

2014 Dryland Cotton Variety Trial										Texas A&M AgriLife Extension			
Name of County:	Glasscock				Plant Date: June 6, 2014								
County ID Number:	383				Harvest Date: October 28, 2014								
District number:	6				Design: 16 rows, 8x1, 2569 ft., Strip Trial								
Year:	2014				Fertility: 0 units N								
Producer:	Russell Halfmann				Herbicide: 32 oz. glyphosate								
Fiber Quality										Lint	Seed	Total	
Yield Per Acre										CCC	Gross	Gross	Gross
In Pounds										Loan	Return	Return	Return
% Turnout										Value	(\$/acre)	(\$/acre)	(\$/acre)
Variety	Lint	Seed	Lint	Seed	Color- Leaf	Fiber Length (staple)	Mic	Strength gram/tex	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)
FM 2484 B2F	116	157	0.37	0.50	31-1	1.08	4.64	31.8	80.4	\$55.75	\$64.44	\$23.50	\$87.94
DP 1044 B2RF	96	137	0.32	0.46	31-1	1.00	4.78	31.3	80.4	\$50.00	\$48.00	\$20.57	\$68.58
FM 1944 GLB2	97	136	0.31	0.43	41-2	1.05	4.90	30.9	80.1	\$52.55	\$50.81	\$20.43	\$71.24
PHY 499 WRF	101	137	0.32	0.43	31-4	1.01	4.88	32.4	81.3	\$47.20	\$47.63	\$20.48	\$68.11
DP 1219 B2RF	89	121	0.29	0.39	31-4	1.02	4.52	30.6	80.1	\$47.95	\$42.75	\$18.20	\$60.95
FM 1830 GLT	88	108	0.32	0.39	31-1	1.06	4.74	30.9	79.5	\$52.65	\$46.49	\$16.21	\$62.69
DP 1454 NR B2RF	90	116	0.33	0.43	31-3	1.03	4.78	30.0	81.2	\$49.50	\$44.69	\$17.36	\$62.04
DP 1359 B2RF	80	105	0.32	0.42	31-1	1.03	4.57	31.6	79.8	\$50.75	\$40.76	\$15.68	\$56.44
DP 1252 B2RF	82	102	0.33	0.41	21-4	1.01	4.76	29.0	81.3	\$49.50	\$40.37	\$15.25	\$55.62
FM 8270GLB2	83	119	0.28	0.41	32-2	1.00	4.86	30.1	79.6	\$47.10	\$39.26	\$17.85	\$57.11
NG 1511 B2RF	78	106	0.32	0.44	31-4	0.96	4.77	29.0	79.4	\$43.80	\$34.04	\$15.86	\$49.90
PHY 367 WRF	76	111	0.29	0.42	42-1	1.00	4.73	28.9	79.9	\$46.80	\$35.47	\$16.58	\$52.05
DP 1410 B2RF	69	97	0.31	0.44	41-1	1.06	4.48	31.2	79.8	\$52.00	\$35.97	\$14.56	\$50.53
DP 1212 B2RF	67	101	0.30	0.45	31-2	1.06	4.76	33.8	81.2	\$53.05	\$35.46	\$15.15	\$50.61
DP 1321 B2RF	80	105	0.29	0.39	41-3	0.96	4.94	28.4	79.1	\$45.60	\$36.28	\$15.79	\$52.07
FM 2989 GLB2	82	119	0.32	0.46	31-4	1.06	4.87	30.7	80.0	\$49.15	\$40.35	\$10.13	\$50.48
FM 2334 GLT	61	74	0.34	0.42	31-1	1.05	4.83	29.8	81.1	\$53.25	\$32.53	\$11.09	\$43.62
Average	84	115	0.32	0.43	-	1.03	4.75	30.6	80.2	\$49.80	\$42.08	\$16.75	\$58.82
Max.	116	157	0.37	0.50	-	1.08	4.94	33.8	81.3	\$55.75	\$64.44	\$23.50	\$87.94
Min.	61	74	0.28	0.39	-	0.96	4.48	28.4	79.1	\$43.80	\$32.53	\$10.13	\$43.62

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 FBRI, Lubbock.

Gross Seed Return based on \$170/ton For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576

\$3.00/cwt ginning cost

Table 16.

