

AGRONOMIC COTTON VARIETY TRIALS

THE SOUTHERN ROLLING PLAINS and PERMIAN BASIN OF TEXAS – 2013



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2013 HIGHLIGHTS

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

From the latest data available, transgenic varieties accounted for 99% of the states' acreage in 2013. Several transgenic traits are available in different cotton varieties providing herbicide and insect resistance. In Extension Districts 6 and 7, glyphosate resistant varieties are planted on essentially all acreage, but varieties with both glyphosate and insect resistant traits are not planted on all dryland acreage. According to the USDA-Agricultural Marketing Service "Cotton Varieties Planted 2013 Crop" survey, the estimated percentage of upland cotton planted to specific brands in Texas are as follows: Alltex had 2.5%, Americot/NexGen had 20%, Bayer CropScience – FiberMax had 39%, Bayer CropScience – Stoneville had 2.5%, Croplan Genetics had 0.5%, Delta Pine had 16%, Dyna-Grow had 1.4%, and Phytogen had 7%.

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

Twelve large plot unreplicated demonstration, two small plot replicated research, and one large plot replicated research trials were planted in 2013. Two demonstration trials in Martin County were lost; one due to drought and the other to hail. Harvested trials are summarized by location in Table 1.

Table 1 provides a list of planting and harvest dates, row spacing and plot area for each location, and indicates irrigated or dryland. Tables 2 and 3 show numerical rankings based upon gross

revenue and lint yield for the variety trials across all locations separated into Extension District. Table 4 summarizes agronomic characteristics for the 39 varieties and experimental varieties tested in the San Angelo Uniform Irrigated Small Plot Variety Trial. Variety trials were planted in the following Extension District 7 Counties: Jones (Table 5), Nolan (Table 6), and Fisher (Table 7), Tom Green (Tables 8-11). Variety trials were planted in the following Extension District 6 Counties: Glasscock (Tables 12 & 13), Upton (Tables 14 & 15), Howard (Tables 16 & 17), and Martin (Not Harvested). All harvested locations had cotton grab samples that were ginned in Lubbock with the research gin with one lint cleaner. Fiber quality was determined by sending on or more samples per variety to the Texas Tech Biopolymer Laboratory for HVI analysis.

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



First 40 Days – Fruiting to Finish

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

Variety Selection

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

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

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

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

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

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

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

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

Select the Highest Quality Seed for Planting

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

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

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

Figure 1. Cotton Variety Selection Guide

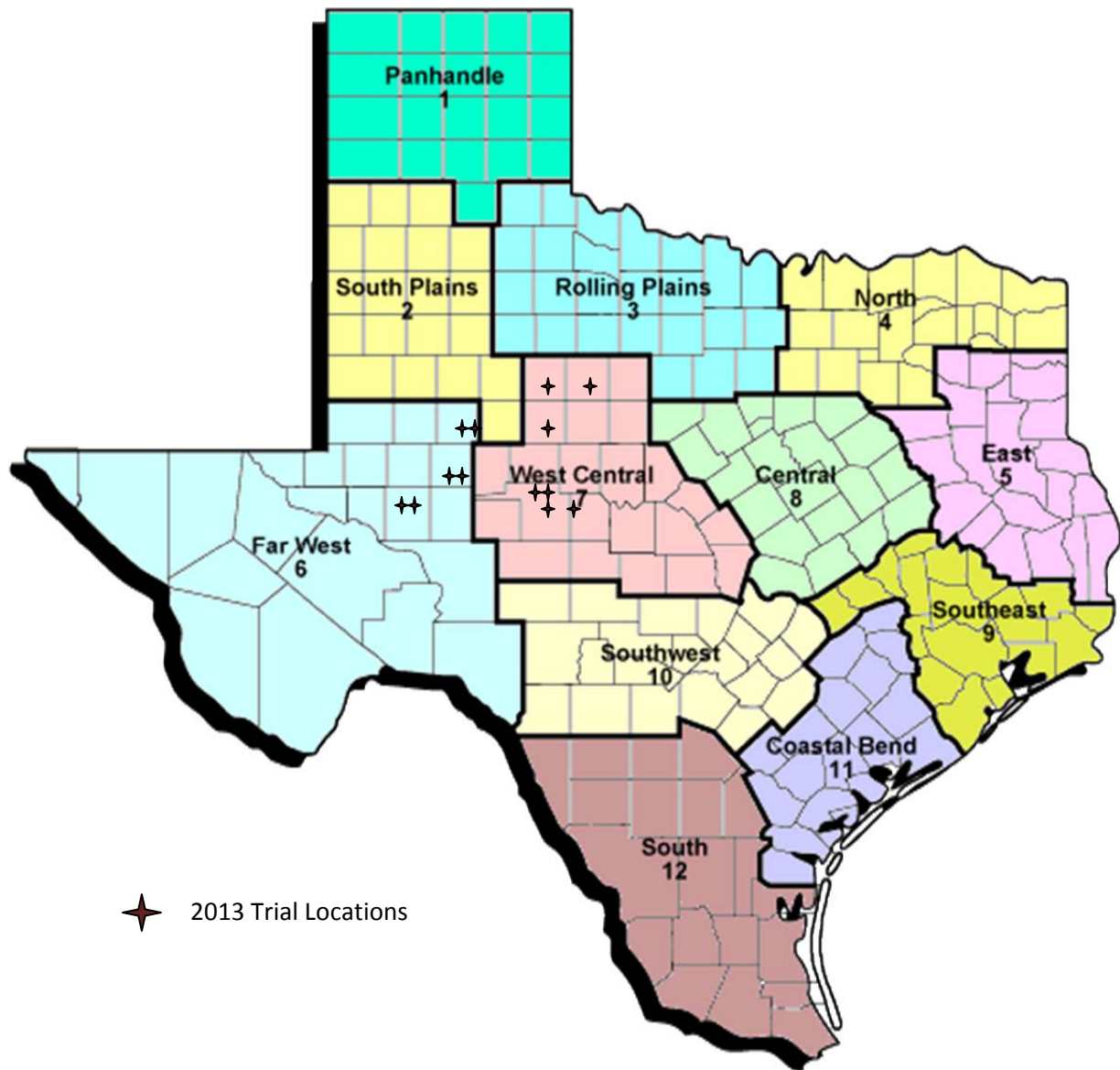


Figure 2. Texas A&M AgriLife Extension Districts with marked cotton variety trial locations by County.

Table 1.

A. Trial, cooperators, planting date, harvest date, row spacing, plot dimensions and area of **2013**
Texas A&M AgriLife Extension **District 7** variety trials.

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

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

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

Table 2.

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

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

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

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

Table 3.

