

*2007 Alabama
Cotton Variety
Report*

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Alabama Agricultural Experiment Station
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Information contained herein is available to all persons regardless of race, color, sex, or national origin.

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2007 ALABAMA COTTON VARIETY REPORT

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INTRODUCTION

The Alabama Cotton Variety Test is a continuing evaluation of available cotton varieties from private companies and state agricultural experiment stations. Breeding lines that are likely to be released as varieties are also tested. Tests are conducted on units of the Alabama Agricultural Experiment Station by Experiment Station personnel. Cultural practices are those generally recommended by the Alabama Cooperative Extension System to producers. Data are reported on irrigated tests at Belle Mina and Headland. No other tests received scheduled supplemental irrigation. Every effort is made to test the varieties and present the results in an unbiased manner.

EXPERIMENTAL CONDITIONS

Tests were split into early season and full season varieties. The maturity category for each variety was chosen by the company or cooperator. Deltapine DP 555BRR and FiberMax FM 960BR were included in both early and full season tests for comparison. Plot size was two rows at Prattville, Headland, Belle Mina, Shorter, and Fairhope. Row length varied at different locations from 20 to 120 feet. A randomized complete block design with four replications was used in all tests.

A Flex RR Cotton trial was added at four locations: Belle Mina, Prattville, Headland and Fairhope. These trials were split into early and full season maturity groups. Both early season and full season Flex RR trials at Headland were irrigated. Fiber Max FM 960BR, Deltapine DP 444BRR, Deltapine DP 555BRR, and Stoneville ST 5599BR were include in both early and full season trials for comparison. Because these non-Flex checks were included, Flex trials were managed as regular Round-up Ready varieties.

Dr. Kathy Lawrence, Dept. of Plant Pathology and Entomology, reports the following for all Gulf Coast cotton trials: Cotton boll rot and hard lock indices ranged from an average low of 6.8% to a high of 19% across all tests. Under the hot, dry conditions of 2007, the cotton boll rot and hard lock indexes were similar to 2006 with numerically more disease expression in the full season cotton varieties including the flex varieties as compared to the early season and early season flex cotton varieties. The high level of hard lock boll rot did appear to be related to fiber maturity problems experienced under the hot dry conditions of 2007.

EXPLANATION OF DATA

HARVEST OF SEED COTTON

A 50-boll sample was taken by hand for ginning, then test plots were harvested by a mechanical spindle picker at all locations. Average seed cotton yield was determined for each variety at each location.

LINT PERCENTAGE

Seed cotton samples from each variety were ginned on a 10-saw gin. Lint percentage was calculated by dividing weight of lint by seed cotton weight.

YIELD OF LINT

Lint yield was determined by multiplying the lint percentage by seed cotton yield.

FIBER PROPERTIES

Fiber qualities of all varieties were measured by the USDA-AMS Classing Office in Birmingham, Alabama using High Volume Instrumentation (HVI). Data are reported on a single composite sample of each variety from each location including the regional tests at Shorter and Belle Mina.

Micronaire: This measures the fineness of the cotton fibers. The smaller the micronaire reading, the finer and/or more immature the fibers.

Length: This is the fiber length measured with the HVI instrument. This measurement of length is similar to the classer's staple.

Strength: This is a measure of breaking strength of a standard fiber bundle with the holding jaws separated by 1/8 inch. "Tex" is a size measurement of the fiber bundle and the data given are the force in grams needed to break this bundle.

Uniformity: This is the ratio between the mean length and the upper half mean length of the fibers and is expressed as a percentage. Cotton with a low length uniformity may be difficult to process.

Earliness: Earliness is reported as the percentage of the total yield harvested at the first picking where more than one harvest was made.

Fusarium Wilt: Reaction of varieties to *Fusarium oxysporum* f. *vasinfectum* (Fusarium wilt) was evaluated at the Plant Breeding Unit, Tallassee. Breeder lines and selected released varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2007, incidence of Fusarium wilt was low. The incidence ratings can be found in the 2007 National Fusarium Wilt Cotton Report, Departmental Series No. 289.

