

2011

# Cotton Varieties for Louisiana



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## Introduction

Each year, scientists with the LSU AgCenter evaluate cotton varieties at four locations that are representative of Louisiana's cotton producing regions. The official variety tests are conducted at the LSU AgCenter's Red River Research Station near Bossier City, Dean Lee Research Station near Alexandria, Macon Ridge Research Station near Winnsboro and Northeast Research Station near St. Joseph. Varieties are managed using practices that follow LSU AgCenter recommendations and demonstrate commercial operations as closely as possible. All entries within a trial are replicated four or five times, and data is compiled for average performance after one or two years of testing.

## Choosing varieties

Variety selection is one of the most important decisions a cotton producer will make for the entire growing season. The variety and its associated traits set the stage for harvest at the time of planting. All other input decisions become supplemental after the variety is selected. Variety selection has become increasingly important since the introduction of transgenic cottons and increases in seed cost and associated technology fees. Moreover, variety selection is the one decision a producer makes that is not influenced by environmental factors. Therefore, choosing a high yielding variety with acceptable fiber quality that is adapted to local growing conditions should be given careful consideration because of the tremendous importance of this decision for the entire season.

Choosing a cotton variety can be difficult, and the availability of different transgenic traits often complicates the process. The more informed the decision the better. Therefore, this publication strives to provide as much information as possible to growers concerning cotton variety performance over a range of soil textures and conditions. The information reported concerning measured performance of cotton varieties in Louisiana should be useful as a primary source of information for choosing varieties.

Producers should be mindful that official variety tests can never identify the best single variety for all soils and conditions. Producers should always plant multiple varieties, selected from the top performers in the official variety tests that are closest to their production region. This strategy will help mitigate risks from adverse environmental conditions. There are always differences in performance of individual varieties from one year to the next. In most years, however, those among the top 10 percent of the highest yielding varieties generally remain there for several seasons. The best variety for a particular farm likely resides among the top yielders in the official variety tests, but no one can be certain which of those top yielding varieties will be the highest yielder for the upcoming year. This actually is a good thing because it gives producers the option to select from as many as five to 10 varieties with different traits, knowing that one of

those may be the best for next year's crop. The majority of a grower's acreage should be devoted to proven varieties. Newer varieties should be evaluated on limited acreage until further testing is completed.

## Fiber properties

Fiber quality has become a more important consideration in marketing cotton and choosing varieties. As the domestic textile industry has become very limited, most U.S. cotton is exported to foreign mills that generally demand cotton with the most consistent and highest fiber quality properties. The quality of Louisiana cotton has been a concern in recent years, particularly with regard to high micronaire. While premiums are small, discounts for high micronaire and other factors can be significant. Variety selection plays the largest role in fiber properties and is increasingly important for U.S. cotton to maintain and increase presence in the world market.

Fiber parameters in the official variety tests were determined using the same high-volume-instrumentation classing system used by U.S. Department of Agriculture classing offices. Physical properties, including staple length (reported as the upper half mean length or UHM), fiber strength, uniformity index and micronaire, were evaluated and are reported for each variety.

Other fiber properties such as leaf, trash and color grades can be influenced by defoliation, ginning and seed cotton storage in modules. Since official variety tests may not be representative of commercial operations for these fiber properties, those properties are not reported in this publication.

## Using the data

Yield should be the primary factor when considering the selection of a variety, followed by fiber quality and maturity. Top yielding varieties should be considered first. There is often no statistical difference between the top yielding varieties in a given trial. The least significant difference reported below each table is the smallest difference in yield that can be considered a "true" difference. The most important factor is not the absolute number reported for a cotton variety's yield or fiber quality. The most important question to answer is "How did a variety yield relative to other varieties in the same trial?" Another important number to look for is the test average yield. Considering a variety's performance relative to the average for the entire trial will help identify varieties that are above average for a given location.

Cotton varieties should be chosen by considering their performance across several locations and years of testing. Superior performance in one year often can indicate a good variety, but superior performance over several multiple years indicates consistency and reliability. Varieties currently are introduced at a rapid pace and have shorter life spans than in the past. Data for the

newest varieties are often not available for multiple years. For these new varieties that do not yet have multiyear performance records, it is best to consider performance averaged across several locations during a variety's first year of testing.

Grower experience with a variety is important for several reasons. Cotton varieties have different growth habits and can be locally adapted to a small area. Experience with a variety should be considered, but newer varieties that perform well in official variety tests also should be considered.

## Variety evaluation

The LSU AgCenter identifies the top tier of high yielding varieties at each location by the use of a statistical test called the least significant difference. A probability level of 5 percent is used, which means that the test correctly identifies variety performance for that location with 95 percent certainty. The group of varieties that is statistically the highest yielding is shown in each table in bold print. To identify promising varieties that are new to the market and which have only one year of testing in the official variety tests, a multiple-location analysis is performed. Producers should review the data tables for variety performance at the closest location that is most representative of their individual farms and also review statewide multilocation yield averages for consistency of performance over a range of environments.

## Transgenic traits

**Roundup Ready:** Transgenic traits are available for glyphosate tolerance, usually indicated by Roundup Ready Flex (RF or F). The Flex varieties have been commercially available since 2006 and completely replaced the older Roundup Ready (R or RR) varieties. Roundup Ready Flex varieties exhibit increased tolerance, particularly in the fruiting stage, to glyphosate applications. Roundup Ready Flex labeling allows over-the-top applications of glyphosate to Flex varieties into the bloom stage and does not restrict contact with the stem for directed applications. Read and follow the label closely for specific restrictions. Moreover, growers should consult the label for specific glyphosate formulations permitted for use on Roundup Ready Flex varieties.

Weed control is a major factor in producing high yielding, high quality cotton. Because of the increased flexibility for applying glyphosate over the top to Roundup Ready Flex varieties, some growers may opt to wait until weeds emerge and get some size before making applications. This is not recommended, particularly for early season weed control. Early weed competition can severely reduce yield. Glyphosate is very effective on a wide range of species, particularly when they are small. Applications should be timed to weed size and not other factors. Moreover, reliance on one mode of action for weed control is not recommended and has led to herbicide resistant weeds. Due to the concerns with

glyphosate resistant weeds, the use of other herbicides in addition to glyphosate is strongly encouraged. Growers should note that glyphosate resistant Palmer amaranth was identified in Louisiana in 2010. Consult the LSU AgCenter's 2010 "Controlling Weeds in Cotton" for more information.

**Liberty Link:** Varieties with the designation LL in their brand names are transgenic varieties tolerant to over-the-top application of Ignite 280 or Ignite (glufosinate). These varieties can be managed in a Liberty Link weed control program, which is covered in more detail in the LSU AgCenter's 2010 "Controlling Weeds in Cotton" publication. Liberty Link cotton is tolerant to Ignite but will be injured by applications or drift from glyphosate. On farms or in areas where Liberty Link cotton is grown near Roundup Ready Flex cotton, care should be taken to avoid confusion of the herbicide systems and to reduce the potential for mistaken applications or drift.

**Bollgard and Bollgard 2:** Varieties with the designations B, BG, B2 or BG2 in their brand names are cotton lines that are tolerant to the tobacco budworm, a Louisiana caterpillar pest. After the successful introduction of Bollgard 2 technology into the market, the U.S. Environmental Protection Agency required in 2010 that all Bollgard-only technology be prohibited from future planting because of its single-gene-site activity.

Varieties that include Bollgard 2 technology should not need any supplemental insecticide sprays for control of tobacco budworm. They also are tolerant of the bollworm, soybean looper and beat armyworm. For these and other caterpillar pests, note that under high and persistent populations, supplemental chemical control strategies will be necessary to provide satisfactory management. In addition, the insecticidal traits in Bollgard 2 varieties have no activity against non-caterpillar pests such as thrips, aphids, plant bugs, stink bugs and spider mites, and those pests must be managed with conventional integrated pest management practices.

**Widestrike:** PhytoGen varieties with the designation W or WS2 in their brand names are cotton lines that are tolerant to two Louisiana caterpillar pests, tobacco budworms and fall armyworms. These varieties should not need any supplemental insecticidal sprays for control of these pests. The characteristics and insect management recommendations previously mentioned for Bollgard 2 traits remain the same for the Widestrike trait in PhytoGen varieties.

## Seeding rate and stand

Two to three plants per row foot is the ideal final plant population in 30- to 40-inch rows. To achieve this population, seeding rates should be slightly higher based on the actual stated germination. Seed size varies, and the seed number per pound of seed ranges from a low of 3,700 up to a high of 5,800. Therefore, seeding rates have to be based on seed numbers per acre and not

pounds of seed per acre. To ensure the best seedling emergence, planting should be scheduled during the most favorable conditions possible for existing and forecasted temperature and soil moisture.

Most cotton seed sold will have at least an 80 percent germination reported on the bag. This is the result of the warm germination test. Field conditions typically are more adverse than laboratory tests, however. The cool germination test can approximate adverse field conditions and is a measure of seed vigor. Results from the cool germination test are not reported on the bag but can be obtained from the seed company. Growers are encouraged to request this information.

Being aware of the cool germination test results is more important than determining what is actually a good or bad cool germination rate. For example, a seed lot with 85 percent cool germination is more vigorous than one with a 65 percent cool germination test result. If the 65 percent cool germination lot is planted in good, warm conditions, however, overall germination is likely to as high as the 85 percent lot. On the other hand, under

adverse conditions the 85 percent cool germination lot is likely to germinate at a much higher rate than the 65 percent cool germination lot. A somewhat arbitrary division of the cool germination test results is shown in the following table:

| Cool Germination % | Vigor  |
|--------------------|--|
| Greater than 80%   | Excellent  |
| 65-80%             | Good   |
| 50-65%             | Acceptable – plant under good conditions           |
| Less than 50%      | Poor – most seed companies will not sell this seed |

Remember, a cotton seed is a living organism that is used as a delivery mechanism for genetic traits, for transgenic technology and often for pesticide seed treatments. Care should be taken to preserve and plant high quality seed to ensure adequate plant stands.

**Table 1. Two-year yield performance of early maturing cotton varieties cultivated in a non-irrigated environment at three locations during 2009 and 2010.**

| Variety     | Location, soil texture, and year |      |  |      |      |      |            |      |      |           | Average across location and years |      |
|-------------|----------------------------------|------|--|------|------|------|------------|------|------|-----------|-----------------------------------|------|
|             | Alexandria                       |      |  |      |      |      | St. Joseph |      |      | Winnsboro |                                   |      |
|             | Silt loam                        |      |  | Clay |      |      | Silt loam  |      |      | Silt loam |                                   |      |
|             | 2009                             | 2010 |  | 2009 | 2010 | 2009 | 2010       | 2009 | 2010 |           |                                   |      |
|             | -----lb lint/acre-----           |      |  |      |      |      |            |      |      |           |                                   |      |
| AM1550B2RF  | 963                              | 1269 |  | 1592 | 1562 |      | 628        | 563  |      | 721       | 553                               | 981  |
| BCSX1010B2F | 997                              | 1369 |  | 1551 | 1682 |      | 743        | 548  |      | 671       | 612                               | 1022 |
| CG3020B2RF  | 922                              | 921  |  | 1533 | 1522 |      | 785        | 584  |      | 670       | 337                               | 909  |
| CG3035RF    | 564                              | 1213 |  | 655  | 1543 |      | 758        | 608  |      | 644       | 529                               | 814  |
| CG3220B2RF  | 908                              | 1131 |  | 1637 | 1621 |      | 725        | 507  |      | 675       | 597                               | 975  |
| CG3520B2RF  | 884                              | 993  |  | 1376 | 1576 |      | 775        | 565  |      | 618       | 487                               | 909  |
| CG4020B2RF  | 859                              | 1250 |  | 1377 | 1507 |      | 773        | 626  |      | 661       | 445                               | 937  |
| DG2570B2RF  | 840                              | 1216 |  | 1697 | 1679 |      | 738        | 544  |      | 740       | 595                               | 1006 |
| DP0912B2RF  | <b>1178</b>                      | 1403 |  | 1796 | 1835 |      | 906        | 699  |      | 771       | 590                               | 1147 |
| DP0924B2RF  | <b>1077</b>                      | 1135 |  | 1564 | 1649 |      | 896        | 538  |      | 763       | 559                               | 1023 |
| DP0935B2RF  | 898                              | 1403 |  | 1627 | 1550 |      | ---        | 549  |      | 725       | 453                               | 1029 |
| HQCT210     | 577                              | 1030 |  | 600  | 1082 |      | 819        | 553  |      | 548       | 391                               | 700  |
| FM1740B2F   | <b>1136</b>                      | 1279 |  | 1783 | 1949 |      | 708        | 767  |      | 678       | 496                               | 1100 |
| PHY367WRF   | 897                              | 1249 |  | 1567 | 1747 |      | 663        | 733  |      | 768       | 469                               | 1012 |
| PHY375WRF   | 1001                             | 1357 |  | 1510 | 1823 |      | 835        | 720  |      | 797       | 479                               | 1065 |
| PHY485WRF   | 963                              | 1219 |  | 1537 | 1740 |      | 894        | 697  |      | 820       | 575                               | 1056 |
| ST4288B2F   | 1010                             | 1052 |  | 1574 | 1545 |      | 872        | 709  |      | 733       | 543                               | 1005 |
| ST5458B2RF  | 966                              | 1189 |  | 1794 | 1833 |      | 700        | 732  |      | 854       | 483                               | 1069 |

**Note:** Bossier City data was not included due to wet weather conditions significantly influencing timely harvest in 2009.