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

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

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

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

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

| 2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial | | | | | | | | | | |
|---|----------------|--------|--------------|-------------|-----------------------|-------------------------|-----------------------|------------------|-------------|-----------------------|
| | | | | | 1= poor 10= excellent | | 1= poor 10= excellent | | | |
| Variety | Seedling Vigor | Height | 1st F Branch | Total Nodes | NAWF at Sept. 1 | Stay Green rating Oct 2 | %Open Boll 3-Oct | Storm Resistance | Boll Weight | 100 Fuzzy Seed Weight |
| FM 2484 B2F | 5.5 | 24.8 | 6.9 | 16.0 | 0.5 | 9 | 29 | | 4.60 | 9.54 |
| FM 2484 B2F HSd* | 6 | 27.1 | 5.3 | 17.3 | 1.0 | 9 | 17 | 3 | 4.77 | 9.76 |
| FM 1740 B2F | 5 | 25.8 | 5.8 | 17.4 | 1.9 | | 61 | 7 | 5.19 | 9.81 |
| FM 9170 B2F | 5.5 | 27.8 | 5.0 | 17.1 | 1.0 | 9 | 23 | 4 | 4.90 | 9.42 |
| FM 2989 GLB2 | 6 | 26.3 | 6.0 | 17.8 | 1.0 | | 32 | 2 | 5.04 | 10.29 |
| FM 1944 GLB2 | 6 | 29.0 | 6.5 | 17.5 | 1.3 | 8 | 35 | 2 | 5.42 | 10.41 |
| BX 1445 GLB2 | 5.5 | 30.0 | 5.0 | 17.8 | 1.5 | 7 | 29 | 4 | 5.25 | 8.63 |
| ST 6448 GLB2 | 6 | 25.3 | 6.0 | 14.0 | 2.3 | | 18 | 2 | 4.92 | 10.53 |
| BX 1347 GLB2 | 6 | 27.0 | 5.4 | 16.4 | 1.3 | 9 | 56 | 4 | 5.27 | 9.79 |
| ST 4946 GLB2 | 6.5 | 30.3 | 5.6 | 16.9 | 1.1 | 8 | 41 | 4 | 5.07 | 9.72 |
| ST 5458 B2RF | 6 | 27.3 | 5.6 | 16.6 | 1.3 | 7 | 53 | 3 | 5.19 | 9.75 |
| DP 1219 B2RF | 5.5 | 29.3 | 5.8 | 17.5 | 1.3 | 9 | 27 | 1 | 4.55 | 8.27 |
| DP 1044 B2RF | 5 | 26.8 | 6.5 | 16.9 | 0.9 | 7 | 32 | 4 | 4.50 | 8.36 |
| DP 1359 B2RF | 5.5 | 30.5 | 6.0 | 18.1 | 1.4 | 10 | 28 | 2 | 4.80 | 7.75 |
| DP 12R249 | 5.5 | 30.9 | 5.6 | 17.6 | 1.6 | 9 | 23 | 3 | 4.65 | 7.86 |
| DP 12R242 | 4.5 | 30.8 | 5.4 | 16.6 | 1.4 | 8 | 33 | | 4.66 | 8.07 |
| DP 1321 B2RF | 6 | 28.2 | 5.4 | 17.3 | 0.8 | 5 | 77 | 1 | 4.76 | 9.35 |
| AM1511 B2RF | 6 | 25.7 | 6.3 | 16.3 | 1.1 | 7 | 55 | 3 | 5.14 | 9.53 |
| PHY 333 WRF | 6 | 27.3 | 5.1 | 16.0 | 0.8 | 7 | 56 | 1 | 4.90 | 9.68 |
| PHY 499 WRF | 6 | 28.4 | 6.5 | 17.5 | 1.6 | 8 | 41 | 3 | 4.72 | 9.51 |
| PHY 367 WRF | 6 | 28.6 | 7.0 | 17.4 | 0.8 | 7 | 43 | 2 | 4.56 | 8.92 |
| PH 339 WRF | 6 | 28.8 | 5.8 | 17.6 | 1.3 | 7 | 82 | 3 | 4.72 | 9.43 |
| PHY 375 WRF | 5.5 | 30.4 | 6.5 | 18.3 | 1.8 | 4 | 60 | 3 | 4.78 | 9.51 |
| Continued on next page | | | | | | | | | | |

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

Southern Rolling Plains, D7

Table 5.

| | | | | | 2013 Dryland Cotton Variety Trial | | | | | Texas A&M AgriLife Extension | | | | |
|--|-------------|-----------|------|------|---|----------|------|------------|------------|------------------------------|-----------|-----------|-----------|--------------|
| Name of County: | Jones | | | | Plant Date: June 17, 2013 | | | | | | | | | |
| County ID Number: | 253 | | | | Harvest Date: Dec. 28, 2013 | | | | | | | | | |
| District number: | 7 | | | | Design: 16 rows, 2,800 ft, 30" spacing, 2X1, Unreplicated | | | | | | | | | |
| Year: | 2013 | | | | Fertility: | | | | | | | | | |
| Producer: | Larry Lytle | | | | Herbicide: | | | | | | | | | |
| | | | | | Fiber Quality | | | | | Lint | Seed | Total | 2012* | |
| Yield Per Acre | | | | | Fiber | | | | | CCC | Gross | Gross | Gross | Lint yld |
| In Pounds | | % Turnout | | | Color- | Length | | Strength | | Loan | Return | Return | Return | ranking |
| Variety | Lint | Seed | Lint | Seed | Leaf | (staple) | Mic | (gram/tex) | Uniformity | Value | (\$/acre) | (\$/acre) | (\$/acre) | of 13 tested |
| DP 1359 B2 RF | 503 | 633 | 0.40 | 0.51 | 31-1 | 1.05 | 4.7 | 30.1 | 80.9 | \$53.90 | \$271.11 | \$94.95 | \$366.05 | n.t. |
| NG 1511 B2 RF | 396 | 513 | 0.39 | 0.51 | 31-2 | 1.00 | 4.7 | 30.4 | 80.1 | \$50.40 | \$199.33 | \$76.99 | \$276.32 | 1 |
| DP 1044 B2 RF | 371 | 551 | 0.35 | 0.52 | 42-1 | 1.10 | 4.1 | 31.1 | 81.6 | \$51.60 | \$191.42 | \$82.63 | \$274.05 | 4 |
| PHY 367 WRF | 346 | 484 | 0.38 | 0.53 | 31-1 | 1.09 | 4.5 | 28.5 | 80.6 | \$55.70 | \$192.96 | \$72.54 | \$265.50 | 5 |
| PHY 499 WRF | 363 | 471 | 0.38 | 0.49 | 31-1 | 1.04 | 5.0 | 31.5 | 82.4 | \$52.30 | \$190.08 | \$70.72 | \$260.80 | 3 |
| DP 1219 B2 RF | 330 | 496 | 0.35 | 0.53 | 22-1 | 1.13 | 4.3 | 31.6 | 81.5 | \$55.00 | \$181.77 | \$74.36 | \$256.13 | 2 |
| FM 2989 GL B2 | 331 | 476 | 0.36 | 0.52 | 31-1 | 1.05 | 4.5 | 27.7 | 80.1 | \$53.60 | \$177.39 | \$71.46 | \$248.85 | 12 |
| DP 1321 B2RF | 331 | 477 | 0.36 | 0.52 | 23-1 | 1.14 | 4.3 | 34.9 | 82.4 | \$51.85 | \$171.50 | \$71.48 | \$242.97 | n.t. |
| ST 4946 GL B2 | 310 | 434 | 0.36 | 0.50 | 31-2 | 1.02 | 4.8 | 30.6 | 80.7 | \$52.10 | \$161.51 | \$65.05 | \$226.56 | n.t. |
| NG 5315 B2RF | 290 | 382 | 0.37 | 0.49 | 31-1 | 1.09 | 4.6 | 29.5 | 82.9 | \$55.90 | \$162.11 | \$57.30 | \$219.41 | n.t. |
| FM 2484 B2 F | 271 | 356 | 0.38 | 0.50 | 31-1 | 1.09 | 4.4 | 30.0 | 79.6 | \$55.50 | \$150.18 | \$53.42 | \$203.60 | n.t. |
| FM 1944 GLB2 | 223 | 305 | 0.35 | 0.48 | 41-2 | 1.01 | 4.7 | 29.6 | 78.2 | \$48.30 | \$107.50 | \$45.81 | \$153.31 | 7 |
| Average | 339 | 465 | 0.37 | 0.51 | - | 1.07 | 4.5 | 30.5 | 80.9 | \$53.01 | \$179.74 | \$69.73 | \$249.46 | |
| Max. | 503 | 633 | 0.40 | 0.53 | - | 1.14 | 4.98 | 34.9 | 82.9 | \$55.90 | \$271.11 | \$94.95 | \$366.05 | |
| Min. | 223 | 305 | 0.35 | 0.48 | - | 1.00 | 4.12 | 27.7 | 78.2 | \$48.30 | \$107.50 | \$45.81 | \$153.31 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton | | | | | For Questions Contact: Steve Estes (325)823-2432 or Dr. David Drake (325)653-4576 | | | | | | | | | |
| * Planted on R. Newman farm in 2012 | | | | | | | | | | | | | | |

