Cotton Variety Trials

Joel C. Faircloth, Cotton/Peanut Specialist, Tidewater AREC

2006 Variety Yield Results

The 2006 cotton variety trials in Virginia and many other states exemplify why variety selection decisions should be based on multiple years, locations, and sources of data. In Virginia, the season started exceptionally well early on followed by a widespread drought beginning around peak bloom and lasting well past the last effective bloom date. Rain was frequent throughout the harvest season, resulting in 30% of the cotton not being harvested until early-mid December. Although highly variable, the results of the 2006 variety trial are a reflection of the abnormal season (harvested November 30). Abnormal years such as 2006 provide data that often exposes strengths and weaknesses in varieties. Lateseason and/or stormproof varieties (hold seedcotton "tight in the bur") tended to perform better in this year's trial due to the length of time the lint was exposed to weathering and the ability of the plant to tolerate weathering. Provided results from abnormal years are not utilized solely to make selection decisions, they enhance the value of a 2-3 year dataset and serve to reduce a producer's risk.

The Official Cotton Variety Performance trial included 58 varieties at the Tidewater (Suffolk) Agricultural Research and Extension Center (TAREC). Fiftytwo transgenic varieties (34 Bollgard (16 Roundup Ready Flex, 16 Roundup Ready, 2 Liberty Link), 10 Roundup Ready Flex, 8 Roundup Ready, and 1 Liberty Link), two conventional varieties, and three new experimental varieties were evaluated in 2006.

The Virginia Cotton Variety Performance County Strip Trials are conducted annually to provide an unbiased comparison of commercially available varieties, utilizing uniform cultural practices within each location. Variety performance in these trials was evaluated using standard production practices for non-transgenic varieties. Lint yield was obtained at all locations.

Trials in various locations in the production area make it possible to evaluate variety performance under the wide range of soil and climatic conditions existing in Virginia. The test at TAREC was conducted on Eunola loamy fine sand soil. The additional strip trials were conducted at five locations and data pooled and analyzed to evaluate ten transgenic varieties. The strip trial locations and cooperators are listed in Table 5.

The variety trial was planted on May 10 and harvested on November 30.

Summary of Yield and Performance

Table 1 summarizes the performance of all the entries. Table 2 presents the two-year averages for all varieties and Table 3 presents the three-year averages. Table 4 and 5 present the specifics and results of the county strip trials.

In 2006, yields at the TAREC location ranged from 1308 to 921 lb lint/A. This year, accumulated heat units were less than in 2004 and 2005, being closer to the long term average. This resulted in a trial demonstrating the importance of early maturity in many cases.

Variety Selection

There are numerous factors to consider when selecting varieties including yield, maturity, herbicide and/ or insect tolerance traits, quality, and stability. Data from this research are used to identify promising varieties based primarily on yield. This information accurately reflects the performance of varieties evaluated in University Variety Trials at the Tidewater Agricultural Research and Extension Center in Suffolk, Virginia and in county strip trials. Despite the small region in southeastern Virginia where cotton is produced, performance may vary on individual farms due to soil type, environment, and other factors. Producers should select varieties based on their performance at the location most representative of their farm. This should include examination of NCSU University Variety Trials conducted in Lewiston, North Carolina.

HVI Classing – The fiber properties were determined using the High Volume Instrumentation (HVI) classing system. Producers should consider these fiber properties along with yield when selecting varieties for 2007.