**Table 2. Two-year yield performance of early maturing cotton varieties cultivated in an irrigated environment at two locations during 2009 and 2010.**

| Variety                | Location, soil texture, and year |      |           |      | Average across location and years |
|------------------------|----------------------------------|------|-----------|------|-----------------------------------|
|                        | St. Joseph                       |      | Winnsboro |      |                                   |
|                        | Clay                             |      | Silt loam |      |                                   |
|                        | 2009                             | 2010 | 2009      | 2010 |                                   |
| -----lb lint/acre----- |                                  |      |           |      |                                   |
| AM1550B2RF             | 984                              | 836  | 990       | 1085 | 974                               |
| BCSX1010B2F            | 960                              | 863  | 1054      | 1165 | 1011                              |
| CG3020B2RF             | 856                              | 661  | 818       | 901  | 809                               |
| CG3035RF               | 996                              | 861  | 1002      | 1136 | 999                               |
| CG3220B2RF             | 973                              | 935  | 899       | 1185 | 998                               |
| CG3520B2RF             | 839                              | 848  | 872       | 943  | 876                               |
| CG4020B2RF             | 895                              | 869  | 886       | 1105 | 939                               |
| DG2570B2RF             | 967                              | 856  | 1063      | 1095 | 995                               |
| DP0912B2RF             | 1209                             | 1175 | 1073      | 1275 | 1183                              |
| DP0924B2RF             | 1150                             | 792  | 1013      | 1208 | 1041                              |
| DP0935B2RF             | 942                              | 871  | 1050      | 1125 | 997                               |
| HQCT210                | 906                              | 744  | 1084      | 1108 | 961                               |
| FM1740B2F              | 1187                             | 959  | 1069      | 1288 | 1126                              |
| PHY367WRF              | 1005                             | 1007 | 1019      | 1244 | 1069                              |
| PHY375WRF              | 1031                             | 949  | 1065      | 1167 | 1053                              |
| PHY485WRF              | 1022                             | 1060 | 1174      | 1223 | 1120                              |
| ST4288B2F              | 1077                             | 894  | 1095      | 1303 | 1092                              |
| ST5458B2RF             | 1032                             | 1225 | 1203      | 1070 | 1133                              |

**Table 3. One-year yield performance of early maturing cotton varieties cultivated in a non-irrigated environment at four locations during 2010.**

| Variety                | Location and soil texture |             |              |            |            | Average across locations |
|------------------------|---------------------------|-------------|--------------|------------|------------|--------------------------|
|                        | Alexandria                |             | Bossier City | St. Joseph | Winnsboro  |                          |
|                        | Silt loam                 | Clay        | Clay         | Silt loam  | Silt loam  |                          |
| -----lb lint/acre----- |                           |             |              |            |            |                          |
| DP0912B2RF             | <b>1403</b>               | <b>1835</b> | <b>1584</b>  | <b>699</b> | 590        | <b>1222</b>              |
| 09R555B2R2             | 1294                      | <b>1967</b> | <b>1485</b>  | 629        | <b>697</b> | <b>1236</b>              |
| 09R619B2R2             | <b>1405</b>               | 1813        | <b>1451</b>  | 566        | <b>767</b> | <b>1234</b>              |
| DP0924B2RF             | 1135                      | 1649        | <b>1433</b>  | 538        | 559        | 1121                     |
| ST5288B2F              | <b>1506</b>               | <b>1993</b> | <b>1430</b>  | <b>789</b> | <b>691</b> | <b>1270</b>              |
| DG2570B2RF             | 1216                      | 1679        | 1394         | 544        | 595        | 1086                     |
| ST5458B2F‡             | 1189                      | <b>1833</b> | 1370         | <b>732</b> | 483        | 1122                     |
| DP0935B2RF‡            | <b>1403</b>               | 1550        | 1340         | 549        | 453        | 1059                     |
| BCSX1010B2F            | <b>1369</b>               | 1682        | 1335         | 548        | 612        | 1139                     |
| CG3220B2RF             | 1131                      | 1621        | 1316         | 507        | 597        | 1075                     |
| CG4020B2RF             | 1250                      | 1507        | 1311         | 626        | 445        | 1022                     |
| PHY485WRF              | 1219                      | 1740        | 1302         | <b>697</b> | 575        | 1107                     |
| PHY375WRF              | <b>1357</b>               | 1823        | 1284         | <b>720</b> | 479        | 1125                     |
| PHY367WRF              | 1249                      | 1747        | 1272         | <b>733</b> | 469        | 1113                     |
| BCSX1040B2F            | 1163                      | 1572        | 1256         | 661        | 591        | 1069                     |
| DG2450B2RF             | 1223                      | 1582        | 1240         | 578        | 550        | 1034                     |
| AM1550B2RF             | 1269                      | 1562        | 1211         | 563        | 553        | 1056                     |
| BCSX1030B2F            | <b>1345</b>               | 1655        | 1210         | 632        | 531        | 1075                     |

| Variety             | Location and soil texture |             |              |            |           | Average across locations |
|---------------------|---------------------------|-------------|--------------|------------|-----------|--------------------------|
|                     | Alexandria                |             | Bossier City | St. Joseph | Winnsboro |                          |
|                     | Silt loam                 | Clay        | Clay         | Silt loam  | Silt loam |                          |
|                     | -----lb lint/acre†-----   |             |              |            |           |                          |
| ST4288B2F           | 1052                      | 1545        | 1187         | <b>709</b> | 543       | 998                      |
| FM1740B2F           | 1279                      | <b>1949</b> | 1162         | <b>767</b> | 496       | 1130                     |
| CG3520B2RF          | 993                       | 1576        | 1128         | 565        | 487       | 950                      |
| CG3020B2RF          | 921                       | 1522        | 1112         | 584        | 337       | 895                      |
| CG3035RF            | 1213                      | 1543        | 776          | 608        | 529       | 904                      |
| PSC355              | 1132                      | 1475        | 765          | 643        | 470       | 897                      |
| DP393               | 1115                      | 1245        | 593          | 500        | 501       | 805                      |
| HQ210CT             | 1030                      | 1082        | 529          | 553        | 391       | 774                      |
|                     |                           |             |              |            |           |                          |
| <b>Overall Mean</b> | 1222                      | 1647        | 1215         | 631        | 538       | 1058                     |
| <b>LSD(0.05)</b>    | 166                       | 169         | 164          | 103        | 105       | 102                      |
| <b>C.V. (%)</b>     | 9.51                      | 7.13        | 9.35         | 10.15      | 13.91     | 18.18                    |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 4. One-year yield performance of early maturing cotton varieties cultivated in an irrigated environment at two locations during 2010.**

| Variety     | Location and soil texture |             | Average across locations |
|-------------|---------------------------|-------------|--------------------------|
|             | St. Joseph                | Winnsboro   |                          |
|             | Clay                      | Silt loam   |                          |
|             | -----lb lint/acre†-----   |             |                          |
| DP0912B2RF  | <b>1175</b>               | 1275        | 1200                     |
| 09R555B2R2  | 1138                      | <b>1463</b> | <b>1324</b>              |
| 09R619B2R2  | 878                       | <b>1433</b> | 1163                     |
| DP0924B2RF  | 792                       | 1208        | 994                      |
| ST5288B2F   | <b>1311</b>               | 1255        | <b>1283</b>              |
| DG2570B2RF  | 856                       | 1095        | 963                      |
| ST5458B2F‡  | <b>1225</b>               | 1070        | 1157                     |
| DP0935B2RF‡ | 871                       | 1125        | 1016                     |
| BCSX1010B2F | 863                       | 1165        | 1014                     |
| CG3220B2RF  | 935                       | 1185        | 1060                     |
| CG4020B2RF  | 869                       | 1105        | 987                      |
| PHY485WRF   | 1060                      | 1223        | 1142                     |
| PHY375WRF   | 949                       | 1167        | 1058                     |
| PHY367WRF   | 1007                      | 1244        | 1113                     |
| BCSX1040B2F | 841                       | 1039        | 940                      |
| DG2450B2RF  | 805                       | 1144        | 974                      |
| AM1550B2RF  | 836                       | 1085        | 960                      |
| BCSX1030B2F | 951                       | 1054        | 1002                     |
| ST4288B2F   | 894                       | 1303        | 1098                     |
| FM1740B2F   | 959                       | 1288        | 1124                     |
| CG3520B2RF  | 848                       | 943         | 896                      |
| CG3020B2RF  | 661                       | 901         | 781                      |
| CG3035RF    | 861                       | 1136        | 998                      |
| PSC355      | 1035                      | 1256        | 1146                     |

| Variety             | Location and soil texture |           | Average across locations |
|---------------------|---------------------------|-----------|--------------------------|
|                     | St. Joseph                | Winnsboro |                          |
|                     | Clay                      | Silt loam |                          |
|                     | -----lb lint/acre†-----   |           |                          |
| DP393               | 723                       | 1099      | 911                      |
| HQ210CT             | 744                       | 1108      | 926                      |
|                     |                           |           |                          |
| <b>Overall Mean</b> | 924.71                    | 1168      | 1044                     |
| <b>LSD(0.05)</b>    | 152                       | 115       | 74                       |
| <b>C.V. (%)</b>     | 11.53                     | 6.98      | 8.37                     |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 5. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a non-irrigated Latanier clay at the Dean Lee Research Station, Alexandria, LA during 2010.**

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF          | <b>1835</b>    | 36.75  | 1.14   | 5.03       | 31.48    | 83.90      |
| 09R555B2R2          | <b>1967</b>    | 41.00  | 1.22   | 4.47       | 34.33    | 84.47      |
| 09R619B2R2          | 1813           | 40.00  | 1.19   | 4.53       | 32.30    | 85.13      |
| DP0924B2RF          | 1649           | 37.50  | 1.15   | 4.63       | 32.55    | 83.70      |
| ST5288B2F           | <b>1993</b>    | 39.50  | 1.18   | 4.60       | 31.00    | 82.83      |
| DG2570B2RF          | 1679           | 38.00  | 1.18   | 4.73       | 33.77    | 84.43      |
| ST5458B2F‡          | <b>1833</b>    | 38.00  | 1.18   | 4.63       | 32.95    | 83.58      |
| DP0935B2RF‡         | 1550           | 38.00  | 1.17   | 4.30       | 31.88    | 83.60      |
| BCSX1010B2F         | 1682           | 36.00  | 1.20   | 4.35       | 30.93    | 83.85      |
| CG3220B2RF          | 1621           | 37.00  | 1.18   | 4.60       | 32.45    | 84.33      |
| CG4020B2RF          | 1507           | 35.25  | 1.19   | 4.43       | 30.78    | 84.05      |
| PHY485WRF           | 1740           | 37.25  | 1.17   | 4.55       | 34.83    | 84.40      |
| PHY375WRF           | 1823           | 37.75  | 1.18   | 4.00       | 32.20    | 83.67      |
| PHY367WRF           | 1747           | 38.00  | 1.16   | 4.30       | 33.25    | 83.63      |
| BCSX1040B2F         | 1572           | 33.50  | 1.23   | 4.57       | 32.57    | 85.23      |
| DG2450B2RF          | 1582           | 36.00  | 1.19   | 4.30       | 31.13    | 84.08      |
| AM1550B2RF          | 1562           | 36.00  | 1.14   | 4.73       | 30.88    | 83.83      |
| BCSX1030B2F         | 1655           | 37.25  | 1.16   | 4.43       | 31.15    | 83.25      |
| ST4288B2F           | 1545           | 34.50  | 1.19   | 4.53       | 32.27    | 82.67      |
| FM1740B2F           | <b>1949</b>    | 38.25  | 1.18   | 4.63       | 32.53    | 84.03      |
| CG3520B2RF          | 1576           | 35.50  | 1.19   | 4.38       | 31.23    | 84.23      |
| CG3020B2RF          | 1522           | 33.75  | 1.14   | 4.18       | 30.95    | 84.28      |
| CG3035RF            | 1543           | 37.50  | 1.17   | 4.70       | 33.30    | 84.50      |
| PSC355              | 1475           | 36.75  | 1.16   | 4.83       | 35.05    | 84.58      |
| DP393               | 1245           | 36.50  | 1.19   | 4.27       | 33.77    | 84.33      |
| HQ210CT             | 1082           | 34.25  | 1.18   | 4.30       | 34.63    | 83.00      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1647           | 36.91  | 1.18   | 4.50       | 32.40    | 83.98      |
| <b>LSD(0.05)</b>    | 169            | 1.48   | 0.03   | 0.27       | 1.30     | 1.16       |
| <b>C.V. (%)</b>     | 7.13           | 2.86   | 1.86   | 4.01       | 2.67     | 0.92       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.