2014 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension			
Name of County:	Reagan				Plant Date: June 9, 2014								
County ID Number:	383				Harvest Date: Dec 1, 2014								
District number:	6				Design: 6 rows, 40", Solid, 1539 ft, Strip Trial								
Year:	2014				Fertility: 92 Units N								
Producer:	Phillip Bales				Herbicide:								
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	Return (\$/acre)	Return (\$/acre)	Return (\$/acre)	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)
NG 5315 B2RF	905	1197	0.34	0.45	31-1	1.10	3.85	29.5	81.4	\$55.55	\$502.88	\$101.73	\$604.61
DP 1219 B2RF	802	1166	0.31	0.46	31-1	1.10	3.34	31.3	79.1	\$53.70	\$430.86	\$99.07	\$529.93
DG 2285 B2RF	778	1061	0.35	0.48	41-1	1.08	4.43	29.1	82.4	\$53.70	\$417.93	\$90.15	\$508.08
DG 2570 B2RF	690	1006	0.33	0.48	31-2	1.12	4.03	30.9	83.3	\$53.55	\$369.30	\$85.49	\$454.78
PHY 333 WRF	698	950	0.30	0.41	31-1	1.06	4.23	30.9	81.6	\$54.05	\$377.38	\$80.74	\$458.12
NG 3306 B2RF	638	981	0.31	0.47	41-1	1.09	4.32	31.2	82.9	\$55.35	\$352.86	\$83.36	\$436.22
ST 4946 GLB2	654	965	0.31	0.45	41-2	1.10	3.71	30.0	80.4	\$55.25	\$361.07	\$82.01	\$443.08
NG 1511 B2RF	657	835	0.33	0.42	31-2	1.13	4.07	32.9	82.8	\$54.35	\$357.35	\$71.00	\$428.35
DP 1321 B2RF	648	895	0.33	0.45	31-2	1.14	3.92	31.3	81.0	\$53.75	\$348.41	\$76.04	\$424.45
ST 4747 GLB2	647	921	0.28	0.39	31-2	1.09	4.73	31.1	81.7	\$53.90	\$348.93	\$78.27	\$427.20
FM 1830 GLT	597	819	0.32	0.45	41-1	1.08	3.53	30.7	81.9	\$55.35	\$330.39	\$69.62	\$400.00
FM 1944 GLB2	563	870	0.29	0.45	31-1	1.13	4.17	31.1	82.7	\$56.95	\$320.64	\$73.94	\$394.58
PHY 339 WRF	569	833	0.31	0.45	31-2	1.11	3.71	31.6	81.5	\$55.25	\$314.54	\$70.77	\$385.31
FM 2484 B2F	543	871	0.26	0.42	31-2	1.14	3.59	31.5	81.7	\$55.20	\$299.50	\$74.01	\$373.51
FM 9170 B2F	381	563	0.25	0.38	31-2	1.09	3.09	30.4	80.6	\$50.70	\$193.22	\$47.83	\$241.04
Average	651	929	0.31	0.44	-	1.10	3.91	30.9	81.7	\$54.44	\$355.02	\$78.93	\$433.95
Max.	905	1197	0.35	0.48	-	1.14	4.73	32.9	83.3	\$56.95	\$502.88	\$101.73	\$604.61
Min.	381	563	0.25	0.38	-	1.06	3.09	29.1	79.1	\$50.70	\$193.22	\$47.83	\$241.04
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 FBRI, Lubbock.													
Gross Seed Return based on \$170/ton For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576													
\$3.00/cwt ginning cost													

Table 17.