STATISTICAL ANALYSIS

Appropriate analyses of the yield data were made. For each location, the variability in the test was measured and expressed as a percentage of the test mean, i.e., the coefficient of variation (C.V.). An indication of the magnitude of difference between variety averages necessary to be considered a real difference is given for each location. It is designated as the Least Significance Difference ($L.S.D_{0.10}$). Appropriate care should be taken when using multi-location or multi-year averages. The genotype x environment interaction is often a significant source of variation, indicating that the varietal rankings are not consistent from one location to another or from one year to the next. Using multi-environment means in these instances can be grossly misleading. It is for this reason that summary tables showing variety ranks by location are included in the report.

ACKNOWLEDGMENTS

Appreciation is also expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas:

Chet Norris and David Harkins, Tennessee Valley Research and Extension Center; Don Moore, Prattville Research Field; Bobby Durbin, E.V. Smith Research Center; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Ronnie McDaniel and Malcomb Pegues, Gulf Coast Research and Extension Center.

TABLE 1. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | % | <i>----- lbs/acre -----</i> | |
| Deltapine DP 445BG/RR | 555 | 41 | 478 | 691 |
| Deltapine DP 454BG/RR | 447 | 42 | 471 | 646 |
| PhytoGen PHY 310R | 412 | 38 | 410 | 636 |
| Deltapine DP 432 RR | 413 | 38 | 421 | 615 |
| Stoneville ST5242BR | 428 | 39 | 442 | 611 |
| Deltapine DP 444BG/RR | 389 | 41 | 357 | 604 |
| PhytoGen PHY 370WR | 520 | 39 | 483 | 597 |
| PhytoGen PHY 480WR | 365 | 38 | 407 | 576 |
| Deltapine DP 455BG/RR | 469 | 41 | 439 | 569 |
| Fiber Max FM 960BR | 289 | 37 | 331 | 562 |
| Deltapine DP 434 RR | 302 | 38 | 320 | 534 |
| Deltapine DP 555 BG/RR | 296 | 39 | 329 | 533 |
| Fiber Max FM 960B2R | 326 | 36 | 346 | 510 |
| Deltapine DP 393 | 366 | 39 | 387 | 505 |
| CT Linwood | 406 | 39 | 403 | . |
| CT 210 | 307 | 37 | 360 | . |
| Fiber Max FM 1735LLB2 | 376 | 38 | . | . |
| STG 59-6-9 | 316 | 36 | . | . |
| Fiber Max FM 1600LL | 305 | 39 | . | . |
| Fiber Max FM 955LLB2 | 266 | 35 | . | . |
| Trial mean | 378 | 39 | 399 | 585 |
| LSD(0.10) | 106 | 1 | 0 | 33 |
| %CV | 31 | 2 | 0 | 11 |

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|--------------------------|-----------------|------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr | 3-yr |
| Deltapine DP 454BG/RR | 427 | 43 | 414 | 625 |
| Stoneville ST 5599BR | 386 | 37 | 382 | 574 |
| Deltapine DP 445BG/RR | 381 | 41 | 343 | 558 |
| Deltapine DP 455BG/RR | 379 | 38 | 353 | 553 |
| Deltapine DP 555 BG/RR | 370 | 40 | 364 | 542 |
| Fiber Max FM 960BR | 241 | 37 | 298 | 542 |
| Deltapine DP 515BG/RR | 322 | 40 | 283 | 509 |
| Deltapine DP 493 | 281 | 42 | 289 | 462 |
| Fiber Max FM 835LLB2 | 172 | 38 | . | . |
| Trial mean | 329 | 40 | 341 | 546 |
| LSD(0.10) | 81 | 2 | | |
| %CV | 26 | 4 | | |