The HVI system includes measurements for fiber strength, micronaire, length, and uniformity. Fiber strength is expressed as grams per tex. Strength values between 25.5 through 29.4 will not receive a premium or discount. Values below 25.5 will be discounted, and values above 29.4 will carry a premium on the loan chart. The length (UHM) represents the average length of the longest one-half of the fibers measured. Discounts for length are determined on a sliding scale and dependent on color and leaf grade. The uniformity index is determined by dividing the average staple length of all the fibers by the UHM. Uniformity index is becoming increasingly important as we are increasing the percentage of cotton exported. Values below 79.5 are discounted while values above 29.5 are given a premium on the loan chart. Micronaire is a measurement of the lint surface area and thus an indirect measure of fineness and maturity. Measurements above 4.9 or below 3.5 will result in a discount and measurements between 3.7 and 4.2 will result in a premium based on the loan chart.

| Table 1. | Performance of | f ALL cotton | varieties. | 2006. |
|----------|----------------|--------------|------------|-------|
| | | | | |

| Table III offerman | CC OI ALL COLLOII | Lint | | | | | STR. | |
|--------------------|-------------------|--------|------|-------|------|-------|------|------|
| | | Yield, | Lint | | | LEN. | (g/ | UNI. |
| Seed Company | Variety | lb/A | % | Vigor | MIC. | (in.) | tex) | (%) |
| DeltaPine | DP 455 BG/RR | 1308.0 | 45.2 | 2.9 | 4.0 | 1.16 | 31.2 | 82.7 |
| DeltaPine | DP 555 BG/RR | 1292.0 | 45.0 | 3.0 | 4.1 | 1.14 | 28.9 | 83.3 |
| Bayer CropScience | FM 958 LL | 1289.8 | 42.8 | 3.2 | 4.3 | 1.21 | 33.4 | 84.7 |
| PhytoGen | PHY 310 R | 1282.8 | 44.3 | 3.0 | 4.2 | 1.12 | 29.8 | 84.4 |
| PhytoGen | PHY 370 WR | 1272.5 | 43.8 | 3.0 | 4.3 | 1.12 | 29.5 | 83.9 |
| Bayer CropScience | FM 960 BR | 1267.3 | 43.0 | 2.9 | 4.4 | 1.14 | 33.9 | 83.7 |
| DeltaPine | DP 434 RR | 1256.3 | 43.9 | 2.9 | 4.0 | 1.21 | 27.8 | 84.2 |