Table 6.

| 2013 Dryland Cotton Variety Trial | | | | | Texas A&M AgriLife Extension | | | | | | | | | |
|--|-------------|-----------|------|------|---|----------|----------|------------|------------|---------|-----------|-----------|-----------|-------------|
| Name of County: | Nolan (353) | | | | Plant Date: | | | | | | | | | |
| County ID Number: | 353 | | | | Harvest Date: | | | | | | | | | |
| District number: | 7 | | | | Design: | | | | | | | | | |
| Year: | 2013 | | | | Fertility: | | | | | | | | | |
| Producer: | Don Martin | | | | Herbicide: | | | | | | | | | |
| Fiber Quality | | | | | | | | | | Lint | Seed | Total | 2012 | |
| Yield Per Acre | | | | | Fiber | | | | | CCC | Gross | Gross | Gross | Lint yld |
| In Pounds | | % Turnout | | | Color- | Length | Strength | | Uniformity | Loan | Return | Return | Return | ranking |
| Variety | Lint | Seed | Lint | Seed | Leaf | (staple) | Mic | (gram/tex) | | Value | (\$/acre) | (\$/acre) | (\$/acre) | of # tested |
| NG 1511 B2RF | 339 | 500 | 0.28 | 0.41 | 41-2 | 1.10 | 4.2 | 31.4 | 81.3 | \$54.00 | \$183.06 | \$74.93 | \$257.99 | 5 |
| NG 5315 B2RF | 350 | 522 | 0.25 | 0.38 | 41-2 | 1.02 | 4.1 | 30.4 | 78.7 | \$50.10 | \$175.24 | \$78.37 | \$253.61 | n.t. |
| FM 1944 GLB2 | 239 | 403 | 0.23 | 0.38 | 41-3 | 1.00 | 3.8 | 27.4 | 77.0 | \$48.25 | \$115.52 | \$60.40 | \$175.92 | n.t. |
| ST 4946 GLB2 | 313 | 463 | 0.27 | 0.40 | 41-4 | 1.02 | 4.1 | 31.1 | 79.7 | \$49.90 | \$156.18 | \$69.45 | \$225.63 | n.t. |
| FM 2484 B2F | 224 | 383 | 0.23 | 0.39 | 41-3 | 1.01 | 3.8 | 28.5 | 77.5 | \$48.25 | \$108.19 | \$57.39 | \$165.58 | n.t. |
| PH 499 WRF | 162 | 235 | 0.25 | 0.36 | 41-3 | 0.95 | 4.3 | 29.1 | 79.7 | \$47.55 | \$77.19 | \$35.19 | \$112.38 | n.t. |
| FM 2989 GLB2 | 266 | 443 | 0.23 | 0.39 | 41-3 | 0.97 | 3.6 | 29.7 | 79.0 | \$47.40 | \$126.23 | \$66.41 | \$192.64 | 11 |
| DP 1044 B2RF | 223 | 358 | 0.23 | 0.37 | 41-4 | 1.03 | 4.1 | 29.9 | 78.3 | \$49.25 | \$109.67 | \$53.72 | \$163.40 | 1 |
| FM 9170 BCF | 264 | 392 | 0.26 | 0.38 | 41-5 | 0.97 | 3.6 | 25.8 | 77.8 | \$45.20 | \$119.17 | \$58.81 | \$177.98 | 6 |
| PH 367 WRF | 127 | 210 | 0.20 | 0.33 | 42-3 | 0.99 | 4.2 | 28.6 | 78.3 | \$47.45 | \$60.41 | \$31.52 | \$91.93 | 10 |
| Average | 251 | 391 | 0.24 | 0.38 | - | 1.01 | 4.0 | 29.2 | 78.7 | \$48.74 | \$123.09 | \$58.62 | \$181.71 | |
| Max. | 350 | 522 | 0.28 | 0.41 | - | 1.10 | 4.27 | 31.4 | 81.3 | \$54.00 | \$183.06 | \$78.37 | \$257.99 | |
| Min. | 127 | 210 | 0.20 | 0.33 | - | 0.95 | 3.62 | 25.8 | 77.0 | \$45.20 | \$60.41 | \$31.52 | \$91.93 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton | | | | | For Questions Contact: Zach Wilcox (325)235-3184 or Dr. David Drake (325)653-4576 | | | | | | | | | |

Table 7.

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

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

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 treatments

Values that are average or above in a column are background highlighted

Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.

Gross Seed Return based on \$300/ton For Questions Contact: Tyler Roberts (325)776-3259 or Dr. David Drake (325)653-4576

Table 8.

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

Table 9.

A.