**Table 6. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a non-irrigated Coshatta silt loam at the Dean Lee Research Station, Alexandria, LA during 2010.**

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF          | <b>1403</b>    | 39.00  | 1.11   | 4.90       | 29.63    | 82.83      |
| 09R555B2R2          | 1294           | 41.25  | 1.12   | 4.85       | 31.90    | 83.43      |
| 09R619B2R2          | <b>1405</b>    | 41.75  | 1.14   | 4.90       | 29.25    | 83.28      |
| DP0924B2RF          | 1135           | 38.25  | 1.11   | 4.80       | 29.08    | 83.08      |
| ST5288B2F           | <b>1506</b>    | 39.50  | 1.14   | 4.83       | 29.60    | 82.30      |
| DG2570B2RF          | 1216           | 37.75  | 1.10   | 4.55       | 30.30    | 82.70      |
| ST5458B2F‡          | 1189           | 38.00  | 1.13   | 4.58       | 29.60    | 82.28      |
| DP0935B2RF‡         | <b>1403</b>    | 39.75  | 1.11   | 4.50       | 30.03    | 82.35      |
| BCSX1010B2F         | <b>1369</b>    | 38.25  | 1.14   | 4.63       | 28.70    | 82.40      |
| CG3220B2RF          | 1131           | 39.25  | 1.12   | 4.43       | 29.63    | 82.75      |
| CG4020B2RF          | 1250           | 38.50  | 1.15   | 4.28       | 28.63    | 82.73      |
| PHY485WRF           | 1219           | 39.00  | 1.13   | 4.83       | 31.55    | 82.98      |
| PHY375WRF           | <b>1357</b>    | 39.75  | 1.12   | 4.45       | 28.58    | 82.88      |
| PHY367WRF           | 1249           | 38.75  | 1.15   | 4.38       | 31.08    | 82.80      |
| BCSX1040B2F         | 1163           | 34.50  | 1.18   | 4.40       | 29.50    | 83.30      |
| DG2450B2RF          | 1223           | 37.50  | 1.13   | 4.25       | 28.10    | 82.55      |
| AM1550B2RF          | 1269           | 40.00  | 1.10   | 4.53       | 28.88    | 82.75      |
| BCSX1030B2F         | <b>1345</b>    | 39.75  | 1.12   | 4.25       | 27.70    | 82.65      |
| ST4288B2F           | 1052           | 37.50  | 1.14   | 4.55       | 29.08    | 82.73      |
| FM1740B2F           | 1279           | 39.00  | 1.13   | 4.45       | 29.15    | 82.70      |
| CG3520B2RF          | 993            | 36.75  | 1.13   | 4.38       | 28.58    | 82.60      |
| CG3020B2RF          | 921            | 34.75  | 1.09   | 3.83       | 27.50    | 82.20      |
| CG3035RF            | 1213           | 40.50  | 1.10   | 4.68       | 29.83    | 82.23      |
| PSC355              | 1132           | 38.00  | 1.10   | 5.13       | 31.18    | 82.88      |
| DP393               | 1115           | 38.00  | 1.14   | 4.83       | 31.63    | 83.25      |
| HQ210CT             | 1030           | 38.75  | 1.15   | 4.40       | 30.10    | 82.65      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1222           | 38.61  | 1.13   | 4.55       | 29.57    | 82.74      |
| <b>LSD(0.05)</b>    | 166            | 2.00   | 0.03   | 0.33       | 1.71     | NS         |
| <b>C.V. (%)</b>     | 9.51           | 4.22   | 1.97   | 5.08       | 4.11     | 0.93       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 7. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a non-irrigated Moreland clay at the Red River Research Station, Bossier City, LA during 2010.**

| Variety    | Measurement    |        |        |            |          |            |
|------------|----------------|--------|--------|------------|----------|------------|
|            | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|            | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF | <b>1584</b>    | 38.5   | 1.07   | 4.78       | 29.53    | 82.13      |
| 09R555B2R2 | <b>1485</b>    | 40.4   | 1.12   | 4.83       | 32.48    | 83.10      |
| 09R619B2R2 | <b>1451</b>    | 40.6   | 1.09   | 4.65       | 28.95    | 82.33      |
| DP0924B2RF | <b>1433</b>    | 38.3   | 1.09   | 4.60       | 29.90    | 82.38      |
| ST5288B2F  | <b>1430</b>    | 39.0   | 1.08   | 4.83       | 27.53    | 81.35      |
| DG2570B2RF | 1394           | 39.9   | 1.07   | 4.48       | 28.83    | 82.80      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| ST5458B2F‡          | 1370           | 38.4   | 1.11   | 4.83       | 29.20    | 81.75      |
| DP0935B2RF‡         | 1340           | 39.3   | 1.08   | 4.43       | 29.13    | 81.73      |
| BCSX1010B2F         | 1335           | 37.1   | 1.10   | 4.05       | 27.35    | 81.48      |
| CG3220B2RF          | 1316           | 34.8   | 1.11   | 4.40       | 30.00    | 82.70      |
| CG4020B2RF          | 1311           | 38.1   | 1.11   | 4.08       | 27.18    | 81.63      |
| PHY485WRF           | 1302           | 36.8   | 1.09   | 4.65       | 31.43    | 82.78      |
| PHY375WRF           | 1284           | 38.9   | 1.07   | 4.37       | 28.23    | 81.87      |
| PHY367WRF           | 1272           | 37.2   | 1.11   | 4.30       | 30.70    | 82.13      |
| BCSX1040B2F         | 1256           | 33.3   | 1.21   | 4.43       | 30.33    | 83.68      |
| DG2450B2RF          | 1240           | 35.7   | 1.11   | 4.23       | 27.40    | 82.08      |
| AM1550B2RF          | 1211           | 37.2   | 1.07   | 4.55       | 27.25    | 82.20      |
| BCSX1030B2F         | 1210           | 37.9   | 1.09   | 4.15       | 28.05    | 81.95      |
| ST4288B2F           | 1187           | 33.5   | 1.12   | 4.63       | 29.58    | 82.43      |
| FM1740B2F           | 1162           | 39.5   | 1.10   | 4.63       | 30.23    | 82.33      |
| CG3520B2RF          | 1128           | 35.1   | 1.11   | 4.28       | 28.00    | 82.23      |
| CG3020B2RF          | 1112           | 37.1   | 1.07   | 4.00       | 27.15    | 82.43      |
| CG3035RF            | 776            | 38.6   | 1.09   | 4.33       | 31.23    | 82.55      |
| PSC355              | 765            | 38.1   | 1.07   | 4.86       | 33.43    | 83.30      |
| DP393               | 593            | 35.3   | 1.11   | 4.35       | 32.80    | 82.50      |
| HQ210CT             | 529            | 35.9   | 1.06   | 4.33       | 30.23    | 81.00      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1215           | 37.5   | 1.09   | 4.46       | 29.41    | 82.26      |
| <b>LSD(0.05)</b>    | 164            | 2.20   | 0.03   | 0.21       | 1.18     | 0.79       |
| <b>C.V. (%)</b>     | 9.35           | 3.92   | 1.76   | 3.21       | 2.79     | 0.66       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 8. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an irrigated Sharkey clay at the Northeast Research Station, St. Joseph, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF  | <b>1175</b>    | 36.22  | 1.13   | 4.65       | 29.98    | 82.45      |
| 09R555B2R2  | 1138           | 39.21  | 1.22   | 4.48       | 34.23    | 84.35      |
| 09R619B2R2  | 878            | 38.37  | 1.18   | 4.48       | 30.45    | 82.95      |
| DP0924B2RF  | 792            | 35.54  | 1.12   | 4.68       | 30.00    | 82.25      |
| ST5288B2F   | <b>1311</b>    | 38.42  | 1.16   | 4.50       | 30.00    | 81.80      |
| DG2570B2RF  | 856            | 36.02  | 1.15   | 4.58       | 31.98    | 83.38      |
| ST5458B2F‡  | <b>1225</b>    | 36.64  | 1.18   | 4.68       | 31.33    | 83.18      |
| DP0935B2RF‡ | 871            | 37.48  | 1.14   | 4.45       | 30.43    | 82.55      |
| BCSX1010B2F | 863            | 34.91  | 1.18   | 4.33       | 29.90    | 83.28      |
| CG3220B2RF  | 935            | 35.36  | 1.15   | 4.60       | 31.00    | 82.88      |
| CG4020B2RF  | 869            | 33.36  | 1.16   | 4.38       | 29.30    | 83.13      |
| PHY485WRF   | 1060           | 34.98  | 1.17   | 4.40       | 33.07    | 83.03      |
| PHY375WRF   | 949            | 36.64  | 1.16   | 4.38       | 30.33    | 83.13      |
| PHY367WRF   | 1007           | 35.02  | 1.16   | 4.18       | 31.78    | 82.48      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| BCSX1040B2F         | 841            | 34.21  | 1.23   | 4.28       | 31.43    | 84.13      |
| DG2450B2RF          | 805            | 34.92  | 1.16   | 4.28       | 29.03    | 82.93      |
| AM1550B2RF          | 836            | 35.44  | 1.12   | 4.55       | 29.43    | 82.65      |
| BCSX1030B2F         | 951            | 36.87  | 1.13   | 4.63       | 29.45    | 82.60      |
| ST4288B2F           | 894            | 33.29  | 1.17   | 4.40       | 30.40    | 82.48      |
| FM1740B2F           | 959            | 35.18  | 1.16   | 4.78       | 31.65    | 83.03      |
| CG3520B2RF          | 848            | 33.00  | 1.13   | 4.45       | 29.30    | 83.05      |
| CG3020B2RF          | 661            | 30.42  | 1.12   | 4.15       | 29.60    | 82.85      |
| CG3035RF            | 861            | 37.64  | 1.15   | 4.40       | 31.13    | 82.50      |
| PSC355              | 1035           | 33.80  | 1.14   | 4.68       | 32.40    | 83.38      |
| DP393               | 723            | 34.82  | 1.18   | 4.33       | 32.45    | 83.15      |
| HQ210CT             | 744            | 36.44  | 1.15   | 4.45       | 30.30    | 82.53      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 924.71         | 35.55  | 1.16   | 4.46       | 30.78    | 82.93      |
| <b>LSD(0.05)</b>    | 152            | 2.00   | 0.02   | 0.25       | 1.32     | 1.04       |
| <b>C.V. (%)</b>     | 11.53          | 4.00   | 1.50   | 3.90       | 3.05     | 0.89       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 9. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a non-irrigated Commerce silt loam at the Northeast Research Station, St. Joseph, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF  | <b>699</b>     | 35.81  | 1.11   | 5.25       | 31.30    | 82.38      |
| 09R555B2R2  | 629            | 40.42  | 1.22   | 4.70       | 33.65    | 84.05      |
| 09R619B2R2  | 566            | 39.42  | 1.17   | 4.75       | 31.20    | 83.75      |
| DP0924B2RF  | 538            | 35.54  | 1.11   | 5.10       | 31.23    | 82.55      |
| ST5288B2F   | <b>789</b>     | 37.75  | 1.16   | 4.90       | 29.93    | 82.18      |
| DG2570B2RF  | 544            | 37.32  | 1.14   | 5.10       | 32.83    | 83.35      |
| ST5458B2F‡  | <b>732</b>     | 35.87  | 1.20   | 4.90       | 32.15    | 83.10      |
| DP0935B2RF‡ | 549            | 37.54  | 1.14   | 4.93       | 31.10    | 83.10      |
| BCSX1010B2F | 548            | 34.80  | 1.18   | 4.70       | 30.38    | 82.95      |
| CG3220B2RF  | 507            | 35.45  | 1.16   | 4.97       | 32.10    | 83.83      |
| CG4020B2RF  | 626            | 36.65  | 1.16   | 4.68       | 29.85    | 83.28      |
| PHY485WRF   | <b>697</b>     | 35.58  | 1.16   | 4.95       | 33.80    | 83.33      |
| PHY375WRF   | <b>720</b>     | 35.99  | 1.17   | 4.63       | 30.55    | 83.45      |
| PHY367WRF   | <b>733</b>     | 35.96  | 1.17   | 4.58       | 32.95    | 83.65      |
| BCSX1040B2F | 661            | 31.71  | 1.22   | 4.78       | 32.50    | 84.50      |
| DG2450B2RF  | 578            | 33.14  | 1.16   | 4.68       | 29.78    | 83.28      |
| AM1550B2RF  | 563            | 37.17  | 1.13   | 4.90       | 30.55    | 82.93      |
| BCSX1030B2F | 632            | 36.36  | 1.16   | 4.73       | 30.40    | 83.50      |
| ST4288B2F   | <b>709</b>     | 35.15  | 1.18   | 4.68       | 31.38    | 82.25      |
| FM1740B2F   | <b>767</b>     | 37.12  | 1.17   | 5.00       | 31.90    | 83.80      |
| CG3520B2RF  | 565            | 33.52  | 1.15   | 4.68       | 30.35    | 83.73      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| CG3020B2RF          | 584            | 32.27  | 1.12   | 4.48       | 29.28    | 83.30      |
| CG3035RF            | 608            | 37.86  | 1.14   | 5.03       | 31.77    | 82.97      |
| PSC355              | 643            | 35.03  | 1.17   | 5.08       | 34.83    | 84.08      |
| DP393               | 500            | 34.12  | 1.19   | 4.93       | 33.38    | 83.28      |
| HQ210CT             | 553            | 33.72  | 1.16   | 5.05       | 33.03    | 82.90      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 631            | 35.82  | 1.16   | 4.85       | 31.61    | 83.28      |
| <b>LSD(0.05)</b>    | 103            | 1.72   | 0.02   | 0.18       | 1.08     | 0.85       |
| <b>C.V. (%)</b>     | 10.15          | 3.40   | 1.40   | 2.53       | 2.40     | 0.71       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 10. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF  | 590            | 38.5   | 1.04   | 4.33       | 28.58    | 80.90      |
| 09R555B2R2  | <b>697</b>     | 42.3   | 1.07   | 4.68       | 31.33    | 81.98      |
| 09R619B2R2  | <b>767</b>     | 41.6   | 1.06   | 4.53       | 29.00    | 81.15      |
| DP0924B2RF  | 559            | 38.8   | 1.04   | 4.25       | 29.70    | 81.38      |
| ST5288B2F   | <b>691</b>     | 38.7   | 1.07   | 4.78       | 28.35    | 81.38      |
| DG2570B2RF  | 595            | 38.8   | 1.05   | 4.08       | 29.15    | 81.23      |
| ST5458B2F‡  | 483            | 38.7   | 1.08   | 4.05       | 29.40    | 81.38      |
| DP0935B2RF‡ | 453            | 39.6   | 1.02   | 3.93       | 27.13    | 80.33      |
| BCSX1010B2F | 612            | 38.7   | 1.09   | 3.80       | 26.73    | 80.63      |
| CG3220B2RF  | 597            | 38.4   | 1.08   | 4.03       | 28.40    | 81.70      |
| CG4020B2RF  | 445            | 37.0   | 1.09   | 3.88       | 26.63    | 80.45      |
| PHY485WRF   | 575            | 37.8   | 1.08   | 4.40       | 32.03    | 82.10      |
| PHY375WRF   | 479            | 40.6   | 1.06   | 4.10       | 28.25    | 81.55      |
| PHY367WRF   | 469            | 38.4   | 1.10   | 3.80       | 29.9     | 81.83      |
| BCSX1040B2F | 591            | 35.4   | 1.16   | 3.95       | 29.85    | 82.08      |
| DG2450B2RF  | 550            | 38.2   | 1.07   | 4.13       | 28.08    | 81.38      |
| AM1550B2RF  | 553            | 38.6   | 1.04   | 4.05       | 26.23    | 80.78      |
| BCSX1030B2F | 531            | 40.3   | 1.06   | 3.80       | 27.88    | 80.70      |
| ST4288B2F   | 543            | 37.0   | 1.08   | 4.23       | 28.48    | 81.40      |
| FM1740B2F   | 496            | 39.9   | 1.07   | 4.17       | 28.43    | 81.60      |
| CG3520B2RF  | 487            | 35.9   | 1.10   | 3.75       | 27.58    | 81.70      |
| CG3020B2RF  | 337            | 34.7   | 1.04   | 3.68       | 27.10    | 81.80      |
| CG3035RF    | 529            | 39.3   | 1.06   | 4.05       | 28.83    | 81.43      |
| PSC355      | 470            | 38.7   | 1.05   | 4.53       | 30.05    | 81.80      |
| DP393       | 501            | 36.9   | 1.07   | 4.10       | 31.38    | 82.00      |
| HQ210CT     | 391            | 36.9   | 1.05   | 4.15       | 29.05    | 80.88      |
|             |                |        |        |            |          |            |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| <b>Overall Mean</b> | 538            | 38.4   | 1.07   | 4.12       | 28.75    | 81.36      |
| <b>LSD(0.05)</b>    | 105            | 2.00   | 0.03   | 0.32       | 1.70     | 1.09       |
| <b>C.V. (%)</b>     | 13.91          | 2.96   | 1.98   | 5.51       | 4.18     | 0.95       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 11. Yield performance and fiber quality of early maturing cotton varieties cultivated on a irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, LA during 2010.**

