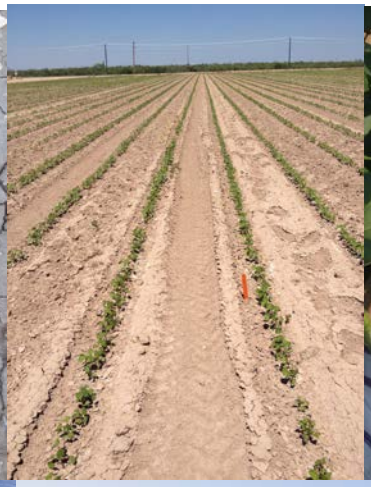
COTTON VARIETY AND AGRONOMY TRIALS

THE SOUTHERN ROLLING PLAINS AND PERMIAN BASIN OF TEXAS – 2015


http://cotton.tamu.edu/

http://sanangelo.tamu.edu/agronomy

COTTON VARIETY AND AGRONOMY TRIALS

THE SOUTHERN ROLLING PLAINS AND PERMIAN BASIN OF TEXAS - 2015

Dr. David Drake[1], Asst. Professor and Extension Agronomist
Brad Easterling[4], Extension Agent-IPM
Bill Thompson[3], Asst. Professor and Extension Economist
Joshua Blanek[3], County Extension Agent
Garett Cline[2], Extension Agent-IPM
Rebel Royall[4], County Extension Agent
Chase McPhaul[11], County Extension Agent
Raymond Quigg[5], County Extension Agent
Tommy Yeater[6], County Extension Agent
Parks Tucker[7], County Extension Agent
Steve Estes[8], County Extension Agent
Justin McGriff[9], County Extension Agent
Zach Wilcox[10], County Extension Agent

Texas A&M AgriLife Extension Service
[1]Department of Soil and Crop Sciences – San Angelo
(325) 653-4576 ext 230
drdrake@ag.tamu.edu
[2]Ballinger, [3]San Angelo, [4]Garden City, [5]Rankin, [6]Big Spring, [7]Stanton, [8]Anson, [9]Roby, [10]Sweetwater, and [11]Big Lake, Texas

List of Figures and Tables

ACKNOWLEDGMENTS

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, 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.

2015 HIGHLIGHTS

The 2015 cotton growing season started off as "the best cotton crop ever" with abundant soil moisture from fall and winter precipitation. Many locations continued to experience spring rains which delayed plantings. Very little to no precipitation was received in the months of July and August which stalled plant growth, fruit retention, and boll growth. The fall was warm with scattered showers but they were too late to benefit yield as plants had already reached cut out and had been hardened from lack of moisture. Harvest began 1-2 weeks ahead of schedule. Most yields, including irrigated yields; were average or below. Insect pest pressure was low. Weed control was a challenge in some places during early season weed flushes, unfavorable spraying conditions, and expansion of glyphosate resistant Amaranth spp. created difficulties. Transgenic varieties with herbicide tolerance to glyphosate, glufosinate, and dicamba (ExtendFlex) were available for planting, but the use of dicamba on these crops was not yet approved. 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.

Texas producers planted approximately 4.8 million acres in 2015, down from 6.2 million acres in 2014. According to the USDA-Agricultural Marketing Service "Cotton Varieties Planted 2015 Crop" survey for the Abilene Classing Office, the most popular varieties planted in the region were: Deltapine 1219 B2RF–19.51%, Deltapine 1044 B2RF-10.54%, FiberMax 1944 GLB2–10.31%, Stoneville 4946 GLB2–7.21%, Stoneville 4747 GLB2–5.84%., Dyna-Gro 2570 B2RF-4.53%, Phytogen 499 WRF–3.51%, FiberMax 2484 B2F-3.11%, NexGen 1511 B2RF–2.38%, and FiberMax 2334 GLT–2.29%. The full report of varieties planted can be found at https://www.ams.usda.gov/mnreports/cnavar.pdf.

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 52 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 variety demonstrations, a small plot replicated variety and seed treatment research, and a large plot replicated planting rate research trial were planted in 2015. One variety demonstration trial in Martin County was lost due to hail and a dryland variety trial in Jones County was prevented due to wet weather conditions. Harvested trials are summarized by location in Table 1 and pin pointed to county on Figure 2.

All the cottonseed companies with RoundupFlex®, Glytol®, or ExtendFlex® and Twinlink® Bollguard II® 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 7-14 are the cotton variety descriptions provided by the seed companies. Trials were initiated in producers' fields and were managed by the producer including pest and nutrient management. County agents facilitated many of these trials, and production information is provided as available.

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 on gross revenue and lint yield for the variety trials across all locations separated into Extension District. The ranking tables attempt to facilitate a comparison of varieties across all trials; However, the comparison is made more difficult due to the lack of every variety being present in all trials and differences in production at all locations. These tables and many of the individual location yield tables provide a summary of performance from previous years to facilitate multi-year

comparisons. Trial information from previous years can be found at http://sanangelo.tamu.edu/agronomy/variety-trials. Table 4 summarizes agronomic characteristics for the 52 varieties and experimental varieties tested in the San Angelo Uniform Irrigated Small Plot Variety Trial. Experimental varieties for 2015 were received from All-Tex and Dyna-Gro (ATX and CT), Bayer Crop Science (BX), and Phytogen (PX). Variety trials were planted in the following Extension District 7 Counties: Nolan (Table 9), Fisher (Table 8), Runnels (Table 7), and Tom Green (Tables 4- 6, 18, & 19). Variety trials were planted in the following Extension District 6 Counties: Glasscock (Tables 10, 14, & 15), Reagan (Tables 11 & 12), and Howard (Tables 13, 16, & 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 provide a more robust comparison and can help separate a variety's performance from differences in the soil, fertility, irrigation, etc. Since varieties change rapidly and trials are time consuming as well as 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 reduce 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 the 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 20 through 23).

Root Rot Control

Table 24 presents a sensitivity analysis of the return to treatment for use of Flutriafol to control cotton root rot (CRR). For example: in the given table, 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 CRR. If yield expectation were only 385lbs per acre, 25% or more of the field would need to be affected by CRR for return to treatment to be positive. The decision aid was updated in 2015 as there were two formulations of Flutriafol available to cotton producers, Topguard and Topguard Terra. 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 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 lease 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

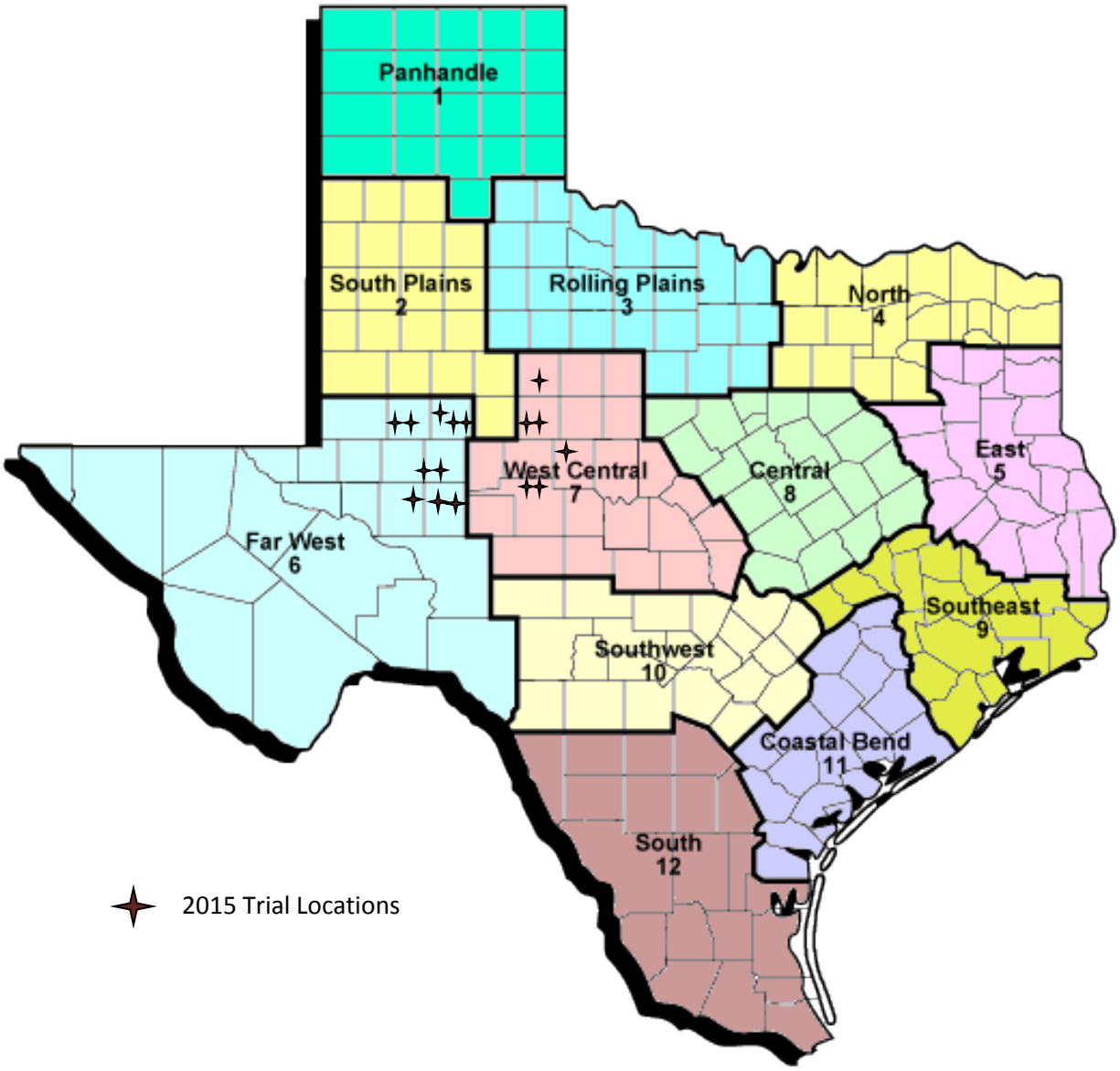


Figure 2. Texas A&M AgriLife Extension Districts with marked cotton variety trial locations by County.

VARIETY CHARACTERISTICS/HIGHLIGHTS

Below are the cotton variety characteristics and highlights that were included in the 2015 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.

All-Tex Concho B2XF (CT 15425)
- Mid-early to middle maturity variety
- Smooth leaf
- Excellent storm tolerance
- Very good *Verticillium* wilt tolerance

All-Tex Epic RF
- Medium maturity variety
- Medium-tall plant height
- Smooth leaf
- Suited for irrigated and dryland conditions

All-Tex Nitro 44 B2RF
- 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

All-Tex Zeus B2XF (CT 15994)- No information found at this time

Croplan Genetics 3787 B2RF
- Mid maturity variety
- Very good storm tolerance
- Excellent seedling vigor and early season emergence
- Adapted for dryland but produces good under irrigated conditions

Croplan 3885 B2XF
- Late mid-maturity variety
- Strong performance in dry and irrigated soil, particularly by Texas' Gulf Coast
- Requires aggressive PGR management in high fertility soils

CT 15143 B2XF
- Early-mid maturity variety
- Semi-smooth leaf

CT 15445 B2RF- No information found at this time

CT 15704 RF (ATX 12WSRF-770-A1RF)- No information found at this time

CT 15994 B2XF

- Mid-early maturity variety
- Semi smooth leaf

DeltaPine 348 RF PIMA

- Mid-full maturity variety
- Hairy leaf
- Excellent tolerance to Fusarium Race

DeltaPine 358 RF PIMA

- Mid-full maturity variety
- Medium-tall plant height
- Hairy leaf
- Good storm resistance
- Excellent yield and quality combination
- Excellent tolerance to Fusarium Race 4

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 high yield potential
- Very good *Verticillium* and Bacterial Blight resistance

DeltaPine 1212 B2RF

- Early maturity variety
- Medium-short plant height
- Light hairy leaf
- Excellent seedling vigor

DeltaPine 1219 B2RF

- Early-mid 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

DeltaPine 1522 B2XF

- Early-mid maturity variety
- Medium-tall height
- Semi-smooth leaf
- Good storm tolerance

DeltaPine 1549 B2XF

- Full maturity variety
- Tall height
- Semi-smooth leaf

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

Dyna-Gro 2615 B2RF (CT 14515)

- Mid maturity variety
- Semi-smooth leaf
- Works best in Texas
- High yield and quality
- Very good *Verticillium* wilt and bacterial blight tolerance

Dyna-Gro 3385 B2XF

- Early-mid maturity variety
- Semi- smooth leaf
- Very good storm resistance
- Early season vigor
- Best performance on sand to silt loam for dryland or irrigated
- Can manage early with growth regulation

Dyna-Gro 3544 B2XF (CT 15444)

- Mid-early maturity variety
- Smooth leaf
- Excellent storm tolerance
- Very good *Verticillium* wilt tolerance

Dyna-Gro 3635 B2XF (CT 15535)

- Mid-full maturity variety
- Smooth leaf
- May be necessary to increase PGR applications under high irrigation or strong growing conditions

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 1900 GLT (BX 1538)

- Early-medium maturity
- Medium plant height
- Normal to semi-smooth leaf
- Excellent yield and fiber quality
- Excellent storm tolerance
  GlyTol® + LibertyLink® and TwinLink® technology

FiberMax 1911 GLT (BX 1635)

- Excellent early season vigor
- High gin turnout
- Very good root-knot nematode and *Verticillium* wilt tolerance
- Good bacterial blight resistance
- Adapted to High Plains of the Southwest
- High yield potential
- Tolerant to Liberty and glyphosate herbicide

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 2007 GLT (BX 1539)

- Early-medium maturity variety
- Medium plant height
- Normal to semi-smooth leaf
- Good storm resistance
  GlyTol® + LibertyLink® and TwinLink® 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 3405 B2XF

- Early-mid maturity variety
- Medium plant height
- Semi-smooth leaf
- Excellent seedling vigor
- Good storm resistance

NexGen 3406 B2XF

- Early-mid maturity variety
- Medium plant height
- Semi-smooth leaf
- Very good seedling vigor
- Good storm resistance

NexGen 5007 B2XF

- Mid-full maturity variety
- Tall plant height
- Smooth leaf
- Very good seedling vigor
- Good storm resistance

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 312 WRF

- Early maturity variety
- Medium plant height
- Hairy 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 444 WRF

- Mid maturity variety
- Medium plant height
- Smooth leaf
- Excellent seedling vigor
- Exceptional fiber quality
- Long staple strength
- High yield potential

Phytogen 495 W3RF

- Mid maturity variety
- Tall plant height
- Semi-smooth leaf
- Excellent seedling vigor
- Superior yield potential
- Features WideStrike® 3

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.