| | | 2013 Irrigated Cotton Variety Trial | | | | | | Texas A&M AgriLife Extension | | | | | | |
|-----------------------|------------------------|-------------------------------------|------------|--------|--------|-----------|----------|------------------------------|---|---------|-------|----------|------|--|
| Name of County: | Tom Green (451) | | | | | | | Design: | 4 rows, 32 ft., 40". 4 replications | | | | | |
| District number: | 7 | | | | | | | Irrigation: | SSI | | | | | |
| Year: | 2013 | | | | | | | Fertility: | 100 lb. 11-52-0 pre-plant, 60 lbs. 32-0-0 through SSI during season | | | | | |
| Producer: | Daryl & Doyle Schniers | | | | | | | Herbicide: | Topguard® for control of cotton root rot | | | | | |
| Plant Date: | May 28, 2013 | | | | | | | Harvest Aids: | 16 fl oz Prep & 16 fl oz Folex followed by 23 oz Gramoxone Inteon & 0.25 oz Aim | | | | | |
| Harvest Date: | Nov. 19, 2013 | | | | | | | | | | | | | |
| | | | Bur Cotton | Lint | Seed | Lint Loan | Lint | Seed | Total | Ginning | Seed | Net | | |
| | | Lint | Seed | yield | yield | value | value | value | value | cost | cost | value | | |
| Variety | % Turnout | lb/acre | | | \$/lb | \$/acre | | | | | | | | |
| DP 1044B2RF | 26.6 | 45.7 | 7344 | 1952 | 3353 | 0.5498 | 1,073.14 | 419.17 | 1,492.31 | 220.32 | 55.19 | 1,216.81 | a | |
| PHY 333 WRF | 26.7 | 42.3 | 7375 | 1968 | 3120 | 0.5447 | 1,071.67 | 390.05 | 1,461.72 | 221.24 | 56.73 | 1,183.75 | ab | |
| DP 1359B2RF | 23.9 | 39.1 | 8225 | 1966 | 3220 | 0.5415 | 1,064.36 | 402.51 | 1,466.87 | 246.76 | 55.83 | 1,164.28 | abc | |
| DP 1219B2RF | 23.9 | 42.7 | 8004 | 1912 | 3422 | 0.5405 | 1,033.42 | 427.72 | 1,461.14 | 240.12 | 59.60 | 1,161.41 | abc | |
| FM 2484B2F | 27.1 | 44.3 | 7119 | 1929 | 3153 | 0.5378 | 1,037.37 | 394.08 | 1,431.45 | 213.58 | 56.73 | 1,161.14 | abc | |
| PHY 499WRF | 24.9 | 42.9 | 7643 | 1906 | 3277 | 0.5293 | 1,009.11 | 409.62 | 1,418.73 | 229.30 | 58.09 | 1,131.34 | abcd | |
| PHY 367WRF | 26.3 | 42.7 | 7068 | 1858 | 3016 | 0.5487 | 1,019.51 | 377.02 | 1,396.53 | 212.05 | 57.22 | 1,127.26 | abcd | |
| ST 4946GLB2 | 26.7 | 44.6 | 6949 | 1857 | 3096 | 0.5392 | 1,001.17 | 387.03 | 1,388.20 | 208.48 | 56.17 | 1,123.56 | abcd | |
| FM 2989GLB2 | 27.7 | 47.5 | 6616 | 1834 | 3144 | 0.5300 | 971.99 | 393.06 | 1,365.05 | 198.47 | 56.17 | 1,110.40 | abcd | |
| NG 1511B2RF | 27.2 | 41.2 | 6779 | 1847 | 2794 | 0.5417 | 1,000.51 | 349.29 | 1,349.79 | 203.37 | 57.57 | 1,088.86 | abcd | |
| DG 2570B2RF | 27.1 | 43.9 | 6711 | 1816 | 2946 | 0.5320 | 965.99 | 368.19 | 1,334.19 | 201.33 | 56.17 | 1,076.69 | abcd | |
| DG CT13545B2Rf | 23.8 | 42.2 | 7368 | 1752 | 3110 | 0.5430 | 951.55 | 388.79 | 1,340.34 | 221.03 | 57.60 | 1,061.70 | bcd | |
| DP 1321B2RF | 24.8 | 34.6 | 7790 | 1935 | 2693 | 0.5142 | 995.10 | 336.64 | 1,331.73 | 233.69 | 57.17 | 1,040.88 | bcd | |
| NG 5315B2RF | 26.5 | 41.2 | 6704 | 1777 | 2759 | 0.5325 | 946.19 | 344.88 | 1,291.07 | 201.12 | 56.26 | 1,033.69 | cd | |
| PHY 565WRF | 25.7 | 41.2 | 6789 | 1748 | 2794 | 0.5337 | 932.60 | 349.28 | 1,281.88 | 203.68 | 54.17 | 1,024.03 | cd | |
| FM 1944 GLB2 | 27.6 | 45.5 | 6183 | 1706 | 2816 | 0.5282 | 901.30 | 351.96 | 1,253.26 | 185.50 | 58.00 | 1,009.75 | d | |
| All-Tex Nitro-44 B2RF | 23.6 | 41.6 | 6187 | 1461 | 2574 | 0.5362 | 783.50 | 321.77 | 1,105.27 | 185.61 | 54.81 | 864.85 | e | |
| Test average | 25.9 | 42.5 | 7109 | 1837 | 3017 | 0.5366 | 985.79 | 377.12 | 1,362.91 | 213.27 | 56.68 | 1,092.96 | | |
| CV, % | 2.6 | 2.7 | 7.4 | 7.6 | 7.6 | 4.8 | 7.6 | 7.6 | 7.6 | 7.4 | -- | 7.9 | | |
| OSL | <0.0001 | <0.0001 | 0.0007 | 0.0148 | 0.0014 | 0.9856 | 0.0066 | 0.0014 | 0.0095 | 0.0007 | -- | 0.0063 | | |
| LSD | 1.1 | 1.9 | 870 | 231 | 380 | NS | 123.85 | 47.51 | 171.30 | 26.10 | -- | 144.49 | | |

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

CV - coefficient of variation.

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

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

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

Assumes:
 \$3.00/cwt ginning cost.
 \$250/ton for seed.

Value for lint based on CCC loan value from grab samples and FBRI HVI results.

B.

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

Table 10.

A.

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

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

Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.

Gross Seed Return based on \$300/ton. For Questions Contact: Rick Minzenmayer (325) 365-1292 or Dr. David Drake (325)653-4576

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

B. 2013 K. Gully Agronomic data

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

Table 11.

A.

| 2013 San Angelo Texas AgriLife Extension Uniform Irrigated Cotton Variety Trial | | | | | | | | | | | | | |
|--|----------------|------|----------------------------|--|-----------------------------|--------------------|-----|------------------------|------------|----------------------------|---------------------|----------------------------------|---------------------|
| David R. Drake, Extension Agronomist, San Angelo, TX | | | | Plant Date: June 4, 2013, 40" rows, seeded 3.09 seeds/ft, ave. plant stand plts/ac 38,034 | | | | | | | | | |
| Producers Name: Michael Block, Wall, TX | | | | Design: 4 row plots 33ft in length, 4 replications in RCBD, 4 rows harvested | | | | | | | | | |
| Drip irrigated on 40" spacing perpendicular to rows | | | | Harvest Date: Nov 14-15, 2013, stripper | | | | | | | | | |
| Pest Control: Seed treatments | | | | Two or three turnout and quality samples ginned at Texas A&M AgriLife Research and Extension Center in Lubbock, TX | | | | | | | | | |
| For Questions about this Variety Trial Contact: drdrake@ag.tamu.edu or (325)653-4576 | | | | | | | | | | | | | |
| Variety ¹ | Yield Per Acre | | Fiber Quality ² | | | | | | | Lint | Seed | Total | |
| | In Pounds | | % Turnout | | Fiber | | | CCC | Gross | Gross | Gross | | |
| | Lint | Seed | Lint | Seed | Color- Leaf ³ | Length (staple) | Mic | Strength (gram/tex) | Uniformity | Loan Value ⁴ | Return (\$/acre) | Return ⁵ (\$/acre) | Return (\$/acre) |
| DP 1359 B2RF | 1105 | 1558 | 0.29 | 0.41 | 31-3,41-4 | 1.08 | 4.5 | 32.0 | 79.1 | \$53.43 | \$590.59 | \$233.71 | \$824.31 |
| DP 1219 B2RF | 1117 | 1625 | 0.29 | 0.42 | 41-4,41-5 | 1.08 | 4.4 | 31.5 | 80.2 | \$51.40 | \$574.04 | \$243.79 | \$817.82 |
| PHY 339 WRF | 1067 | 1656 | 0.29 | 0.46 | 41-4,51-5 | 1.13 | 3.9 | 31.5 | 81.7 | \$51.63 | \$550.72 | \$248.44 | \$799.15 |
| DP 12R249 | 1090 | 1540 | 0.31 | 0.43 | 41-5,41-3 | 1.08 | 4.2 | 30.8 | 79.3 | \$51.70 | \$563.69 | \$231.03 | \$794.72 |
| DP 12R242 | 1094 | 1498 | 0.30 | 0.41 | 41-4,41-6 | 1.09 | 4.6 | 30.5 | 81.6 | \$50.95 | \$557.41 | \$224.64 | \$782.05 |
| DGX 11W351 B2RF | 1025 | 1485 | 0.29 | 0.42 | 41-5,41-4 | 1.07 | 4.1 | 32.5 | 80.3 | \$51.48 | \$527.65 | \$222.79 | \$750.43 |
| DGX 11WSRF749 RF | 1012 | 1529 | 0.29 | 0.43 | 41-5,41-4 | 1.09 | 4.1 | 29.5 | 80.2 | \$51.40 | \$520.34 | \$229.34 | \$749.68 |
| BX 1445 GLB2 | 999 | 1367 | 0.29 | 0.40 | 41-5,41-4 | 1.14 | 4.5 | 33.9 | 81.8 | \$52.65 | \$525.82 | \$204.98 | \$730.79 |
| FM 1944 GLB2 | 937 | 1545 | 0.27 | 0.45 | 41-3,41-5 | 1.12 | 4.0 | 31.3 | 79.7 | \$52.73 | \$494.23 | \$231.77 | \$726.00 |
| AM1511 B2RF | 1059 | 1505 | 0.29 | 0.41 | 51-4,51-7 | 1.09 | 4.0 | 31.9 | 80.3 | \$47.13 | \$499.14 | \$225.81 | \$724.95 |
| DGX 11WSRF692-1 RF | 1011 | 1480 | 0.29 | 0.42 | 41-5,51-5 | 1.09 | 3.7 | 32.3 | 79.7 | \$49.28 | \$498.35 | \$222.00 | \$720.35 |
| DP 1321 B2RF | 968 | 1553 | 0.27 | 0.43 | 51-4,51-4 | 1.11 | 3.9 | 31.8 | 81.9 | \$50.05 | \$484.49 | \$232.88 | \$717.37 |
| FM 9180 B2F | 960 | 1604 | 0.27 | 0.44 | 41-5,41-7 | 1.14 | 3.9 | 33.4 | 81.1 | \$49.40 | \$474.19 | \$240.62 | \$714.81 |
| ATX Epic RF | 963 | 1541 | 0.28 | 0.44 | 41-5,41-6 | 1.07 | 4.2 | 31.4 | 80.6 | \$49.83 | \$479.97 | \$231.22 | \$711.19 |
| PHY 499 WRF | 1006 | 1587 | 0.27 | 0.43 | 51-6,51-7 | 1.10 | 4.1 | 32.5 | 81.4 | \$46.58 | \$468.69 | \$238.04 | \$706.74 |
| ST 4946 GLB2 | 959 | 1599 | 0.26 | 0.44 | 51-6,51-7 | 1.11 | 3.9 | 33.6 | 82.1 | \$48.55 | \$465.57 | \$239.85 | \$705.42 |
| PHY 333 WRF | 1009 | 1630 | 0.26 | 0.42 | 51-7,51-8 | 1.16 | 3.7 | 30.0 | 80.8 | \$45.55 | \$459.39 | \$244.51 | \$703.90 |
| DGX CT 13125 B2RF | 972 | 1533 | 0.27 | 0.43 | 41-6,41-5 | 1.15 | 3.5 | 32.1 | 80.8 | \$48.45 | \$471.16 | \$229.93 | \$701.09 |
| FM 2484 B2F | 941 | 1329 | 0.29 | 0.41 | 41-3,41-5 | 1.14 | 3.9 | 33.1 | 81.2 | \$53.10 | \$499.43 | \$199.39 | \$698.82 |
| FM 9170 B2F | 921 | 1405 | 0.28 | 0.42 | 41-4,41-3 | 1.11 | 3.8 | 31.3 | 78.7 | \$53.00 | \$487.98 | \$210.68 | \$698.66 |
| DP 1044 B2RF | 906 | 1432 | 0.27 | 0.43 | 41-5,41-4 | 1.09 | 3.9 | 30.9 | 80.1 | \$52.10 | \$472.24 | \$214.82 | \$687.06 |
| PHY 375 WRF | 917 | 1530 | 0.25 | 0.42 | 51-5 | 1.10 | 3.7 | 30.9 | 79.8 | \$48.90 | \$448.32 | \$229.44 | \$677.76 |
| ST 5458 B2RF | 937 | 1604 | 0.26 | 0.45 | 51-6,41-8 | 1.10 | 3.7 | 30.7 | 78.6 | \$46.45 | \$435.39 | \$240.62 | \$676.00 |
| PHY 367 WRF | 928 | 1537 | 0.26 | 0.42 | 51-6 | 1.11 | 3.8 | 31.3 | 80.6 | \$47.43 | \$440.32 | \$230.53 | \$670.85 |
| FM 1740 B2F | 859 | 1471 | 0.26 | 0.44 | 41-3 | 1.06 | 4.0 | 30.0 | 79.3 | \$51.85 | \$445.62 | \$220.62 | \$666.25 |