| Variety             | Measurement  |        |        |            |          |            |
|---------------------|--------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†  | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | lb lint/acre | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF          | 1275         | 37.58  | 1.06   | 4.08       | 29.28    | 81.00      |
| 09R555B2R2          | <b>1463</b>  | 41.50  | 1.11   | 4.38       | 31.40    | 82.98      |
| 09R619B2R2          | <b>1433</b>  | 42.93  | 1.07   | 4.43       | 27.98    | 81.73      |
| DP0924B2RF          | 1208         | 37.48  | 1.05   | 3.90       | 28.85    | 80.98      |
| ST5288B2F           | 1255         | 37.88  | 1.09   | 4.15       | 28.60    | 81.75      |
| DG2570B2RF          | 1095         | 36.30  | 1.08   | 3.68       | 29.93    | 81.40      |
| ST5458B2F‡          | 1070         | 38.20  | 1.08   | 4.10       | 28.15    | 80.70      |
| DP0935B2RF‡         | 1125         | 38.00  | 1.05   | 3.43       | 28.38    | 81.48      |
| BCSX1010B2F         | 1165         | 36.60  | 1.10   | 3.40       | 27.45    | 80.63      |
| CG3220B2RF          | 1185         | 37.45  | 1.08   | 3.55       | 27.90    | 81.03      |
| CG4020B2RF          | 1105         | 36.65  | 1.09   | 4.07       | 29.07    | 81.47      |
| PHY485WRF           | 1223         | 36.45  | 1.08   | 3.93       | 29.05    | 81.30      |
| PHY375WRF           | 1167         | 37.73  | 1.08   | 3.33       | 27.20    | 80.73      |
| PHY367WRF           | 1244         | 37.68  | 1.10   | 3.60       | 29.83    | 81.25      |
| BCSX1040B2F         | 1039         | 32.45  | 1.18   | 3.73       | 29.68    | 82.03      |
| DG2450B2RF          | 1144         | 36.45  | 1.08   | 3.80       | 26.63    | 80.90      |
| AM1550B2RF          | 1085         | 37.15  | 1.04   | 3.60       | 26.68    | 80.28      |
| BCSX1030B2F         | 1054         | 37.88  | 1.06   | 3.50       | 27.78    | 80.58      |
| ST4288B2F           | 1303         | 36.83  | 1.12   | 4.20       | 28.80    | 81.53      |
| FM1740B2F           | 1288         | 38.23  | 1.08   | 3.93       | 28.40    | 81.35      |
| CG3520B2RF          | 943          | 34.75  | 1.07   | 3.43       | 26.28    | 80.83      |
| CG3020B2RF          | 901          | 33.13  | 1.06   | 3.15       | 26.13    | 80.73      |
| CG3035RF            | 1136         | 38.10  | 1.07   | 3.68       | 29.25    | 81.70      |
| PSC355              | 1256         | 37.53  | 1.07   | 4.43       | 31.40    | 82.48      |
| DP393               | 1099         | 36.05  | 1.08   | 3.80       | 29.63    | 81.63      |
| HQ210CT             | 1108         | 36.28  | 1.08   | 3.90       | 28.48    | 81.13      |
|                     |              |        |        |            |          |            |
| <b>Overall Mean</b> | 1168         | 37.20  | 1.08   | 3.81       | 28.54    | 81.29      |
| <b>LSD(0.05)</b>    | 115          | 2.00   | 0.03   | 0.36       | 1.54     | 1.28       |
| <b>C.V. (%)</b>     | 6.98         | 3.43   | 2.19   | 6.63       | 3.82     | 1.11       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Full season variety included for comparison.

**Table 12. Two-year yield performance of medium maturing cotton varieties cultivated in a non-irrigated environment at three locations during 2009 and 2010.**

| Variety     | Location, soil texture, and year |      |      |      |            |      |           |      |      |  | Average across location and year |
|-------------|----------------------------------|------|------|------|------------|------|-----------|------|------|--|----------------------------------|
|             | Alexandria                       |      |      |      | St. Joseph |      | Winnsboro |      |      |  |                                  |
|             | Silt loam                        |      | Clay |      | Silt loam  |      | Silt loam |      |      |  |                                  |
|             | 2009                             | 2010 | 2009 | 2010 | 2009       | 2010 | 2009      | 2010 |      |  |                                  |
|             | -----lb lint/acre-----           |      |      |      |            |      |           |      |      |  |                                  |
| BCSX1010B2F | 921                              | 1449 | 1363 | 1849 | 597        | 527  | 635       | 433  | 963  |  |                                  |
| DP0912B2RF  | 998                              | 1421 | 1779 | 1823 | 732        | 626  | 716       | 517  | 1067 |  |                                  |
| DP0935B2RF  | 962                              | 1396 | 1517 | 1546 | 602        | 579  | 631       | 419  | 970  |  |                                  |
| DP0949B2RF  | 1187                             | 1227 | 1928 | 1624 | 696        | 545  | 738       | 329  | 1033 |  |                                  |
| FM1740B2F   | 1214                             | 1481 | 1881 | 1789 | 667        | 724  | 633       | 416  | 1079 |  |                                  |
| FM1845LLB2  | 877                              | 1326 | 1798 | 1681 | 663        | 550  | 596       | 452  | 1005 |  |                                  |
| LA1110017   | 222                              | 1064 | 579  | 1222 | 523        | 536  | 683       | 431  | 695  |  |                                  |
| LA1110035RS | 470                              | 1535 | 648  | 1313 | 397        | 522  | 819       | 567  | 819  |  |                                  |
| PHY565WRF   | 1005                             | 1625 | 1494 | 1725 | 600        | 553  | 769       | 390  | 1029 |  |                                  |
| ST5288B2F   | 1122                             | 1565 | 1683 | 2030 | 764        | 742  | 810       | 446  | 1133 |  |                                  |
| ST5458B2RF  | 926                              | 1513 | 1879 | 1855 | 672        | 782  | 686       | 417  | 1096 |  |                                  |

**Note:** Bossier City data was not included due to wet weather conditions significantly influencing timely harvest in 2009.

**Table 13. Two-year yield performance of medium maturing cotton varieties cultivated in an irrigated environment at two locations during 2009 and 2010.**

| Variety     | Location, soil texture, and year |      |           |      | Average across location and year |
|-------------|----------------------------------|------|-----------|------|----------------------------------|
|             | St. Joseph                       |      | Winnsboro |      |                                  |
|             | Clay                             |      | Silt loam |      |                                  |
|             | 2009                             | 2010 | 2009      | 2010 |                                  |
|             | -----lb lint/acre-----           |      |           |      |                                  |
| BCSX1010B2F | 990                              | 924  | 861       | 1030 | 951                              |
| DP0912B2RF  | 1056                             | 1067 | 1148      | 1089 | 1090                             |
| DP0935B2RF  | 922                              | 975  | 921       | 960  | 945                              |
| DP0949B2RF  | 1153                             | 1061 | 1023      | 932  | 1042                             |
| FM1740B2F   | 1215                             | 1131 | 1106      | 1158 | 1153                             |
| FM1845LLB2  | 917                              | 926  | 949       | 1080 | 968                              |
| LA1110017   | 985                              | 1072 | 1037      | 874  | 992                              |
| LA1110035RS | 975                              | 1056 | 937       | 1064 | 1008                             |
| PHY565WRF   | 1052                             | 1157 | 1144      | 1092 | 1111                             |
| ST5288B2F   | 1043                             | 1287 | 1243      | 1101 | 1169                             |
| ST5458B2RF  | 991                              | 1384 | 1118      | 1141 | 1159                             |

**Table 14. One-year yield performance of medium maturing cotton varieties cultivated in a non-irrigated environment at four locations in 2010.**

| Variety    | Location and soil texture |      |              |            |           | Average across locations |
|------------|---------------------------|------|--------------|------------|-----------|--------------------------|
|            | Alexandria                |      | Bossier City | St. Joseph | Winnsboro |                          |
|            | Silt loam                 | Clay | Clay         | Silt loam  | Silt loam |                          |
|            | -----lb lint/acre+-----   |      |              |            |           |                          |
| DP1034B2RF | 1699                      | 1790 | 1481         | 683        | 493       | 1173                     |
| 10R052B2R2 | 1653                      | 2009 | 1476         | 513        | 634       | 1233                     |
| ST5458B2F  | 1513                      | 1855 | 1443         | 782        | 417       | 1224                     |

| Variety             | Location and soil texture |             |              |            |            | Average across locations |
|---------------------|---------------------------|-------------|--------------|------------|------------|--------------------------|
|                     | Alexandria                |             | Bossier City | St. Joseph | Winnsboro  |                          |
|                     | Silt loam                 | Clay        | Clay         | Silt loam  | Silt loam  |                          |
|                     | -----lb lint/acre†-----   |             |              |            |            |                          |
| DGCT10612           | <b>1614</b>               | 1795        | <b>1442</b>  | 509        | 539        | <b>1164</b>              |
| 09R555B2R2          | <b>1652</b>               | <b>2058</b> | <b>1435</b>  | 677        | 487        | <b>1201</b>              |
| 09R619B2R2          | <b>1585</b>               | <b>1964</b> | <b>1417</b>  | 563        | 531        | <b>1212</b>              |
| ST5288B2F           | <b>1565</b>               | <b>2030</b> | <b>1405</b>  | <b>742</b> | 446        | <b>1222</b>              |
| PHY499WRF           | <b>1627</b>               | 1764        | <b>1401</b>  | 696        | <b>624</b> | <b>1222</b>              |
| DP0912B2RF‡         | <b>1421</b>               | 1823        | 1366         | 626        | 517        | 1139                     |
| DGCT10624           | <b>1582</b>               | 1642        | 1362         | 637        | 458        | 1136                     |
| DP1050B2RF          | <b>1625</b>               | 1839        | 1357         | 577        | 492        | <b>1245</b>              |
| DP0949B2RF          | 1227                      | 1624        | 1356         | 545        | 329        | 1043                     |
| NG3331B2RF          | <b>1495</b>               | <b>1855</b> | 1356         | 597        | 544        | <b>1169</b>              |
| DP0935B2RF          | 1396                      | 1546        | 1353         | 579        | 419        | 1043                     |
| DP1048B2RF          | <b>1607</b>               | <b>1892</b> | 1353         | 578        | <b>583</b> | <b>1203</b>              |
| PHY440W             | 1356                      | 1707        | 1339         | 680        | 455        | 1130                     |
| FM1773LLB2          | 1270                      | 1617        | 1313         | 629        | 383        | 1028                     |
| DP1032B2RF          | <b>1621</b>               | <b>2094</b> | 1305         | 587        | 454        | <b>1212</b>              |
| PHY375WF‡           | <b>1682</b>               | 1836        | 1297         | 611        | 452        | 1132                     |
| BCSX1010B2F         | <b>1449</b>               | <b>1849</b> | 1272         | 527        | 433        | 1106                     |
| FM1845LLB2          | 1326                      | 1681        | 1242         | 550        | 452        | 1062                     |
| NG4012B2RF          | 1226                      | 1748        | 1229         | 641        | 452        | 1059                     |
| PHY519WRF           | <b>1559</b>               | 1799        | 1186         | 549        | 466        | 1141                     |
| PHY565WRF           | <b>1625</b>               | 1725        | 1185         | 553        | 390        | 1096                     |
| NG8015B2RF          | 1281                      | 1554        | 1183         | 578        | 385        | 1043                     |
| PHY569WRF           | <b>1512</b>               | 1735        | 1175         | 537        | 421        | 1076                     |
| NG4010B2RF          | 1259                      | 1585        | 1142         | 612        | 367        | 993                      |
| FM1740B2F‡          | <b>1481</b>               | 1789        | 1135         | <b>724</b> | 416        | 1116                     |
| LA1110035RS         | <b>1535</b>               | 1313        | 941          | 522        | <b>567</b> | 977                      |
| LA1110017           | 1064                      | 1222        | 731          | 536        | 431        | 797                      |
| CT310HQ             | 1053                      | 1719        | 628          | 367        | 294        | 836                      |
|                     |                           |             |              |            |            |                          |
| <b>Overall Mean</b> | 1471                      | 1753        | 1269         | 596        | 462        | 1111                     |
| <b>LSD(0.05)</b>    | 296                       | 253         | 111          | 77         | 68         |                          |
| <b>C.V. (%)</b>     | 14.08                     | 9.98        | 5.92         | 8.57       | 10.41      | 15.68                    |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 15. One-year yield performance of medium maturing cotton varieties cultivated in an irrigated environment at two locations during 2010.**