| DeltaPine | DP 449 BG/RR | 1249.2 | 42.6 | 3.1 | 4.2 | 1.14 | 31.7 | 83.8 |
| DeltaPine | DP 444 BG/RR | 1246.9 | 44.0 | 3.0 | 3.7 | 1.15 | 29.3 | 84.8 |
| DeltaPine | DP 488 BG/RR | 1242.6 | 40.7 | 2.7 | 4.1 | 1.19 | 30.7 | 84.2 |
| DeltaPine | DP 515 BG/RR | 1238.3 | 43.5 | 2.9 | 4.4 | 1.14 | 29.5 | 83.8 |
| Bayer CropScience | FMX0742LL | 1233.7 | 43.1 | 3.0 | 3.9 | 1.18 | 32.2 | 84.8 |
| DeltaPine | DP 494 RR | 1224.9 | 44.0 | 2.9 | 4.2 | 1.17 | 31.9 | 83.9 |
| DeltaPine | DP 110 RF | 1210.7 | 42.9 | 3.0 | 4.2 | 1.17 | 34.0 | 84.5 |
| DeltaPine | DP 167 RF | 1206.1 | 41.8 | 3.0 | 4.2 | 1.22 | 30.6 | 84.9 |
| DeltaPine | DP 432 RR | 1204.4 | 41.5 | 3.1 | 4.2 | 1.17 | 30.8 | 84.1 |
| Stoneville | ST 4575 BR | 1199.2 | 43.8 | 3.0 | 4.1 | 1.15 | 30.3 | 83.8 |
| Stoneville | ST 6622 RF | 1196.9 | 41.8 | 2.8 | 4.0 | 1.19 | 31.9 | 85.1 |
| PhytoGen | PHY 470 WR | 1186.2 | 41.5 | 3.1 | 4.4 | 1.14 | 29.7 | 84.0 |
| DeltaPine | DP 143 B2RF | 1186.0 | 41.0 | 3.0 | 3.9 | 1.24 | 29.7 | 83.8 |
| DeltaPine | DP 121 RF | 1179.2 | 43.8 | 2.9 | 4.4 | 1.16 | 29.9 | 84.0 |
| Stoneville | ST 4554 B2RF | 1171.1 | 42.5 | 2.9 | 4.3 | 1.16 | 29.7 | 83.8 |
| Stoneville | ST 5242 BR | 1164.1 | 43.9 | 2.9 | 4.2 | 1.13 | 28.9 | 84.3 |
| Stoneville | ST 5599 BR | 1164.1 | 42.3 | 3.0 | 4.1 | 1.15 | 32.5 | 83.8 |
| PhytoGen | PHY 480 WR | 1153.2 | 41.0 | 3.0 | 4.4 | 1.16 | 29.4 | 84.7 |
| PhytoGen | PHY 425 RF | 1153.0 | 41.0 | 3.1 | 4.4 | 1.17 | 30.2 | 84.8 |
| DeltaPine | DP 164 B2RF | 1147.4 | 41.9 | 3.0 | 4.3 | 1.20 | 30.1 | 83.4 |
| PhytoGen | PHY 485 WRF | 1145.9 | 42.3 | 3.0 | 4.5 | 1.15 | 29.7 | 85.2 |
| Stoneville | ST 4892 BR | 1143.4 | 42.7 | 3.0 | 4.3 | 1.14 | 31.4 | 84.3 |
| DeltaPine | DP 454 BG/RR | 1141.7 | 44.6 | 3.1 | 3.8 | 1.13 | 29.7 | 83.7 |
| PhytoGen | PHY 72 | 1132.1 | 42.7 | 3.0 | 4.1 | 1.23 | 33.2 | 84.9 |
| Bayer CropScience | FM 989 BR | 1131.9 | 41.8 | 2.9 | 4.0 | 1.16 | 31.9 | 83.3 |
| DeltaPine | DP 445 BG/RR | 1116.1 | 43.9 | 3.0 | 4.3 | 1.17 | 30.5 | 84.7 |
| Bayer CropScience | FM 955 LLB2 | 1113.2 | 40.7 | 3.0 | 4.2 | 1.21 | 30.2 | 84.7 |
| | | | | | | | | |