Continued on next page

| Variety ¹ | Yield Per Acre | | Fiber Quality ² | | | | | | | Lint | Seed | Total | |
|---|----------------|--------|----------------------------|------|-------------------|----------|----------|------------|------------|--------------------|---------------------|-----------|-----------|
| | In Pounds | | % Turnout | | Fiber | | | | | CCC | Gross | Gross | Gross |
| | ----- | | ----- | | Color- | Length | Strength | | Loan | Return | Return ⁵ | Return | |
| | Lint | Seed | Lint | Seed | Leaf ³ | (staple) | Mic | (gram/tex) | Uniformity | Value ⁴ | (\$/acre) | (\$/acre) | (\$/acre) |
| DGX CT13464 B2RF | 947 | 1508 | 0.28 | 0.45 | 51-7,51-8 | 1.17 | 3.7 | 33.8 | 81.8 | \$45.80 | \$433.95 | \$226.24 | \$660.20 |
| FM 2989 GLB2 | 874 | 1418 | 0.26 | 0.42 | 51-5,41-4 | 1.08 | 4.2 | 30.8 | 79.8 | \$50.20 | \$438.85 | \$212.73 | \$651.57 |
| DGX CT13454 B2RF | 853 | 1517 | 0.25 | 0.45 | 51-7 | 1.22 | 3.6 | 36.3 | 83.8 | \$46.00 | \$392.25 | \$227.53 | \$619.79 |
| ATX 65207 B2RF | 831 | 1427 | 0.25 | 0.43 | 51-6 | 1.06 | 3.7 | 30.8 | 80.6 | \$46.95 | \$390.30 | \$213.99 | \$604.29 |
| BX 1347 GLB2 | 824 | 1302 | 0.26 | 0.42 | 41-5,51-7 | 1.11 | 4.0 | 30.0 | 80.0 | \$47.93 | \$395.07 | \$195.29 | \$590.36 |
| ATX Nitro 44 B2RF | 842 | 1444 | 0.26 | 0.45 | 51-7 | 1.18 | 3.4 | 34.4 | 81.8 | \$43.90 | \$369.73 | \$216.65 | \$586.38 |
| DP 1032 B2RF | 1096** | 1606** | 0.28 | 0.41 | 41-3,41-4 | 1.08 | 4.3 | 30.8 | 80.8 | \$53.58 | \$587.25 | \$240.95 | \$828.19 |
| DP 0935 B2RF | 1011** | 1521** | 0.28 | 0.43 | 41-6,41-4 | 1.07 | 4.0 | 30.2 | 80.5 | \$50.90 | \$514.68 | \$228.21 | \$742.89 |
| FM 9063 B2F | 966** | 1609** | 0.28 | 0.46 | 41-6,41-5 | 1.13 | 4.0 | 32.1 | 81.7 | \$50.45 | \$487.30 | \$241.29 | \$728.59 |
| DG 2570 B2RF | 913** | 1542** | 0.27 | 0.46 | 41-4,41-3 | 1.09 | 3.9 | 32.1 | 81.1 | \$53.50 | \$488.30 | \$231.36 | \$719.66 |
| ST 4288 B2F | 887** | 1544** | 0.25 | 0.43 | 51-4,41-5 | 1.10 | 3.8 | 29.4 | 79.6 | \$50.00 | \$443.44 | \$231.55 | \$674.99 |
| NG 4012 B2RF | 867** | 1390** | 0.28 | 0.45 | 41-5,51-6 | 1.15 | 3.8 | 33.9 | 81.3 | \$49.63 | \$430.45 | \$208.52 | \$638.97 |
| ST 6448 GLB2 | 787** | 1285** | 0.27 | 0.44 | 41-3,41-5 | 1.09 | 3.9 | 29.2 | 80.2 | \$51.90 | \$408.42 | \$192.79 | \$601.21 |
| ATX EDGE B2RF | 789** | 1448** | 0.24 | 0.44 | 51-6 | 1.10 | 3.8 | 30.3 | 79.4 | \$46.80 | \$369.37 | \$217.25 | \$586.62 |
| Average | 955 | 1505 | 0.27 | 0.43 | | 1.11 | 3.9 | 31.6 | 80.6 | \$49.81 | \$476.52 | \$225.79 | \$702.31 |
| P>(F) ⁶ | 0.01 | 0.01 | 0.01 | 0.01 | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | ----- | min/max | ----- |
| LSD (P=0.05) | 121 | 173 | 0.03 | 0.03 | | 0.03 | 0.3 | 1.6 | 1.3 | 3.62 | \$369.37 | \$192.79 | \$586.38 |
| CV % | 9 | 8 | 5.98 | 3.00 | | 1.56 | 4.0 | 2.5 | 0.8 | 3.63 | \$590.59 | \$248.44 | \$828.19 |
| Acknowledgements of assistance from Michael Block, Producer; Rick Minzenmayer, Pam Halfmann, Alicia Theroit, Zan Gassiot, Brittany Gale and the sponsoring companies. | | | | | | | | | | | | | |
| References to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas A&M AgriLife Extension Service is implied. | | | | | | | | | | | | | |
| Mention of a trademark or a proprietary product does not constitute an endorsement of the product by Texas A&M AgriLife Extension Service and does not imply its approval to the exclusion of other products that also may be suitable. Abbreviations include: All-Tex (ATX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), FiberMax (FM), Glytol (G), Liberty Link (L) | | | | | | | | | | | | | |
| NexGen (NG), Phytogen (PHY), Poncho Votivo seed treatment (PV), Roundup Flex (F or RF), Stoneville (ST), and Widestrike (W). | | | | | | | | | | | | | |
| ** Yields followed by (**) are based on 2 replications. Data is provided only as a reference and is not included in the analysis | | | | | | | | | | | | | |
| 1 Values for varieties shaded in gray or marked by an (a) are not significantly different than the highest treatment in the column and values shaded in orange are above average for that parameter/column | | | | | | | | | | | | | |
| 2 Fiber quality analysis conducted with a minimum of two ginned fiber subsamples by HVI at the Fiber and biopolymer Research Institute, Texas Tech University, Lubbock, TX | | | | | | | | | | | | | |
| 3 color and leaf grade based on a minimum of two samples. If samples differed both are listed. | | | | | | | | | | | | | |
| 4 CCC loan value based on cotton stored at Lubbock, TX. Base \$51.70 | | | | | | | | | | | | | |
| 5 Gross Seed Return based on \$300/ton | | | | | | | | | | | | | |
| 6 The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties | | | | | | | | | | | | | |
| Differences between varieties that are greater than the LSD indicate a significant difference between them for the measurement in a column. | | | | | | | | | | | | | |
| n.s. indicates no statistical difference among the treatments for that particular measurement/column | | | | | | | | | | | | | |