Phytogen 805 RF

- Mid maturity variety
- Medium-tall plant height
- Semi-hairy leaf
- Excellent seedling vigor

Phytogen 811 RF

- Early maturity variety
- Medium-tall plant height
- Semi-hairy leaf
- Excellent seedling vigor

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 5115 GLT (BX 1534)

- Early-mid maturity variety
- Excellent seedling vigor
- Medium-tall plant height
- Normal-smoot leaf
- Moderate storm resistance
- GlyTol® + LibertyLink® and TwinLink® technology

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, cooperator, planting date, harvest date, row spacing, plot dimensions, and area of **2015** 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, 2015	December 5 & 8, 2015	40" centers, 4 rows x 36 ft. long, 4 replications, Every Row	Irrigated
Kim Alexander	Nolan	Hand sampled and cleaned from 13.1 ft of row at 1 location, Unreplicated strips			Irrigated
Doug and Matt Wilde	Tom Green	May 27, 2015	November 4, 2015	40" centers, 16 rows	Irrigated
Todd Coker	Fisher	June 12, 2015	December 3, 2015	Hand sampled from 13.1 ft of row at 2 locations in unreplicated strips	Dryland
Paul Minzenmayer	Runnels	June 8, 2015	October 13, 2015	36" centers, 8 row plots (rows were approximately 1000 ft. long), Every Row	Dryland

B. Trial, cooperator, planting date, harvest date, row spacing, plot dimensions, and area of **2015** Texas A&M AgriLife Extension **District 6** variety trials.

Cooperator	Location	Planting Date	Harvest Date	Plot Dimensions	Field Type
Allen/Michael Fuchs	Glasscock	June 3, 2015	October 20, 2015	6 rows, 2 x 1, 1042 ft, Strip Trial	Irrigated
Russell Halfmann	Glasscock	May 27, 2015	October 14, 2015	12 rows, 2 x 1, 1155 ft, Strip Trial	Dryland
Jerry Hoelscher	Glasscock	June 12, 2015	November 11, 2015	6 rows, 2x1 1 sd-7", 1114 ft, Strip Trial	Dryland
Phillip Bales	Reagan	June 3, 2015	November 11, 2015	6 rows, solid, 1850 ft, Strip Trial	Irrigated
Gary Halfmann	Reagan	June 8, 2015	October 12, 2015	8-1, 1.7 sd/ft, 1600 ft., Strip Trial	Irrigated
Marty Brooks	Howard	May 20, 2015	October 19, 2015	16 rows, 400 ft, Unreplicated strips	Irrigated
Mike Moates	Howard	June 5, 2015	October 20, 2015	16 rows, 36" spacing, 605 ft, Unreplicated strips	Dryland
Marty Brooks	Howard	June 6, 2015	November 23, 2015	8 rows, 25,021 ft, 4 replications per seeding rate, 6", 8", 10", & 12" spacing	Dryland

Table 2.

A. **2015** Variety ranking based on lint value/acre by trial location in **Extension District 7.**

Extension District	D7	D7	D7		D7	D7	D7	2015		2014		2013	
County (Cooperator)	Coker	Minzenmayer	Block		Block (PIMA)	Alexander	Wilde	Average	Number	Average	Number	Average	Number
Ave. Gross Revenue	$242.16	$343.68	$658.58		$353.98	$374.93	$1,134.97	$518.05	of trials	$862.50	of trials	$636.90	of trials
Number of entries	10	25	48		4	9	20	19	entered	18	entered	15	entered
Variety (alphabetically)				Ranking Group				Rank		Rank		Rank	
ATX 12 WSRF-770-G11 RF			3	3				3	1	n.t.	n.t.	n.t.	n.t.
ATX CONCHO B2XF (CT 15425)			4	4				4	1	n.t.	n.t.	n.t.	n.t.
ATX EPIC RF			7	5				5	1	10	2	12	1
ATX NITRO 44 B2RF			40	21				21	1	7	1	n.t.	n.t.
ATX ZEUS B2XF(CT 15994)			46	25				25	1	n.t.	n.t.	n.t.	n.t.
BX 1532 GLT		18	28	15				17	2	n.t.	n.t.	n.t.	n.t.
BX 1636 GLT		9	30	15				12	2	n.t.	n.t.	n.t.	n.t.
BX 1637 GLT		4	16	10				7	2	n.t.	n.t.	n.t.	n.t.
CSCG 3885 B2XF			33	18				18	1	n.t.	n.t.	n.t.	n.t.
CT 15143 B2XF			47	25				25	1	n.t.	n.t.	n.t.	n.t.
CT 15445 B2RF			9	7				7	1	n.t.	n.t.	n.t.	n.t.
CT 15704 RF (770-A1)			13	8				8	1	8	1	n.t.	n.t.
DG 2570 B2RF							12	12	1	6	3	8	3
DG 2615 B2RF (CT 14515)			18	11				11	1	n.t.	n.t.	n.t.	n.t.
DG 3385 B2XF			27	14				14	1	n.t.	n.t.	n.t.	n.t.
DG 3544 B2XF (CT 15444)			2	2				2	1	n.t.	n.t.	n.t.	n.t.
DG 3635 B2XF (CT 15535)		22	45	24			9	18	3	n.t.	n.t.	n.t.	n.t.
DP 1044 B2RF			22	13				13	1	9	3	8	7
DP 1219 B2RF		12	10	8			5	8	3	7	4	4	5
DP 1321 B2RF			37	20				20	1	10	6	7	6
DP 1359 B2RF		15	42	22			6	14	3	7	6	2	6
DP 1522 B2XF		10	19	12			4	9	3	n.t.	n.t.	n.t.	n.t.
DP 1549 B2XF		17	11	8			1	9	3	n.t.	n.t.	n.t.	n.t.
DP 348 RF PIMA					2			2	1	n.t.	n.t.	n.t.	n.t.
DP 358 RF PIMA					1			1	1	n.t.	n.t.	n.t.	n.t.
FM 1830 GLT		8	1	1		5	19	8	4	7	9	n.t.	n.t.
FM 1900 GLT (BX 1538)	6	21	48	26		8	16	15	5	12	1	n.t.	n.t.
FM 1911 GLT (BX 1635)			26	14				14	1	n.t.	n.t.	n.t.	n.t.
FM 1944 GLB2		7	12	8		1		5	3	7	7	9	7
FM 2007 GLT (BX 1539)	3	3	17	11			20	9	4	9	1	n.t.	n.t.
FM 2334 GLT	2	11	29	15			17	11	4	7	9	n.t.	n.t.
FM 2484 B2F		23					18	21	2	9	4	9	7
FM 9180 B2F			14	9				9	1	17	1	n.t.	n.t.
NG 1511 B2RF	7	16	31	16		6	11	11	5	11	9	5	6
NG 3405 B2XF			38	21				21	1	n.t.	n.t.	n.t.	n.t.
NG 3406 B2XF		2	15	9			13	8	3	n.t.	n.t.	n.t.	n.t.
NG 5007 B2XF			32	17			8	13	2	n.t.	n.t.	n.t.	n.t.
NG 5315 B2RF	5	13	6	4				7	3	11	7	10	5
PHY 222 WRF			44	23				23	1	13	1	n.t.	n.t.
PHY 312 WRF			35	19				19	1	n.t.	n.t.	n.t.	n.t.
PHY 333 WRF	9	1	5	4		4	3	4	5	6	6	3	1
PHY 339 WRF	4	5	24	14		9	15	9	5	13	7	4	1
PHY 444 WRF			20	13		3	10	9	3	n.t.	n.t.	n.t.	n.t.
PHY 495 WRF		24	23	13				19	2	8	3	n.t.	n.t.
PHY 499 WRF	1		21	13			14	9	3	5	9	7	7
PHY 805 RF PIMA					3			3	1	n.t.	n.t.	n.t.	n.t.
PHY 811 RF PIMA					4			4	1	n.t.	n.t.	n.t.	n.t.
PX 2037-18 WRF			25	14				14	1	n.t.	n.t.	n.t.	n.t.
PX 2045-11 WRF			39	21				21	1	n.t.	n.t.	n.t.	n.t.
PX 2048-04 WRF			34	18				18	1	n.t.	n.t.	n.t.	n.t.
ST 4747 GLB2	10	14	43	22		7	7	12	5	7	9	n.t.	n.t.
ST 4747 GLB2-FL		25	8	6				16	2	n.t.	n.t.	n.t.	n.t.
ST 4946 GLB2	8	6	36	20		2	2	8	5	4	9	9	7
ST 5115 GLT (BX 1534)		20	41	22				21	2	5	1	n.t.	n.t.
ST 6182 GLT		19						19	1	n.t.	n.t.	n.t.	n.t.

Fluopyram (FL) Seed Treatment = Fluopyram (0.25 mg ai/seed) + Gaucho (0.375 mg ai/seed)

n.t. = variety not tested that year

Ranking Group- Varieties were grouped by yield level to standardize rank across trials

B. **2015** Variety ranking based on lint value/acre by trial location in **Extension District 6.**

Extension District	D6	D6	D6	D6	D6	2015		2014		2013	
County (Cooperator)	Bales	Fuchs	G. Halfmann	Hoelscher	R. Halfmann	Average	Number	Average	Number	Average	Number
Ave. Gross Revenue	$396.40	$669.80	$126.45	$264.45	$197.02	$330.82	of trials	$452.39	of trials	$881.49	of trials
Number of entries	17	14	15	11	19	15	entered	15	entered	12	entered
Variety (alphabetically)						Rank		Rank		Rank	
DG 3635 B2XF (CT 15535)					10	10	1	n.t.	n.t.	n.t.	n.t.
DG 2355 B2RF	17			7		12	2	n.t.	n.t.	n.t.	n.t.
DG 2570 B2RF	15		6	3	9	8	4	11	3	4	3
DG 3635 B2XF	12		10			11	2	n.t.	n.t.	n.t.	n.t.
DP 1219 B2RF		6		2	7	5	3	3	5	6	4
DP 1522 B2XF		11		9	19	13	3	n.t.	n.t.	n.t.	n.t.
DP 1549 B2XF		12	9		5	9	3	n.t.	n.t.	n.t.	n.t.
FM 1830 GLT					13	13	1	9	5	n.t.	n.t.
FM 1900 GLT	14	10	7	10	15	11	5	n.t.	n.t.	n.t.	n.t.
FM 2007 GLT	5	1	2	8	6	4	5	n.t.	n.t.	n.t.	n.t.
FM 2334 GLT	2	3	1			2	3	12	3	n.t.	n.t.
FM 2484 B2F	7	4			8	6	3	8	5	5	5
NG 1511 B2RF	9					9	1	11	5	6	1
NG 3306 B2RF	10			11		11	2	10	3	n.t.	n.t.
NG 3406 B2XF	4		3	1	14	6	4	n.t.	n.t.	n.t.	n.t.
NG 4111 RF	3					3	1	9	1	3	1
NG 5007 B2XF	13		15		4	11	3	n.t.	n.t.	n.t.	n.t.
NG 5315 B2RF	16		11		18	15	3	3	4	9	1
PHY 222 WRF				4		4	1	n.t.	n.t.	n.t.	n.t.
PHY 333 WRF	6	7	8	5	12	8	5	5	2	n.t.	n.t.
PHY 339 WRF	11	9	14		16	13	4	9	2	10	4
PHY 444 WRF		2			2	2	2	n.t.	n.t.	n.t.	n.t.
PHY 495 W3RF		8	4		3	5	3	n.t.	n.t.	n.t.	n.t.
PHY 499 WRF		13	5		1	6	3	9	3	4	5
ST 4747 GLB2	8	14	12	6	17	11	5	7	3	n.t.	n.t.
ST 4946 GLB2	1	5	13		11	8	4	8	4	3	6
n.t. = variety not tested that year											

Table 3.

A. **2015** Variety ranking based on lint yield by location in **Extension District 7**.

Extension District	D7	D7	D7		D7	D7	D7	2015		2014		2013	
County (Cooperator)	Coker	Minzenmayer	Block		Block (PIMA)	Alexander	Wilde	Average	Number	Average	Number	Average	Number
Ave. Trial Yield (lbs/ac)	365	487	913		518	538	1592	736	of trials	1180	of trials	882	of trials
Number of entries	10	25	48		4	9	20	19	entered	18	entered	13	entered
Variety (alphabetically)				Ranking Group				Rank		Rank		Rank	
ATX 12 WSRF-770-G11 RF			2	1				1	1	10	1	n.t.	n.t.
ATX CONCHO B2XF (CT 15425)			10	5				5	1	n.t.	n.t.	n.t.	n.t.
ATX EPIC RF			13	6				6	1	13	2	8	1
ATX NITRO 44 B2RF			42	19				19	1	10	1	20	1
ATX ZEUS B2XF (CT 15994)			46	22				22	1	n.t.	n.t.	n.t.	n.t.
BX 1532 GLT		10	23	10				10	2	n.t.	n.t.	n.t.	n.t.
BX 1636 GLT		5	26	11				8	2	n.t.	n.t.	n.t.	n.t.
BX 1637 GLT		9	11	6				8	2	n.t.	n.t.	n.t.	n.t.
CSCG 3885 B2XF			29	12				12	1	n.t.	n.t.	n.t.	n.t.
CT 15143 B2XF			47	22				22	1	n.t.	n.t.	n.t.	n.t.
CT 15445 B2RF			8	4				4	1	n.t.	n.t.	n.t.	n.t.
CT 15704 RF (770-A1)			5	3				3	1	6	1	n.t.	n.t.
DG 2570 B2RF							8	8	1	11	3	10	3
DG 2615 B2RF (CT 14515)			15	8				8	1	n.t.	n.t.	n.t.	n.t.
DG 3385 B2XF			31	13				13	1	n.t.	n.t.	n.t.	n.t.
DG 3544 B2XF (CT 15444)			3	2				2	1	n.t.	n.t.	n.t.	n.t.
DG 3635 B2XF (CT 15535)		20	45	21			12	18	3	n.t.	n.t.	n.t.	n.t.
DP 1044 B2RF			24	10				10	1	10	3	9	5
DP 1219 B2RF		15	7	3			6	8	3	8	4	4	5
DP 1321 B2RF			38	17				17	1	7	5	4	6
DP 1359 B2RF		21	40	18			10	16	3	9	6	3	5
DP 1522 B2XF		11	17	9			2	7	3	n.t.	n.t.	n.t.	n.t.
DP 1549 B2XF		16	9	4			1	7	3	n.t.	n.t.	n.t.	n.t.
DP 348 RF PIMA					1			1	1	n.t.	n.t.	n.t.	n.t.
DP 358 RF PIMA					2			2	1	n.t.	n.t.	n.t.	n.t.
FM 1830 GLT		6	1	1		4	19	8	4	7	9	n.t.	n.t.
FM 1900 GLT (BX 1538)	6	22	48	23		8	16	15	5	16	1	n.t.	n.t.
FM 1911 GLT (BX 1635)			33	14				14	1	n.t.	n.t.	n.t.	n.t.
FM 1944 GLB2		14	16	9		1		8	3	9	7	10	7
FM 2007 GLT (BX 1539)	3	3	18	10			20	9	4	14	1	n.t.	n.t.
FM 2334 GLT	2	18	32	13			17	13	4	7	9	n.t.	n.t.
FM 2484 B2F		23					18	21	2	11	4	8	7
FM 9180 B2F			21	10				10	1	22	1	9	1
NG 1511 B2RF	7	13	25	10		6	11	9	5	11	9	6	6
NG 3405 B2XF			34	14				14	1	n.t.	n.t.	n.t.	n.t.
NG 3406 B2XF		1	12	6			5	4	3	n.t.	n.t.	n.t.	n.t.
NG 5007 B2XF			22	10			7	9	2	n.t.	n.t.	n.t.	n.t.
NG 5315 B2RF	5	8	4	3				5	3	12	7	10	4
PHY 222 WRF			44	21				21	1	19	1	n.t.	n.t.
PHY 312 WRF			36	16				16	1	n.t.	n.t.	n.t.	n.t.
PHY 333 WRF	9	2	14	7		5	4	5	5	6	6	3	2
PHY 339 WRF	4	4	28	11		9	15	9	5	14	7	7	3
PHY 444 WRF			30	13		3	13	10	3	n.t.	n.t.	n.t.	n.t.
PHY 495 WRF		24	27	11				18	2	6	3	n.t.	n.t.
PHY 499 WRF	1		20	10			14	8	3	4	9	6	5
PHY 805 RF PIMA					3			3	1	n.t.	n.t.	n.t.	n.t.
PHY 811 RF PIMA					4			4	1	n.t.	n.t.	n.t.	n.t.
PX 2037-18 WRF			19	10				10	1	n.t.	n.t.	n.t.	n.t.
PX 2045-11 WRF			43	20				20	1	n.t.	n.t.	n.t.	n.t.
PX 2048-04 WRF			37	16				16	1	n.t.	n.t.	n.t.	n.t.
ST 4747 GLB2	10	19	41	18		7	9	13	5	7	9	n.t.	n.t.
ST 4747 GLB2-FL		25	6	3				14	2	n.t.	n.t.	n.t.	n.t.
ST 4946 GLB2	8	7	35	15		2	3	7	5	4	9	9	5
ST 5115 GLT (BX 1534)		17	39	17				17	2	7	1	n.t.	n.t.
ST 6182 GLT		12						12	1	n.t.	n.t.	n.t.	n.t.