2014 Irrigated Cotton Variety Trial											Texas A&M AgriLife Extension			
Name of County:	Howard					Plant Date: May 30, 2014								
County ID Number:	227					Harvest Date: Nov. 20, 2014								
District number:	6					Design: SDI, 16 rows, 40", 400 ft, Unreplicated								
Year:	2014					Fertility:								
Producer:	Marty Brooks					Herbicide:								
Variety	Fiber Quality										Lint	Seed	Total	2013
	Yield Per Acre		% Turnout		Color-	Fiber	Strength			CCC	Gross	Gross	Gross	Lint yld
	In Pounds		Lint	Seed	Leaf	Length (staple)	Mic	(gram/tex)	Uniformity	Loan	Return (\$/acre)	Return (\$/acre)	Return (\$/acre)	ranking
	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	of 12 tested
DP 1219 B2RF	1303	1964	0.31	0.47	31-3	1.18	4.66	34.9	83.0	\$57.10	\$744.29	\$245.46	\$989.75	n.t.
NG 5315 B2RF	1299	1871	0.34	0.49	31-2	1.15	4.49	31.0	82.9	\$57.45	\$746.07	\$233.90	\$979.97	n.t.
ST 4747 GLB2	1188	1640	0.34	0.47	51-5	1.08	4.88	28.9	79.5	\$48.15	\$571.86	\$204.94	\$776.80	n.t.
FM 1830 GLT	1150	1578	0.35	0.48	31-3	1.18	4.71	33.7	82.8	\$57.00	\$655.75	\$197.23	\$852.98	n.t.
DG 2285 B2RF	1063	1468	0.34	0.47	41-6	1.11	4.52	30.2	81.8	\$51.55	\$548.05	\$183.51	\$731.56	n.t.
12R249DP B2RF	1056	1392	0.35	0.47	31-2	1.06	4.36	31.9	81.0	\$53.70	\$566.89	\$173.97	\$740.86	n.t.
FM 2484 B2F	1053	1460	0.33	0.46	41-4	1.15	4.71	32.2	82.2	\$54.25	\$571.49	\$182.54	\$754.02	5
PHY 417 WRF	981	1164	0.37	0.44	41-4	0.99	4.70	29.1	79.5	\$47.85	\$469.25	\$145.54	\$614.78	n.t.
NG 1511 B2RF	936	1163	0.36	0.45	41-4	1.01	5.36	31.3	80.5	\$44.85	\$419.61	\$145.36	\$564.97	6
DP 1321 B2RF	910	1122	0.37	0.45	41-5	1.04	5.07	31.0	80.4	\$45.80	\$416.68	\$140.29	\$556.97	n.t.
ST 4946 GLB2	900	1316	0.31	0.46	41-4	1.07	5.33	31.7	82.2	\$48.45	\$435.86	\$164.54	\$600.40	1
FM 1944 GLB2	874	1269	0.30	0.43	41-4	1.10	4.67	31.2	79.3	\$52.65	\$460.08	\$158.68	\$618.76	n.t.
PHY 499 WRF	833	1151	0.34	0.47	41-5	1.07	5.02	32.5	81.4	\$47.50	\$395.67	\$143.90	\$539.56	2
NG 3306 B2RF	818	1247	0.34	0.52	41-4	1.11	5.00	33.4	81.3	\$51.25	\$418.98	\$155.90	\$574.88	n.t.
NITRO 44 B2RF	749	1130	0.30	0.45	41-5	1.13	4.58	34.4	81.8	\$51.75	\$387.41	\$141.22	\$528.64	n.t.
DG 2570 B2RF	735	1014	0.32	0.44	42-3	1.01	5.09	29.0	79.7	\$44.05	\$323.67	\$126.75	\$450.42	n.t.
FM 2334 GLT	713	911	0.39	0.50	31-3	1.10	4.94	31.4	80.4	\$55.75	\$397.42	\$113.91	\$511.32	n.t.
Average	974	1345	0.34	0.47	-	1.09	4.83	31.6	81.2	\$51.12	\$501.71	\$168.10	\$669.80	882
Max.	1303	1964	0.39	0.52	-	1.18	5.36	34.9	83.0	\$57.45	\$746.07	\$245.46	\$989.75	1086
Min.	713	911	0.30	0.43	-	0.99	4.36	28.9	79.3	\$44.05	\$323.67	\$113.91	\$450.42	591

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 \$250/ton For Questions Contact: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576

Table 18.