| Variety    | Location and soil texture |             | Average across locations |
|------------|---------------------------|-------------|--------------------------|
|            | St. Joseph                | Winnsboro   |                          |
|            | Clay                      | Silt loam   |                          |
|            | -----lb lint/acre†-----   |             |                          |
| DP1034B2RF | 1064                      | 1272        | 1168                     |
| 10R052B2R2 | 1088                      | 1235        | 1161                     |
| ST5458B2F  | <b>1384</b>               | 1141        | 1262                     |
| DGCT10612  | 881                       | <b>1402</b> | 1179                     |

| Variety             | Location and soil texture |             | Average across locations |
|---------------------|---------------------------|-------------|--------------------------|
|                     | St. Joseph                | Winnsboro   |                          |
|                     | Clay                      | Silt loam   |                          |
|                     | -----lb lint/acre†-----   |             |                          |
| 09R555B2R2          | 1259                      | <b>1388</b> | 1345                     |
| 09R619B2R2          | 1075                      | 1295        | 1185                     |
| ST5288B2F           | <b>1287</b>               | 1101        | 1226                     |
| PHY499WRF           | <b>1444</b>               | <b>1419</b> | 1405                     |
| DP0912B2RF‡         | 1067                      | 1089        | 1078                     |
| DGCT10624           | 1121                      | 1085        | 1103                     |
| DP1050B2RF          | 1077                      | 1255        | 1179                     |
| DP0949B2RF          | 1061                      | 932         | 997                      |
| NG3331B2RF          | 1236                      | 1144        | 1190                     |
| DP0935B2RF          | 975                       | 960         | 968                      |
| DP1048B2RF          | 1089                      | 1285        | 1201                     |
| PHY440W             | 1098                      | 1170        | 1112                     |
| FM1773LLB2          | 1000                      | 1008        | 1004                     |
| DP1032B2RF          | <b>1274</b>               | 1142        | 1199                     |
| PHY375WF‡           | 1063                      | 1096        | 1080                     |
| BCSX1010B2F         | 924                       | 1030        | 985                      |
| FM1845LLB2          | 926                       | 1080        | 1003                     |
| NG4012B2RF          | 1189                      | 1028        | 1097                     |
| PHY519WRF           | 881                       | 1047        | 964                      |
| PHY565WRF           | 1157                      | 1092        | 1156                     |
| NG8015B2RF          | 1024                      | 995         | 1010                     |
| PHY569WRF           | 999                       | 1122        | 1061                     |
| NG4010B2RF          | 1045                      | 1037        | 1041                     |
| FM1740B2F‡          | 1131                      | 1158        | 1144                     |
| LA1110035RS         | 1056                      | 1064        | 1060                     |
| LA1110017           | 1072                      | 874         | 973                      |
| CT310HQ             | 922                       | 713         | 755                      |
|                     |                           |             |                          |
| <b>Overall Mean</b> | 1095                      | 1115        | 1107                     |
| <b>LSD(0.05)</b>    | 180                       | 108         | 87                       |
| <b>C.V. (%)</b>     | 10.70                     | 6.85        | 9.19                     |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 16. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a non-irrigated Latanier clay at the Dean Lee Research Station, Alexandria, LA during 2010.**

| Variety    | Measurement†   |        |        |            |          |            |
|------------|----------------|--------|--------|------------|----------|------------|
|            | Lint Yield‡    | Lint % | Length | Micronaire | Strength | Uniformity |
|            | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF | 1790           | 41.00  | 1.20   | 4.65       | 31.65    | 84.60      |
| 10R052B2R2 | <b>2009</b>    | 42.75  | 1.22   | 4.88       | 33.23    | 85.33      |
| ST5458B2F  | <b>1855</b>    | 38.75  | 1.20   | 5.05       | 34.40    | 84.68      |
| DGCT10612  | 1795           | 40.50  | 1.25   | 4.58       | 35.00    | 85.58      |
| 09R555B2R2 | <b>2058</b>    | 41.25  | 1.22   | 4.90       | 35.35    | 85.65      |



| Variety             | Measurement†   |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| 09R619B2R2          | <b>1964</b>    | 41.00  | 1.18   | 4.73       | 32.73    | 84.80      |
| ST5288B2F           | <b>2030</b>    | 38.75  | 1.21   | 5.00       | 31.75    | 84.15      |
| PHY499WRF           | 1764           | 41.00  | 1.18   | 4.98       | 35.38    | 84.65      |
| DP0912B2RF‡         | 1823           | 36.75  | 1.15   | 5.20       | 32.73    | 83.78      |
| DGCT10624           | 1642           | 39.25  | 1.21   | 4.75       | 32.70    | 84.78      |
| DP1050B2RF          | 1839           | 42.25  | 1.21   | 4.65       | 31.77    | 84.70      |
| DP0949B2RF          | 1624           | 39.50  | 1.22   | 5.12       | 34.35    | 84.75      |
| NG3331B2RF          | <b>1855</b>    | 37.25  | 1.17   | 5.08       | 33.78    | 84.60      |
| DP0935B2RF          | 1546           | 38.50  | 1.17   | 4.55       | 32.90    | 84.40      |
| DP1048B2RF          | <b>1892</b>    | 40.00  | 1.23   | 4.58       | 32.13    | 85.38      |
| PHY440W             | 1707           | 37.50  | 1.20   | 4.70       | 34.95    | 84.65      |
| FM1773LLB2          | 1617           | 34.75  | 1.25   | 4.88       | 33.43    | 84.48      |
| DP1032B2RF          | <b>2094</b>    | 40.00  | 1.22   | 4.60       | 33.95    | 84.85      |
| PHY375WF‡           | 1836           | 39.00  | 1.19   | 4.58       | 32.38    | 84.50      |
| BCSX1010B2F         | <b>1849</b>    | 37.75  | 1.21   | 4.38       | 31.73    | 84.08      |
| FM1845LLB2          | 1681           | 35.75  | 1.26   | 4.85       | 34.23    | 85.63      |
| NG4012B2RF          | 1748           | 38.00  | 1.22   | 4.58       | 34.13    | 84.53      |
| PHY519WRF           | 1799           | 38.00  | 1.19   | 4.73       | 34.38    | 84.28      |
| PHY565WRF           | 1725           | 37.25  | 1.24   | 4.58       | 36.08    | 84.95      |
| NG8015B2RF          | 1554           | 35.50  | 1.23   | 4.85       | 35.58    | 84.88      |
| PHY569WRF           | 1735           | 38.75  | 1.21   | 4.85       | 36.48    | 85.23      |
| NG4010B2RF          | 1585           | 36.25  | 1.20   | 4.70       | 34.68    | 84.33      |
| FM1740B2F‡          | 1789           | 38.00  | 1.20   | 4.90       | 33.90    | 84.75      |
| LA1110035RS         | 1313           | 34.75  | 1.29   | 4.78       | 36.68    | 86.13      |
| LA1110017           | 1222           | 34.50  | 1.26   | 4.38       | 35.93    | 86.63      |
| CT310HQ             | 1719           | 35.00  | 1.19   | 4.75       | 36.05    | 84.08      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1753           | 38.36  | 1.21   | 4.77       | 34.01    | 84.83      |
| <b>LSD(0.05)</b>    | 253            | 1.26   | 0.03   | 0.25       | 1.12     | 0.96       |
| <b>C.V. (%)</b>     | 9.98           | 2.34   | 1.70   | 3.70       | 2.33     | 0.80       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 17. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a non-irrigated Coushatta silt loam at the Dean Lee Research Station, Alexandria, LA during 2010.**