Fluopyram (FL) Seed Treatment = Fluopyram (0.25 mg ai/seed) + Gaucho (0.375 mg ai/seed)

n.t. = variety not tested that year

Ranking Group- Varieties were grouped by yield level to standardize rank across trials

B. **2015** Variety ranking based on lint yield by location in **Extension District 6**.

Extension District	D6	D6	D6	D6	D6	2015		2014		2013	
County (Cooperator)	Bales	Fuchs	G. Halfmann	Hoelscher	R. Halfmann	Average	Number	Average	Number	Average	Number
Ave. Trial Yield (lbs/ac)	644	1044	209	409	318	525	of trials	634	of trials	1169	of trials
Number of entries	17	14	15	11	19	15	entered	16	entered	13	entered
Variety (alphabetically)						Rank		Rank		Rank	
DG 3635 B2XF (CT 15535)					8	8	1	n.t.	n.t.	n.t.	n.t.
DG 2355 B2RF	10			7		9	2	n.t.	n.t.	n.t.	n.t.
DG 2570 B2RF	16		6	4	7	8	4	11	3	3	3
DG 3635 B2XF	9		10			10	2	n.t.	n.t.	n.t.	n.t.
DP 1219 B2RF		10		2	10	7	3	3	5	6	4
DP 1522 B2XF		8		8	18	11	3	n.t.	n.t.	n.t.	n.t.
DP 1549 B2XF		12	9		6	9	3	n.t.	n.t.	n.t.	n.t.
FM 1830 GLT					15	15	1	10	5	n.t.	n.t.
FM 1900 GLT	15	13	8	10	16	12	5	n.t.	n.t.	n.t.	n.t.
FM 2007 GLT	7	5	5	9	3	6	5	n.t.	n.t.	n.t.	n.t.
FM 2334 GLT	1	6	3			3	3	13	4	n.t.	n.t.
FM 2484 B2F	11	9			11	10	3	8	4	6	5
NG 1511 B2RF	12					12	1	9	5	6	1
NG 3306 B2RF	13			11		12	2	11	3	n.t.	n.t.
NG 3406 B2XF	4		1	1	13	5	4	n.t.	n.t.	n.t.	n.t.
NG 4111 RF	5					5	1	10	1	2	1
NG 5007 B2XF	8		15		4	9	3	n.t.	n.t.	n.t.	n.t.
NG 5315 B2RF	17		11		19	16	3	2	4	1	1
PHY 222 WRF				5		5	1	n.t.	n.t.	n.t.	n.t.
PHY 333 WRF	3	4	7	3	12	6	5	6	2	n.t.	n.t.
PHY 339 WRF	14	11	14		17	14	4	9	2	n.t.	n.t.
PHY 444 WRF		3			5	4	2	n.t.	n.t.	n.t.	n.t.
PHY 495 W3RF		2	2		2	2	3	n.t.	n.t.	n.t.	n.t.
PHY 499 WRF		7	4		1	4	3	9	3	4	5
ST 4747 GLB2	6	14	12	6	14	10	5	7	3	n.t.	n.t.
ST 4946 GLB2	2	1	13		9	6	4	9	4	2	6
n.t. = variety not tested that year											

Table 4. Summary of agronomic characteristics for the 52 varieties and experimental varieties tested in the 2015 San Angelo Uniform Irrigated Small Plot Variety Trial (M. Block, cooperator).

2015 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial						1= poor 10= excellent					1= poor 10= excellent			
	Population	Seedling	Plant	1st F	Total	NAWF on	Stay Green			NACB on	%Open Boll	Storm	25 ct	100 Fuzzy
Variety	w/o Pima	Vigor	Height	Branch	Nodes	Nov. 13	rating Oct 20	Bolls/ plant	Bolls/ ft	Oct. 1	Nov. 13	Resistance	Boll Weight	Seed Weight
12 WSRF-770-G11 RF	45255	5.5	33.6	7.4			7.8	7.1	24.0	10.7	96.0	7	4.22	7.8
ATX CONCHO B2XF (CT 15425)	45896	7.3	32.7	5.6			7.5	5.6	17.6	7.9	100.0	8	4.81	9.25
ATX EPIC RF	36223	5.8	33.7	7.9			7.0	7.9	19.5	8.9	100.0	8	4.38	8.16
ATX NITRO 44 B2RF	45840	6.5	30.9	6.7			7.0	4.1	16.4	8.1	100.0	6	4.17	9.05
ATX ZEUS B2XF(CT 15994)	37813	6.0	36.0	7.8			6.5	6.5	21.2	10.1	100.0	6	4.13	8.69
BX 1532 GLT	47976	6.8	33.1	7.3			5.5	7.5	20.5	9.3	100.0	6	3.95	7.57
BX 1636 GLT	46848	6.5	31.5	5.2			5.0	5.3	20.1	9.4	100.0	9	4.67	9.93
BX 1637 GLT	47941	7.5	33.7	6.2			5.0	5.5	23.8	8.8	100.0	9	4.87	9.93
CSCG 3885 B2XF	46727	6.3	35.4	7.0			6.5	8.8	24.5	8.1	100.0	7	3.96	7.57
CT 15143 B2XF	41542	6.3	36.1	8.5			6.8	4.2	17.0	8.0	97.7	5	3.85	8.21
CT 15445 B2RF	38250	6.5	32.8	7.0			6.5	7.2	18.9	9.7	100.0	7	4.09	8.98
CT 15704 RF (770-A1)	35945	5.8	32.0	7.8			7.5	10.4	23.3	10.1	99.3	7	4.15	7.44
DG 2615 B2RF (CT 14515)	46714	7.0	32.4	7.9			5.8	4.6	16.3	9.2	95.7	7	4.72	8.37
DG 3385 B2XF	48904	5.8	34.1	7.3			5.8	6.1	22.3	7.8	99.3	7	3.69	7.77
DG 3544 B2XF (CT 15444)	54965	5.8	35.8	5.8			6.5	6.1	21.2	9.7	100.0	8	4.83	9.65
DG 3635 B2XF (CT 15535)	44149	6.3	36.0	7.4			6.5	6.2	21.1	9.8	98.5	7	3.56	7.18
DP 1044 B2RF	48031	5.8	34.4	7.7			7.0	7.6	27.3	5.7	96.3	7	3.90	7.61
DP 1219 B2RF	48208	7.0	37.6	8.1			7.5	6.4	27.1	10.7	100.0	6	3.63	7.31
DP 1321 B2RF	50652	6.3	32.2	7.1			5.3	6.0	25.6	8.8	100.0	6	4.00	8.18
DP 1359 B2RF	46565	6.0	35.0	7.5	17.0	0.1	6.5	7.5	24.7	9.9	98.5	6	3.73	7.12
DP 1522 B2XF	41133	7.3	37.2	6.5			6.3	10.5	40.4	9.3	98.7	6	3.87	8.07
DP 1549 B2XF	52055	6.8	34.5	6.7			4.8	9.9	20.6	9.2	100.0	7	4.26	8.34
DP 348 RF PIMA	41632	6.8	33.6	8.1			7.8	7.9	19.5	0.0	100.0	6	2.86	10.01
DP 358 RF PIMA	36747	5.5	32.2	8.8			8.0	7.1	23.4	2.6	98.7	4	3.11	9.17
FM 1830 GLT	51144	5.5	30.9	6.3	17.3	0.0	4.0	7.6	28.9	9.3	100.0	7	4.17	8.19
FM 1900 GLT (BX 1538)	41864	6.5	30.3	7.8			5.3	7.1	21.7	8.8	98.5	8	4.01	8.13
FM 1911 GLT (BX 1635)	38632	7.3	28.2	6.6			6.0	5.5	17.1	8.5	100.0	9	5.30	10.1
FM 1944 GLB2	46960	5.5	35.3	7.9			5.8	6.2	25.7	9.3	100.0	7	3.73	8.74
FM 2007 GLT (BX 1539)	50342	6.3	30.5	7.5			6.3	5.5	18.8	9.7	96.7	8	4.44	8.74
FM 2334 GLT	45335	6.3	33.2	6.8			7.0	6.1	28.4	8.2	100.0	7	3.79	7.47

Variety	Population w/o Pima	Seedling Vigor	Height	1st F Branch	Total Nodes	NAWF on Nov. 13	Stay Green rating Oct 20	Bolls/ plant	Bolls/ ft	NACB on Oct. 1	%Open Boll Nov. 13	Storm Resistance	25 ct Boll Weight	100 Fuzzy Seed Weight
FM 9180 B2F	37803	5.5	31.3	7.7			5.8	8.4	25.1	9.2	100.0	8	4.54	9.2
NG 1511 B2RF	50247	7.0	33.4	7.1			5.5	5.7	22.4	6.8	100.0	6	4.07	8.4
NG 3405 B2XF	45824	6.5	32.4	7.3			7.0	7.1	29.8	9.0	100.0	6	4.09	7.88
NG 3406 B2XF	47204	7.0	34.6	6.5			5.8	5.9	16.2	9.0	98.7	7	4.23	8.96
NG 5007 B2XF	45022	6.0	32.9	6.3			6.3	6.5	20.9	8.6	100.0	6	4.06	7.56
NG 5315 B2RF	39286	5.8	33.8	7.6			7.3	8.5	24.0	10.4	97.3	7	4.09	8.33
PHY 222 WRF	45187	7.3	32.0	6.3			5.5	6.1	21.0	7.2	100.0	6	4.07	8.75
PHY 312 WRF	53355	6.8	33.9	7.3			6.8	6.0	20.8	8.6	100.0	7	3.77	8.52
PHY 333 WRF	48338	7.0	34.8	5.8			5.5	7.8	22.2	8.8	100.0	6	4.29	7.89
PHY 339 WRF	53123	6.0	34.6	6.7			6.0	8.2	20.0	8.9	100.0	6	4.05	8.19
PHY 444 WRF	44933	7.0	34.9	7.9			6.5	5.1	15.5	5.7	98.7	7	4.52	8.69
PHY 495 WRF	45265	5.8	33.5	8.7			7.5	7.8	24.3	8.2	100.0	6	4.09	8.17
PHY 499 WRF	49930	6.8	33.2	7.8			7.0	5.5	21.3	8.1	100.0	6	4.01	8.28
PHY 805 RF PIMA	41787	6.3	33.6	8.5			7.5	7.4	33.5	0.0	96.0	6	3.06	10.01
PHY 811 RF PIMA	42194	6.3	35.0	8.7			8.0	8.2	27.0	2.0	98.0	5	2.93	9.17
PX 2037-18 WRF	50754	7.0	34.8	6.6			7.0	6.1	18.0	7.4	100.0	7	4.22	9.12
PX 2045-11 WRF	44516	7.5	33.6	8.3			6.8	6.3	14.7	8.0	99.3	6	4.50	8.95
PX 2048-04 WRF	51947	6.8	33.7	7.1			7.3	6.2	18.0	9.1	98.7	6	4.01	8.79
ST 4747 GLB2	46995	7.0	33.6	8.3			6.0	7.5	21.5	7.9	100.0	8	4.09	8.04
ST 4747 GLB2-FL	54529	6.3	31.9	7.1			5.8	7.4	21.6	9.3	98.7	6	3.92	7.66
ST 4946 GLB2	47132	6.5	33.7	8.3			5.3	6.9	17.8	9.0	97.3	7	4.29	8.05
ST 5115 GLT (BX 1534)	47823	6.3	29.2	8.3			6.0	5.3	14.1	8.1	98.7	8	4.04	8.58
Average	46,273	6.4	33.4	7.3	17.1	0.0	6.4	6.8	22.0	8.2	99.1	7	4.08	8.41
P>(F)[6]	0.6654	0.0180	0.0228	0.0001			0.0001	0.0273	0.1105	0.0001	0.3733	0.0001	0.0001	0.0014
LSD (P=0.05)	NS	1.290	3.877	0.951			1.420	3.135	11.755	2.865	NS	0.960	0.489	0.325
CV %	21.62	14.38	8.27	9.30			15.94	32.92	38.08	25.08	2.5	10.21	8.58	1.22
Fluopyram (FL) Seed Treatment = Fluopyram (0.25 mg ai/seed) + Gaucho (0.375 mg ai/seed)														