| Table 1. Performance | Table 1. Performance of ALL cotton varieties, 2006. (cont.) | | | | | | | |
|------------------------|---|----------------|-----------|-------|-----|---------------|-------------|-------------|
| | | Lint | | | | | STR. | |
| Seed Company | Variety | Yield, lb/A | Lint % | Vigor | MIC | LEN. (in.) | (g/ tex) | UNI. (%) |
| Stoneville | ST 6611 B2RF | 1109.7 | 40.1 | 2.9 | 4.0 | 1.18 | 32.5 | 84.3 |
| Bayer CropScience | FMX0643B2F | 1098.6 | 43.3 | 2.9 | 3.9 | 1.19 | 32.0 | 84.6 |
| DeltaPine | DPLX06W650F | 1083.8 | 42.2 | 3.0 | 4.1 | 1.19 | 29.7 | 84.0 |
| Cropland Genetics | CG 3020 B2RF | 1082.8 | 40.1 | 3.0 | 3.8 | 1.15 | 27.4 | 84.5 |
| DeltaPine | DP 117 B2RF | 1082.3 | 41.8 | 3.0 | 3.5 | 1.17 | 34.4 | 84.3 |
| Bayer CropScience | FM 9063 B2F | 1081.1 | 41.2 | 3.2 | 4.1 | 1.22 | 32.7 | 84.5 |
| DeltaPine | DP 451 B/RR | 1053.3 | 39.5 | 3.0 | 4.1 | 1.16 | 28.3 | 84.3 |
| United Agri Products | | 1053.0 | 40.5 | 3.0 | 3.9 | 1.14 | 28.8 | 84.0 |
| omica / igii i roddoio | 2100 B2RF | | | 0.0 | 0.0 | | _0.0 | 0 |
| Stoneville | ST 5327 B2RF | 1040.2 | 43.8 | 2.9 | 4.3 | 1.16 | 32.0 | 84.1 |
| DeltaPine | DP 393 | 1035.9 | 42.9 | 2.9 | 4.6 | 1.17 | 31.3 | 84.3 |
| Stoneville | ST 4357 B2RF | 1023.8 | 42.2 | 2.8 | 4.1 | 1.20 | 28.3 | 84.1 |
| Bayer CropScience | FM 988 LLB2 | 1013.4 | 40.6 | 3.0 | 4.0 | 1.19 | 31.3 | 83.5 |
| Cropland Genetics | CG 4020 B2RF | 1012.6 | 41.6 | 3.0 | 4.1 | 1.19 | 28.2 | 84.7 |
| Stoneville | ST 5283 RF | 1002.3 | 43.9 | 2.9 | 4.0 | 1.17 | 31.5 | 84.8 |
| DeltaPine | PM 2167 RR | 999.4 | 40.8 | 2.9 | 4.6 | 1.07 | 30.6 | 81.7 |
| Stoneville | ST 4700 B2RF | 996.1 | 40.2 | 3.0 | 3.9 | 1.18 | 29.3 | 84.1 |
| DeltaPine | DP 147 RF | 992.7 | 42.2 | 2.9 | 4.1 | 1.23 | 31.3 | 84.5 |
| Bayer CropScience | FM 960 B2R | 991.6 | 43.3 | 3.0 | 4.0 | 1.19 | 33.4 | 84.3 |
| Stoneville | ST 4427 B2RF | 990.3 | 40.5 | 2.8 | 3.9 | 1.19 | 29.7 | 85.0 |
| Stoneville | ST 4664 RF | 988.6 | 42.5 | 2.9 | 3.9 | 1.17 | 31.3 | 83.6 |
| Cropland Genetics | CG 3520 B2RF | 982.3 | 41.2 | 3.0 | 4.0 | 1.18 | 27.9 | 84.2 |
| Stoneville | ST 6565 B2RF | 980.7 | 39.5 | 2.9 | 3.9 | 1.20 | 30.9 | 84.3 |
| Bayer CropScience | FM 9060 F | 971.9 | 43.0 | 3.0 | 4.3 | 1.23 | 30.7 | 84.2 |
| United Agri Products | DYNA-GRO 2242 B2RF | 921.8 | 40.6 | 2.9 | 4.0 | 1.18 | 28.0 | 84.1 |