2014 Irrigated Cotton Variety Trial										Texas A&M AgriLife Extension			
Name of County:	Reagan				Plant Date: May 20, 2014								
County ID Number:	383				Harvest Date: October 29, 2014								
District number:	6				Design: 6 rows, 40", 2X1, 870 ft, Strip Trial								
Year:	2014				Fertility: 46.5 units N & 4 gal/acre Rootrition								
Producer:	Ricky Halfmann				Herbicide: glyphosate 32 oz. x 2								
Fiber Quality										Lint	Seed	Total	
Yield Per Acre										CCC	Gross	Gross	Gross
In Pounds										Loan	Return	Return	Return
% Turnout										Value	(\$/acre)	(\$/acre)	(\$/acre)
Variety	Lint	Seed	Lint	Seed	Color- Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)
DP 1219 B2RF	1138	1483	0.34	0.44	31-1	1.08	4.16	31.7	80.8	\$55.90	\$636.13	\$126.05	\$762.18
DP 1321 B2RF	1173	1486	0.34	0.44	41-1	1.06	4.70	31.1	80.9	\$52.75	\$618.63	\$126.33	\$744.96
FM 2334 GLT	1106	1287	0.36	0.42	31-1	1.11	4.50	31.2	81.4	\$56.70	\$627.10	\$109.43	\$736.53
NG 5315 B2RF	1086	1339	0.35	0.43	21-1	1.08	4.66	30.4	81.5	\$56.50	\$613.63	\$113.79	\$727.42
PHY 339 WRF	1125	1493	0.34	0.45	41-1	1.09	4.31	31.3	81.9	\$53.95	\$606.89	\$126.89	\$733.78
FM1944 GLB2	1085	1519	0.33	0.46	31-1	1.08	4.51	31.4	80.4	\$55.75	\$605.02	\$129.09	\$734.12
PHY 333 WRF	1155	1468	0.34	0.43	41-3	1.07	4.51	29.7	81.9	\$52.40	\$605.11	\$124.80	\$729.91
ST 4747 GLB2	1107	1491	0.32	0.43	41-1	1.11	4.55	29.4	80.7	\$54.30	\$600.87	\$126.75	\$727.63
FM 2484 B2RF	1065	1428	0.32	0.43	31-2	1.13	4.19	32.1	81.6	\$55.25	\$588.38	\$121.41	\$709.79
PHY 499 WRF	1097	1385	0.32	0.41	41-1	1.05	4.79	31.9	81.4	\$52.75	\$578.60	\$117.73	\$696.34
NG 1511 B2RF	1143	1405	0.34	0.42	41-1	1.02	4.71	30.7	81.1	\$50.25	\$574.47	\$119.43	\$693.90
DG 2570 B2RF	1126	1473	0.34	0.45	31-3	1.02	4.73	29.8	80.6	\$49.35	\$555.59	\$125.24	\$680.83
NG 3306 B2RF	1009	1419	0.32	0.45	41-3	1.11	4.75	32.3	83.1	\$54.85	\$553.68	\$120.63	\$674.31
DG 2285 B2RF	1034	1316	0.34	0.43	41-1	1.06	4.53	30.4	80.8	\$52.55	\$543.24	\$111.84	\$655.08
ST 4946 GLB2	1081	1400	0.29	0.38	31-4	1.04	4.85	31.0	81.5	\$48.15	\$520.38	\$119.01	\$639.39
FM 1830 GLT	918	1123	0.33	0.40	31-2	1.11	4.40	33.3	81.3	\$55.10	\$505.89	\$95.46	\$601.35
Average	1090	1407	0.33	0.43	-	1.08	4.55	31.1	81.3	\$53.53	\$583.35	\$119.62	\$702.97
Max.	1173	1519	0.36	0.46	-	1.13	4.85	33.3	83.1	\$56.70	\$636.13	\$129.09	\$762.18
Min.	918	1123	0.29	0.38	-	1.02	4.16	29.4	80.4	\$48.15	\$505.89	\$95.46	\$601.35

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 FBRI, Lubbock.

Gross Seed Return based on \$170/ton For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576

\$3.00/cwt ginning cost

Table 19. Estimated 2014 Per Acre Cost and Returns for Stacked Gene, Drip Irrigated Cotton, West Central Texas, Extension District-7.