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2007

| Variety | 2007 lint [†] | | Average lint yld [‡] | |
|------------------------|------------------------|------------|-------------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | % | <i>----- lbs/acre -----</i> | |
| Deltapine DP 432 RR | | 42 | 1018 | 877 |
| Deltapine DP 455BG/RR | | 45 | 1006 | 874 |
| Fiber Max FM 960BR | | 42 | 961 | 866 |
| Stoneville ST5242BR | | 39 | 1029 | 860 |
| Deltapine DP 445BG/RR | | 42 | 977 | 841 |
| Deltapine DP 393 | | 42 | 977 | 839 |
| Fiber Max FM 960B2R | | 41 | 896 | 834 |
| Deltapine DP 555 BG/RR | | 42 | 904 | 824 |
| Deltapine DP 434 RR | | 43 | 958 | 818 |
| Deltapine DP 444BG/RR | | 41 | 939 | 759 |
| PhytoGen PHY 310R | | 43 | 1034 | . |
| PhytoGen PHY 480WR | | 40 | 1005 | . |
| Deltapine DP 454BG/RR | | 43 | 990 | . |
| PhytoGen PHY 370WR | | 43 | 978 | . |
| CT Linwood | | 41 | . | . |
| CT 210 | | 41 | . | . |
| Fiber Max FM 1600LL | | 41 | . | . |
| Fiber Max FM 1735LLB2 | | 40 | . | . |
| Fiber Max FM 955LLB2 | | 37 | . | . |
| STG 59-6-9 | | 36 | . | . |
| Trial mean | | 41 | . | . |
| LSD(0.10) | | 1 | . | . |
| %CV | | 3 | . | . |

[†]Prattville had a crop failure in 2007 due to drought, only boll samples were taken.

[‡]Multi-year averages are taken from the 2006 report No. 281.

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2007

| Variety | 2007 lint [†] | | Average lint yld [‡] | |
|------------------------|--------------------------|-----------------|-------------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr | 3-yr |
| Stoneville ST 5599BR | | 42 | 951 | 911 |
| Deltapine DP 455BG/RR | | 44 | 974 | 884 |
| Deltapine DP 445BG/RR | | 41 | 979 | 850 |
| Deltapine DP 555 BG/RR | | 43 | 931 | 842 |
| Deltapine DP 493 | | 42 | 882 | 787 |
| Deltapine DP 454BG/RR | | 42 | 1043 | . |
| Deltapine DP 515BG/RR | | 42 | 1009 | . |
| Fiber Max FM 960BR | | 41 | 948 | . |
| Fiber Max FM 835LLB2 | | 37 | . | . |
| Trial mean | | 42 | 965 | 855 |
| LSD(0.10) | | | | |
| %CV | | | | |

[†]Prattville had a crop failure in 2007 due to drought, only boll samples were taken.

[‡]Multi-year averages are taken from the 2006 report No. 281.

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | <i>%</i> | <i>----- lbs/acre -----</i> | |
| Deltapine DP 454BG/RR | 620 | 43 | 717 | 1092 |
| Deltapine DP 393 | 574 | 41 | 681 | 1035 |
| Deltapine DP 432 RR | 536 | 39 | 623 | 1033 |
| Deltapine DP 445BG/RR | 617 | 41 | 674 | 1029 |
| Stoneville ST5242BR | 523 | 39 | 684 | 1029 |
| PhytoGen PHY 310R | 486 | 41 | 642 | 1014 |
| Deltapine DP 444BG/RR | 643 | 41 | 640 | 976 |
| PhytoGen PHY 370WR | 554 | 39 | 661 | 970 |
| Deltapine DP 455BG/RR | 471 | 41 | 620 | 942 |
| Deltapine DP 555 BG/RR | 403 | 41 | 581 | 940 |
| PhytoGen PHY 480WR | 399 | 39 | 574 | 915 |
| Deltapine DP 434 RR | 334 | 39 | 495 | 880 |
| Fiber Max FM 960BR | 277 | 39 | 473 | 826 |
| Fiber Max FM 960B2R | 405 | 38 | 551 | 810 |
| CT Linwood | 440 | 40 | 574 | . |
| CT 210 | 383 | 38 | 536 | . |
| Fiber Max FM 1600LL | 534 | 38 | . | . |
| Fiber Max FM 1735LLB2 | 470 | 36 | . | . |
| Fiber Max FM 955LLB2 | 400 | 36 | . | . |
| Trial mean | 477 | 39 | 608 | 964 |
| LSD(0.10) | 86 | 1 | 41 | 39 |
| %CV | 20 | 3 | 10 | 8 |

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | % | <i>----- lbs/acre -----</i> | |
| Deltapine DP 454BG/RR | 543 | 41 | 662 | 1129 |
| Deltapine DP 445BG/RR | 586 | 39 | 654 | 1057 |
| Deltapine DP 493 | 362 | 41 | 561 | 987 |
| Stoneville ST 5599BR | 393 | 36 | 570 | 970 |
| Deltapine DP 515BG/RR | 449 | 41 | 619 | 965 |
| Deltapine DP 555 BG/RR | 410 | 42 | 596 | 952 |
| Deltapine DP 455BG/RR | 494 | 40 | 595 | 902 |
| Fiber Max FM 960BR | 308 | 34 | 494 | 855 |
| Fiber Max FM 835LLB2 | 439 | 38 | . | . |
| Trial mean | 443 | 39 | 594 | 977 |
| LSD(0.10) | 53 | 2 | 39 | 49 |
| %CV | 13 | 4 | 9 | 9 |

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2007

Headland had a crop failure in 2007 due to drought and neither yield nor lint data were taken.