| Variety    | Measurement    |        |        |            |          |            |
|------------|----------------|--------|--------|------------|----------|------------|
|            | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|            | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF | <b>1699</b>    | 42.75  | 1.14   | 4.90       | 29.75    | 82.83      |
| 10R052B2R2 | <b>1653</b>    | 43.50  | 1.14   | 5.08       | 30.35    | 83.55      |
| ST5458B2F  | <b>1513</b>    | 39.50  | 1.15   | 4.28       | 30.28    | 82.60      |
| DGCT10612  | <b>1614</b>    | 41.00  | 1.14   | 4.73       | 32.28    | 83.75      |
| 09R555B2R2 | <b>1652</b>    | 42.67  | 1.15   | 5.17       | 32.60    | 84.03      |
| 09R619B2R2 | <b>1585</b>    | 41.75  | 1.13   | 5.05       | 30.78    | 83.65      |
| ST5288B2F  | <b>1565</b>    | 40.25  | 1.12   | 4.55       | 27.83    | 82.03      |
| PHY499WRF  | <b>1627</b>    | 41.75  | 1.14   | 4.68       | 33.95    | 83.78      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0912B2RF‡         | <b>1421</b>    | 40.50  | 1.12   | 4.90       | 30.00    | 82.35      |
| DGCT10624           | <b>1582</b>    | 39.50  | 1.15   | 4.90       | 29.98    | 83.48      |
| DP1050B2RF          | <b>1625</b>    | 43.50  | 1.13   | 5.10       | 29.05    | 82.65      |
| DP0949B2RF          | 1227           | 41.75  | 1.14   | 5.05       | 30.95    | 83.15      |
| NG3331B2RF          | <b>1495</b>    | 39.50  | 1.09   | 5.25       | 30.28    | 83.10      |
| DP0935B2RF          | 1396           | 39.25  | 1.10   | 4.50       | 29.43    | 82.18      |
| DP1048B2RF          | <b>1607</b>    | 41.25  | 1.16   | 4.80       | 28.85    | 83.78      |
| PHY440W             | 1356           | 37.50  | 1.16   | 4.75       | 31.38    | 82.78      |
| FM1773LLB2          | 1270           | 36.50  | 1.18   | 4.70       | 31.18    | 83.20      |
| DP1032B2RF          | <b>1621</b>    | 41.25  | 1.13   | 4.63       | 28.40    | 81.48      |
| PHY375WF‡           | <b>1682</b>    | 40.25  | 1.13   | 4.55       | 29.50    | 83.15      |
| BCSX1010B2F         | <b>1449</b>    | 38.50  | 1.15   | 4.58       | 29.23    | 83.18      |
| FM1845LLB2          | 1326           | 37.67  | 1.18   | 5.00       | 33.06    | 84.13      |
| NG4012B2RF          | 1226           | 39.25  | 1.15   | 4.08       | 29.88    | 83.05      |
| PHY519WRF           | <b>1559</b>    | 40.00  | 1.12   | 5.00       | 31.78    | 83.33      |
| PHY565WRF           | <b>1625</b>    | 39.75  | 1.17   | 4.75       | 34.63    | 83.38      |
| NG8015B2RF          | 1281           | 37.25  | 1.14   | 4.60       | 31.93    | 83.25      |
| PHY569WRF           | <b>1512</b>    | 40.50  | 1.11   | 4.88       | 33.80    | 83.73      |
| NG4010B2RF          | 1259           | 38.00  | 1.15   | 4.50       | 31.93    | 83.38      |
| FM1740B2F‡          | <b>1481</b>    | 39.50  | 1.12   | 4.75       | 29.98    | 83.25      |
| LA1110035RS         | <b>1535</b>    | 37.00  | 1.19   | 4.73       | 33.60    | 84.28      |
| LA1110017           | 1064           | 36.50  | 1.17   | 4.60       | 32.85    | 84.55      |
| CT310HQ             | 1053           | 38.75  | 1.14   | 4.90       | 31.65    | 82.58      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1471           | 39.88  | 1.14   | 4.76       | 30.97    | 83.20      |
| <b>LSD(0.05)</b>    | 296            | 2.27   | 0.04   | 0.28       | 1.58     | 0.99       |
| <b>C.V. (%)</b>     | 14.08          | 4.00   | 2.18   | 4.07       | 3.59     | 0.84       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 18. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a non-irrigated Moreland Clay at the Red River Research Station, Bossier City, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF  | <b>1481</b>    | 40.62  | 1.11   | 4.47       | 28.23    | 82.43      |
| 10R052B2R2  | <b>1476</b>    | 41.49  | 1.10   | 4.70       | 28.98    | 82.73      |
| ST5458B2F   | <b>1443</b>    | 37.79  | 1.08   | 4.78       | 27.93    | 81.58      |
| DGCT10612   | <b>1442</b>    | 39.97  | 1.15   | 4.53       | 30.17    | 83.30      |
| 09R555B2R2  | <b>1435</b>    | 40.40  | 1.11   | 4.75       | 30.98    | 82.75      |
| 09R619B2R2  | <b>1417</b>    | 41.34  | 1.09   | 4.60       | 27.75    | 81.70      |
| ST5288B2F   | <b>1405</b>    | 37.32  | 1.09   | 4.85       | 27.40    | 81.08      |
| PHY499WRF   | <b>1401</b>    | 39.25  | 1.09   | 4.58       | 32.08    | 82.95      |
| DP0912B2RF‡ | 1366           | 35.11  | 1.06   | 4.80       | 28.28    | 82.05      |
| DGCT10624   | 1362           | 38.82  | 1.11   | 4.58       | 28.80    | 82.18      |
| DP1050B2RF  | 1357           | 40.71  | 1.11   | 4.55       | 28.18    | 81.83      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0949B2RF          | 1356           | 39.50  | 1.09   | 4.60       | 29.68    | 81.80      |
| NG3331B2RF          | 1356           | 39.40  | 1.08   | 4.93       | 29.23    | 82.78      |
| DP0935B2RF          | 1353           | 41.04  | 1.06   | 4.40       | 27.50    | 81.53      |
| DP1048B2RF          | 1353           | 40.01  | 1.11   | 4.33       | 27.57    | 82.05      |
| PHY440W             | 1339           | 35.99  | 1.11   | 4.58       | 30.45    | 82.85      |
| FM1773LLB2          | 1313           | 36.38  | 1.13   | 4.63       | 29.33    | 81.85      |
| DP1032B2RF          | 1305           | 38.31  | 1.12   | 4.38       | 27.88    | 81.70      |
| PHY375WF‡           | 1297           | 38.39  | 1.08   | 4.33       | 26.47    | 80.67      |
| BCSX1010B2F         | 1272           | 36.52  | 1.11   | 4.05       | 26.90    | 81.20      |
| FM1845LLB2          | 1242           | 35.89  | 1.15   | 4.58       | 31.08    | 83.28      |
| NG4012B2RF          | 1229           | 38.84  | 1.10   | 4.25       | 28.83    | 81.58      |
| PHY519WRF           | 1186           | 38.16  | 1.07   | 4.58       | 29.20    | 81.68      |
| PHY565WRF           | 1185           | 38.34  | 1.11   | 4.30       | 30.63    | 82.23      |
| NG8015B2RF          | 1183           | 36.36  | 1.08   | 4.60       | 28.80    | 81.90      |
| PHY569WRF           | 1175           | 36.39  | 1.09   | 4.53       | 31.18    | 82.65      |
| NG4010B2RF          | 1142           | 35.42  | 1.10   | 4.43       | 30.05    | 82.35      |
| FM1740B2F‡          | 1135           | 37.24  | 1.09   | 4.50       | 29.35    | 82.05      |
| LA1110035RS         | 941            | 33.61  | 1.16   | 4.55       | 31.83    | 83.65      |
| LA1110017           | 731            | 33.48  | 1.17   | 4.35       | 33.68    | 84.35      |
| CT310HQ             | 628            | 35.26  | 1.10   | 4.48       | 31.80    | 82.55      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1269           | 37.97  | 1.10   | 4.53       | 29.40    | 82.25      |
| <b>LSD(0.05)</b>    | 111            | 1.90   | 0.03   | 0.20       | 1.49     | 0.84       |
| <b>C.V. (%)</b>     | 5.92           | 3.24   | 1.61   | 2.89       | 3.34     | 0.67       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 19. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated Sharkey clay at the Northeast Research Station, St. Joseph, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF  | 1064           | 37.65  | 1.19   | 4.50       | 31.00    | 83.05      |
| 10R052B2R2  | 1088           | 40.82  | 1.20   | 4.50       | 31.38    | 83.40      |
| ST5458B2F   | <b>1384</b>    | 37.89  | 1.18   | 4.83       | 30.85    | 82.25      |
| DGCT10612   | 881            | 39.23  | 1.22   | 4.35       | 33.50    | 83.83      |
| 09R555B2R2  | 1259           | 41.30  | 1.18   | 4.55       | 33.75    | 83.23      |
| 09R619B2R2  | 1075           | 39.85  | 1.17   | 4.63       | 30.75    | 83.55      |
| ST5288B2F   | <b>1287</b>    | 37.50  | 1.15   | 4.60       | 30.00    | 82.83      |
| PHY499WRF   | <b>1444</b>    | 41.88  | 1.16   | 4.58       | 33.33    | 83.50      |
| DP0912B2RF‡ | 1067           | 35.87  | 1.11   | 4.85       | 30.73    | 82.10      |
| DGCT10624   | 1121           | 39.00  | 1.17   | 4.65       | 30.73    | 83.08      |
| DP1050B2RF  | 1077           | 39.63  | 1.21   | 4.35       | 30.93    | 83.63      |
| DP0949B2RF  | 1061           | 40.48  | 1.15   | 4.73       | 31.08    | 83.00      |
| NG3331B2RF  | 1236           | 37.92  | 1.14   | 4.78       | 32.20    | 82.98      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP0935B2RF          | 975            | 37.45  | 1.15   | 4.48       | 31.33    | 82.65      |
| DP1048B2RF          | 1089           | 39.42  | 1.20   | 4.55       | 30.83    | 83.90      |
| PHY440W             | 1098           | 35.56  | 1.16   | 4.70       | 32.93    | 82.85      |
| FM1773LLB2          | 1000           | 34.32  | 1.23   | 4.63       | 32.20    | 83.10      |
| DP1032B2RF          | <b>1274</b>    | 38.30  | 1.19   | 4.53       | 31.50    | 83.23      |
| PHY375WF‡           | 1063           | 38.34  | 1.14   | 4.50       | 30.55    | 82.93      |
| BCSX1010B2F         | 924            | 34.21  | 1.19   | 4.43       | 32.18    | 83.45      |
| FM1845LLB2          | 926            | 35.65  | 1.22   | 4.70       | 32.40    | 83.28      |
| NG4012B2RF          | 1189           | 38.55  | 1.19   | 4.43       | 31.83    | 82.83      |
| PHY519WRF           | 881            | 36.99  | 1.18   | 4.20       | 33.13    | 82.38      |
| PHY565WRF           | 1157           | 37.71  | 1.19   | 4.20       | 33.05    | 82.95      |
| NG8015B2RF          | 1024           | 34.17  | 1.20   | 4.63       | 33.48    | 83.48      |
| PHY569WRF           | 999            | 37.24  | 1.18   | 4.23       | 33.48    | 83.23      |
| NG4010B2RF          | 1045           | 34.37  | 1.20   | 4.58       | 33.28    | 82.73      |
| FM1740B2F‡          | 1131           | 36.68  | 1.15   | 4.80       | 31.70    | 83.45      |
| LA1110035RS         | 1056           | 35.36  | 1.24   | 4.33       | 33.05    | 84.23      |
| LA1110017           | 1072           | 35.30  | 1.23   | 4.13       | 33.58    | 84.43      |
| CT310HQ             | 922            | 35.28  | 1.17   | 4.48       | 34.03    | 83.28      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1095           | 37.54  | 1.18   | 4.53       | 32.09    | 83.18      |
| <b>LSD(0.05)</b>    | 180            | 2.41   | 0.03   | 0.26       | 1.36     | 0.97       |
| <b>C.V. (%)</b>     | 10.70          | 4.55   | 1.64   | 4.03       | 3.01     | 0.83       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 20. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a non-irrigated Commerce silt loam at the Northeast Research Station, St. Joseph, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF  | 683            | 40.48  | 1.19   | 4.70       | 31.08    | 83.48      |
| 10R052B2R2  | 513            | 40.01  | 1.18   | 4.80       | 31.55    | 83.70      |
| ST5458B2F   | <b>782</b>     | 37.43  | 1.16   | 5.00       | 31.43    | 82.38      |
| DGCT10612   | 509            | 38.83  | 1.20   | 4.78       | 32.53    | 83.28      |
| 09R555B2R2  | 677            | 41.01  | 1.18   | 4.83       | 33.90    | 83.85      |
| 09R619B2R2  | 563            | 38.50  | 1.16   | 4.85       | 31.25    | 83.23      |
| ST5288B2F   | <b>742</b>     | 35.68  | 1.18   | 4.90       | 31.15    | 82.93      |
| PHY499WRF   | 696            | 39.76  | 1.15   | 4.93       | 32.38    | 83.08      |
| DP0912B2RF‡ | 626            | 36.81  | 1.10   | 5.18       | 30.78    | 82.33      |
| DGCT10624   | 637            | 38.49  | 1.15   | 4.85       | 30.95    | 83.18      |
| DP1050B2RF  | 577            | 36.58  | 1.21   | 4.68       | 31.20    | 83.95      |
| DP0949B2RF  | 545            | 38.96  | 1.15   | 4.85       | 31.98    | 82.38      |
| NG3331B2RF  | 597            | 36.06  | 1.14   | 5.10       | 32.20    | 83.28      |
| DP0935B2RF  | 579            | 37.50  | 1.14   | 4.80       | 31.95    | 83.28      |
| DP1048B2RF  | 578            | 38.25  | 1.19   | 4.63       | 30.40    | 82.73      |
| PHY440W     | 680            | 35.41  | 1.15   | 5.00       | 33.58    | 83.33      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| FM1773LLB2          | 629            | 34.42  | 1.22   | 5.05       | 31.18    | 82.83      |
| DP1032B2RF          | 587            | 37.31  | 1.18   | 4.88       | 31.00    | 82.98      |
| PHY375WF‡           | 611            | 36.89  | 1.15   | 4.85       | 30.73    | 83.30      |
| BCSX1010B2F         | 527            | 33.35  | 1.18   | 4.60       | 29.93    | 82.50      |
| FM1845LLB2          | 550            | 33.81  | 1.21   | 4.90       | 33.20    | 83.78      |
| NG4012B2RF          | 641            | 37.92  | 1.17   | 4.80       | 31.90    | 82.70      |
| PHY519WRF           | 549            | 35.58  | 1.21   | 4.65       | 33.20    | 82.55      |
| PHY565WRF           | 553            | 36.49  | 1.19   | 4.50       | 33.70    | 82.70      |
| NG8015B2RF          | 578            | 34.18  | 1.17   | 4.93       | 32.33    | 83.03      |
| PHY569WRF           | 537            | 36.73  | 1.15   | 4.75       | 34.13    | 83.45      |
| NG4010B2RF          | 612            | 34.31  | 1.19   | 4.75       | 33.33    | 83.13      |
| FM1740B2F‡          | <b>724</b>     | 37.22  | 1.15   | 4.98       | 31.33    | 82.85      |
| LA1110035RS         | 522            | 34.20  | 1.23   | 4.78       | 34.20    | 84.20      |
| LA1110017           | 536            | 33.20  | 1.23   | 4.83       | 34.53    | 84.68      |
| CT310HQ             | 367            | 32.07  | 1.16   | 5.03       | 33.38    | 83.08      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 596            | 36.69  | 1.17   | 4.84       | 32.14    | 83.16      |
| <b>LSD(0.05)</b>    | 77             | 2.73   | 0.03   | 0.19       | 1.35     | 0.82       |
| <b>C.V. (%)</b>     | 8.57           | 5.23   | 1.70   | 2.74       | 3.00     | 0.70       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 21. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF  | 493            | 42.00  | 1.06   | 4.60       | 28.70    | 80.45      |
| 10R052B2R2  | <b>634</b>     | 41.50  | 1.05   | 4.80       | 28.73    | 80.08      |
| ST5458B2F   | 417            | 38.50  | 1.05   | 4.60       | 28.83    | 79.88      |
| DGCT10612   | 539            | 39.50  | 1.10   | 4.65       | 29.83    | 80.93      |
| 09R555B2R2  | 487            | 41.75  | 1.07   | 4.80       | 31.75    | 81.60      |
| 09R619B2R2  | 531            | 41.25  | 1.04   | 4.78       | 27.90    | 80.20      |
| ST5288B2F   | 446            | 38.25  | 1.03   | 4.80       | 28.05    | 79.53      |
| PHY499WRF   | <b>624</b>     | 42.00  | 1.08   | 4.53       | 33.08    | 81.35      |
| DP0912B2RF‡ | 517            | 38.75  | 1.04   | 4.60       | 29.35    | 79.98      |
| DGCT10624   | 458            | 38.50  | 1.05   | 4.35       | 27.75    | 79.88      |
| DP1050B2RF  | 492            | 41.25  | 1.05   | 4.60       | 27.60    | 79.80      |
| DP0949B2RF  | 329            | 39.75  | 1.03   | 4.55       | 27.95    | 80.25      |
| NG3331B2RF  | 544            | 38.00  | 1.03   | 4.73       | 30.10    | 81.10      |
| DP0935B2RF  | 419            | 38.25  | 1.02   | 4.08       | 27.20    | 79.85      |
| DP1048B2RF  | <b>583</b>     | 42.25  | 1.07   | 4.43       | 28.70    | 80.20      |
| PHY440W     | 455            | 38.25  | 1.08   | 4.38       | 33.13    | 81.45      |
| FM1773LLB2  | 383            | 35.00  | 1.10   | 4.45       | 29.05    | 81.15      |
| DP1032B2RF  | 454            | 39.25  | 1.06   | 4.40       | 27.18    | 79.98      |
| PHY375WF‡   | 452            | 38.50  | 1.06   | 4.23       | 28.45    | 80.88      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| BCSX1010B2F         | 433            | 38.00  | 1.07   | 3.98       | 26.00    | 79.83      |
| FM1845LLB2          | 452            | 35.75  | 1.12   | 4.38       | 31.58    | 81.65      |
| NG4012B2RF          | 452            | 39.00  | 1.05   | 4.23       | 28.70    | 80.05      |
| PHY519WRF           | 466            | 39.25  | 1.03   | 4.40       | 29.43    | 79.53      |
| PHY565WRF           | 390            | 38.25  | 1.06   | 4.25       | 30.15    | 80.43      |
| NG8015B2RF          | 385            | 35.25  | 1.04   | 4.38       | 29.03    | 79.55      |
| PHY569WRF           | 421            | 37.25  | 1.03   | 4.20       | 30.10    | 80.58      |
| NG4010B2RF          | 367            | 35.50  | 1.07   | 3.98       | 30.53    | 80.88      |
| FM1740B2F‡          | 416            | 38.25  | 1.04   | 4.38       | 27.85    | 80.10      |
| LA1110035RS         | <b>567</b>     | 36.75  | 1.11   | 4.58       | 32.08    | 81.55      |
| LA1110017           | 431            | 35.00  | 1.10   | 4.35       | 33.20    | 81.88      |
| CT310HQ             | 294            | 35.25  | 1.05   | 4.18       | 30.05    | 80.15      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 462            | 38.58  | 1.06   | 4.44       | 29.42    | 80.47      |
| <b>LSD(0.05)</b>    | 68             | 1.76   | 0.03   | 0.31       | 1.26     | 1.10       |
| <b>C.V. (%)</b>     | 10.41          | 3.25   | 1.96   | 5.00       | 3.06     | 0.97       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