		Crop Acres		400			
						Enterprise	
REVENUE		Quantity	Units	\$/Unit	Total	Total	
	Cotton Lint	1,576.00	Pound	\$0.5456	\$859.87	\$343,946.24	
	Cotton Seed	1.20	Ton	\$250.00	\$300.63	\$120,250.00	
Total Revenue					\$1,160.49	\$464,196.24	
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Total	
Production Costs							
Custom							
	Apply Harvest Aid	2	Acre	\$7.00	\$14.00	\$5,600.00	
	Custom Strip	1576	Pounds	\$0.09	\$141.84	\$56,736.00	
	Gin and Haul	51.91	CWT	\$2.50	\$129.78	\$51,910.00	
	Custom Bag/Tie	3.15	Bales	\$12.00	\$37.80	\$15,120.00	
	Soil Test-Irrigated	1	Each	\$0.50	\$0.50	\$200.00	
Fertilizer							
	Nitrogen Dry	11	Pounds	\$0.53	\$5.83	\$2,332.00	
	Phosphate	58	Pounds	\$0.55	\$31.90	\$12,760.00	
	Nitrogen N32	126	Pounds	\$0.58	\$73.08	\$29,232.00	
Herbicide							
	Glyphosate	96	Ounce	\$0.13	\$12.48	\$4,992.00	
	2-4D Amine 4	1.25	Pint	\$2.09	\$2.61	\$1,045.00	
	Mepiquat Chloride	33	Ounce	\$0.11	\$3.63	\$1,452.00	
	Trifluralin	1.5	Pint	\$2.81	\$4.22	\$1,687.50	
	Caparol	24	Ounce	\$0.24	\$5.81	\$2,325.12	
	Direx	2	Pints	\$3.62	\$7.24	\$2,896.00	
Insecticide							
	Boll Weevil Eradication Program	1	Acre	\$5.00	\$5.00	\$2,000.00	
	Intruder 70wsp	1	Ounce	\$9.20	\$9.20	\$3,680.00	
Seed							
	Seed Cotton	38.5	Thousand	\$1.40	\$53.90	\$21,560.00	
Miscellaneous							
	Irr Cotton-RP 65% SE	1	Acre	\$25.02	\$25.02	\$10,008.00	
Other Chemicals							
	Ethephon 6	1.5	Pint	\$2.75	\$4.13	\$1,650.00	
	Adios	5	Ounce	\$1.00	\$5.00	\$2,000.00	
	Firestorm	28	Ounce	\$0.21	\$5.88	\$2,352.00	
Fungicides							
	Topguard-2lb	24	Ounce	\$1.56	\$37.44	\$14,976.00	
Irrigation							
	Water Cost	18.00	AcreInch	\$0.00	\$0.00	\$0.00	
	Energy Cost	18.00	AcreInch	\$3.68	\$66.29	\$26,514.39	
	Irrigation Labor	0.80	Hour	\$12.00	\$9.60	\$3,840.00	
Machinery Labor							
	Tractors/Self-Propelled	1.36	Hour	\$12.00	\$16.32	\$6,528.00	
Diesel Fuel							
	Tractors/Self-Propelled	7.4	Gallon	\$3.20	\$23.68	\$9,472.00	
Gasoline							
	Pickup/General Use Equipment	1	Acre	\$1.77	\$1.77	\$708.84	
Repairs & Maintenance							
	Pickup/General Use Equipment	1	Acre	\$0.82	\$0.82	\$328.50	
	Irrigation Equipment	1	Acre	\$5.50	\$5.50	\$2,200.00	
	Tractors/Self-Propelled	1	Acre	\$14.40	\$14.40	\$5,758.05	
	Implements	1	Acre	\$14.65	\$14.65	\$5,861.89	
	Interest on Credit Line			3.75%	\$5.76	\$2,302.42	
Total Variable Costs					\$775.07	\$310,027.70	
Planned Returns Above Variable Costs:					\$385.42	\$154,168.54	
	Breakeven Price to Cover Variable Costs			\$0.30	Pound		
FIXED COSTS		Quantity	Units	\$/Unit	Total	Total	
Machinery Depreciation							
	Pickup/General Use Equipment	1	Acre	\$1.74	\$1.74	\$696.60	
	Irrigation Equipment	1	Acre	\$54.45	\$54.45	\$21,780.00	
	Tractors/Self-Propelled	1	Acre	\$19.50	\$19.50	\$7,801.84	
	Implements	1	Acre	\$16.02	\$16.02	\$6,406.81	
Equipment Investment							
	Pickup/General Use Equipment	\$17.55	Dollars	3.75%	\$0.66	\$263.25	
	Irrigation Equipment	\$1,100.00	Dollars	3.75%	\$41.25	\$16,500.00	
	Tractors/Self-Propelled	\$221.05	Dollars	3.75%	\$8.29	\$3,315.70	
	Implements	\$158.57	Dollars	3.75%	\$5.95	\$2,378.52	
	Management Fee, Owner/Operator Labor	1	Acre	\$0.00	\$0.00	\$0.00	
	Allocated Establishment Cost	1	Acre	\$0.00	\$0.00	\$0.00	
	Rent-Irrigated Crop	1	Acre	\$70.00	\$70.00	\$28,000.00	
Total Fixed Costs					\$217.86	\$87,142.72	
Total Specified Costs					\$992.93	\$397,170.43	
Returns Above Specified Costs					\$167.56	\$67,025.81	
	Breakeven Price to Cover Total Costs			\$0.44	Pound		

Table 20. Estimated 2014 Per Acre Cost and Returns for Stacked Gene, Dryland Cotton, West Central Texas, Extension District-7.