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2007

Headland had a crop failure in 2007 due to drought and neither yield nor lint data were taken.

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | % | <i>----- lbs/acre -----</i> | |
| PhytoGen PHY 310R | 974 | 41 | 1258 | 1207 |
| PhytoGen PHY 370WR | 1061 | 43 | 1264 | 1175 |
| Deltapine DP 555 BG/RR | 897 | 42 | 1267 | 1157 |
| PhytoGen PHY 480WR | 958 | 39 | 1268 | 1120 |
| Deltapine DP 393 | 1044 | 40 | 1138 | 1067 |
| Deltapine DP 445BG/RR | 911 | 41 | 1146 | 1056 |
| Deltapine DP 434 RR | 996 | 43 | 1125 | 1046 |
| Stoneville ST5242BR | 919 | 40 | 1052 | 1040 |
| Deltapine DP 455BG/RR | 951 | 43 | 1187 | 1039 |
| Deltapine DP 432 RR | 955 | 41 | 1085 | 1026 |
| Deltapine DP 444BG/RR | 1052 | 41 | 1149 | 1021 |
| Deltapine DP 454BG/RR | 954 | 44 | 1117 | 1016 |
| Fiber Max FM 960BR | 816 | 40 | 1094 | 989 |
| Fiber Max FM 960B2R | 792 | 38 | 1021 | 945 |
| CT Linwood | 971 | 43 | 1232 | . |
| CT 210 | 858 | 40 | 1130 | . |
| Fiber Max FM 1735LLB2 | 956 | 39 | . | . |
| Fiber Max FM 1600LL | 894 | 39 | . | . |
| Fiber Max FM 955LLB2 | 858 | 38 | . | . |
| Trial mean | 938 | 41 | 1158 | 1065 |
| LSD(0.10) | 103 | 1 | 50 | 32 |
| %CV | 12 | 3 | 6 | 6 |

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|--------------------------|-----------------|------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr | 3-yr |
| Deltapine DP 555 BG/RR | 745 | 43 | 1228 | 1121 |
| Deltapine DP 515BG/RR | 875 | 42 | 1184 | 1112 |
| Deltapine DP 454BG/RR | 795 | 42 | 1094 | 1109 |
| Deltapine DP 455BG/RR | 745 | 42 | 1050 | 1041 |
| Deltapine DP 493 | 662 | 43 | 1128 | 1037 |
| Stoneville ST 5599BR | 824 | 41 | 1085 | 991 |
| Deltapine DP 445BG/RR | 847 | 41 | 980 | 945 |
| Fiber Max FM 960BR | 677 | 40 | 958 | 928 |
| Fiber Max FM 835LLB2 | 581 | 36 | . | . |
| Trial mean | 750 | 41 | 1088 | 1036 |
| LSD(0.10) | 72 | 2 | 104 | 65 |
| %CV | 10 | 4 | 14 | 11 |