Table 5. San Angelo Irrigated Uniform Small Plot

		2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension							
Name of County:	Tom Green				Plant Date: June 22, 2015			David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230							
County ID Number:	451				Harvest Date: Nov 9 - 13, 2015										
District number:	7				Design: 40" centers, 4 rows x 36 ft. long, 4 RCB replications, One row harvested										
Year:	2015				Fertility: Pre-plant soil test 0-6" (N-P-K-S) 68-47-714-71 ppm 6-18" (N-P-K-S) 17-9-429-97 ppm										
Producer:	Michael Block				Herbicide: Glyphosate Applications										
GPS location:	31^0 26' 1" N 100^0 19' 19" W				Fiber Quality[2]						Lint	Seed	Total	2013[8]	2014[8]
	Yield Per Acre[1]					Fiber				CCC	Gross	Gross	Gross	Lint Yld	Lint Yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return[5]	Return	ranking	ranking
Variety	Lint	Seed	Lint	Seed	Leaf[3]	(staple)	Mic	(gram/tex)	Uniformity	Value[4]	($/acre)	($/acre)	($/acre)	of 22	of 42
FM 1830 GLT	1153	1817	0.29	0.47	41-3*	1.11	3.4	30.53	80.67	$53.63	$618.33	$227.16	$845.49	n.t	4
12 WSRF-770-G11 RF	1145	1617	0.29	0.43	31-3*	1.10	4.1	32	80.65	$54.35	$622.36	$202.17	$824.53	n.t	n.t.
DG 3544 B2XF (CT 15444)	1082	1894	0.27	0.48	31-4*	1.13	4.2	32.5	83.4	$55.00	$595.21	$236.73	$831.95	n.t	n.t.
NG 5315 B2RF	1052	1661	0.30	0.47	31-3*	1.08	4.2	29.6	81.45	$52.73	$554.83	$207.60	$762.44	n.t	37
CT 15704 RF (770-A1)	1046	1377	0.31	0.43	31-3*	1.05	4.3	31.95	81.1	$52.30	$547.30	$172.17	$719.47	n.t.	7
ST 4747 GLB2-FL	1043	1569	0.28	0.44	31-5	1.08	3.8	29.15	79.55	$52.30	$545.38	$196.13	$741.50	n.t	n.t.
DP 1219 B2RF	1038	1773	0.28	0.48	41-3*	1.06	3.4	29.05	78.65	$49.15	$510.16	$221.58	$731.75	1	19
CT 15445 B2RF	1032	1705	0.28	0.48	41-7*	1.09	3.7	31.2	82	$50.43	$520.51	$213.14	$733.65	n.t	n.t.
DP 1549 B2XF	1030	1818	0.27	0.48	31-3*	1.02	3.7	28.65	80.45	$48.63	$500.73	$227.25	$727.97	n.t	n.t.
ATX CONCHO B2XF (CT 15	1013	1781	0.27	0.48	31-4*	1.15	4.0	31.4	83.2	$53.78	$544.58	$222.59	$767.17	n.t	n.t.
BX 1637 GLT	1001	1850	0.26	0.50	41-6*	1.14	3.0	30.25	80.3	$46.73	$467.93	$231.20	$699.13	n.t	n.t.
NG 3406 B2XF	1000	1809	0.26	0.50	41-4*	1.04	3.3	32.2	81.25	$48.45	$484.63	$226.09	$710.72	n.t	n.t.
ATX EPIC RF	998	1751	0.27	0.48	31-1*	1.06	3.9	30.15	79.8	$53.48	$533.77	$218.83	$752.60	8	34
PHY 333 WRF	986	1791	0.26	0.49	42-7	1.10	3.1	29.2	81.1	$54.78	$540.27	$223.88	$764.15	5	16
DG 2615 B2RF (CT 14515)	963	1608	0.28	0.49	31-6*	1.10	3.5	30.5	80.35	$50.65	$487.94	$200.96	$688.90	n.t	n.t.
FM 1944 GLB2	947	1928	0.24	0.51	31-4*	1.09	3.1	28.7	79.4	$51.00	$483.02	$241.01	$724.02	12	33
DP 1522 B2XF	947	1613	0.27	0.46	41-4*	1.08	3.8	28.95	80.6	$50.65	$479.41	$201.66	$681.08	n.t	n.t.
FM 2007 GLT (BX 1539)	931	1647	0.27	0.50	41-4*	1.14	3.4	31.75	80.75	$52.05	$484.71	$205.90	$690.60	n.t	25
PX 2037-18 WRF	927	1622	0.27	0.48	41-7	1.12	3.2	27.65	79.9	$48.18	$446.47	$202.76	$649.22	n.t	n.t.
PHY 499 WRF	926	1523	0.29	0.49	31-4*	1.07	3.9	30.35	81	$51.58	$477.65	$190.39	$668.04	6	2
FM 9180 B2F	921	1815	0.25	0.50	31-4*	1.12	3.4	28.8	80.55	$52.68	$485.31	$226.90	$712.21	9	41
NG 5007 B2XF	919	1429	0.30	0.47	41-3*	1.05	4.0	28.55	81.25	$49.00	$450.25	$178.61	$628.86	n.t	n.t.
BX 1532 GLT	918	1260	0.32	0.43	31-4*	1.07	4.4	28.05	82.5	$53.08	$487.34	$157.55	$644.89	n.t	n.t.
DP 1044 B2RF	916	1834	0.24	0.50	31-5*	1.04	3.5	28	79.9	$47.55	$435.65	$229.22	$664.87	17	5
NG 1511 B2RF	916	1633	0.27	0.49	41-3*	1.04	3.4	29.15	79.55	$46.95	$430.12	$204.19	$634.31	4	29
BX 1636 GLT	911	1607	0.27	0.49	41-4*	1.14	3.1	28	79.05	$48.18	$438.74	$200.83	$639.57	n.t	n.t.
PHY 495 W3RF	909	1709	0.28	0.49	41-5*	1.05	3.7	27.75	78.55	$49.13	$446.48	$213.64	$660.12	n.t	9
PHY 339 WRF	909	1580	0.27	0.50	41-3*	1.08	3.6	30.6	81.15	$50.20	$456.22	$197.47	$653.70	3	31
CSCG 3885 B2XF	903	1403	0.30	0.46	41-2*	1.02	4.5	26.85	80.1	$49.40	$445.96	$175.38	$621.34	n.t	n.t.

Continued on next page

					Fiber Quality[2]						Lint	Seed	Total	2013[8]	2014[8]
	Yield Per Acre[1]					Fiber				CCC	Gross	Gross	Gross	Lint yld	Lint Yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return[5]	Return	ranking	ranking
Variety	Lint	Seed	Lint	Seed	Leaf[3]	(staple)	Mic	(gram/tex)	Uniformity	Value[4]	($/acre)	($/acre)	($/acre)	of 22	of 42
PHY 444 WRF	889	1504	0.29	0.48	31-3*	1.14	3.4	30	80.45	$54.03	$480.11	$188.05	$668.16	n.t	n.t.
DG 3385 B2XF	885	1518	0.28	0.49	31-3*	1.05	3.6	28.05	80.25	$51.78	$458.34	$189.69	$648.03	n.t	n.t.
FM 2334 GLT	883	1571	0.27	0.49	31-4*	1.05	3.5	27.85	79.6	$50.60	$446.67	$196.41	$643.09	n.t	22
FM 1911 GLT (BX 1635)	869	1540	0.26	0.50	31-4*	1.10	3.6	29.65	80.35	$52.50	$456.11	$192.47	$648.58	n.t	n.t.
NG 3405 B2XF	868	1525	0.27	0.48	41-3*	1.01	3.7	25.15	78.1	$46.35	$402.41	$190.59	$592.99	n.t	n.t.
ST 4946 GLB2	859	1593	0.28	0.51	41-5*	1.04	3.4	28.05	80.25	$47.53	$408.12	$199.09	$607.20	10	1
PHY 312 WRF	839	1576	0.26	0.49	41-7	1.11	3.2	30.1	81.25	$49.63	$416.33	$197.00	$613.33	n.t	n.t.
PX 2048-04 WRF	838	1621	0.24	0.49	41-7*	1.08	3.5	29.45	79.2	$49.93	$418.48	$202.57	$621.05	n.t	n.t.
DP 1321 B2RF	827	1496	0.26	0.50	41-4*	1.05	3.4	28.65	80.4	$50.18	$415.16	$187.05	$602.21	7	27
ST 5115 GLT (BX 1534)	827	1484	0.27	0.47	31-5*	1.05	3.1	25.15	78.1	$46.28	$382.62	$185.55	$568.16	n.t	11
DP 1359 B2RF	805	1305	0.29	0.48	31-4*	1.06	3.8	29.47	79.77	$49.72	$400.05	$163.17	$563.22	2	15
ST 4747 GLB2	802	1358	0.27	0.49	41-7*	1.10	3.5	29.6	81.45	$48.95	$392.72	$169.76	$562.48	22	8
ATX NITRO 44 B2RF	788	1536	0.25	0.50	41-6*	1.15	3.4	29.15	80.95	$50.38	$397.15	$192.05	$589.20	20	18
PX 2045-11 WRF	769	1512	0.26	0.52	41-4*	1.13	3.6	28.65	80.8	$52.20	$401.45	$188.95	$590.40	n.t	n.t.
PHY 222 WRF	748	1483	0.24	0.50	42-6	1.07	3.7	28.45	80.45	$48.70	$364.47	$185.39	$549.86	n.t	35
DG 3635 B2XF (CT 15535)	747	1318	0.27	0.49	31-5*	1.05	3.9	29.2	79.8	$49.85	$372.34	$164.71	$537.05	n.t	n.t.
ATX ZEUS B2XF(CT 15994)	724	1228	0.26	0.48	41-5	1.01	3.9	27.15	79.85	$47.50	$343.87	$153.45	$497.32	n.t	n.t.
CT 15143 B2XF	724	1278	0.26	0.47	41-5*	0.99	3.7	27.15	79.1	$46.15	$333.93	$159.78	$493.71	n.t	n.t.
FM 1900 GLT (BX 1538)	628	1245	0.25	0.50	41-5*	1.09	3.2	30.05	80.65	$46.05	$289.00	$155.68	$444.68	n.t	30
Average	903	1592	0.27	0.49	-	1.07	3.6	29.1	80.4	$50.17	$454.31	$199.00	$653.30	966	1512
P>(F)[6]	0.0205	0.0574	0.0001	0.0001	-	0.0001	0.0010	0.0010	0.0001	0.0001	----	Max/Min	----	----	Max/Min
LSD (P=0.05)[7]	248	425	0.021	0.020	-	0.042	0.548	1.550	1.622	$3.86	$618.33	$241.01	$845.49	1117	1714
CV %	19.4	19.2	3.9	2.1	-	1.9	3.8	2.6	1.0	3.8	$289.00	$153.45	$444.68	787	1182

Acknowledgements of assistance from Michael Block, Producer; Josh Blanek, Justin Klinksiek, Johnathan Ramirez, Alicia Theriot, David Becker, Morgan Elmore, Zack Altman, Caleb Drake, Kevin Ham 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. Abreviations include: All-Tex (ATX), Bayer Crop Science Exp. Variety (BX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), Dyna-Grow Variety (CT), ExtendFlex (XF), FiberMax (FM), Fluopyram seed trmt (FL), Glytol (G), Liberty Link (L), NexGen (NG), Phytogen (PHY), Phytogen Exp. Variety (PX) Poncho Votivo seed trmt (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 conduced 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 the best is shown and it is marked with (*).

[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.

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

[8] n.t. indicates the variety was not tested that year

Table 6. Tom Green Co. Irrigated- Wilde Cotton Variety Trial

		2015 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension						
Name of County:	Tom Green				Plant Date: , May 27, 2015				David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230						
County ID Number:	451				Harvest Date: November 4, 2015										
District number:	7				Design: 40" centers, 16 rows										
Year:	2015				Fertility:										
Producer:	Doug & Matt Wilde				Herbicide: Temik 5 lbs/acre at plant 1 ½ pt. Direx, 1 qt Caparol										
GPS:	31^0 24' 34" N 100^0 22' 32" W				Fiber Quality					Lint	Seed	Total	2012	2013	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint yld	Lint yld	Lint yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	ranking	ranking	ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)	of 20 tested	of 16 tested	of 19 tested
DP 1549 B2XF*	1926	3005	31.48%	49.12%	41-6	1.16	4.00	31.70	81.20	$52.15	$1,004.30	$375.59	$1,379.88	n.t.	n.t.	n.t.
ST 4946 GLB2	1807	2831	32.30%	50.60%	41-7	1.13	4.93	32.60	83.60	$52.15	$942.40	$353.81	$1,296.22	n.t.	8	4
PHY 333 WRF	1802	2702	31.27%	46.90%	41-8	1.20	4.15	30.60	83.70	$52.10	$938.68	$337.77	$1,276.44	n.t.	n.t.	10
PHY 499 WRF*	1799	2785	31.55%	48.83%	51-8	1.17	4.18	32.50	84.00	$50.20	$903.10	$348.13	$1,251.22	7	7	5
DP 1522 B2XF*	1821	2710	31.23%	46.49%	51-8	1.15	4.50	32.10	83.40	$49.95	$909.47	$338.74	$1,248.22	n.t.	n.t.	n.t.
DP 1219 B2RF*	1713	2688	32.00%	50.20%	41-6	1.18	3.79	34.10	81.40	$52.20	$894.21	$335.95	$1,230.17	3	n.t.	n.t.
DP 1359 B2RF*	1692	2572	32.75%	49.80%	41-7	1.20	3.74	33.20	81.00	$52.20	$883.03	$321.53	$1,204.56	n.t.	2	16
ST 4747 GLB2	1695	2701	31.45%	50.14%	41-7	1.14	4.89	29.90	79.70	$50.90	$862.57	$337.67	$1,200.24	n.t.	n.t.	7
NG 5007 B2XF	1702	2328	36.20%	49.50%	31-4	1.09	4.60	27.10	79.20	$53.15	$904.80	$290.96	$1,195.76	n.t.	n.t.	n.t.
CT 15535 B2XF	1662	2594	30.98%	48.34%	41-7	1.11	4.41	31.60	82.20	$52.05	$865.31	$324.22	$1,189.53	n.t.	n.t.	n.t.
PHY 444 WRF	1645	2431	33.09%	48.92%	31-6	1.21	3.47	30.50	82.10	$53.65	$882.38	$303.89	$1,186.27	n.t.	n.t.	n.t.
NG 1511 B2RF	1676	2455	33.02%	48.37%	41-7	1.11	4.46	31.90	83.20	$52.15	$873.93	$306.93	$1,180.86	1	3	13
DG 2570 B2RF	1696	2711	32.55%	52.03%	41-4	1.07	5.01	28.80	83.20	$49.55	$840.18	$338.83	$1,179.02	9	4	12
NG 3406 B2XF	1719	2473	34.66%	49.86%	41-5	1.09	5.06	29.50	82.40	$48.45	$832.74	$309.09	$1,141.83	n.t.	n.t.	n.t.
PHY 499 WRF	1617	2503	31.55%	48.83%	51-8	1.17	4.18	32.50	84.00	$50.20	$811.81	$312.89	$1,124.70	7	7	5
PHY 339 WRF	1552	2422	32.97%	51.45%	41-6	1.18	4.41	33.10	83.40	$52.20	$810.25	$302.77	$1,113.02	n.t.	n.t.	11
FM 1900 GLT	1321	2201	29.73%	49.54%	41-7	1.18	4.68	33.60	83.00	$52.20	$689.65	$275.15	$964.80	n.t.	n.t.	n.t.
FM 2334 GLT	1232	1932	32.91%	51.61%	31-3	1.20	4.40	32.20	84.60	$57.05	$703.01	$241.54	$944.55	n.t.	n.t.	1
FM 2484 B2F	1215	2067	29.19%	49.67%	31-5	1.18	4.23	31.20	82.50	$54.00	$656.06	$258.40	$914.46	15	16	3
FM 1830 GLT	1212	1656	35.13%	48.02%	31-4	1.19	4.82	33.20	83.70	$55.40	$671.25	$207.00	$878.24	n.t.	n.t.	6
FM 2007 GLT	1143	2067	25.59%	46.27%	41-8	1.16	4.47	30.40	81.90	$51.80	$592.23	$258.42	$850.65	n.t.	n.t.	n.t.
Average	1602	2468	31.98%	49.26%	-	1.16	4.40	31.54	82.54	$52.08	$831.97	$308.54	$1,140.51	1252	1221	1631
Max.	1926	3005	36.20%	52.03%	-	1.2	5.1	34.1	84.6	$57.05	$1,004.30	$375.59	$1,379.88	1523	1370	1957
Min.	1143	1656	25.59%	46.27%	-	1.1	3.5	27.1	79.2	$48.45	$592.23	$207.00	$850.65	942	1066	1197
Values that are average or above in a column are background highlighted								n.t. = variety not tested that year								
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: Joshua Blanek (325)659-6524 or Dr. David Drake (325)653-4576													
* These varieties were in a different irrigation station and received more water than the rest of the trial. Their yeild has been adjusted by 90 percent																
which is the percent yeild increase of PHY 499 WRF between the different irrigation stations.																