1128.2 42.3

3.0

4.1

1.17 30.6 84.2

Mean

| , , , , , , | verage or perior | Lint | | | | | STR. | |
|----------------------|-----------------------|--------|------|-------|------|-------|------|------|
| | | Yield, | Lint | | | LEN. | (g/ | UNI. |
| Seed Company | Variety | lb/A | % | Vigor | MIC. | (in.) | tex) | (%) |
| DeltaPine | DP 434 RR | 1455.2 | 43.6 | 3.3 | 4.0 | 1.21 | 27.9 | 83.8 |
| PhytoGen | PHY 370 WR | 1455.1 | 43.4 | 3.2 | 4.2 | 1.12 | 29.5 | 83.1 |
| DeltaPine | DP 444 BG/RR | 1454.3 | 44.0 | 3.3 | 3.8 | 1.16 | 29.1 | 84.3 |
| PhytoGen | PHY 310 R | 1447.1 | 43.8 | 3.1 | 4.3 | 1.12 | 29.3 | 83.9 |
| DeltaPine | DP 432 RR | 1399.4 | 41.9 | 3.5 | 4.2 | 1.15 | 29.3 | 83.8 |
| DeltaPine | DP 454 BG/RR | 1397.7 | 44.8 | 3.4 | 3.6 | 1.13 | 29.9 | 83.4 |
| DeltaPine | DP 494 RR | 1390.2 | 43.5 | 3.4 | 4.1 | 1.19 | 31.8 | 83.6 |
| DeltaPine | DP 455 BG/RR | 1390.1 | 44.4 | 3.3 | 3.9 | 1.16 | 31.0 | 82.3 |
| Stoneville | ST 4575 BR | 1385.5 | 43.8 | 3.1 | 4.1 | 1.15 | 29.1 | 83.4 |
| DeltaPine | DP 449 BG/RR | 1383.5 | 42.1 | 3.7 | 4.1 | 1.15 | 31.6 | 83.8 |
| Bayer CropScience | FM 958 LL | 1367.6 | 42.5 | 3.5 | 4.2 | 1.19 | 32.2 | 83.9 |
| Stoneville | ST 5599 BR | 1367.1 | 42.8 | 3.1 | 4.1 | 1.14 | 31.1 | 83.2 |
| DeltaPine | DP 110 RF | 1362.5 | 42.9 | 3.3 | 4.1 | 1.16 | 32.8 | 84.0 |
| DeltaPine | DP 445 BG/RR | 1357.9 | 43.5 | 3.1 | 4.3 | 1.17 | 30.2 | 84.3 |
| DeltaPine | DP 167 RF | 1346.4 | 41.7 | 3.4 | 4.0 | 1.23 | 30.7 | 84.4 |
| DeltaPine | DP 555 BG/RR | 1344.0 | 45.0 | 3.5 | 4.1 | 1.14 | 29.3 | 82.8 |
| DeltaPine | DP 488 BG/RR | 1343.3 | 40.9 | 3.0 | 3.9 | 1.20 | 30.7 | 83.7 |
| DeltaPine | DP 393 | 1337.5 | 43.1 | 3.1 | 4.5 | 1.18 | 30.9 | 84.3 |
| Stoneville | ST 4892 BR | 1320.9 | 43.4 | 3.1 | 4.4 | 1.12 | 29.9 | 83.6 |
| Bayer CropScience | FM 989 BR | 1319.1 | 41.2 | 3.3 | 3.9 | 1.16 | 31.5 | 83.5 |
| Stoneville | ST 4554 B2RF | 1318.7 | 42.9 | 3.2 | 4.3 | 1.16 | 28.8 | 83.3 |
| DeltaPine | DP 143 B2RF | 1316.3 | 40.9 | 3.2 | 3.8 | 1.24 | 29.5 | 83.3 |
| PhytoGen | PHY 480 WR | 1307.2 | 40.6 | 3.2 | 4.2 | 1.17 | 29.3 | 84.3 |
| PhytoGen | PHY 425 RF | 1304.0 | 41.1 | 3.2 | 4.4 | 1.16 | 30.0 | 84.3 |
| Bayer CropScience | FM 960 BR | 1301.1 | 41.7 | 3.2 | 4.1 | 1.13 | 32.9 | 83.3 |
| Stoneville | ST 5242 BR | 1300.3 | 43.1 | 3.1 | 4.2 | 1.12 | 28.0 | 84.1 |
| PhytoGen | PHY 485 WRF | 1295.1 | 42.4 | 3.1 | 4.4 | 1.14 | 30.2 | 84.1 |
| Stoneville | ST 4664 RF | 1292.2 | 43.0 | 3.0 | 4.1 | 1.16 | 30.1 | 83.4 |
| DeltaPine | DP 117 B2RF | 1289.4 | 42.2 | 3.6 | 3.8 | 1.18 | 33.2 | 83.8 |
| United Agri Products | DYNA-GRO 2100 B2RF | 1262.0 | 40.5 | 2.9 | 3.9 | 1.15 | 28.4 | 83.7 |
| Stoneville | ST 4357 B2RF | 1259.4 | 41.6 | 2.9 | 3.9 | 1.21 | 28.1 | 83.9 |
| Croplan Genetics | CG 3020 B2RF | 1258.4 | 40.0 | 2.9 | 3.9 | 1.15 | 27.2 | 84.1 |
| DeltaPine | DP 164 B2RF | 1255.9 | 41.9 | 3.1 | 3.9 | 1.21 | 30.8 | 83.3 |