		Crop Acres	2700				
							Enterprise
REVENUE		Quantity	Units	\$/Unit	Total	Total	Total
	Cotton Lint	684.50	Pound	\$0.5132	\$351.29	\$948,470.58	
	Cotton Seed	0.49	Ton	\$250.00	\$123.58	\$333,652.50	
	Total Revenue				\$474.86	\$1,282,123.08	
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Total	Enterprise
Production Costs							
	Custom						
	Custom Strip	684.5	Pounds	\$0.09	\$61.61	\$166,333.50	
	Gin and Haul	22.44	CWT	\$2.50	\$56.10	\$151,470.00	
	Custom Bag/Tie	1.4	Bales	\$12.00	\$16.80	\$45,360.00	
	Soil Test-Dryland	1	Each	\$0.25	\$0.25	\$675.00	
	Fertilizer						
	Phosphate	19	Pounds	\$0.55	\$10.45	\$28,215.00	
	N at Planting	19	Pounds	\$0.62	\$11.78	\$31,806.00	
	Herbicide						
	Glyphosate	160	Ounce	\$0.13	\$20.80	\$56,160.00	
	2-4D Amine 4	1.25	Pint	\$2.09	\$2.61	\$7,053.75	
	Trifluralin	1.5	Pint	\$2.81	\$4.22	\$11,390.63	
	Caparol	24	Ounce	\$0.24	\$5.81	\$15,694.56	
	Direx	2	Pints	\$3.62	\$7.24	\$19,548.00	
	Insecticide						
	Boll Weevil Eradication Program	1	Acre	\$5.00	\$5.00	\$13,500.00	
	Seed						
	Seed Cotton	29	Thousand	\$1.40	\$40.60	\$109,620.00	
	Miscellaneous						
	Dry Cotton RP 65% YA, SE	1	Acre	\$17.17	\$17.17	\$46,359.00	
	Other Chemicals						
	Firestorm	28	Ounce	\$0.21	\$5.88	\$15,876.00	
	Machinery Labor						
	Tractors/Self-Propelled	0.98	Hour	\$12.00	\$11.76	\$31,752.00	
	Diesel Fuel						
	Pickup/General Use Equipment	1	Acre	\$0.00	\$0.00	\$0.00	
	Tractors/Self-Propelled	4.6	Gallon	\$3.20	\$14.72	\$39,744.00	
	Gasoline						
	Pickup/General Use Equipment	1	Acre	\$1.69	\$1.69	\$4,568.08	
	Tractors/Self-Propelled	0	Gallon	\$2.30	\$0.00	\$0.00	
	Repairs & Maintenance						
	Pickup/General Use Equipment	1	Acre	\$0.78	\$0.78	\$2,117.00	
	Irrigation Equipment	1	Acre	\$0.00	\$0.00	\$0.00	
	Tractors/Self-Propelled	1	Acre	\$8.37	\$8.37	\$22,606.58	
	Implements	1	Acre	\$1.68	\$1.68	\$4,523.43	
	Interest on Credit Line			3.75%	\$2.48	\$6,695.57	
	Total Variable Costs				\$307.80	\$831,068.10	
	Planned Returns Above Variable Costs:				\$167.06	\$451,054.98	
	Breakeven Price to Cover Variable Costs			\$0.27	Pound		
FIXED COSTS		Quantity	Units	\$/Unit	Total	Total	Enterprise
	Machinery Depreciation						
	Pickup/General Use Equipment	1	Acre	\$1.66	\$1.66	\$4,489.20	
	Irrigation Equipment	1	Acre	\$0.00	\$0.00	\$0.00	
	Tractors/Self-Propelled	1	Acre	\$14.13	\$14.13	\$38,152.62	
	Implements	1	Acre	\$2.55	\$2.55	\$6,888.15	
	Equipment Investment						
	Pickup/General Use Equipment	\$16.76	Dollars	3.75%	\$0.63	\$1,696.50	
	Irrigation Equipment	\$0.00	Dollars	3.75%	\$0.00	\$0.00	
	Tractors/Self-Propelled	\$160.51	Dollars	3.75%	\$6.02	\$16,251.83	
	Implements	\$25.63	Dollars	3.75%	\$0.96	\$2,595.27	
	Management Fee, Owner/Operator Labor	1	Acre	\$0.00	\$0.00	\$0.00	
	Allocated Establishment Cost	1	Acre	\$0.00	\$0.00	\$0.00	
	Rent-Dryland Crop	1	Acre	\$35.00	\$35.00	\$94,500.00	
	Total Fixed Costs				\$60.95	\$164,573.57	
	Total Specified Costs				\$368.76	\$995,641.67	
	Returns Above Specified Costs				\$106.10	\$286,481.41	
	Breakeven Price to Cover Total Costs			\$0.36	Pound		

Table 21. Estimated 2014 Per Acre Cost and Returns for Stacked Gene, Drip Irrigated Cotton, Far West Texas Extension District-6.