Table 7. Runnels Co. Dryland- Minzenmayer Cotton Variety Trial

		2015 Dryland Cotton Variety Trial							Texas A&M AgriLife Extension					
Name of County:	Runnels				Plant Date: June 8, 2015				David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230					
County ID Number:	65				Harvest Date: October 13, 2015									
District number:	7				Design: 36" centers, 8 row plots (rows were approximately 1000 ft. long), Every Row									
Year:	2015				Fertility: Pre-plant soil test 0-6" (N-P-K-S) 5-18-398-200 ppm 6-18" (N-P-K-S) 6-9-349-211 ppm									
Producer:	Paul Minzenmayer				Herbicide: RoundUp applications during the growing season as needed									
GPS location:	31^0 59' 14" N 100^0 3' 19" W				Fiber Quality						Lint	Seed	Total	2014
	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	Mic	(staple)	Uniformity	(gram/tex)	Value	($/acre)	($/acre)	($/acre)	of 15 tested
NG 3406 B2XF	557	761	0.37	0.50	11-2	4.3	1.02	80.9	27.8	$51.60	$287.58	$95.16	$382.74	n.t.
PHY 333 WRF	551	808	0.34	0.50	12-3	4.0	1.08	81.3	27.6	$53.90	$297.09	$101.03	$398.12	1
FM 2007 GLT	528	796	0.36	0.54	11-1	3.9	1.06	79.6	28.8	$53.00	$279.80	$99.51	$379.31	n.t.
PHY 339 WRF	508	762	0.35	0.52	11-2	4.1	1.07	82.3	30.5	$54.00	$274.08	$95.22	$369.30	14
BX 1636 GLT	502	699	0.37	0.52	11-3	3.8	1.08	78.2	26.6	$54.70	$274.52	$87.33	$361.85	n.t.
FM 1830 GLT	498	658	0.38	0.50	11-1	3.9	1.10	81.2	29.2	$56.25	$280.37	$82.31	$362.69	2
ST 4946 GLB2	498	783	0.33	0.52	11-3	3.9	1.05	81.4	29.9	$53.60	$267.15	$97.90	$365.05	5
NG 5315 B2RF	496	658	0.38	0.50	11-2	4.3	1.04	81.0	28.0	$51.60	$256.14	$82.21	$338.35	9
BX 1637 GLT	496	805	0.32	0.52	21-3	3.6	1.08	79.7	28.3	$54.70	$271.49	$100.65	$372.14	n.t.
BX 1532 GLT	496	597	0.39	0.47	11-2	4.3	1.03	79.2	26.5	$50.85	$252.20	$74.67	$326.87	n.t.
DP 1522 B2XF	496	687	0.36	0.50	21-3	4.6	1.05	80.8	28.2	$53.40	$264.72	$85.94	$350.66	n.t.
ST 6182 GLT	495	572	0.40	0.47	11-1	4.2	1.02	79.3	27.9	$51.00	$252.32	$71.51	$323.82	n.t.
NG 1511 B2RF	489	644	0.37	0.49	12-1	4.5	1.02	80.5	28.7	$50.75	$248.42	$80.50	$328.91	13
FM 1944 GLB2	489	800	0.32	0.53	11-2	4.0	1.07	80.3	27.8	$53.75	$262.90	$100.06	$362.96	11
DP 1219 B2RF	489	699	0.36	0.51	11-1	4.0	1.05	79.9	28.5	$53.00	$259.21	$87.37	$346.59	n.t.
DP 1549 B2XF	487	649	0.37	0.49	11-1	4.1	1.02	77.3	27.0	$50.75	$247.12	$81.16	$328.27	n.t.
ST 5115 GLT	473	741	0.33	0.52	31-5	3.7	1.04	79.2	29.8	$48.70	$230.51	$92.61	$323.12	n.t.
FM 2334 GLT	473	623	0.37	0.49	11-1	4.1	1.11	80.8	29.8	$57.30	$271.16	$77.84	$348.99	10
ST 4747 GLB2 (Untrt)	468	744	0.31	0.50	11-3	4.1	1.07	79.8	25.1	$51.30	$239.94	$92.95	$332.89	3
CT 15535 B2XF	465	653	0.36	0.51	11-1	4.3	1.03	80.1	28.3	$51.60	$239.98	$81.59	$321.57	n.t.
DP 1359 B2RF	464	671	0.34	0.49	11-1	3.9	1.05	79.9	28.1	$53.00	$246.04	$83.82	$329.86	6
FM 1900 GLT	460	677	0.34	0.50	21-5	4.1	1.07	80.7	29.1	$51.60	$237.29	$84.68	$321.97	n.t.
FM 2484 B2F	445	643	0.35	0.50	11-2	3.7	1.06	78.7	28.5	$52.85	$235.01	$80.43	$315.44	12
PHY 495 W3RF	438	610	0.37	0.52	21-3	4.0	1.03	81.1	28.5	$51.50	$225.52	$76.20	$301.72	n.t.
ST 4747 GLB2 (FL)	423	665	0.32	0.50	11-2	3.9	1.06	77.8	24.4	$51.00	$215.80	$83.07	$298.87	n.t.
Average	487	696	0.35	0.50	-	4.05	1.05	80.0	28.1	$52.63	$256.65	$87.03	$343.68	-
Max.	557	808	0.40	0.54	-	4.61	1.11	82.3	30.5	$57.30	$297.09	$101.03	$398.12	-
Min.	423	572	0.31	0.47	-	3.60	1.02	77.3	24.4	$48.70	$215.80	$71.51	$298.87	-
Values that are average or above in a column are background highlighted						n.t. = variety not tested that year								
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: Garrett Cline (325)365-2219 or David Drake (325)653-4576								
Fluopyram (FL) Seed Treatment = Fluopyram (0.25 mg ai/seed) + Gaucho (0.375 mg ai/seed)														

Table 8. Fisher Co. Dryland- Coker Cotton Variety Trial

		2015 Dryland Cotton Variety Trial								Texas A&M AgriLife Extension					
Name of County:	Fisher					Plant Date: June 12, 2015				David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230					
County ID Number:	64					Harvest Date: Dec. 3, 2015									
District number:	7					Design: Hand sampled from 13.1 ft of row at 2 locations in unreplicated strips									
Year:	2015					Fertility:									
Producer:	Todd Coker					Herbicide:									
						Fiber Quality					Lint	Seed	Total	2013	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint Yld	Lint Yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	Ranking	Ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)	of 9 tested	of 15 tested
PHY 499 WRF	537	845	0.31	0.48	33-4*	1.04	4.85	27.9	81.4	$46.20	$248.10	$105.60	$353.69	n.t.	3
FM 2334 GLT	428	635	0.30	0.44	32-2	1.08	5.11	28.1	80.7	$48.80	$208.77	$79.41	$288.18	n.t.	12
FM 2007 GLT	391	655	0.28	0.47	32-3*	1.06	4.73	27.7	79.4	$50.23	$196.38	$81.85	$278.22	n.t.	n.t.
PHY 339 WRF	388	622	0.29	0.47	42-6	1.05	4.52	28.2	80.9	$47.67	$184.91	$77.69	$262.61	7	n.t.
NG 5315 B2RF	382	564	0.30	0.44	32-3*	1.06	4.76	28.0	81.9	$48.53	$185.50	$70.50	$256.00	n.t.	9
FM 1900 GLT	364	563	0.31	0.47	32-3*	1.04	4.94	26.8	80.5	$47.03	$171.30	$70.32	$241.62	n.t.	n.t.
NG 1511 B2RF	338	471	0.31	0.43	32-4*	0.98	4.86	27.4	79.6	$43.63	$147.31	$58.92	$206.23	9	11
ST 4946 GLB2	296	518	0.28	0.49	32-5*	1.03	4.96	29.0	81.4	$46.75	$138.56	$64.81	$203.37	n.t.	2
PHY 333 WRF	267	430	0.28	0.44	43-7	1.01	4.72	25.1	79.8	$42.63	$113.91	$53.81	$167.71	n.t.	n.t.
ST 4747 GLB2	262	388	0.29	0.43	32-4	1.02	4.93	22.8	78.3	$44.03	$115.55	$48.45	$164.01	n.t.	4
Average	365	569	0.29	0.46	-	1.04	4.8	27.1	80.4	$46.55	$171.03	$71.14	$242.16	942	125
P>(F)6	0.001	0.001	0.069	0.008	-	0.012	0.102	0.016	0.029	0.191	----	Max/Min	----	Max/Min	----
LSD (P=0.05)	88	137	0.024	0.029	-	0.042	NS	2.777	1.83	NS	$278.84	$105.60	$384.44	1144	190
CV %	10.8	10.8	3.6	2.8	-	1.8	3.1	4.6	1.0	5.6	$114.11	$48.45	$162.56	702	65
Values that are average or above in a column are background highlighted									n.t. = variety not tested that year						
Values with asterics indicate differences between 2 samples.															
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: Justin McGriff (325)776-3259 or Dr. David Drake (325)653-4576										

Table 9. Nolan Co. Irrigated- Alexander Cotton Variety Trial

		2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension					
Name of County:	Nolan				Plant Date: 2015			David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230					
County ID Number:	353				Harvest Date: 2015								
District number:	7				Design: Hand sampled and cleaned from 13.1 ft of row at 1 location, Unreplicated strips								
Year:	2015				Fertility:								
Producer:	Kim Alexander				Herbicide: None								
GPS:	32° 26' 28" N 100° 33' 1" W				Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)
FM 1944 GLB2	713	1045	0.29	0.43	41-4	1.09	4.60	29.90	82.40	$50.27	$358.41	$130.59	$489.00
ST 4946 GLB2	601	939	0.28	0.44	31-5	1.13	4.59	30.70	82.10	$50.25	$302.19	$117.43	$419.62
PHY 444 WRF	584	899	0.28	0.43	41-3	1.11	4.54	30.30	82.30	$50.25	$293.42	$112.36	$405.78
FM 1830 GLT	545	827	0.29	0.44	41-7	1.07	4.50	29.90	80.20	$50.27	$274.21	$103.43	$377.63
PHY 333WRF	543	933	0.27	0.47	41-6	1.08	4.82	26.80	81.60	$50.24	$272.79	$116.57	$389.36
NG 1511 B2RF	533	756	0.30	0.43	22-1	1.19	2.84	37.60	78.40	$50.21	$267.74	$94.55	$362.29
ST 4747 GLB2	477	771	0.28	0.45	41-5	1.03	4.71	29.50	81.70	$50.24	$239.49	$96.42	$335.91
FM 1900 GLT	432	693	0.28	0.45	31-5	1.16	4.06	29.60	83.30	$50.27	$217.39	$86.62	$304.01
PHY 339 WRF	414	661	0.26	0.42	41-5	1.12	4.06	31.90	80.60	$50.27	$208.18	$82.60	$290.78
Average	538	836	0.28	0.44	-	1.11	4.30	30.7	81.4	$50.25	$270.42	$104.51	$374.93
Max.	713	1045	0.30	0.47	-	1.19	4.82	37.6	83.3	$50.27	$358.41	$130.59	$489.00
Min.	414	661	0.26	0.42	-	1.03	2.84	26.8	78.4	$50.21	$208.18	$82.60	$290.78
[1]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 10. Glasscock Co. Irrigated- Fuchs Cotton Variety Trial

				2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension			
Name of County:	Glasscock					Plant Date: June 3, 2015							
County ID Number:	173					Harvest Date: Oct 20, 2015							
District number:	6					Design: 6 rows, 2 x 1, 1042 ft, Strip Trial							
Year:	2015					Fertility: 0							
Producer:	Allen/Michael Fuchs					Herbicide: 0							
					Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)
ST 4946 GLB2	1156	1634	30.90%	43.66%	32-5	34	4.68	29.10	81.90	$48.95	$565.84	$171.54	$737.38
PHY 495 W3RF	1151	1558	31.48%	42.58%	32-6	33	4.27	29.50	80.70	$46.05	$530.20	$163.54	$693.74
PHY 444 WRF	1127	1436	31.89%	40.66%	22-4	36	4.10	29.40	82.10	$54.35	$612.33	$150.82	$763.15
PHY 333 WRF	1118	1518	30.73%	41.74%	32-6	36	4.59	29.00	82.80	$47.95	$535.90	$159.41	$695.32
FM 2007 GLT	1101	1646	30.27%	45.26%	21-3	36	4.08	29.90	81.10	$56.65	$623.62	$172.84	$796.45
FM 2334 GLT	1069	1331	32.58%	40.57%	21-1	37	4.80	30.40	81.20	$57.55	$615.32	$139.79	$755.11
PHY 499 WRF	1058	1374	29.08%	37.77%	32-7	33	4.68	30.50	81.10	$45.00	$475.94	$144.22	$620.16
DP 1522 B2XF	1044	1450	30.27%	42.05%	32-5	34	4.84	30.20	80.80	$49.10	$512.53	$152.27	$664.79
FM 2484 B2F	1038	1541	29.74%	44.15%	21-2	35	4.24	29.30	79.60	$55.50	$576.17	$161.83	$737.99
DP 1219 B2RF	1036	1444	29.34%	40.87%	22-2	34	4.48	30.50	80.40	$53.00	$549.27	$151.58	$700.85
PHY 339 WRF	992	1420	30.44%	43.54%	21-4	35	4.42	30.20	80.90	$54.40	$539.88	$149.05	$688.94
DP 1549 B2XF	977	1393	27.99%	39.90%	22-4	34	4.46	28.80	80.20	$51.70	$505.10	$146.24	$651.34
FM 1900 GLT	951	1444	27.58%	41.87%	21-5	36	4.33	30.00	81.60	$54.05	$514.12	$151.61	$665.72
ST 4747 GLB2	804	1186	21.74%	32.05%	31-7	35	4.76	26.40	80.40	$48.15	$387.21	$124.51	$511.73
Average	1044	1455	29.57%	41.19%	-	35	4.48	29.51	81.06	$51.60	$538.82	$152.80	$691.62
Max.	1156	1646	32.58%	45.26%	-	37	4.84	30.50	82.80	$57.55	$623.62	$172.84	$796.45
Min.	804	1186	21.74%	32.05%	-	33	4.08	26.40	79.60	$45.00	$387.21	$124.51	$511.73
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 $210/ton				For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576									
$3.00/cwt ginning cost													