| Table 2. Two-year average of performance of all cotton varieties. (cont.) | | | | | | | | | |
|---|--------------|----------------|-----------|-------|-----|---------------|-------------|-------------|--|
| | | Lint | | | | | STR. | | |
| Seed Company | Variety | Yield, lb/A | Lint % | Vigor | MIC | LEN. (in.) | (g/ tex) | UNI. (%) | |
| PhytoGen | PHY 470 WR | 1249 7 | 41.6 | 3.3 | 4.3 | 1.13 | 29.1 | 83.4 | |
| DeltaPine | DP 147 RF | 1243.9 | 41.9 | 3.3 | 3.8 | 1.23 | 30.5 | 84.0 | |
| Croplan Genetics | CG 3520 B2RF | 1226.7 | 40.7 | 3.0 | 4.0 | 1.19 | 27.9 | 83.8 | |
| PhytoGen | PHY 72 | 1216.3 | 42.0 | 3.4 | 4.0 | 1.23 | 33.1 | 84.3 | |
| Bayer CropScience | FM 960 B2R | 1120.7 | 41.8 | 3.3 | 4.1 | 1.19 | 32.7 | 83.6 | |
| DeltaPine | PM 2167 RR | 1038.6 | 40.5 | 3.1 | 4.5 | 1.05 | 28.8 | 81.9 | |
| | Mean | 1320.0 | 42.4 | 3.2 | 4.1 | 1.16 | 30.2 | 83.7 | |

| Table 3. Three- | year average of | performance of | of all cott | on varieties. |
|-----------------|-----------------|----------------|-------------|---------------|
| | | | | |

| | | Lint | | | | | STR. | |
|-------------------|--------------|--------|------|-------|------|-------|------|-------|
| 0 | Maniata | Yield, | Lint | \/: | MIC | LEN. | (g/ | UNI. |
| Seed Company | Variety | lb/A | %_ | Vigor | MIC. | (in.) | tex) | _(%)_ |
| DeltaPine | DP 434 RR | 1419.0 | 43.4 | 3.3 | 4.1 | 1.20 | 28.0 | 83.5 |
| DeltaPine | DP 455 BG/RR | 1352.4 | 44.3 | 3.4 | 4.0 | 1.14 | 30.9 | 82.4 |
| DeltaPine | DP 444 BG/RR | 1351.0 | 43.8 | 3.5 | 4.0 | 1.14 | 29.4 | 83.8 |
| Bayer CropScience | FM 958 LL | 1306.9 | 42.2 | 3.6 | 4.3 | 1.18 | 32.4 | 83.7 |
| Stoneville | ST 4892 BR | 1289.7 | 43.3 | 3.1 | 4.6 | 1.10 | 29.5 | 83.5 |
| Bayer CropScience | FM 989 BR | 1283.5 | 41.3 | 3.3 | 4.1 | 1.15 | 31.7 | 83.2 |
| DeltaPine | DP 432 RR | 1282.7 | 41.8 | 3.4 | 4.4 | 1.13 | 29.3 | 83.7 |
| DeltaPine | DP 488 BG/RR | 1259.5 | 41.8 | 3.0 | 4.2 | 1.18 | 31.1 | 83.7 |
| DeltaPine | DP 393 | 1256.6 | 42.7 | 3.3 | 4.6 | 1.17 | 30.9 | 84.1 |
| Stoneville | ST 4575 BR | 1247.1 | 43.2 | 3.1 | 4.3 | 1.12 | 30.2 | 83.2 |
| DeltaPine | DP 494 RR | 1241.2 | 43.5 | 3.4 | 4.3 | 1.17 | 32.1 | 83.4 |
| Stoneville | ST 5242 BR | 1240.7 | 42.7 | 3.2 | 4.4 | 1.10 | 27.8 | 84.0 |
| DeltaPine | DP 445 BG/RR | 1238.1 | 43.4 | 3.1 | 4.4 | 1.15 | 30.1 | 83.8 |
| DeltaPine | DP 449 BG/RR | 1230.4 | 41.8 | 3.2 | 4.3 | 1.13 | 31.1 | 83.6 |
| DeltaPine | DP 555 BG/RR | 1211.2 | 45.0 | 3.7 | 4.3 | 1.13 | 29.3 | 82.5 |
| Stoneville | ST 5599 BR | 1209.2 | 42.4 | 3.0 | 4.2 | 1.13 | 31.3 | 83.1 |
| Bayer CropScience | FM 960 BR | 1189.5 | 41.0 | 3.4 | 4.3 | 1.12 | 32.7 | 83.0 |
| Bayer CropScience | FM 960 B2R | 1070.4 | 41.4 | 3.3 | 4.2 | 1.17 | 32.2 | 83.3 |
| | Mean | 1259.9 | 42.7 | 3.3 | 4.3 | 1.14 | 30.6 | 83.4 |