TABLE II. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT BELLE MINA, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|--------------------------|-----------------|-------------------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr <i>----- lbs/acre -----</i> | 3-yr |
| Deltapine DP 454BG/RR | 1467 | 43 | 1596 | 1584 |
| Stoneville ST 5599BR | 1434 | 41 | 1546 | 1491 |
| Fiber Max FM 960BR | 1285 | 40 | 1372 | 1392 |
| Deltapine DP 555 BG/RR | 1227 | 43 | 1285 | 1291 |
| Stoneville ST5242BR | 1530 | 43 | 1643 | . |
| PhytoGen PHY 370WR | 1480 | 44 | 1575 | . |
| Deltapine DP 445BG/RR | 1492 | 44 | 1490 | . |
| Deltapine DP 444BG/RR | 1537 | 43 | 1450 | . |
| Fiber Max FM 960B2R | 1210 | 40 | 1285 | . |
| PhytoGen PHY 310R | 1571 | 44 | . | . |
| ST 4554B2RF | 1455 | 41 | . | . |
| ST 4427B2RF | 1404 | 40 | . | . |
| Americot AM 1504 B2RF | 1402 | 40 | . | . |
| CG 3020 B2RF | 1385 | 41 | . | . |
| PHY 485 WRF | 1347 | 41 | . | . |
| CT 210 | 1323 | 41 | . | . |
| DP 117 B2RF | 1309 | 41 | . | . |
| CG 4020 B2RF | 1308 | 42 | . | . |
| DP 143 B2RF | 1294 | 39 | . | . |
| Dyna Gro 2520 B2RF | 1292 | 41 | . | . |
| Deltapine DP 515BG/RR | 1268 | 44 | . | . |
| Fiber Max FM 1600LL | 1218 | 40 | . | . |
| Fiber Max FM 1735LLB2 | 1198 | 38 | . | . |
| Fiber Max FM 9063 B2F | 1132 | 39 | . | . |
| Fiber Max FM 835LLB2 | 1006 | 39 | . | . |
| Trial mean | 1343 | 41 | 1471 | 1439 |
| LSD(0.10) | 160 | 1 | 127 | 91 |
| %CV | 13 | 3 | 13 | 12 |

TABLE 12. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | % | <i>----- lbs/acre -----</i> | |
| Deltapine DP 555 BG/RR | 2228 | 43 | 2141 | 2125 |
| Stoneville ST 5599BR | 2296 | 41 | 2108 | 2112 |
| Deltapine DP 454BG/RR | 2144 | 44 | 2117 | 2068 |
| Deltapine DP 493 | 2172 | 44 | 2006 | 2044 |
| PhytoGen PHY 370WR | 2101 | 44 | 2072 | 2026 |
| Deltapine DP 455BG/RR | 2138 | 44 | 2010 | 1991 |
| Stoneville ST5242BR | 1927 | 40 | 1933 | 1868 |
| Deltapine DP 445BG/RR | 2134 | 43 | 1970 | 1856 |
| PhytoGen PHY 480WR | 1837 | 39 | 1792 | 1821 |
| Deltapine DP 444BG/RR | 1818 | 43 | 1844 | 1804 |
| Fiber Max FM 960B2R | 1793 | 39 | 1855 | 1777 |
| Fiber Max FM 960BR | 1794 | 40 | 1754 | 1757 |
| Deltapine DP 515BG/RR | 2150 | 42 | . | . |
| Deltapine DP 393 | 1970 | 42 | . | . |
| Deltapine DP 432 RR | 1967 | 42 | . | . |
| Fiber Max FM 1735LLB2 | 1945 | 41 | . | . |
| Deltapine DP 434 RR | 1918 | 44 | . | . |
| Fiber Max FM 1600LL | 1910 | 40 | . | . |
| CT Linwood | 1902 | 41 | . | . |
| CT 210 | 1885 | 40 | . | . |
| PhytoGen PHY 310R | 1851 | 43 | . | . |
| Fiber Max FM 835LLB2 | 1816 | 41 | . | . |
| Fiber Max FM 955LLB2 | 1783 | 39 | . | . |
| Trial mean | 1977 | 42 | 1967 | 1937 |
| LSD(0.10) | 146 | 1 | 152 | 15 |
| %CV | 8 | 2 | 12 | 1 |