Table 11. Reagan Co. Irrigated- Bales Cotton Variety Trial

				2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension				
Name of County:	Reagan					Plant Date: June 3, 2015								
County ID Number:	383					Harvest Date: Nov 11, 2015								
District number:	6					Design: 6 rows, solid, 1850 ft, Strip Trial								
Year:	2015					Fertility: 10 gal 10-25-0S variable-PRE, 68lbs N								
Producer:	Phillip Bales					Herbicide: RU-32 oz + .5 oz Aim-Pre, 32 oz RU								
						Fiber Quality					Lint	Seed	Total	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint Yield
	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
FM 2334 GLT	780	1030	31.85%	42.07%	31-5	32	4.74	27.80	80.40	$48.15	$375.53	$108.17	$483.70	n.t.
ST 4946 GLB2	774	1064	31.77%	43.67%	31-5	33	4.84	29.20	80.50	$49.30	$381.67	$111.75	$493.42	7
PHY 333 WRF	740	1000	31.26%	42.26%	31-6	32	4.62	27.20	79.70	$46.05	$340.62	$104.99	$445.62	4
NG 3406 B2XF	737	967	31.45%	41.30%	42-6	34	4.78	28.70	82.00	$46.95	$345.89	$101.59	$447.47	n.t.
NG 4111 RR	735	1025	32.17%	44.89%	32-5	33	4.33	30.70	81.30	$47.65	$350.13	$107.65	$457.79	n.t.
ST 4747 GLB2	683	1009	28.04%	41.39%	41-6	34	4.29	25.90	79.40	$45.90	$313.70	$105.92	$419.62	9
FM 2007 GLT	651	959	28.94%	42.66%	31-5	35	4.25	32.10	82.30	$53.25	$346.57	$100.72	$447.29	n.t.
NG 5007 B2XF	638	791	30.10%	37.32%	31-3	32	4.72	24.70	78.00	$46.95	$299.50	$83.03	$382.53	n.t.
DG 3635 B2XF	625	878	31.42%	44.11%	31-6	32	4.50	27.60	80.30	$46.80	$292.54	$92.15	$384.69	n.t.
DG 2355 B2RF	624	1048	26.79%	44.98%	41-8	32	4.29	28.10	79.40	$11.25	$70.25	$110.08	$180.33	n.t.
FM 2484 B2F	623	927	27.69%	41.23%	31-5	35	4.17	29.00	80.30	$53.00	$330.04	$97.35	$427.39	14
NG 1511 B2RF	620	777	28.78%	36.05%	31-5	35	4.54	29.50	80.70	$52.85	$327.67	$81.56	$409.22	6
NG 3306 B2RF	604	953	26.87%	42.37%	31-5	34	4.39	28.50	78.80	$49.95	$301.83	$100.03	$401.85	10
PHY 339 WRF	592	858	26.61%	38.57%	31-5	34	4.01	29.40	81.30	$51.05	$302.25	$90.12	$392.36	12
FM 1900 GLT	565	892	26.67%	42.11%	41-6	34	4.14	28.00	79.50	$47.55	$268.71	$93.69	$362.40	n.t.
DG 2570 B2RF	498	714	29.15%	41.83%	32-4	32	4.60	26.70	80.10	$47.65	$237.10	$74.97	$312.08	5
NG 5315 B2RF	456	612	22.02%	29.53%	21-3	32	4.65	26.50	80.80	$49.70	$226.73	$64.24	$290.97	1
Average	644	912	28.92%	40.96%	-	33	4.46	28.21	80.28	$46.71	$300.63	$95.77	$396.40	651
Max.	780	1064	32.17%	44.98%	-	35	4.84	32.10	82.30	$53.25	$381.67	$111.75	493.42	905
Min.	456	612	22.02%	29.53%	-	32	4.01	24.70	78.00	$11.25	$70.25	$64.24	180.33	381
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 $210/ton		For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576												
$3.00/cwt ginning cost		n.t. = variety not tested that year												

Table 12. Reagan Co. Irrigated- G. Halfmann Cotton Variety Trial

				2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension			
Name of County:	Reagan					Plant Date: June 8, 2015							
County ID Number:	383					Harvest Date: Oct 12, 201							
District number:	6					Design: 8-1, 1.7 sd/ft, 1600 ft., Strip Trial							
Year:	2015					Fertility: 100 lbs 20-10-5							
Producer:	Gary Halfmann					Herbicide: 0							
					Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)
NG 3406 B2XF	254	363	32.33%	46.17%	23-3	32	4.63	27.2	80.4	$ 47.30	$ 120.22	$ 30.85	$151.07
PHY 495 W3RF	252	366	26.52%	38.54%	23-3	31	4.2	28.9	77.6	$ 44.45	$ 111.92	$ 31.11	$143.03
FM 2334 GLT	250	382	28.83%	43.98%	22-1	35	4.53	29.2	80.1	$ 54.15	$ 135.48	$ 32.44	$167.92
PHY 499 WRF	246	337	31.34%	42.89%	33-5	32	4.48	28.5	80.2	$ 44.85	$ 110.50	$ 28.66	$139.16
FM 2007 GLT	239	394	28.21%	46.55%	22-3	35	4.4	29.3	79.4	$ 53.05	$ 126.83	$ 33.53	$160.36
DG 2570 B2RF	233	382	28.58%	46.71%	23-2	31	4.47	26.4	78.4	$ 44.85	$ 104.71	$ 32.43	$137.14
PHY 333 WRF	221	304	27.81%	38.16%	23-3	33	4.26	27.4	77.9	$ 46.85	$ 103.75	$ 25.83	$129.58
FM 1900 GLT	217	355	27.60%	45.13%	23-5	34	4.27	28	79.5	$ 47.65	$ 103.40	$ 30.16	$133.55
DP 1549 B2XF	215	313	29.67%	43.23%	23-1	33	4.47	27.2	77.6	$ 47.10	$ 101.30	$ 26.64	$127.94
DG 3635 B2XF	213	322	29.74%	45.02%	33-4	32	4.46	27.7	78.3	$ 45.15	$ 95.96	$ 27.35	$123.31
NG 5315 B2RF	192	290	29.87%	45.13%	23-1	34	4.47	28	80.9	$ 50.40	$ 96.82	$ 24.67	$121.49
ST 4747 GLB2	189	298	28.53%	44.92%	32-4	33	4.49	24.5	77.9	$ 46.40	$ 87.86	$ 25.34	$113.20
ST 4946 GLB2	183	297	23.25%	37.80%	23-3	32	4.44	28.5	79.6	$ 46.55	$ 85.09	$ 25.26	$110.36
PHY 339 WRF	127	205	27.75%	44.52%	22-2	34	4.16	29.9	80.5	$ 53.00	$ 67.56	$ 17.39	$84.95
NG 5007 B2XF	96	141	31.30%	46.00%	33-4	32	4.31	25.6	76.6	$ 43.55	$ 41.74	$ 11.98	$53.72
Average	209	317	28.76%	43.65%	-	33	4.40	27.75	78.99	$ 47.69	$ 99.54	$ 26.91	$126.45
Max.	254	394	32.33%	46.71%	-	35	4.63	29.90	80.90	$ 54.15	$ 135.48	$ 33.53	$167.92
Min.	96	141	23.25%	37.80%	-	31	4.16	24.50	76.60	$ 43.55	$ 41.74	$ 11.98	$53.72
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 FBRI, Lubbock.													
Gross Seed Return based on $210/ton				For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576									
$3.00/cwt ginning cost		n.t. - not tested that year											

Table 13. Howard Co. Irrigated- Brooks Cotton Variety Trial

				2015 Irrigated Cotton Variety Trial						Texas A&M AgriLife Extension					
Name of County:	Howard					Plant Date: May 20, 2015					Previous Crop: Cotton				
County ID Number:	227					Harvest Date: Oct. 19, 2015					Irrigation: SDI, 40", every row				
District number:	6					Design: 16 rows Unreplicated strips, 400 ft									
Year:	2015					Fertility:									
Producer:	Marty Brooks					Herbicide:									
					Fiber Quality						Lint	Seed	Total	2013	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint Yld	Lint Yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	Ranking	Ranking
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)	of 12 Tested	of 17 Tested
NG 5007 B2XF	852	1157	0.32	0.43	12-2	1.08	4.8	27.8	80.7	54.10	$461.04	$144.61	$605.65	n.t.	n.t.
NG 3406 B2XF	831	1184	0.30	0.43	12-4	1.09	4.8	29.6	83.1	53.35	$443.21	$147.96	$591.18	n.t.	n.t.
ST 4946 GLB2	740	1052	0.30	0.43	22-4	1.04	4.9	30.9	82.2	50.10	$370.84	$131.52	$502.36	1	11
PHY 417 WRF	733	901	0.33	0.41	21-4	1.01	4.6	28.3	80.9	49.45	$362.26	$112.57	$474.83	n.t.	n.t.
DG 2285 B2RF	717	953	0.31	0.41	22-3	1.02	3.9	31.4	81.5	51.20	$367.23	$119.11	$486.34	n.t.	5
NG 5315 B2RF	704	971	0.30	0.42	22-2	1.07	4.8	28.3	82.2	52.85	$372.16	$121.39	$493.54	n.t.	2
FM 2007 GLT	639	1008	0.27	0.42	11-4	1.11	4.8	31.1	81.0	55.45	$354.05	$126.02	$480.07	n.t.	n.t.
DG 3385 B2XF	601	814	0.31	0.42	12-2	1.05	5.0	29.3	81.7	50.25	$302.03	$101.74	$403.78	n.t.	n.t.
DP 1522 B2XF	506	717	0.30	0.42	22-6	1.03	4.9	30.2	82.3	48.15	$243.65	$89.67	$333.32	n.t.	n.t.
DP 1549 B2XF	503	693	0.31	0.42	21-3	1.03	4.9	29.9	80.5	51.40	$258.54	$86.57	$345.11	n.t.	n.t.
FM 2334 GLT*	-	-	0.29	0.42	11-4	1.13	4.8	31.4	82.7	55.50	-	-	-	n.t.	17
PHY 339 WRF*	-	-	0.27	0.42	21-3	1.05	3.6	29.4	79.8	52.70	-	-	-	n.t.	n.t.
FM 1830 GLT*	-	-	0.29	0.43	21-2	1.02	3.7	26.5	79.1	51.00	-	-	-	n.t.	4
DP 1219 B2RF*	-	-	0.28	0.44	12-3	1.00	4.3	26.8	78.4	48.20	-	-	-	n.t.	1
NG 1511 B2RF*	-	-	0.29	0.41	22-4	0.97	4.3	27.4	79.7	45.80	-	-	-	6	9
Average	683	945	0.30	0.42	-	1.05	4.5	29.2	81.1	$51.30	$353.50	$118.12	$471.62	882	974
Max.	852	1184	0.33	0.44	-	1.13	5.0	31.4	83.1	$55.50	$461.04	$147.96	$605.65	1086	1303
Min.	503	693	0.27	0.41	-	0.97	3.6	26.5	78.4	$45.80	$243.65	$86.57	$333.32	591	713
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.															
* Yield data was omitted because these varieties were in an irrigation station that received less water															
Gross Seed Return based on $250/ton				For Questions Contact: Dr. David Drake (325)653-4576							n.t. = variety not tested that year				

Table 14. Glasscock Co. Dryland- R. Halfmann Cotton Variety Trial

				2015 Dryland Cotton Variety Trial						Texas A&M AgriLife Extension				
Name of County:	Glasscock					Plant Date: May 27, 2015								
County ID Number:	173					Harvest Date: Oct 14, 2015								
District number:	6					Design: 12 rows, 2 x 1, 1155 ft, Strip Trial								
Year:	2015					Fertility: 0								
Producer:	Russell Halfmann					Herbicide: 0								
						Fiber Quality					Lint	Seed	Total	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint
	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)	17
PHY 499 WRF	395	563	30.11%	42.98%	32-3	34	4.51	30.80	81.80	$51.65	$203.84	$47.87	$251.71	2
PHY 495 W3RF	370	531	31.61%	45.41%	22-3	32	4.32	29.80	80.80	$49.15	$181.66	$45.12	$226.78	n.t
FM 2007 GLT	364	577	30.36%	48.19%	32-7	35	4.33	29.30	79.40	$45.65	$165.96	$49.05	$215.01	n.t
NG 5007 B2XF	353	506	32.88%	47.04%	22-1	33	4.43	26.20	79.00	$50.00	$176.73	$42.98	$219.71	n.t
PHY 444 WRF	349	493	30.10%	42.54%	22-1	35	3.98	28.40	81.80	$54.25	$189.39	$41.93	$231.32	n.t
DG 2570 B2RF	348	517	30.47%	45.29%	23-1	32	4.87	28.00	80.40	$47.55	$165.28	$43.92	$209.20	n.t
DP 1549 B2XF	348	493	30.27%	42.88%	22-2	33	4.50	27.90	78.30	$49.85	$173.57	$41.93	$215.50	n.t
DG 3635 B2XF(CT 15535)	335	483	30.90%	44.55%	22-3	32	4.86	27.60	77.30	$48.10	$161.15	$41.06	$202.21	n.t
ST 4946 GLB2	333	487	28.51%	41.63%	32-4	32	4.72	28.80	80.80	$47.65	$158.81	$41.37	$200.18	n.t
DP 1219 B2RF	329	508	26.47%	40.84%	22-3	34	4.31	30.40	79.10	$52.05	$171.45	$43.20	$214.65	6
FM 2484 B2F	312	480	29.52%	45.43%	22-2	36	4.11	29.50	80.30	$55.25	$172.25	$40.77	$213.02	1
PHY 333 WRF	307	456	29.10%	43.16%	32-5	35	4.45	29.10	80.90	$49.60	$152.41	$38.74	$191.15	n.t
NG 3406 B2XF	295	399	26.34%	35.59%	22-4	32	4.73	27.10	80.50	$48.85	$144.34	$33.94	$178.28	n.t
ST 4747 GLB2	283	442	25.41%	39.70%	32-4	32	4.83	23.60	75.60	$44.75	$126.50	$37.54	$164.04	n.t
FM 1830 GLT	280	376	32.27%	43.35%	21-2	34	4.67	28.60	80.50	$53.60	$150.06	$31.96	$182.02	7
FM 1900 GLT	267	403	30.12%	45.49%	32-4	34	4.67	28.00	80.00	$50.50	$134.82	$34.27	$169.09	n.t
PHY 339 WRF	263	383	27.59%	40.17%	32-4	34	4.39	29.70	80.50	$50.55	$132.83	$32.52	$165.35	n.t
DP 1522 B2XF	256	366	27.69%	39.59%	32-5	31	4.95	28.50	78.60	$41.25	$105.55	$31.09	$136.64	n.t
NG 5315 B2RF	250	364	28.50%	41.53%	22-3	33	4.62	28.00	81.10	$50.65	$126.57	$30.95	$157.52	n.t
Average	318	465	29.38%	42.91%	-	33	4.54	28.38	79.83	$49.52	$157.54	$39.49	$197.02	84
Max.	395	577	32.88%	48.19%	-	36	4.95	30.80	81.80	$55.25	$203.84	$49.05	$251.71	116
Min.	250	364	25.41%	35.59%	-	31	3.98	23.60	75.60	$41.25	$105.55	$30.95	$136.64	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 FBRI, Lubbock.														
Gross Seed Return based on $210/ton			For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576											
$3.00/cwt ginning cost		n.t. = variety not tested that year												