B. 2013 M. Block Agronomic data

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

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

Permian Basin, D6

Table 12.

| | | 2013 Irrigated Cotton Variety Trial | | | | | | | | Texas A&M AgriLife Extension | | | | |
|--|-----------------|-------------------------------------|------|--------|--|---------------|---|------------|------------|------------------------------|-----------|-----------|------------|--------------|
| Name of County: | Glasscock (173) | | | | | Design: | 6 rows, 40" 2X1 , 1171 ft, Unreplicated | | | | | | | |
| District number: | 6 | | | | | Irrigation: | SDI 10" pre and 12" in season | | | | | | | |
| Year: | 2013 | | | | | Fertility: | 120 units N and 20 units Potassium | | | | | | | |
| Producer: | Allan Fuchs | | | | | Herbicide: | Glyphosate (40 fl oz) twice. | | | | | | | |
| Plant Date: | May 28, 2013 | | | | | Harvest Aids: | 16 fl oz Prep & 16 fl oz Folex followed by 23 oz Gramoxone Inteon & 0.25 oz Aim | | | | | | | |
| Harvest Date: | Nov. 13, 2013 | | | | | | | | | | | | | |
| | | Fiber Quality | | | | | | | | Lint | Seed | Total | 2012 | |
| Yield Per Acre | | | | | | Fiber | | | CCC | Gross | Gross | Gross | Lint yld | |
| In Pounds | | % Turnout | | Color- | Length | Strength | | | Loan | Return | Return | Return | ranking | |
| Variety | Lint | Seed | Lint | Seed | Leaf | (staple) | Mic | (gram/tex) | Uniformity | Value | (\$/acre) | (\$/acre) | (\$/acre) | of 17 tested |
| DP 1219 B2RF | 1593 | 2315 | 0.33 | 0.48 | 31-3 | 1.17 | 4.0 | 33.7 | 81.7 | \$56.80 | \$905.10 | \$347.21 | \$1,252.31 | 9 |
| DG 2570 B2RF | 1611 | 2303 | 0.35 | 0.50 | 41-3 | 1.10 | 4.7 | 33.3 | 83.4 | \$54.10 | \$871.61 | \$345.51 | \$1,217.12 | n.t |
| DP 1044 B2RF | 1584 | 2371 | 0.32 | 0.48 | 41-3 | 1.14 | 4.2 | 32.5 | 83.9 | \$54.65 | \$865.52 | \$355.66 | \$1,221.18 | 15 |
| FM 2484 B2RF | 1598 | 2304 | 0.33 | 0.48 | 31-5 | 1.19 | 3.9 | 33.5 | 83.0 | \$54.15 | \$865.19 | \$345.60 | \$1,210.79 | 11 |
| PHY 499 WRF | 1565 | 2208 | 0.34 | 0.47 | 41-3 | 1.13 | 4.3 | 32.1 | 83.7 | \$54.50 | \$853.05 | \$331.25 | \$1,184.30 | 1 |
| ST 4946 GLB2 | 1636 | 2447 | 0.33 | 0.49 | 41-5 | 1.17 | 4.1 | 35.7 | 83.6 | \$51.85 | \$848.50 | \$367.07 | \$1,215.58 | n.t |
| DP 1359 B2RF | 1503 | 2016 | 0.35 | 0.47 | 41-2 | 1.15 | 4.5 | 33.7 | 81.6 | \$54.40 | \$817.80 | \$302.34 | \$1,120.14 | n.t |
| ATX Edge B2RF | 1478 | 2142 | 0.33 | 0.47 | 41-4 | 1.15 | 4.4 | 33.7 | 81.9 | \$53.75 | \$794.39 | \$321.27 | \$1,115.66 | n.t |
| ATX Nitro B2RF | 1463 | 2250 | 0.32 | 0.49 | 41-4 | 1.19 | 4.1 | 35.7 | 82.9 | \$54.00 | \$789.86 | \$337.47 | \$1,127.33 | 6 |
| PHY 339 WRF | 1441 | 1996 | 0.33 | 0.46 | 41-2 | 1.17 | 4.3 | 33.7 | 82.5 | \$54.65 | \$787.57 | \$299.41 | \$1,086.98 | n.t |
| PHY 367 WRF | 1421 | 2063 | 0.31 | 0.45 | 41-3 | 1.13 | 4.3 | 33.4 | 82.5 | \$54.45 | \$773.70 | \$309.42 | \$1,083.12 | 2 |
| FM 1944 GLB2 | 1409 | 2204 | 0.30 | 0.48 | 41-2 | 1.17 | 4.3 | 32.5 | 80.8 | \$54.50 | \$767.71 | \$330.58 | \$1,098.29 | 14 |
| PHY 375 WRF | 1410 | 2050 | 0.32 | 0.47 | 41-2 | 1.11 | 4.5 | 31.3 | 81.8 | \$54.30 | \$765.58 | \$307.57 | \$1,073.15 | 5 |
| Average | 1516 | 2205 | 0.33 | 0.48 | - | 1.15 | 4.3 | 33.4 | 82.6 | \$54.32 | \$823.51 | \$330.80 | \$1,154.30 | |
| Max. | 1636 | 2447 | 0.35 | 0.50 | - | 1.19 | 4.73 | 35.7 | 83.9 | \$56.80 | \$905.10 | \$367.07 | \$1,252.31 | |
| Min. | 1409 | 1996 | 0.30 | 0.45 | - | 1.10 | 3.89 | 31.3 | 80.8 | \$51.85 | \$765.58 | \$299.41 | \$1,073.15 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton | | | | | For Questions Contact: Rebel Royall (432)354-2381 or Dr. David Drake (325)653-4576 | | | | | | | | | |

Table 13.