		Crop Acres	122			
						Enterprise
REVENUE		Quantity	Units	\$/Unit	Total	Total
	Cotton Lint	905.00	Pound	\$0.5303	\$479.92	\$58,550.42
	Cotton Seed	1,227.00	Pound	\$0.13	\$153.38	\$18,711.75
	Total Revenue				\$633.30	\$77,262.17
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Total
	Seed					
	Cotton Seed BIIRRF	40	Thousand	\$1.45	\$58.00	\$7,076.00
	Tech Fee Erad Zn GURM Irrig	1	Acre	\$6.00	\$6.00	\$732.00
	Fertilizer					
	Fertilizer 10-34-0	1.5	CWT	\$25.00	\$37.50	\$4,575.00
	N-32 in Water	280	Pound	\$0.21	\$58.80	\$7,173.60
	Custom					
	Custom Spray	2	Acre	\$4.00	\$8.00	\$976.00
	Gin, Bag, Tie	24	CWT	\$3.00	\$72.00	\$8,784.00
	Herbicide					
	Glyphosate	4	Pint	\$2.38	\$9.52	\$1,161.44
	Other Labor					
	Hand Labor	0.7764	Hour	\$10.00	\$7.76	\$947.21
	Other Chemicals					
	Prep	16	Ounce	\$0.44	\$7.04	\$858.88
	Def 6	1	Pint	\$8.18	\$8.18	\$997.96
	Gramoxone Inteon	20	Ounce	\$0.19	\$3.80	\$463.60
	Aim	0.25	Ounce	\$3.87	\$0.97	\$118.04
	Irrigation					
	Energy Cost	918.68	kWh	\$0.10	\$91.87	\$11,207.90
	Irrigation Labor	3.04	Hour	\$11.00	\$33.43	\$4,078.87
	Machinery Labor					
	Tractors/Self-Propelled	2.33	Hour	\$12.00	\$27.96	\$3,411.12
	Diesel Fuel					
	Tractors/Self-Propelled	14.42	Gallon	\$3.20	\$46.14	\$5,629.57
	Gasoline					
	Pickup/General Use Equipment	1	Acre	\$7.40	\$7.40	\$902.52
	Tractors/Self-Propelled	0	Gallon	\$2.30	\$0.00	\$0.00
	Repairs & Maintenance					
	Pickup/General Use Equipment	1	Acre	\$1.61	\$1.61	\$196.20
	Irrigation Equipment	1	Acre	\$36.75	\$36.75	\$4,483.16
	Tractors/Self-Propelled	1	Acre	\$22.77	\$22.77	\$2,777.80
	Implements	1	Acre	\$15.30	\$15.30	\$1,866.30
	Interest on Credit Line			\$0.07	\$10.75	\$1,311.71
	Total Variable Costs				\$571.55	\$69,728.86
	Planned Returns Above Variable Costs:				\$61.75	\$7,533.31
	Breakeven Price to Cover Variable Costs			\$0.46	Pound	
FIXED COSTS		Quantity	Units	\$/Unit	Total	Total
	Machinery Depreciation					
	Pickup/General Use Equipment	1	Acre	\$6.03	\$6.03	\$735.75
	Irrigation Equipment	1	Acre	\$129.18	\$129.18	\$15,760.53
	Tractors/Self-Propelled	1	Acre	\$27.45	\$27.45	\$3,348.66
	Implements	1	Acre	\$19.14	\$19.14	\$2,335.51
	Equipment Investment					
	Pickup/General Use Equipment	\$40.20	Dollars	6.50%	\$2.61	\$318.83
	Irrigation Equipment	\$1,937.77	Dollars	6.50%	\$125.96	\$15,366.52
	Tractors/Self-Propelled	\$353.70	Dollars	6.50%	\$22.99	\$2,804.81
	Implements	\$189.80	Dollars	6.50%	\$12.34	\$1,505.10
	Lease value - Drip	1	Acre	\$50.00	\$50.00	\$6,100.00
	Total Fixed Costs				\$395.70	\$48,275.71
	Total Specified Costs				\$967.25	\$118,004.58
	Returns Above Specified Costs				(\$333.95)	(\$40,742.41)
	Breakeven Price to Cover Total Costs			\$0.90	Pound	

Table 22. Estimated 2014 Per Acre Cost and Returns for Stacked Gene, Dryland Cotton, Far West Texas Extension District-6.