Table 15. Glasscock Co. Dryland- Hoelscher Cotton Variety Trial

				2015 Dryland Cotton Variety Trial						Texas A&M AgriLife Extension			
Name of County:	Glasscock					Plant Date: June 12, 2015							
County ID Number:	173					Harvest Date: Nov 11, 2015							
District number:	6					Design: 6 rows, 2x1 1 sd-7", 1114 ft, Strip Trial							
Year:	2015					Fertility:							
Producer:	Jerry Hoelscher					Herbicide:							
					Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)
NG 3406 B2XF	526	691	31.97%	41.99%	32-4	34	4.71	27.60	80.10	$50.50	$265.51	$72.51	$338.02
DP 1219 B2RF	499	722	27.38%	39.64%	32-4	34	4.44	29.70	78.30	$49.65	$247.73	$75.85	$323.58
PHY 333 WRF	440	639	27.94%	40.54%	42-6	34	4.50	29.00	80.90	$46.95	$206.63	$67.05	$273.68
DG 2570 B2RF	438	701	26.73%	42.77%	32-3	33	4.67	27.90	80.40	$49.80	$218.04	$73.57	$291.61
PHY 222 WRF	436	623	29.05%	41.53%	32-5	34	4.67	29.70	82.40	$49.00	$213.46	$65.39	$278.85
ST 4747 GLB2	428	696	26.89%	43.72%	41-7	34	4.44	24.90	78.60	$44.05	$188.48	$73.04	$261.52
DG 2355 B2RF	387	654	26.40%	44.61%	32-4	34	4.41	28.90	79.20	$49.75	$192.60	$68.69	$261.28
DP 1522 B2XF	371	530	29.16%	41.73%	42-6	34	4.75	28.60	80.40	$46.90	$173.82	$55.69	$229.50
FM 2007 GLT	363	585	25.78%	41.56%	31-5	36	4.15	29.50	81.10	$53.50	$194.14	$61.42	$255.56
FM 1900 GLT	325	503	22.45%	34.74%	42-7	35	4.05	28.50	80.30	$46.10	$149.86	$52.82	$202.67
NG 3306 B2RF	285	470	22.76%	37.60%	32-5	36	4.31	32.10	82.50	$50.30	$143.27	$49.40	$192.66
Average	409	619	26.96%	40.95%	-	34	4.46	28.76	80.38	$48.77	$199.41	$65.04	$264.45
Max.	526	722	31.97%	44.61%	-	36	4.75	32.10	82.50	$53.50	$265.51	$75.85	$338.02
Min.	285	470	22.45%	34.74%	-	33	4.05	24.90	78.30	$44.05	$143.27	$49.40	$192.66
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 $210/ton				For Questions Contact: Brad Easterling or Dr. David Drake (325)653-4576									
$3.00/cwt ginning cost													

Table 16. Howard Co. Dryland- Moates Cotton Variety Trial

				2015 Dryland Cotton Variety Trial						Texas A&M AgriLife Extension					
Name of County:	Howard					Plant Date: June 5, 2015									
County ID Number:	227					Harvest Date: Oct. 20, 2015									
District number:	6					Design: 605 ft, 16 rows, 36" spacing, Unreplicated strips									
Year:	2015					Fertility:									
Producer:	Mike Moates, Luther, TX					Herbicide: Treflan pre-plant									
					Fiber Quality						Lint	Seed	Total	2013	2014
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross	Lint yld	Lint yld
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return	Rank	Rank
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)	of 12 Tested	of 13 Tested
DP 1522 B2XF	499	660	0.33	0.44	22-4	1.05	4.64	28.5	80.9	$51.70	$258.07	$82.55	$340.62	n.t	n.t
DG 2285 BX2	453	590	0.31	0.41	22-4	1.08	4.39	28.9	81.5	$53.15	$240.54	$73.81	$314.35	11	8
NG 5007 B2XF	451	630	0.32	0.44	12-1	1.04	4.40	26.1	78.9	$49.85	$224.84	$78.74	$303.58	n.t	n.t
ST 4946 GLB2	449	697	0.27	0.43	11-3	1.13	4.07	30.4	80.1	$56.80	$254.80	$87.18	$341.98	3	1
NG 3406 B2XF	446	627	0.32	0.45	12-2	1.01	4.34	27.9	81.0	$49.25	$219.58	$78.42	$298.00	n.t	n.t
PHY 333 WRF	436	655	0.28	0.43	22-4	1.10	4.17	28.7	81.3	$53.30	$232.38	$81.90	$314.27	n.t	n.t
DP 1549 B2XF	429	587	0.30	0.42	22-3	1.05	4.36	28.2	79.3	$51.85	$222.20	$73.37	$295.57	n.t	n.t
FM 2007 GLT	422	694	0.27	0.44	21-5	1.16	3.92	30.8	81.8	$54.30	$229.24	$86.72	$315.97	n.t	n.y
FM 2484 B2F	417	605	0.31	0.45	11-2	1.11	4.15	29.9	80.0	$57.30	$238.68	$75.64	$314.32	8	13
DP 1219 B2RF	386	550	0.29	0.42	11-1	1.08	4.09	30.2	80.0	$56.40	$217.60	$68.79	$286.38	n.t	4
FM 2334 GLT	379	519	0.30	0.42	11-1	1.11	4.20	29.6	81.9	$57.30	$217.36	$64.90	$282.26	n.t	n.t
NG 5315 BX2	379	532	0.30	0.42	12-2	1.12	4.40	28.4	81.2	$55.05	$208.78	$66.51	$275.29	1	2
DG 3385 B2XF	368	538	0.29	0.42	22-2	1.06	4.48	28.3	82.0	$52.85	$194.67	$67.27	$261.93	n.t	n.t
Average	424	607	0.30	0.43	-	1.08	4.28	28.9	80.8	$53.78	$227.60	$75.83	$303.43	417	371
Max.	499	697	0.33	0.45	-	1.16	4.64	30.8	82.0	$57.30	$258.07	$87.18	$341.98	597	571
Min.	368	519	0.27	0.41	-	1.01	3.92	26.1	78.9	$49.25	$194.67	$64.90	$261.93	321	269
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: Dr. David Drake (325)653-4576							n.t. = variety not tested that year				

Table 17. Howard Co. Dryland- Brooks Cotton Seeding Rate Study

				2015 Cotton Dryland Seeding Rate Study						Texas A&M AgriLife Extension			
Name of County:	Howard					Plant Date: June 2, 2015							
County ID Number:	227					Harvest Date: Nov. 23, 2015 Row length 2521, Row width 40, and 16 Rows harvested							
District number:	6					Design: Complete Block Design replicated strips							
Year:	2015					Fertility:							
Producer:	Marty Brooks					Herbicide:							
GPS Location:	32.319568 N -101.31285 W				Fiber Quality						Lint	Seed	Total
	Yield Per Acre					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color-	Length		Strength		Loan	Return	Return	Return
Variety/Treatment	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	($/acre)	($/acre)	($/acre)
FM 2484 10"	227	343	0.30	0.45	41-4	1.09	4.6	29.00	80.10	$55.33	$125.39	$42.86	$168.26
FM 2484 12"	223	330	0.31	0.46	41-3*	1.07	4.6	27.65	79.70	$51.95	$115.96	$41.29	$157.26
FM 2484 6"	222	338	0.29	0.44	31-3	1.07	4.5	28.40	79.40	$52.10	$115.85	$42.26	$158.11
FM 2484 8"	193	290	0.30	0.45	31-4*	1.06	4.5	27.60	80.00	$50.83	$98.16	$36.29	$134.45
Average	216.3	325.4	0.298	0.449	-	1.071	4.51	28.163	79.800	$52.55	$113.84	$40.68	$154.52
P>(F)6	0.099	0.193	0.119	0.657	-	0.078	0.500	0.012	0.326	0.044	----	Max/Min	----
LSD (P=0.05)	30	NS	NS	NS	-	NS	NS	0.592	NS	$2.73	$125.39	$42.86	$168.26
CV %	4.4	6.0	1.8	2.9	-	0.9	1.5	0.7	0.4	1.6	$98.16	$36.29	$134.45
					Agronomics								
	Yield Per Acre				seeding				% First				
	In Pounds		% Turnout		rate as	Plant	Bolls/	Bolls/	Position				
Variety/Treatment	Lint	Seed	Lint	Seed	planted	Population	Foot	Plant	Bolls				
FM 2484 6"	222	338	0.29	0.44	13068	23750	7.44	3.81	75.4				
FM 2484 8"	193	290	0.30	0.45	15682	18688							
FM 2484 10"	227	343	0.30	0.45	19602	12813							
FM 2484 12"	223	330	0.31	0.46	26136	11063	6.11	6.11	42.5				
Average	216.3	325.4	0.298	0.449	18622	16578	6.778	4.958	58.92				
P>(F)6	0.099	0.193	0.119	0.657		0.004	0.295	0.084	0.088				
LSD (P=0.05)	30	NS	0.017	NS		3385.8	NS	NS	NS				
CV %	4.4	6.0	1.8	2.9		6.4	0.9	0.9	1.5				
Values that are above average or statistically grouped together in the highest category 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: Dr. David Drake (325)653-4576									

Table 18. Tom Green Co. Irrigated- Block Pima Cotton Variety Trial

			2015 Irrigated Cotton Variety Trial							Texas A&M AgriLife Extension				
Name of County:	Tom Green					Plant Date: June 22, 2015				David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230				
County ID Number:	451					Harvest Date: Nov 9 - 13, 2015								
District number:	7					Design: 40" centers, 4 rows x 36 ft. long, 4 RCB replications, One row harvested								
Year:	2015					Fertility: Pre-plant soil test 0-6" (N-P-K-S) 68-47-714-71 ppm 6-18" (N-P-K-S) 17-9-429-97 ppm								
Producer:	Michael Block					Herbicide: Glyphosate Applications								
GPS location:	31° 26' 1' N 100° 19' 19" W						Fiber Quality[2]						Lint	Seed
	Yield Per Acre[1]		Turnout				Color	Fiber				CCC	Gross	Gross
	In Pounds		Stripped		Picked		Grade	Length		Strength		Loan	Return	Return[5]
Variety	Lint	Seed	Lint	Seed	Lint	Seed	Leaf[3]	(staple)	Mic	(gram/tex)	Uniformity	Value[4]	($/acre)	($/acre)
DP 348 RF PIMA	542	960	0.31	0.54	0.31	0.54	3-7,4-5	1.3	3.3	46.45	85.6	$59.53	$322.41	$120.05
DP 358 RF PIMA	538	995	0.29	0.54	0.29	0.54	3-5,3-8	1.3	3.5	46.6	85.3	$70.93	$381.84	$124.41
PHY 805 RF PIMA	516	867	0.31	0.53	0.31	0.53	3-8	1.3	3.4	46.55	83.25	$68.28	$352.24	$108.37
PHY 811 RF PIMA	478	911	0.28	0.54	0.28	0.54	3-6,3-8	1.3	3.0	45.85	83.55	$60.95	$291.41	$113.85
Average	518	933	0.30	0.54	0.30	0.54	-	1.3	3.3	46.4	84.4	$64.92	$336.97	$116.67
P>(F)[6]	0.719	0.694	0.143	0.096	0.143	0.096	-	0.018	0.202	0.889	0.005	0.292	----	Max/Min
LSD (P=0.05)[7]	NS	NS	0.03	0.01	0.03	0.01	-	0.042	NS	NS	1.14	$15.32	$381.84	$124.41
CV %	16.72	17.16	4.02	0.97	4.02	0.97	-	1.3	6.69	2.34	0.55	9.64	$291.41	$108.37

Acknowledgements of assistance from Michael Block, Producer; Josh Blanek, Justin Klinksiek, Johnathan Ramirez, Alicia Theriot, David Becker, Morgan Elmore, Zack Altman, Caleb Drake, Kevin Ham 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. Abreviations include: All-Tex (ATX), Bayer Crop Science Exp. Variety (BX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), Dyna-Grow Variety (CT), ExtendFlex (XF), FiberMax (FM), Fluopyram seed trmt (Fluopyram), Glytol (G), Liberty Link (L), NexGen (NG), Phytogen (PHY), Phytogen Exp. Variety (PX) Poncho Votivo seed trmt (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 conduced 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 the best is shown and it is marked with (*).

[4] CCC loan value based on cotton stored at ELS warehouses. Base $79.77/cwt

[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.

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

Table 19. Tom Green Co. Irrigated- Block Cotton Seed Treatment Trial

		2015 Fluopyram‡ Seed Treatment Irrigated Cotton Variety Trial			Texas A&M AgriLife Extension								
Name of County:	Tom Green			Plant Date: June 22, 2015				David Drake: drdrake@ag.tamu.edu 325-653-4576 ext 230					
County ID Number:	451			Harvest Date: Nov 9 - 13, 2015									
District number:	7			Design: 40" centers, 4 rows x 36 ft. long, 4 RCB replications, One row harvested									
Year:	2015			Fertility: Pre-plant soil test 0-6" (N-P-K-S) 68-47-714-71 ppm 6-18" (N-P-K-S) 17-9-429-97 ppm									
Producer:	Michael Block			Herbicide: Glyphosate Applications									
GPS location:	31^0 26' 1" N 100^0 19' 19" W				Fiber Quality[2]						Lint	Seed	Total
	Yield Per Acre[1]					Fiber				CCC	Gross	Gross	Gross
	In Pounds		% Turnout		Color	Length		Strength		Loan	Return	Return[5]	Return
Variety	Lint	Seed	Lint	Seed	Leaf[3]	(staple)	Mic	(gram/tex)	Uniformity	Value[4]	($/acre)	($/acre)	($/acre)
ST 4747-FL Stripped	1043	1569	28.86%	43.56%	31-5*	1.09	3.9	29.27	81.97	$51.90	$541.21	$196.13	$737.33
ST 4747 GLB2 Stripped	802	1358	26.85%	49.24%	41-7*	1.09	3.5	27.10	79.93	$50.33	$403.81	$169.76	$573.57
Average	923	1464	27.86%	46.40%	-	1.09	3.7	28.2	81.0	$51.12	473	183	655
P>(F)6	0.196	0.416	0.454	0.149	-	1.000	0.286	0.021	0.168	0.615	----	Max/Min	----
LSD (P=0.05)	462	714	22.05%	17.19%	-	0.09	0.98	1.37	4.13	$11.41	$541.21	$196.13	$737.33
CV %	22.2	21.7	7.6	3.6	-	2.3	7.6	1.4	1.5	6.4	$403.81	$169.76	$573.57
Replanted, Picked, unreplicated unless specified													
ST 4747-FL Picked	914	1332	38.01%	56.40%	31-4	1.060	3.22	26.80	78.50	$48.30	$441.39	$166.49	$607.88
ST 4747 GLB2 Picked	665	1004	34.19%	58.56%	21-2	1.070	3.25	26.35	79.50	$51.28	$341.13	$125.51	$466.64
Average	789.57	1168.01	36.10%	57.48%	-	1.07	3.23	26.58	79.00	$49.79	391.26	146.00	537.26
P>(F)[6]	-	-	0.405	0.734	-	-	-	-	-	-	----	Max/Min	----
LSD (P=0.05)[7]	-	-	35.83%	61.84%	-	-	-	-	-	-	$441.39	$114.23	$607.88
CV %	-	-	9.6	10.4	-	-	-	-	-	-	$514.85	$114.23	$466.64

‡ Fluopyram (FL) Seed Treatment = Fluopyram (0.25 mg ai/seed) + Gaucho (0.375 mg ai/seed)

Acknowledgements of assistance from Michael Block, Producer; Josh Blanek, Justin Klinksiek, Johnathan Ramirez, Alicia Theriot, David Becker, Morgan Elmore, Zack Altman, Caleb Drake, Kevin Ham 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. Abreviations include: All-Tex (ATX), Bayer Crop Science Exp. Variety (BX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), Dyna-Grow Variety (CT), ExtendFlex (XF), FiberMax (FM), Fluopyram seed trmt (Fluopyram), Glytol (G), Liberty Link (L), NexGen (NG), Phytogen (PHY), Phytogen Exp. Variety (PX) Poncho Votivo seed trmt (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 conduced 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 the best is shown and it is marked with (*).