TABLE 13. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------|------------|------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| Deltapine DP 444BG/RR | 377 | 40 | 410 | 623 |
| CG 3520 B2RF | 365 | 37 | 424 | 616 |
| ST 4664RF | 377 | 39 | 398 | 602 |
| PHY 485 WRF | 337 | 39 | 381 | 587 |
| Dyna Gro 2520 B2RF | 317 | 37 | 362 | 564 |
| CG 3020 B2RF | 341 | 37 | 371 | 562 |
| CG 4020 B2RF | 322 | 36 | 332 | 560 |
| ST 4554B2RF | 286 | 38 | 341 | 541 |
| Fiber Max FM 960BR | 286 | 37 | 304 | 531 |
| DP 117 B2RF | 238 | 39 | 305 | 500 |
| PHY 425 RF | 307 | 39 | 347 | 500 |
| ST 4427B2RF | 374 | 39 | 440 | . |
| Stoneville ST 5599BR | 370 | 37 | 422 | . |
| DP 121 RF | 416 | 40 | 417 | . |
| ST 5327B2RF | 377 | 39 | 414 | . |
| ST 4357B2RF | 316 | 37 | 394 | . |
| Deltapine DP 555 BG/RR | 305 | 40 | 383 | . |
| DP 143 B2RF | 317 | 37 | 363 | . |
| Dyna Gro 2490 B2RF | 377 | 38 | 351 | . |
| DP 147 RF | 319 | 37 | 345 | . |
| ST 5283RF | 219 | 40 | 343 | . |
| Fiber Max FM 9063 B2F | 305 | 35 | 338 | . |
| Fiber Max FM 9060 F | 268 | 37 | 323 | . |
| Fiber Max FM 9068 F | 274 | 36 | 317 | . |

continued

TABLE 13. CONTINUED

| Variety | 2007 lint | | Average lint yld | |
|-------------------------------|-----------|------------|------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| PHY 375 WRF | 435 | 40 | . | . |
| PhytoGen PHX 3703 | 414 | 39 | . | . |
| Americot AM 1504 B2RF | 410 | 39 | . | . |
| PhytoGen PHX 3709 | 410 | 40 | . | . |
| PhytoGen PHX 4727 | 389 | 37 | . | . |
| PhytoGen PHX 3701 | 386 | 38 | . | . |
| Croplan Genetics CG 3035 RF | 367 | 39 | . | . |
| Stoneville STX 4596 B2RF | 358 | 35 | . | . |
| PhytoGen PHX 3702 | 357 | 39 | . | . |
| PHY 315 RF | 341 | 38 | . | . |
| Stoneville STX 4678 B2RF | 332 | 36 | . | . |
| Americot AM 1532 B2RF | 330 | 38 | . | . |
| Deltapine DP 174 RF | 328 | 40 | . | . |
| Dyna Gro CT 07550 | 322 | 37 | . | . |
| Americot AM 1622 B2RF | 318 | 35 | . | . |
| PhytoGen PHX 4762 | 316 | 37 | . | . |
| Fiber Max FM 1740B2F | 304 | 38 | . | . |
| Deltapine DP 141 B2RF | 300 | 37 | . | . |
| Stoneville STX 4498 B2RF | 289 | 39 | . | . |
| Deltapine DP 161 B2RF | 273 | 36 | . | . |
| Fiber Max FMX 4330B2F | 250 | 38 | . | . |
| Croplan Genetics CG 3220 B2RF | 239 | 36 | . | . |
| Trial mean | 332 | 38 | 368 | 563 |
| LSD(0.10) | 61 | 1 | 64 | 52 |
| %CV | 20 | 2 | 27 | 18 |

TABLE 14. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|--------------------------|--------------------------|------------------------|------------------------------------|------|
| | yield <i>lbs/acre</i> | percentage <i>%</i> | 2-yr <i>----- lbs/acre ----</i> | 3-yr |
| DP 147 RF | 348 | 38 | 355 | 622 |
| Stoneville ST 5599BR | 360 | 37 | 378 | 613 |
| DP 167 RF | 322 | 34 | 352 | 575 |
| Deltapine DP 555 BG/RR | 343 | 39 | 362 | 575 |
| DP 143 B2RF | 303 | 35 | 322 | 551 |
| ST 6611B2RF | 277 | 36 | 275 | 519 |
| DP 164 B2RF | 361 | 38 | 333 | 509 |
| Deltapine DP 444BG/RR | 484 | 42 | 461 | |
| PHY 745 WRF | 401 | 38 | 350 | |
| Fiber Max FM 960BR | 292 | 36 | 332 | |
| Fiber Max FM 1880 B2F | 292 | 34 | 312 | |
| Americot AM 1550 B2RF | 436 | 38 | | |
| Deltapine DP 161 B2RF | 350 | 38 | | |
| Stoneville STX 6351 B2RF | 307 | 36 | | |
| Stoneville STX 5458 B2RF | 279 | 35 | | |
| Deltapine DP 174 RF | 279 | 40 | | |
| Deltapine DP 141 B2RF | 275 | 38 | | |
| Fiber Max FMX 4327B2F | 274 | 36 | | |
| Fiber Max FM 1840B2F | 175 | 35 | | |
| Trial mean | 324 | 37 | 348 | 566 |
| LSD(0.10) | 36 | 1 | 37 | 44 |
| %CV | 12 | 3 | 15 | 14 |