		Crop Acres	122				
							Enterprise
REVENUE		Quantity	Units	\$/Unit	Total	Total	
	Cotton Lint	227.00	Pound	\$0.49	\$112.05	\$13,669.76	
	Cotton Seed	308.00	Pound	\$0.13	\$38.50	\$4,697.00	
Total Revenue					\$150.55	\$18,366.76	
							Enterprise
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Total	
Production Costs							
Seed							
	Cotton Seed BIIRRF	30	Thousand	\$1.45	\$43.50	\$5,307.00	
	Tech Fee Erad Zn GURM Dryland	1	Acre	\$2.00	\$2.00	\$244.00	
Fertilizer							
	Fertilizer 20-10-0	1.5	CWT	\$17.90	\$26.85	\$3,275.70	
Custom							
	Custom Spray	1	Acre	\$4.00	\$4.00	\$488.00	
	Gin, Bag, Tie	7.2	CWT	\$3.00	\$21.60	\$2,635.20	
Herbicide							
	Trifluralin	2	Pint	\$3.25	\$6.50	\$793.00	
	Glyphosate	2	Pint	\$2.38	\$4.76	\$580.72	
Machinery Labor							
	Tractors/Self-Propelled	2.28	Hour	\$12.00	\$27.36	\$3,337.92	
Diesel Fuel							
	Tractors/Self-Propelled	14.5	Gallon	\$3.20	\$46.40	\$5,660.80	
Gasoline							
	Pickup/General Use Equipment	1	Acre	\$7.40	\$7.40	\$902.52	
Repairs & Maintenance							
	Pickup/General Use Equipment	1	Acre	\$1.61	\$1.61	\$196.20	
	Tractors/Self-Propelled	1	Acre	\$23.24	\$23.24	\$2,834.68	
	Implements	1	Acre	\$15.96	\$15.96	\$1,946.61	
	Interest on Credit Line			\$0.07	\$5.08	\$619.51	
Total Variable Costs					\$236.24	\$28,821.86	
Planned Returns Above Variable Costs:					-\$85.70	-\$10,455.10	
Breakeven Price to Cover Variable Costs				\$0.87	Pound		
							Enterprise
FIXED COSTS		Quantity	Units	\$/Unit	Total	Total	
Machinery Depreciation							
	Pickup/General Use Equipment	1	Acre	\$6.03	\$6.03	\$735.75	
	Tractors/Self-Propelled	1	Acre	\$27.93	\$27.93	\$3,407.43	
	Implements	1	Acre	\$19.97	\$19.97	\$2,436.58	
Equipment Investment							
	Pickup/General Use Equipment	40.20492	Dollars	\$0.07	\$2.61	\$318.83	
	Tractors/Self-Propelled	359.1355	Dollars	\$0.07	\$23.34	\$2,847.94	
	Implements	196.2417	Dollars	\$0.07	\$12.76	\$1,556.20	
	West Texas Dryland	1	Acre	\$15.00	\$15.00	\$1,830.00	
Total Fixed Costs					\$107.65	\$13,132.72	
Total Specified Costs					\$343.89	\$41,954.59	
Returns Above Specified Costs					(\$193.34)	(\$23,587.83)	
Breakeven Price to Cover Total Costs				\$1.35	Pound		

Table 23. Sensitivity of Cotton Root Rot Return to Treatment to Changes in Yield Potential and Percent of Field Affected by Cotton Root Rot.



Cost of Topguard (flutriafol) (\$/Gal)	\$200.00
Intended Application Rate (Oz./ac)	24.0
Cotton Price (\$/lb of Lint)	\$0.51
Seed Price (\$/ton)	\$250.00
Strip/Pick Cost (\$/lb of Lint)	\$0.09
Cost to Bag and Tie Lint (\$/Bale)	\$12.00
Cost to Gin and Haul (\$/cwt)	\$2.50
Nitrogen Fertilizer (\$/lb of N)	\$0.00
Yield Response to Treatment	85%
Expected Yield without Root rot	685

\$ 39.26 Treatment Cost (\$/Ac)

Treatment costs includes cost of chemical, hauling water to field for planting and the amortization of planter modifications.

Sensitivity of Return to Treatment to Changes in Yield Potential and Percent of Field Affected by Root Rot.

		Expected Cotton Lint Yield (Lbs/Ac) without Root Rot						
		235	385	535	685	835	985	1135
Percent Affected by Root Rot	5%	(\$34.40)	(\$31.30)	(\$28.20)	(\$25.10)	(\$22.00)	(\$18.89)	(\$15.79)
	10%	(\$29.54)	(\$23.34)	(\$17.14)	(\$10.93)	(\$4.73)	\$1.47	\$7.67
	15%	(\$24.68)	(\$15.38)	(\$6.08)	\$3.23	\$12.53	\$21.84	\$31.14
	20%	(\$19.83)	(\$7.42)	\$4.99	\$17.39	\$29.80	\$42.20	\$54.61
	25%	(\$14.97)	\$0.54	\$16.05	\$31.55	\$47.06	\$62.57	\$78.07
	30%	(\$10.11)	\$8.50	\$27.11	\$45.72	\$64.32	\$82.93	\$101.54
	35%	(\$5.25)	\$16.46	\$38.17	\$59.88	\$81.59	\$103.30	\$125.01





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

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