**Table 22. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, LA during 2010.**

| Variety     | Measurement    |        |        |            |          |            |
|-------------|----------------|--------|--------|------------|----------|------------|
|             | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|             | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| DP1034B2RF  | 1272           | 40.25  | 1.12   | 4.23       | 28.10    | 82.20      |
| 10R052B2R2  | 1235           | 43.25  | 1.11   | 4.78       | 28.85    | 82.40      |
| ST5458B2F   | 1141           | 36.75  | 1.11   | 3.85       | 28.20    | 81.25      |
| DGCT10612   | <b>1402</b>    | 40.75  | 1.14   | 4.23       | 29.60    | 82.80      |
| 09R555B2R2  | <b>1388</b>    | 41.00  | 1.12   | 4.40       | 30.53    | 83.30      |
| 09R619B2R2  | 1295           | 40.00  | 1.09   | 4.33       | 27.65    | 82.53      |
| ST5288B2F   | 1101           | 37.75  | 1.11   | 3.98       | 27.25    | 81.15      |
| PHY499WRF   | <b>1419</b>    | 42.66  | 1.09   | 3.97       | 30.67    | 82.37      |
| DP0912B2RF‡ | 1089           | 36.50  | 1.04   | 4.08       | 28.30    | 81.33      |
| DGCT10624   | 1085           | 38.25  | 1.08   | 4.10       | 28.10    | 81.85      |
| DP1050B2RF  | 1255           | 41.00  | 1.11   | 4.35       | 27.45    | 81.93      |
| DP0949B2RF  | 932            | 38.75  | 1.08   | 4.18       | 29.13    | 82.03      |
| NG3331B2RF  | 1144           | 37.25  | 1.06   | 4.53       | 29.33    | 82.95      |
| DP0935B2RF  | 960            | 38.50  | 1.06   | 4.03       | 28.73    | 81.78      |
| DP1048B2RF  | 1285           | 40.00  | 1.14   | 4.25       | 28.40    | 82.93      |
| PHY440W     | 1170           | 36.66  | 1.11   | 3.70       | 30.07    | 82.90      |
| FM1773LLB2  | 1008           | 34.50  | 1.17   | 3.88       | 28.43    | 81.75      |
| DP1032B2RF  | 1142           | 41.25  | 1.13   | 4.15       | 28.48    | 82.35      |
| PHY375WF‡   | 1096           | 37.25  | 1.07   | 3.50       | 27.20    | 81.53      |
| BCSX1010B2F | 1030           | 35.25  | 1.11   | 3.55       | 26.40    | 81.10      |
| FM1845LLB2  | 1080           | 36.00  | 1.16   | 3.88       | 30.33    | 82.93      |
| NG4012B2RF  | 1028           | 37.25  | 1.13   | 3.73       | 29.10    | 81.90      |

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield†    | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| PHY519WRF           | 1047           | 37.00  | 1.09   | 3.85       | 28.78    | 81.43      |
| PHY565WRF           | 1092           | 37.75  | 1.10   | 3.83       | 30.45    | 82.38      |
| NG8015B2RF          | 995            | 34.75  | 1.10   | 4.03       | 29.35    | 82.35      |
| PHY569WRF           | 1122           | 37.25  | 1.11   | 4.08       | 31.08    | 83.00      |
| NG4010B2RF          | 1037           | 35.50  | 1.13   | 3.93       | 30.00    | 82.30      |
| FM1740B2F‡          | 1158           | 37.50  | 1.09   | 3.85       | 27.68    | 81.35      |
| LA1110035RS         | 1064           | 35.25  | 1.16   | 3.93       | 31.23    | 83.05      |
| LA1110017           | 874            | 35.00  | 1.18   | 3.90       | 33.28    | 84.28      |
| CT310HQ             | 713            | 34.00  | 1.08   | 4.00       | 30.48    | 82.05      |
|                     |                |        |        |            |          |            |
| <b>Overall Mean</b> | 1115           | 37.87  | 1.11   | 4.04       | 29.09    | 82.23      |
| <b>LSD(0.05)</b>    | 108            | 1.33   | 0.03   | 0.24       | 1.02     | 1.01       |
| <b>C.V. (%)</b>     | 6.85           | 2.47   | 1.82   | 4.17       | 2.47     | 0.87       |

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. ‡ Early season variety included for comparison.

Table 23. Dates of agronomically important events for cotton variety trials managed at LSU AgCenter research stations during 2010.

| Event                     | Location and Soil Texture |                 |                  |              |                 |           |               |  |
|---------------------------|---------------------------|-----------------|------------------|--------------|-----------------|-----------|---------------|--|
|                           | Alexandria                |                 | Bossier City     | St. Joseph   |                 | Winnsboro |               |  |
|                           | Silt Loam                 | Clay            | Clay             | Silt loam    | Clay-IRR        | Silt Loam | Silt Loam-IRR |  |
|                           | -----Month/day-----       |                 |                  |              |                 |           |               |  |
| Planting Date             | 5/14                      | 5/20            | 5/3              | 6/8          | 5/26            | 4/26      | 4/26          |  |
| Emergence                 | 5/20                      | 5/28            | 5/10             | 6/13         | 5/30            | 5/7       | 5/7           |  |
| N application†            | 5/30 (90)                 | 6/18 (90)       | 5/30 (65)        | 6/29 (120)   | 6/28 (120)      | 5/10 (80) | 5/10 (80)     |  |
| Pre Herbicide App.        | N/A                       | 5/20            | 5/4              | 6/11         | 5/27            | 4/9       | 4/9           |  |
| Early Post Herbicide App. | 6/8,                      | 7/12            | 6/9              | N/A          | 6/24            | 4/29      | 4/29          |  |
| Layby Herbicide App       | 7/13                      | 8/10            | N/A              | N/A          | N/A             | 5/28, 6/8 | 5/28, 6/8     |  |
| Early Insecticide App.    | 6/8, 6/16, 6/29           | N/A             | 7/2              | 6/25, 7/30   | 7/12, 7/30      | 6/9, 6/21 | 6/9, 6/21     |  |
| Mid Insecticide App.      | 7/8, 7/21, 7/29, 8/6      | 7/27, 8/6       | 7/13, 7/23, 7/30 | 8/10, 8/16   | 8/10, 8/16      | 7/12,     | 7/12, 7/22    |  |
| Late Insecticide App.     | 8/17, 8/24                | 8/17, 8/24, 9/1 | 8/9              | 9/9, 9/23    | 9/9, 9/15, 9/23 | 7/22      | N/A           |  |
| PGR                       | 7/8                       | 7/22            | none             | none         | none            | none      | none          |  |
| Harvest Aid               | 9/17, 9/21,               | 9/28, 10/6      | 9/8              | 10/12, 10/15 | 10/4, 10/15     | 8/16      | 9/6, 9/13     |  |
| Harvest                   | 9/27                      | 10/18           | 9/16             | 11/1         | 10/23           | 8/24      | 9/17          |  |

† Nitrogen application rates for each trial are listed in parenthesis next to application date and expressed in lbs N/acre.

**Table 24. Yield performance and fiber characteristics of cotton varieties cultivated on alluvial soils, Mississippi Delta, LA during 2010.**

| Variety             | Measurement    |        |        |            |          |            |
|---------------------|----------------|--------|--------|------------|----------|------------|
|                     | Lint Yield     | Lint % | Length | Micronaire | Strength | Uniformity |
|                     | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| <b>Concordia 1</b>  |                |        |        |            |          |            |
| CG3220B2RF          | 1053           | 35.4   | 1.13   | 4.7        | 30.8     | 82.3       |
| DP 0949B2RF         | 984            | 36.8   | 1.16   | 4.8        | 31.7     | 83.5       |
| DP09R555B2R2        | <b>1191</b>    | 38.2   | 1.15   | 5.0        | 31.2     | 83.8       |
| DP1048B2RF          | 976            | 36.1   | 1.17   | 4.7        | 30.3     | 83.5       |
| FM1740B2F           | 1188           | 36.3   | 1.14   | 4.8        | 30.8     | 83.0       |
| PHY375WRF           | 1128           | 37.7   | 1.15   | 4.7        | 29.8     | 82.9       |
| PHY485WRF           | 1130           | 35.7   | 1.15   | 4.9        | 31.8     | 83.3       |
| PHY565WRF           | 1006           | 36.5   | 1.17   | 4.4        | 33.1     | 83.7       |
| ST4288B2F           | 1066           | 32.9   | 1.15   | 4.6        | 30.2     | 82.6       |
| ST5288B2RF          | <b>1246</b>    | 35.9   | 1.15   | 4.8        | 30.3     | 83.3       |
| ST5458B2RF          | <b>1288</b>    | 36.3   | 1.15   | 5.0        | 32.2     | 83.1       |
| <b>Concordia 2</b>  |                |        |        |            |          |            |
| CG3220B2RF          | 1358           | 41.9   | 1.10   | 5.3        | 29.2     | 84.0       |
| DP 0949B2RF         | 1380           | 43.6   | 1.06   | 5.5        | 30.0     | 81.7       |
| DP09R555B2R2        | 1560           | 46.8   | 1.10   | 5.7        | 30.4     | 83.4       |
| DP1048B2RF          | 1600           | 46.4   | 1.13   | 5.2        | 29.3     | 83.4       |
| FM1740B2F           | 1627           | 43.5   | 1.10   | 5.5        | 31.9     | 82.9       |
| PHY375WRF           | 1453           | 42.0   | 1.09   | 5.1        | 28.8     | 83.9       |
| PHY485WRF           | 1430           | 41.5   | 1.08   | 5.5        | 32.2     | 83.6       |
| PHY565WRF           | 1535           | 43.2   | 1.15   | 5.3        | 32.2     | 84.2       |
| ST4288B2F           | <b>1642</b>    | 40.9   | 1.12   | 5.3        | 28.8     | 83.2       |
| ST5288B2RF          | <b>1734</b>    | 43.7   | 1.09   | 5.6        | 29.4     | 82.8       |
| ST5458B2RF          | <b>1637</b>    | 41.6   | 1.11   | 5.7        | 32.7     | 82.4       |
| <b>East Carroll</b> |                |        |        |            |          |            |
| CG3220B2RF          | 1091           | 41.2   | 1.16   | 5.0        | 31.0     | 83.6       |
| DP 0949B2RF         | 1078           | 42.8   | 1.16   | 5.1        | 31.6     | 83.6       |
| DP09R555B2R2        | 1035           | 44.2   | 1.18   | 5.0        | 31.4     | 84.0       |
| DP1048B2RF          | 882            | 41.8   | 1.17   | 4.8        | 29.2     | 82.7       |
| FM1740B2F           | 966            | 41.3   | 1.15   | 5.2        | 30.4     | 83.9       |
| PHY375WRF           | 1045           | 42.5   | 1.15   | 4.8        | 29.4     | 83.1       |
| PHY485WRF           | 1029           | 40.2   | 1.13   | 5.1        | 31.2     | 83.3       |
| PHY565WRF           | 966            | 40.9   | 1.19   | 4.9        | 32.7     | 83.9       |
| ST4288B2F           | <b>1114</b>    | 37.7   | 1.19   | 4.8        | 30.5     | 83.1       |
| ST5288B2RF          | <b>1207</b>    | 41.2   | 1.16   | 5.0        | 28.8     | 82.5       |
| ST5458B2RF          | <b>1208</b>    | 41.7   | 1.15   | 5.3        | 31.4     | 82.6       |
| <b>Madison</b>      |                |        |        |            |          |            |
| DP 0949B2RF         | 1024           | 44.3   | 1.14   | 5.0        | 31.9     | 82.7       |
| DP09R555B2R2        | 994            | 42.3   | 1.17   | 5.0        | 32.0     | 84.1       |
| DP1048B2RF          | <b>1098</b>    | 42.4   | 1.21   | 4.6        | 30.1     | 84.5       |
| FM1740B2F           | 962            | 40.6   | 1.15   | 4.9        | 30.7     | 82.9       |
| PHY375WRF           | <b>1087</b>    | 42.2   | 1.13   | 4.6        | 29.1     | 82.4       |
| PHY485WRF           | 945            | 39.4   | 1.12   | 4.8        | 31.1     | 83.8       |
| PHY565WRF           | 965            | 40.6   | 1.19   | 4.6        | 31.7     | 83.8       |
| ST4288B2F           | 939            | 37.4   | 1.19   | 4.7        | 30.2     | 83.6       |



| Variety       | Measurement    |        |        |            |          |            |
|---------------|----------------|--------|--------|------------|----------|------------|
|               | Lint Yield     | Lint % | Length | Micronaire | Strength | Uniformity |
|               | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| ST5288B2RF    | 1072           | 40.6   | 1.15   | 4.9        | 29.0     | 82.9       |
| ST5458B2RF    | <b>1264</b>    | 42.0   | 1.18   | 5.1        | 31.8     | 83.1       |
| <b>Tensas</b> |                |        |        |            |          |            |
| CG3220B2RF    | 1402           | 43.2   | 1.11   | 4.4        | 28.5     | 82.5       |
| DP 0949B2RF   | 1483           | 45.1   | 1.14   | 5.1        | 30.7     | 82.1       |
| DP1048B2RF    | <b>1544</b>    | 44.8   | 1.12   | 5.0        | 27.3     | 82.9       |
| FM1740B2F     | <b>1665</b>    | 43.7   | 1.11   | 5.1        | 29.9     | 81.4       |
| PHY375WRF     | <b>1733</b>    | 44.5   | 1.07   | 4.7        | 27.1     | 80.8       |
| PHY485WRF     | 1162           | 42.5   | 1.11   | 5.1        | 30.2     | 83.0       |
| PHY565WRF     | 1431           | 43.0   | 1.14   | 5.0        | 29.9     | 83.2       |
| ST4288B2F     | 1459           | 40.2   | 1.15   | 5.0        | 29.1     | 83.1       |
| ST5288B2RF    | 1302           | 45.3   | 1.10   | 5.3        | 27.6     | 82.2       |
| ST5458B2RF    | 1411           | 43.7   | 1.08   | 5.1        | 28.6     | 81.4       |