TABLE 15. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2007

| Variety | 2007 lint [†] | | Average lint yld | |
|-------------------------------|------------------------|------------|----------------------------|-------------------|
| | yield | percentage | 2-yr [‡] | 3-yr [¶] |
| | <i>lbs/acre</i> | <i>%</i> | <i>----- lbs/acre ----</i> | |
| PHY 485 WRF | | 41 | 989 | |
| Fiber Max FM 960BR | | 42 | 975 | |
| PHY 425 RF | | 42 | 950 | |
| ST 4664RF | | 42 | 910 | |
| ST 4554B2RF | | 41 | 888 | |
| Deltapine DP 444BG/RR | | 41 | 872 | |
| Dyna Gro 2520 B2RF | | 41 | 864 | |
| CG 3020 B2RF | | 39 | 861 | |
| CG 4020 B2RF | | 41 | 856 | |
| CG 3520 B2RF | | 40 | 823 | |
| DP 117 B2RF | | 41 | 798 | |
| Deltapine DP 555 BG/RR | | 44 | | |
| Stoneville ST 5599BR | | 43 | | |
| ST 4357B2RF | | 41 | | |
| DP 121 RF | | 45 | | |
| PhytoGen PHX 3702 | | 44 | | |
| PhytoGen PHX 3703 | | 44 | | |
| PhytoGen PHX 3701 | | 44 | | |
| PHY 375 WRF | | 44 | | |
| Croplan Genetics CG 3035 RF | | 44 | | |
| PhytoGen PHX 3709 | | 44 | | |
| Fiber Max FM 1740B2F | | 43 | | |
| ST 5327B2RF | | 43 | | |
| ST 5283RF | | 43 | | |
| Dyna Gro CT 07550 | | 43 | | |
| Fiber Max FMX 4330B2F | | 43 | | |
| PHY 315 RF | | 43 | | |
| Deltapine DP 174 RF | | 43 | | |
| ST 4427B2RF | | 43 | | |
| Croplan Genetics CG 3220 B2RF | | 42 | | |
| Dyna Gro 2490 B2RF | | 42 | | |
| PhytoGen PHX 4727 | | 42 | | |

continued

TABLE 15. CONTINUED

| Variety | 2007 lint [†] | | Average lint yld | |
|--------------------------|------------------------|------------|-------------------|-------------------|
| | yield | percentage | 2-yr [‡] | 3-yr [¶] |
| Stoneville STX 4498 B2RF | | 41 | | |
| Deltapine DP 161 B2RF | | 41 | | |
| Americot AM 1532 B2RF | | 41 | | |
| PhytoGen PHX 4762 | | 40 | | |
| Fiber Max FM 9068 F | | 40 | | |
| Deltapine DP 141 B2RF | | 40 | | |
| Americot AM 1504 B2RF | | 39 | | |
| Fiber Max FM 9063 B2F | | 39 | | |
| Stoneville STX 4596 B2RF | | 39 | | |
| Americot AM 1622 B2RF | | 39 | | |
| Fiber Max FM 9060 F | | 39 | | |
| Stoneville STX 4678 B2RF | | 38 | | |
| DP 147 RF | | 41 | | |
| DP 143 B2RF | | 39 | | |
| Trial mean | | 42 | | |
| LSD(0.10) | | 1 | | |
| %CV | | 2 | | |

[†]Prattville had a crop failure in 2007 due to drought, only boll samples were taken.

[‡]Two-year averages are taken from the 2006 report No. 281.

[¶]Three-year averages not available in the 2006 report No. 281.