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

Values that are average or above in a column are background highlighted

Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.

Gross Seed Return based on \$300/ton For Questions Contact: Rebel Royall (432)354-2381 or Dr. David Drake (325)653-4576

Table 14.

| | | 2013 Irrigated Cotton Variety Trial | | | | | | | | Texas A&M AgriLife Extension | | | | |
|---|----------------|---|------|------|--------|----------|----------|------------|------------|------------------------------|-----------|-----------|-----------|--------------|
| Name of County: | Upton (461) | Design: 6 rows, 40" 2X1 , 665 ft, Unreplicated | | | | | | | | | | | | |
| District number: | 6 | Irrigation: SDI 6" pre & 8" in season | | | | | | | | | | | | |
| Year: | 2013 | Fertility: 200 lbs 10-34-0 knifed pre-plant and 50 units N in season | | | | | | | | | | | | |
| Producer: | Russ Eggemeyer | Herbicide: Glyphosate (48 fl oz) twice. | | | | | | | | | | | | |
| Plant Date: | May 22, 2013 | Harvest Aids: 24 fl oz Prep & 3 fl oz Gramoxone followed by 20 oz Gramoxone | | | | | | | | | | | | |
| Harvest Date: | Oct. 31, 2013 | | | | | | | | | | | | | |
| | | Fiber Quality | | | | | | | | Lint | Seed | Total | 2012 | |
| Yield Per Acre | | | | | | | | | | CCC | Gross | Gross | Gross | Lint yld |
| In Pounds | | % Turnout | | | Color- | Fiber | Strength | | | Loan | Return | Return | Return | ranking |
| Variety | Lint | Seed | Lint | Seed | Leaf | (staple) | Mic | (gram/tex) | Uniformity | Value | (\$/acre) | (\$/acre) | (\$/acre) | of 16 tested |
| DP 1044 B2RF | 1218 | 1718 | 0.32 | 0.46 | 42-3 | 1.09 | 4.4 | 33.2 | 82.1 | \$51.60 | \$628.27 | \$257.63 | \$885.90 | 6 |
| ST 4946 GLB2 | 1257 | 1835 | 0.34 | 0.49 | 42-5 | 1.07 | 4.5 | 32.3 | 82.0 | \$48.85 | \$613.96 | \$275.18 | \$889.14 | n.t. |
| DP 1359 B2RF | 1169 | 1586 | 0.32 | 0.44 | 42-4 | 1.08 | 4.2 | 31.6 | 81.7 | \$51.10 | \$597.54 | \$237.90 | \$835.45 | n.t. |
| PHY 375 WRF | 1188 | 1661 | 0.33 | 0.47 | 42-4 | 1.06 | 4.5 | 32.0 | 81.1 | \$50.30 | \$597.48 | \$249.14 | \$846.62 | 9 |
| DP 1219 B2RF | 1154 | 1596 | 0.32 | 0.44 | 42-3 | 1.10 | 4.1 | 33.8 | 80.6 | \$51.65 | \$595.86 | \$239.43 | \$835.29 | 5 |
| FM 2484 B2RF | 1087 | 1475 | 0.33 | 0.44 | 41-4 | 1.15 | 4.0 | 35.6 | 81.9 | \$53.90 | \$585.98 | \$221.27 | \$807.25 | 3 |
| PHY 499 WRF | 1120 | 1621 | 0.31 | 0.45 | 42-4 | 1.08 | 4.4 | 32.7 | 81.2 | \$50.95 | \$570.66 | \$243.10 | \$813.75 | 2 |
| PHY 339 WRF | 1082 | 1528 | 0.32 | 0.45 | 41-4 | 1.06 | 4.1 | 32.7 | 80.7 | \$52.55 | \$568.37 | \$229.22 | \$797.58 | n.t. |
| PHY 367 WRF | 1084 | 1586 | 0.31 | 0.45 | 42-3 | 1.06 | 4.3 | 29.7 | 80.7 | \$50.40 | \$546.26 | \$237.88 | \$784.14 | 10 |
| ATX EDGE B2RF | 1125 | 1755 | 0.30 | 0.46 | 41-6 | 1.08 | 4.5 | 30.3 | 79.8 | \$48.30 | \$543.20 | \$263.32 | \$806.52 | n.t. |
| FM 1944 GLB2 | 964 | 1441 | 0.28 | 0.42 | 41-4 | 1.11 | 4.3 | 31.8 | 80.1 | \$53.65 | \$516.96 | \$216.09 | \$733.05 | 11 |
| Average | 1131 | 1618 | 0.32 | 0.45 | - | 1.09 | 4.3 | 32.3 | 81.1 | \$51.20 | \$578.59 | \$242.74 | \$821.34 | |
| Max. | 1257 | 1835 | 0.34 | 0.49 | - | 1.15 | 4.50 | 35.6 | 82.1 | \$53.90 | \$628.27 | \$275.18 | \$889.14 | |
| Min. | 964 | 1441 | 0.28 | 0.42 | - | 1.06 | 4.01 | 29.7 | 79.8 | \$48.30 | \$516.96 | \$216.09 | \$733.05 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton For Questions Contact: Rebel Royall (432)354-2381, Raymond Quigg (432) 693-2313 or Dr. David Drake (325)653-4576 | | | | | | | | | | | | | | |

Table 15.

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

Values that are average or above in a column are background highlighted

Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.

Gross Seed Return based on \$300/ton For Questions Contact: Rebel Royall (432)354-2381, Raymond Quigg (432) 693-2313 or Dr. David Drake (325)653-4576

Table 16.