**Table 25. Yield performance and fiber characteristics of cotton varieties cultivated on coarse-textured soils, Macon Ridge area, LA during 2010.**

| Variety         | Measurement    |        |        |            |          |            |
|-----------------|----------------|--------|--------|------------|----------|------------|
|                 | Lint Yield     | Lint % | Length | Micronaire | Strength | Uniformity |
|                 | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| <b>Franklin</b> |                |        |        |            |          |            |
| CG3220B2RF      | <b>1223</b>    | 43.3   | 1.14   | 4.6        | 28.5     | 82.5       |
| DP 0949B2RF     | 961            | 43.0   | 1.10   | 4.6        | 29.0     | 82.7       |
| DP09R555B2R2    | 1191           | 45.4   | 1.14   | 4.8        | 30.4     | 83.3       |
| DP1048B2RF      | 1174           | 44.6   | 1.14   | 4.6        | 29.0     | 82.0       |
| FM1740B2F       | 1136           | 43.5   | 1.13   | 4.5        | 29.3     | 82.2       |
| PHY375WRF       | 1186           | 43.0   | 1.11   | 4.4        | 28.3     | 81.7       |
| PHY485WRF       | <b>1268</b>    | 45.3   | 1.13   | 4.7        | 30.2     | 83.1       |
| PHY565WRF       | 1088           | 42.0   | 1.15   | 4.5        | 31.5     | 82.3       |
| ST4288B2F       | 1015           | 37.6   | 1.16   | 4.6        | 30.3     | 82.6       |
| ST5288B2RF      | <b>1234</b>    | 42.7   | 1.12   | 4.8        | 28.2     | 81.9       |
| ST5458B2RF      | 1170           | 43.3   | 1.13   | 4.8        | 30.0     | 81.2       |
| <b>Richland</b> |                |        |        |            |          |            |
| DP 0949B2RF     | 1198           | 44.4   | 1.14   | 5.1        | 30.1     | 82.6       |
| DP09R555B2R2    | <b>1413</b>    | 45.6   | 1.13   | 5.2        | 29.9     | 83.9       |
| DP1048B2RF      | 1238           | 44.2   | 1.17   | 4.8        | 29.5     | 83.3       |
| FM1740B2F       | 1229           | 42.7   | 1.12   | 4.9        | 28.2     | 82.8       |
| PHY375WRF       | 1268           | 42.9   | 1.13   | 4.6        | 27.7     | 82.3       |
| PHY485WRF       | 1194           | 41.1   | 1.11   | 5.0        | 29.7     | 82.4       |
| PHY565WRF       | 1125           | 40.8   | 1.15   | 4.7        | 31.4     | 83.2       |
| ST4288B2F       | 1277           | 39.2   | 1.14   | 4.7        | 29.0     | 82.3       |
| ST5288B2RF      | <b>1334</b>    | 43.3   | 1.13   | 5.0        | 27.2     | 82.7       |
| ST5458B2RF      | <b>1331</b>    | 43.2   | 1.16   | 5.1        | 30.3     | 82.8       |

**Table 26. Yield performance and fiber characteristics of cotton varieties cultivated on high pH soils, Red River Valley, LA during 2010.**

| Variety                          | Measurement    |        |        |            |          |            |
|----------------------------------|----------------|--------|--------|------------|----------|------------|
|                                  | Lint Yield     | Lint % | Length | Micronaire | Strength | Uniformity |
|                                  | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| <b>Rapides 1 – non-irrigated</b> |                |        |        |            |          |            |
| CG3220B2RF                       | 905            | 40.1   | 1.15   | 4.9        | 30.9     | 82.8       |
| DP 0949B2RF                      | 870            | 43.0   | 1.16   | 4.9        | 30.9     | 82.9       |
| DP09R555B2R2                     | 811            | 38.9   | 1.16   | 4.8        | 31.9     | 83.2       |
| DP1048B2RF                       | 897            | 42.5   | 1.19   | 4.7        | 29.4     | 83.5       |
| FM1740B2F                        | 944            | 41.3   | 1.16   | 4.9        | 31.7     | 82.8       |
| PHY375WRF                        | 945            | 41.5   | 1.14   | 4.7        | 30.4     | 82.6       |
| PHY485WRF                        | 817            | 39.2   | 1.15   | 4.9        | 31.0     | 83.8       |
| PHY565WRF                        | 696            | 39.9   | 1.18   | 4.6        | 33.6     | 83.4       |
| ST4288B2F                        | <b>1100</b>    | 43.3   | 1.16   | 4.8        | 30.9     | 82.3       |
| ST5288B2RF                       | <b>1090</b>    | 40.5   | 1.16   | 4.9        | 29.2     | 83.0       |
| ST5458B2RF                       | <b>1077</b>    | 39.0   | 1.16   | 5.0        | 31.7     | 82.1       |
| <b>Rapides 2 – non-irrigated</b> |                |        |        |            |          |            |
| CG3220B2RF                       | 1308           | 43.1   | 1.14   | 5.0        | 31.1     | 83.5       |
| DP 0949B2RF                      | 1074           | 44.5   | 1.17   | 4.9        | 33.2     | 84.4       |
| DP09R555B2R2                     | 1181           | 46.3   | 1.19   | 4.8        | 32.9     | 84.5       |
| DP1048B2RF                       | 1044           | 45.8   | 1.22   | 4.7        | 31.6     | 84.4       |
| FM1740B2F                        | 1224           | 43.5   | 1.17   | 4.9        | 30.8     | 84.3       |
| PHY375WRF                        | 1266           | 45.3   | 1.17   | 4.7        | 32.3     | 83.8       |
| PHY485WRF                        | 1184           | 42.5   | 1.16   | 4.9        | 32.0     | 84.7       |
| PHY565WRF                        | <b>1305</b>    | 43.5   | 1.17   | 4.7        | 32.8     | 83.8       |
| ST4288B2F                        | 1241           | 40.4   | 1.17   | 4.8        | 31.4     | 83.1       |
| ST5288B2RF                       | <b>1356</b>    | 44.9   | 1.16   | 5.1        | 30.1     | 83.5       |
| ST5458B2RF                       | <b>1476</b>    | 43.2   | 1.15   | 5.2        | 33.0     | 82.9       |
| <b>Caddo 1 - irrigated</b>       |                |        |        |            |          |            |
| CG3220B2RF                       | <b>1524</b>    | 41.7   | 1.17   | 4.2        | 29.2     | 83.8       |
| DP 0949B2RF                      | 1322           | 41.6   | 1.19   | 4.2        | 31.8     | 83.4       |
| DP09R555B2R2                     | 1486           | 44.0   | 1.16   | 4.5        | 31.9     | 83.2       |
| DP1048B2RF                       | <b>1552</b>    | 43.3   | 1.17   | 4.2        | 28.7     | 84.2       |
| FM1740B2F                        | 1429           | 41.3   | 1.12   | 4.4        | 28.8     | 82.4       |
| PHY375WRF                        | 1386           | 42.1   | 1.15   | 4.3        | 28.5     | 83.1       |
| PHY485WRF                        | 1330           | 40.3   | 1.16   | 4.5        | 31.4     | 83.9       |
| PHY565WRF                        | 1214           | 38.9   | 1.21   | 4.1        | 31.8     | 84.1       |
| ST4288B2F                        | 1380           | 39.4   | 1.17   | 4.3        | 29.9     | 82.7       |
| ST5288B2RF                       | 1373           | 40.8   | 1.15   | 4.4        | 28.1     | 82.5       |
| ST5458B2RF                       | <b>1562</b>    | 40.5   | 1.18   | 4.5        | 32.3     | 83.0       |
| <b>Caddo 2 - irrigated</b>       |                |        |        |            |          |            |
| CG3220B2RF                       | 1651           | 41.4   | 1.17   | 4.7        | 29.7     | 83.8       |
| DP 0949B2RF                      | 1585           | 43.8   | 1.17   | 5.0        | 30.0     | 83.8       |
| DP09R555B2R2                     | 1475           | 39.8   | 1.18   | 5.0        | 30.8     | 83.1       |
| DP1048B2RF                       | 1609           | 44.2   | 1.18   | 4.7        | 29.1     | 82.6       |
| FM1740B2F                        | 1584           | 42.8   | 1.15   | 4.8        | 29.6     | 82.6       |
| PHY375WRF                        | <b>1677</b>    | 42.7   | 1.16   | 4.6        | 28.9     | 82.7       |
| PHY485WRF                        | 1589           | 41.3   | 1.13   | 4.8        | 30.1     | 83.5       |
| PHY565WRF                        | 1464           | 43.9   | 1.20   | 4.5        | 32.2     | 83.9       |
| ST4288B2F                        | 1590           | 39.3   | 1.19   | 4.8        | 29.5     | 83.0       |
| ST5288B2RF                       | <b>1826</b>    | 42.9   | 1.15   | 4.8        | 29.0     | 82.4       |
| ST5458B2RF                       | <b>1846</b>    | 42.5   | 1.18   | 5.0        | 31.3     | 81.9       |

**Table 27. Yield performance and fiber characteristics of cotton varieties cultivated on mixed soils, Atchafalaya basin, LA during 2010.**

| Variety                                     | Measurement    |        |        |            |          |            |
|---|----------------|--------|--------|------------|----------|------------|
|   | Lint Yield     | Lint % | Length | Micronaire | Strength | Uniformity |
|   | (lb lint/acre) | (%)    | (in.)  | -----      | (g/tex)  | (%)        |
| <b><i>Avoyelles – non-irrigated</i></b>     |                |        |        |            |          |            |
| CG3220B2RF                                  | 1155           | 42.6   | 1.13   | 4.8        | 29.8     | 83.0       |
| DP 0949B2RF                                 | 1178           | 42.7   | 1.13   | 4.8        | 30.2     | 82.4       |
| DP09R555B2R2                                | <b>1412</b>    | 45.5   | 1.16   | 4.8        | 31.7     | 83.7       |
| DP1048B2RF                                  | 1148           | 44.0   | 1.14   | 4.5        | 29.4     | 83.3       |
| FM1740B2F                                   | <b>1343</b>    | 42.8   | 1.13   | 4.4        | 29.7     | 83.1       |
| PHY375WRF                                   | 1103           | 43.8   | 1.10   | 4.5        | 27.8     | 81.7       |
| PHY485WRF                                   | 1104           | 41.0   | 1.12   | 4.6        | 31.7     | 83.0       |
| PHY565WRF                                   | 1152           | 42.1   | 1.14   | 4.5        | 31.6     | 82.4       |
| ST4288B2F                                   | 1076           | 37.0   | 1.16   | 4.5        | 29.7     | 82.8       |
| ST5288B2RF                                  | 1038           | 42.8   | 1.13   | 5.1        | 27.8     | 82.5       |
| ST5458B2RF                                  | <b>1419</b>    | 44.3   | 1.16   | 5.0        | 30.7     | 82.2       |
| <b><i>Pointe Coupee – non-irrigated</i></b> |                |        |        |            |          |            |
| CG3220B2RF                                  | 1120           | 40.3   | 1.18   | 4.9        | 31.7     | 84.2       |
| DP 0949B2RF                                 | 1104           | 42.6   | 1.17   | 5.2        | 32.6     | 83.2       |
| DP09R555B2R2                                | 1229           | 42.1   | 1.19   | 4.9        | 33.0     | 84.3       |
| DP1048B2RF                                  | <b>1279</b>    | 44.2   | 1.19   | 4.8        | 29.6     | 83.8       |
| FM1740B2F                                   | 1220           | 42.3   | 1.15   | 4.8        | 31.2     | 83.8       |
| PHY375WRF                                   | 1199           | 43.1   | 1.15   | 4.6        | 31.1     | 83.4       |
| PHY485WRF                                   | 1210           | 41.0   | 1.16   | 4.9        | 32.1     | 84.4       |
| PHY565WRF                                   | 1163           | 40.8   | 1.21   | 4.6        | 34.0     | 84.1       |
| ST4288B2F                                   | 1086           | 37.7   | 1.18   | 4.8        | 31.4     | 83.4       |
| ST5288B2RF                                  | <b>1248</b>    | 41.7   | 1.16   | 5.0        | 31.0     | 83.6       |
| ST5458B2RF                                  | <b>1292</b>    | 41.5   | 1.19   | 5.2        | 33.4     | 84.0       |

**Table 28. List of variety entries submitted for 2010 testing.**

| Provider         | Variety      | Provider             | Variety      |
|------------------|--------------|----------------------|--------------|
| Americot         | AM 1550 B2RF | Dyna-Gro             | DG 2450 B2RF |
| Americot         | NG 3331 B2RF | Dyna-Gro             | DG 2570 B2RF |
| Americot         | NG 4010 B2RF | Dyna-Gro             | DG CT10612   |
| Americot         | NG 4012 B2RF | Dyna-Gro             | DG CT10624   |
| Americot         | NG 8015 B2RF |                      |              |
|                  |              | FiberMax             | FM 1740B2F   |
| Bayer Crop Sci.  | BCSX 1010B2F | FiberMax             | FM 1773LLB2  |
| Bayer Crop Sci.  | BCSX 1030B2F | FiberMax             | FM 1845LLB2  |
| Bayer Crop Sci.  | BCSX 1040B2F |                      |              |
|                  |              | LSU AgCenter         | LA1110017    |
|                  |              | LSU AgCenter         | LA1110035RS  |
|                  |              |                      |              |
| Croplan Genetics | CG 3020B2RF  | Phytogen             | PHY 367 WRF  |
| Croplan Genetics | CG 3035RF    | Phytogen             | PHY 375 WRF  |
| Croplan Genetics | CG 3220B2RF  | Phytogen             | PHY 440 W    |
| Croplan Genetics | CG 3520B2RF  | Phytogen             | PHY 485 WRF  |
| Croplan Genetics | CG 4020B2RF  | Phytogen             | PHY 499 WRF  |
|                  |              | Phytogen             | PHY 519 WRF  |
| Deltapine        | 09R555B2R2   | Phytogen             | PHY 565 WRF  |
| Deltapine        | 09R619B2R2   | Phytogen             | PHY 569 WRF  |
| Deltapine        | 10R052B2R2   |                      |              |
| Deltapine        | DP 0912 B2RF | Seed Source Genetics | CT 310 HQ    |
| Deltapine        | DP 0924 B2RF | Seed Source Genetics | HQ 210 CT    |
| Deltapine        | DP 0935 B2RF |                      |              |
| Deltapine        | DP 0949 B2RF |                      |              |
| Deltapine        | DP 1032 B2RF | Stoneville           | ST 4288B2F   |
| Deltapine        | DP 1034 B2RF | Stoneville           | ST 5288B2F   |
| Deltapine        | DP 1048 B2RF | Stoneville           | ST 5458B2F   |
| Deltapine        | DP 1050 B2RF |                      |              |

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