| Table 4. Location, cooperator, and agent at all variety strip trials, 2006. | | | | | | |
|---|---------------|----------------|--|--|--|--|
| Location | Cooperator | Agent | | | | |
| City of Suffolk | Mike Griffin | Rex Cotton | | | | |
| Isle of Wight | John Allen | Glenn Rountree | | | | |
| Dinwiddie | Lance Everett | Mike Parrish | | | | |
| Sussex | Bob Rogers | Kelvin Wells | | | | |
| New Kent | Jon Black | Paul Davis | | | | |

Table 5. Combined yield, fiber quality, and performance of county variety strip trials (5 locations), 2006.

| | | Lint | | | | | |
|-------------------|--------------|--------|-------|------|-------|---------|------|
| | | Yield, | Lint, | | LEN. | STR. | UNI. |
| Seed Company | Variety | lb/A | % | MIC. | (in.) | (g/tex) | (%) |
| DeltaPine | DP 445 BG/RR | 1246.1 | 45.6 | 4.2 | 1.12 | 30.5 | 83.5 |
| PhytoGen | PHY 370 WR | 1241.3 | 45.4 | 4.6 | 1.08 | 30.1 | 82.8 |
| DeltaPine | DP 454 BG/RR | 1211.1 | 46.8 | 3.9 | 1.09 | 30.3 | 82.3 |
| Stoneville | ST 4575 BR | 1202.7 | 45.1 | 4.4 | 1.10 | 29.6 | 83.1 |
| Stoneville | DP 455 BG/RR | 1183.9 | 46.5 | 4.0 | 1.13 | 31.4 | 82.2 |
| DeltaPine | DP 444 BG/RR | 1173.5 | 46.7 | 3.9 | 1.12 | 29.5 | 83.7 |
| PhytoGen | PHY 485 WRF | 1140.2 | 44.3 | 4.3 | 1.11 | 31.1 | 83.1 |
| Bayer CropScience | FM 989 BR | 1116.3 | 43.6 | 4.1 | 1.14 | 33.1 | 82.5 |
| Stoneville | ST 4554 B2RF | 1110.3 | 43.8 | 4.5 | 1.12 | 30.3 | 83.1 |
| DeltaPine | DP 117 B2RF | 1070.2 | 44.1 | 4.0 | 1.14 | 33.4 | 82.9 |
| | Mean | 1169.6 | 45.2 | 4.2 | 1.12 | 30.9 | 82.9 |