[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.

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

Table 20. Estimated 2015 Per Acre Cost and Returns for Stacked Gene, Drip Irrigated Cotton, West Central Texas, Extension District-7

	Crop Acres	400				
REVENUE		Quantity	Units	$/Unit	Total	Enterprise Total
	Cotton Lint	1,326.00	Pound	$0.56	$741.90	$296,758.80
	Cotton Seed	0.96	Ton	$175.00	$168.00	$67,200.00
Total Revenue					$909.90	$363,958.80
VARIABLE COSTS		Quantity	Units	$/Unit	Total	Enterprise Total
Production Costs						
	Custom					
	Apply Harvest Aid	2	Acre	$7.00	$14.00	$5,600.00
	Custom Strip	1326	Pounds	$0.09	$119.34	$47,736.00
	Gin and Haul	47.36	CWT	$2.50	$118.40	$47,360.00
	Custom Bag/Tie	2.41	Bales	$12.00	$28.92	$11,568.00
	Soil Test-Irrigated	1	Each	$0.50	$0.50	$200.00
	Fertilizer					
	Nitrogen Dry	11	Pounds	$0.55	$6.10	$2,438.92
	Phosphate	58	Pounds	$0.42	$24.17	$9,667.44
	Nitrogen N32	126	Pounds	$0.55	$68.91	$27,563.76
	Herbicide					
	Glyphosate	96	Ounce	$0.12	$11.06	$4,423.68
	2-4D Amine 4	1.25	Pint	$1.94	$2.42	$968.75
	Mepiquat Chloride	33	Ounce	$0.08	$2.58	$1,030.92
	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	$1.50	$1.50	$600.00
	Intruder 70wsp	1	Ounce	$9.45	$9.45	$3,780.00
	Seed					
	Seed Cotton	38.5	Thousand	$1.40	$53.90	$21,560.00
	Miscellaneous					
	Irr Cotton-RP 70% SE	1	Acre	$26.67	$26.67	$10,668.00
	IRR Cotton STAX	1	Acre	$11.86	$11.86	$4,744.00
	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	$0.25	$7.00	$2,800.00
	Fungicides					
	Topguard-2lb	24	Ounce	$1.37	$32.81	$13,125.12
	Irrigation					
	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	$2.75	$20.35	$8,140.00
	Gasoline					
	Pickup/General Use Equipment	1	Acre	$1.75	$1.75	$699.30
	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%	$7.29	$2,916.56
Total Variable Costs					$722.95	$289,179.89
Planned Returns Above Variable Costs:					$186.95	$74,778.91
	Breakeven Price to Cover Variable Costs			$0.42	Pound	
FIXED COSTS		Quantity	Units	$/Unit	Total	Enterprise 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
	Rent-Irrigated Crop	1	Acre	$70.00	$70.00	$28,000.00
Total Fixed Costs					$217.86	$87,142.72
Total Specified Costs					$940.81	$376,322.62
Returns Above Specified Costs					($30.91)	($12,363.82)
	Breakeven Price to Cover Total Costs			$0.58	Pound	

Table 21. Estimated 2015 Per Acre Cost and Returns for Stacked Gene, Dryland Cotton, West Central Texas, Extension District-7

	Crop Acres	2700				
REVENUE		Quantity	Units	$/Unit	Total	Enterprise Total
	Cotton Lint	350.00	Pound	$0.56	$195.83	$528,727.50
	Cotton Seed	0.25	Ton	$175.00	$43.75	$118,125.00
Total Revenue					$239.58	$646,852.50
VARIABLE COSTS		Quantity	Units	$/Unit	Total	Enterprise Total
Production Costs						
	Custom					
		Custom Strip	350	Pounds	$0.09	$31.50	$85,050.00
		Gin and Haul	12.5	CWT	$2.50	$31.25	$84,375.00
		Custom Bag/Tie	0.7	Bales	$12.00	$8.40	$22,680.00
		Soil Test-Dryland	1	Each	$0.25	$0.25	$675.00
	Fertilizer					
		Phosphate	19	Pounds	$0.42	$7.92	$21,376.71
		N at Planting	19	Pounds	$0.62	$11.78	$31,806.00
	Herbicide					
		Glyphosate	160	Ounce	$0.12	$18.43	$49,766.40
		2-4D Amine 4	1.25	Pint	$1.94	$2.42	$6,539.06
		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	$1.50	$1.50	$4,050.00
	Seed					
		Seed Cotton	29	Thousand	$1.40	$40.60	$109,620.00
	Miscellaneous					
		Dry Cotton RP 70% YA, SE	1	Acre	$15.57	$15.57	$42,039.00
		Dry Cotton Stax	1	Acre	$5.82	$5.82	$15,714.00
	Other Chemicals					
		Firestorm	28	Ounce	$0.25	$7.00	$18,900.00
	Machinery Labor					
		Tractors/Self-Propelled	0.98	Hour	$12.00	$11.76	$31,752.00
	Diesel Fuel					
		Tractors/Self-Propelled	4.6	Gallon	$2.75	$12.65	$34,155.00
	Gasoline					
		Pickup/General Use Equipment	1	Acre	$1.67	$1.67	$4,506.60
	Repairs & Maintenance					
		Pickup/General Use Equipment	1	Acre	$0.78	$0.78	$2,117.00
		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%	$2.85	$7,694.96
Total Variable Costs						$239.47	$646,579.93
Planned Returns Above Variable Costs:						$0.10	$272.57
	Breakeven Price to Cover Variable Costs				$0.56	Pound	
FIXED COSTS		Quantity	Units	$/Unit	Total	Enterprise Total
	Machinery Depreciation					
		Pickup/General Use Equipment	1	Acre	$1.66	$1.66	$4,489.20
		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
		Tractors/Self-Propelled	$160.51	Dollars	3.75%	$6.02	$16,251.83
		Implements	$25.63	Dollars	3.75%	$0.96	$2,595.27
	Rent-Dryland Crop		1	Acre	$35.00	$35.00	$94,500.00
Total Fixed Costs						$60.95	$164,573.57
Total Specified Costs						$300.43	$811,153.50
Returns Above Specified Costs						($60.85)	($164,301.00)
	Breakeven Price to Cover Total Costs				$0.73	Pound	

Table 22. Estimated 2015 Per Acre Cost and Returns for Stacked Gene, Drip Irrigated Cotton, Far West Texas, Extension District-6

	Crop Acres	122				
REVENUE		Quantity	Units	$/Unit	Total	Enterprise Total
	Cotton Lint	1,500.00	Pound	$0.56	$840.00	$102,480.00
	Cotton Seed	1.20	Ton	$175.00	$210.00	$25,620.00
Total Revenue					$1,050.00	$128,100.00
VARIABLE COSTS		Quantity	Units	$/Unit	Total	Enterprise Total
Production Costs						
	Seed					
		Cotton Seed BIIRRF	40	Thousand	$1.45	$58.00	$7,076.00
	Fertilizer					
		Nitrogen - Dry	11	Pound	$0.55	$6.10	$743.93
		Phosphate	90	Pound	$0.42	$37.50	$4,575.00
		N-32	140	Pound	$0.55	$76.55	$9,339.34
	Custom					
		Custom Spray	2	Acre	$4.00	$8.00	$976.00
		Bag, Tie	3	Bale	$15.00	$45.00	$5,490.00
		Gin and Haul	53.57	CWT	$2.50	$133.93	$16,338.85
		Soil Test-Irrigated	1	Acre	$0.50	$0.50	$61.00
	Miscellaneous					
		IRR Cotton RP 70% ent, SE, Glas	1	Acre	$31.16	$31.16	$3,801.52
	Herbicide					
		Glyphosate Ounce	34	Ounce	$0.12	$3.92	$477.85
		Trifluralin Pint	1.5	Pint	$2.81	$4.22	$514.69
	Other Chemicals					
		Mepiquat Chloride-PGR	16	Ounce	$0.08	$1.25	$152.50
	Cotton Harvest					
		Ethephon 6 Pint	1.5	Pint	$2.75	$4.13	$503.25
		Adios	5	Ounce	$1.00	$5.00	$610.00
		Firestorm	28	Ounce	$0.25	$7.00	$854.00
	Irrigation					
		Energy Cost	17.99	AcreInch	$11.55	$207.84	$25,356.30
		Irrigation Labor	3.04	Hour	$11.00	$33.43	$4,078.87
	Machinery Labor					
		Tractors/Self-Propelled	2.53	Hour	$12.00	$30.36	$3,703.92
	Diesel Fuel					
		Tractors/Self-Propelled	15.6	Gallon	$2.15	$33.54	$4,091.88
	Gasoline					
		Pickup/General Use Equipment	1	Acre	$5.87	$5.87	$716.13
	Repairs & Maintenance					
		Pickup/General Use Equipment	1	Acre	$1.73	$1.73	$210.92
		Irrigation Equipment	1	Acre	$9.68	$9.68	$1,181.45
		Tractors/Self-Propelled	1	Acre	$24.87	$24.87	$3,034.01
		Implements	1	Acre	$16.80	$16.80	$2,049.42
	Interest on Credit Line				6.50%	$14.18	$1,730.16
Total Variable Costs						$800.55	$97,667.00
Planned Returns Above Variable Costs:						$249.45	$30,433.00
	Breakeven Price to Cover Variable Costs				$0.39	Pound	
FIXED COSTS		Quantity	Units	$/Unit	Total	Enterprise Total
	Machinery Depreciation					
		Pickup/General Use Equipment	1	Acre	$3.62	$3.62	$441.45
		Irrigation Equipment	1	Acre	$95.92	$95.92	$11,702.20
		Tractors/Self-Propelled	1	Acre	$31.18	$31.18	$3,804.38
		Implements	1	Acre	$20.83	$20.83	$2,541.53
	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	$396.15	Dollars	6.50%	$25.75	$3,141.46
		Implements	$202.93	Dollars	6.50%	$13.19	$1,609.26
	Lease value - Drip		1	Acre	$50.00	$50.00	$6,100.00
Total Fixed Costs						$369.06	$45,025.61
Total Specified Costs						$1,169.61	$142,692.61
Returns Above Specifiied Costs						($119.61)	($14,592.61)
	Breakeven Price to Cover Total Costs				$0.64	Pound	

Table 23. Estimated 2015 Per Acre Cost and Returns for Stacked Gene, Dryland Cotton, Far West Texas, Extension District-6

Crop Acres	122				
REVENUE	Quantity	Units	$/Unit	Total	Enterprise Total
Cotton Lint	450.00	Pound	$0.56	$252.00	$30,744.00
Cotton Seed	0.36	Ton	$175.00	$63.00	$7,686.00
Total Revenue				$315.00	$38,430.00
VARIABLE COSTS	Quantity	Units	$/Unit	Total	Enterprise Total
Production Costs					
Seed					
Cotton Seed BIIRRF	34	Thousand	$1.45	$49.30	$6,014.60
Fertilizer					
Nitrogen - Dry	45	Pound	$0.55	$24.95	$3,043.37
Phosphate	27	Pound	$0.42	$11.25	$1,372.50
Custom					
Custom Spray	1	Acre	$4.00	$4.00	$488.00
Bag, Tie	0.9	Bale	$15.00	$13.50	$1,647.00
Gin and Haul	14.28	CWT	$2.50	$35.70	$4,355.40
Soil Test-Dryland	1	Acre	$0.25	$0.25	$30.50
Miscellaneous					
NI Cotton 70%, ent, SE Classcock	1	Acre	$17.95	$17.95	$2,189.90
Herbicide					
Trifluralin Pint	2	Pint	$2.81	$5.63	$686.25
Glyphosate Ounce	64	Ounce	$0.12	$7.37	$899.48
Cotton Harvest					
Firestorm	28	Ounce	$0.25	$7.00	$854.00
Machinery Labor					
Tractors/Self-Propelled	2	Hour	$12.00	$24.00	$2,928.00
Diesel Fuel					
Tractors/Self-Propelled	14.07	Gallon	$2.15	$30.25	$3,690.56
Gasoline					
Pickup/General Use Equipment	1	Acre	$5.87	$5.87	$716.13
Repairs & Maintenance					
Pickup/General Use Equipment	1	Acre	$1.73	$1.73	$210.92
Tractors/Self-Propelled	1	Acre	$21.68	$21.68	$2,644.45
Implements	1	Acre	$14.06	$14.06	$1,715.91
Interest on Credit Line			6.50%	$5.40	$658.78
Total Variable Costs				$279.88	$34,145.75
Planned Returns Above Variable Costs:				$35.12	$4,284.25
Breakeven Price to Cover Variable Costs			$0.48	Pound	
FIXED COSTS	Quantity	Units	$/Unit	Total	Enterprise Total
Machinery Depreciation					
Pickup/General Use Equipment	1	Acre	$3.62	$3.62	$441.45
Tractors/Self-Propelled	1	Acre	$28.68	$28.68	$3,499.44
Implements	1	Acre	$17.93	$17.93	$2,187.74
Equipment Investment					
Pickup/General Use Equipment	$40.20	Dollars	6.50%	$2.61	$318.83
Tractors/Self-Propelled	$368.07	Dollars	6.50%	$23.92	$2,918.77
Implements	$180.38	Dollars	6.50%	$11.72	$1,430.40
West Texas Dryland	1	Acre	$15.00	$15.00	$1,830.00
Total Fixed Costs				$103.50	$12,626.63
Total Specified Costs				$383.38	$46,772.37
Returns Above Specifiied Costs				($68.38)	($8,342.37)
Breakeven Price to Cover Total Costs			$0.71	Pound	

Table 24. 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.

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

Percent Affected by Root Rot	Expected Cotton Lint Yield (Lbs/Ac) without Root Rot						
	235	385	535	685	835	985	1135
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