| | | 2013 Cotton Variety Trial | | | | | | | | Texas A&M AgriLife Extension | | | | |
|--|--------------|-----------------------------|------|--------|--|----------|----------|------------|------------|------------------------------------|-----------|-----------|-----------|--------------|
| Name of County: | Howard | Plant Date: May 27, 2013 | | | | | | | | | | | | |
| County ID Number: | 227 | Harvest Date: Oct. 31, 2013 | | | | | | | | | | | | |
| District number: | 6 | Design: | | | | | | | | 8 rows, 40" , 400 ft, Unreplicated | | | | |
| Year: | 2013 | | | | | | | | | | | | | |
| Producer: | Brooks' Farm | | | | | | | | | | | | | |
| | | Fiber Quality | | | | | | | | Lint | Seed | Total | 2012 | |
| Yield Per Acre | | | | | | Fiber | | | | CCC | Gross | Gross | Gross | Lint yld |
| In Pounds | | % Turnout | | Color- | Length | | Strength | | Loan | Return | Return | Return | ranking | |
| Variety | Lint | Seed | Lint | Seed | Leaf | (staple) | Mic | (gram/tex) | Uniformity | Value | (\$/acre) | (\$/acre) | (\$/acre) | of 15 tested |
| ST 4946 GLB2 | 1086 | 1671 | 0.28 | 0.43 | 41-4 | 1.14 | 3.7 | 35.1 | 80.0 | \$53.85 | \$584.93 | \$250.61 | \$835.54 | n.t. |
| PHY 499 WRF | 1084 | 1484 | 0.29 | 0.40 | 41-3 | 1.12 | 3.8 | 35.2 | 83.0 | \$54.70 | \$593.19 | \$222.60 | \$815.79 | 14 |
| FM 2989 GLB2 | 926 | 1480 | 0.26 | 0.41 | 41-4 | 1.12 | 3.6 | 32.4 | 80.7 | \$53.65 | \$496.74 | \$222.04 | \$718.79 | 4 |
| DP 1359 B2RF | 914 | 1303 | 0.31 | 0.44 | 32-3 | 1.12 | 3.6 | 32.1 | 79.7 | \$52.75 | \$482.32 | \$195.41 | \$677.73 | n.t. |
| FM 2484 B2F | 854 | 1179 | 0.29 | 0.40 | 41-2 | 1.16 | 3.6 | 31.2 | 79.7 | \$53.85 | \$459.73 | \$176.87 | \$636.61 | 13 |
| NG 1511 B2RF | 719 | 1175 | 0.25 | 0.41 | 42-3 | 1.06 | 4.0 | 33.3 | 80.7 | \$50.90 | \$366.06 | \$176.23 | \$542.29 | n.t. |
| ST 6448 GLB2 | 591 | 784 | 0.29 | 0.38 | 31-3 | 1.11 | 3.2 | 28.0 | 79.1 | \$52.10 | \$307.79 | \$117.61 | \$425.40 | n.t. |
| DP 1044 B2RF | *** | *** | 0.26 | 0.42 | 41-3 | 1.13 | 3.8 | 33.0 | 81.6 | \$54.50 | | | | 2 |
| FM 8270 GLB2 | *** | *** | 0.29 | 0.43 | 41-4 | 1.16 | 3.6 | 35.3 | 82.7 | \$53.85 | | | | n.t. |
| ATX Nitro 44 B2RF | *** | *** | 0.27 | 0.41 | 51-4 | 1.21 | 3.5 | 35.7 | 80.9 | \$50.60 | | | | 9 |
| DG 2570 | *** | *** | 0.25 | 0.43 | 31-3 | 1.10 | 3.4 | 32.8 | 80.8 | \$53.95 | | | | n.t. |
| DP 1219 B2RF | *** | *** | 0.25 | 0.44 | 41-3 | 1.15 | 3.4 | 32.4 | 79.3 | \$52.00 | | | | 10 |
| FM 1944 GLB2 | *** | *** | 0.24 | 0.40 | 41-3 | 1.14 | 3.1 | 29.6 | 78.0 | \$49.65 | | | | 5 |
| Average | 882 | 1297 | 0.27 | 0.42 | - | 1.13 | 3.6 | 32.8 | 80.5 | \$52.80 | \$470.11 | \$194.48 | \$664.59 | |
| Max. | 1086 | 1671 | 0.31 | 0.44 | - | 1.21 | 4.03 | 35.7 | 83.0 | \$54.70 | \$593.19 | \$250.61 | \$835.54 | |
| Min. | 591 | 784 | 0.24 | 0.38 | - | 1.06 | 3.11 | 28.0 | 78.0 | \$49.65 | \$307.79 | \$117.61 | \$425.40 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton | | | | | For Questions Contact: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576 | | | | | | | | | |
| *** tested but yeild was removed due to uneven irrigation | | | | | | | | | | | | | | |

Table 17.

| | | | | | 2013 Dryland Cotton Variety Trial | | | | | Texas A&M AgriLife Extension | | | | |
|--|-------------|-----------|------|------|--|-----------------|----------|------------|------------|------------------------------|-----------|-----------|-----------|-------------|
| Name of County: | Howard | | | | Plant Date: June 3, 2013 | | | | | | | | | |
| County ID Number: | 227 | | | | Harvest Date: Nov. 21, 2013 | | | | | Planted on | | | | |
| District number: | 6 | | | | Design: 8 rows, 40" ,800 ft, Unreplicated | | | | | R. Haney farm | | | | |
| Year: | 2013 | | | | | | | | | | | | | |
| Producer: | Donnie Reid | | | | | | | | | | | | | |
| | | | | | Fiber Quality | | | | | Lint | Seed | Total | 2012 | |
| Yield Per Acre | | | | | | | | | | CCC | Gross | Gross | Gross | Lint yld |
| In Pounds | | % Turnout | | | Color- | Fiber | Strength | | | Loan | Return | Return | Return | ranking |
| Variety | Lint | Seed | Lint | Seed | Leaf | Length (staple) | Mic | (gram/tex) | Uniformity | Value | (\$/acre) | (\$/acre) | (\$/acre) | of 7 tested |
| FM 2484 B2F | 382 | 654 | 0.25 | 0.43 | 41-4 | 1.08 | 3.9 | 28.8 | 78.8 | \$52.15 | \$199.07 | \$98.13 | \$297.20 | n.t. |
| ST 4946 GLB2 | 474 | 787 | 0.26 | 0.43 | 41-4 | 1.06 | 4.3 | 32.4 | 80.6 | \$52.40 | \$248.59 | \$117.99 | \$366.58 | n.t. |
| NG 4111 RF | 488 | 763 | 0.34 | 0.53 | 42-3 | 1.03 | 3.6 | 29.6 | 79.0 | \$48.80 | \$237.91 | \$114.44 | \$352.35 | 4 |
| ATX EDGE B2RF | 321 | 611 | 0.25 | 0.47 | 41-4 | 1.04 | 3.6 | 27.1 | 77.7 | \$48.90 | \$156.92 | \$91.72 | \$248.64 | n.t. |
| FM 2011 GT | 393 | 583 | 0.32 | 0.47 | 41-4 | 1.03 | 3.4 | 27.7 | 78.3 | \$47.15 | \$185.17 | \$87.50 | \$272.66 | 7 |
| PHY 367 WRF | 378 | 578 | 0.29 | 0.44 | 41-3 | 1.04 | 3.9 | 28.1 | 79.2 | \$50.15 | \$189.68 | \$86.63 | \$276.30 | n.t. |
| DP 1044 B2RF | 412 | 605 | 0.32 | 0.47 | 41-3 | 0.99 | 4.3 | 29.0 | 78.6 | \$48.30 | \$199.03 | \$90.76 | \$289.79 | n.t. |
| FM 2989 GLB2 | 446 | 643 | 0.33 | 0.47 | 41-3 | 1.03 | 4.2 | 29.1 | 78.7 | \$49.90 | \$222.31 | \$96.51 | \$318.82 | n.t. |
| NG 5315 B2RF | 597 | 712 | 0.37 | 0.45 | 41-2 | 1.05 | 4.7 | 28.4 | 80.0 | \$52.50 | \$313.18 | \$106.76 | \$419.94 | n.t. |
| FM 1944 GLB2 | 383 | 614 | 0.28 | 0.44 | 41-2 | 1.05 | 4.0 | 28.2 | 78.4 | \$51.80 | \$198.49 | \$92.14 | \$290.63 | n.t. |
| DG 2285 B2RF | 353 | 579 | 0.31 | 0.52 | 41-5 | 1.03 | 3.4 | 29.9 | 79.3 | \$46.50 | \$164.30 | \$86.90 | \$251.20 | n.t. |
| FM 9250 GL | 378 | 610 | 0.29 | 0.47 | 41-2 | 1.02 | 3.5 | 26.3 | 76.9 | \$49.55 | \$187.52 | \$91.53 | \$279.05 | 3 |
| Average | 417 | 645 | 0.30 | 0.47 | - | 1.04 | 3.9 | 28.7 | 78.8 | \$49.84 | \$208.51 | \$96.75 | \$305.26 | |
| Max. | 597 | 787 | 0.37 | 0.53 | - | 1.08 | 4.70 | 32.4 | 80.6 | \$52.50 | \$313.18 | \$117.99 | \$419.94 | |
| Min. | 321 | 578 | 0.25 | 0.43 | - | 0.99 | 3.44 | 26.3 | 76.9 | \$46.50 | \$156.92 | \$86.63 | \$248.64 | |
| Values that are average or above in a column are background highlighted | | | | | | | | | | | | | | |
| Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock. | | | | | | | | | | | | | | |
| Gross Seed Return based on \$300/ton | | | | | For Questions Contact: Tom Yeater (432)264-2236 or Dr. David Drake (325)653-4576 | | | | | | | | | |



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

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