TABLE 16. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2007

| Variety | 2007 lint [†] | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-----------------------------|-------------------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr [‡] | 3-yr [¶] |
| | | | <i>----- lbs/acre -----</i> | |
| Deltapine DP 555 BG/RR | | 44 | 979 | |
| Stoneville ST 5599BR | | 43 | 956 | |
| DP 147 RF | | 43 | 879 | |
| DP 143 B2RF | | 40 | 871 | |
| DP 167 RF | | 39 | 865 | |
| DP 164 B2RF | | 39 | 857 | |
| ST 6611B2RF | | 38 | 813 | |
| Americot AM 1550 B2RF | | 44 | | |
| Deltapine DP 174 RF | | 43 | | |
| Fiber Max FM 1840B2F | | 43 | | |
| Deltapine DP 444BG/RR | | 42 | | |
| Stoneville STX 5458 B2RF | | 42 | | |
| PHY 745 WRF | | 42 | | |
| Fiber Max FM 960BR | | 40 | | |
| Fiber Max FM 1880 B2F | | 40 | | |
| Deltapine DP 161 B2RF | | 39 | | |
| Deltapine DP 141 B2RF | | 39 | | |
| Fiber Max FMX 4327B2F | | 38 | | |
| Stoneville STX 6351 B2RF | | 38 | | |
| Trial mean | | 41 | | |
| LSD(0.10) | | 1 | | |
| %CV | | 3 | | |

[†]Prattville had a crop failure in 2007 due to drought, only boll samples were taken.

[‡]Two-year averages are taken from the 2006 report No. 281.

[¶]Three-year averages not available in the 2006 report No. 281.

TABLE 17. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2007. THIS TRIAL WAS IRRIGATED.

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | <i>%</i> | <i>----- lbs/acre ----</i> | |
| Deltapine DP 555 BG/RR | 2053 | 44 | 2099 | . |
| ST 5327B2RF | 1632 | 42 | 1849 | . |
| ST 4427B2RF | 1586 | 40 | 1770 | . |
| DP 143 B2RF | 1754 | 39 | 1759 | . |
| Dyna Gro 2490 B2RF | 1830 | 51 | 1753 | . |
| ST 4554B2RF | 1634 | 41 | 1752 | . |
| Stoneville ST 5599BR | 1911 | 39 | 1746 | . |
| ST 4664RF | 1754 | 44 | 1728 | . |
| DP 147 RF | 1592 | 41 | 1717 | . |
| Fiber Max FM 960BR | 1473 | 42 | 1694 | . |
| PHY 485 WRF | 1576 | 41 | 1692 | . |
| Deltapine DP 444BG/RR | 1664 | 43 | 1684 | . |
| DP 117 B2RF | 1604 | 41 | 1679 | . |
| PHY 425 RF | 1672 | 41 | 1668 | . |
| DP 121 RF | 1582 | 44 | 1646 | . |
| Dyna Gro 2520 B2RF | 1426 | 41 | 1629 | . |
| Fiber Max FM 9063 B2F | 1323 | 39 | 1590 | . |
| CG 3520 B2RF | 1321 | 43 | 1582 | . |
| ST 5283RF | 1538 | 43 | 1567 | . |
| Fiber Max FM 9068 F | 1348 | 39 | 1528 | . |
| Fiber Max FM 9060 F | 1269 | 40 | 1455 | . |
| CG 4020 B2RF | 1354 | 40 | 1421 | . |
| ST 4357B2RF | 1308 | 39 | 1419 | . |
| CG 3020 B2RF | 1151 | 37 | 1382 | . |

continued

TABLE 17. CONTINUED.

| Variety | 2007 lint | | Average lint yld | |
|-------------------------------|-----------|------------|------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| Dyna Gro CT 07550 | 1847 | 43 | . | . |
| Deltapine DP 174 RF | 1774 | 45 | . | . |
| Croplan Genetics CG 3035 RF | 1735 | 42 | . | . |
| Stoneville STX 4596 B2RF | 1711 | 41 | . | . |
| Deltapine DP 141 B2RF | 1700 | 40 | . | . |
| PhytoGen PHX 3709 | 1687 | 43 | . | . |
| Deltapine DP 161 B2RF | 1670 | 40 | . | . |
| PhytoGen PHX 4762 | 1670 | 42 | . | . |
| Croplan Genetics CG 3220 B2RF | 1658 | 42 | . | . |
| PhytoGen PHX 3703 | 1656 | 43 | . | . |
| Stoneville STX 4678 B2RF | 1647 | 40 | . | . |
| PhytoGen PHX 3701 | 1613 | 44 | . | . |
| PhytoGen PHX 3702 | 1601 | 42 | . | . |
| PhytoGen PHX 4727 | 1598 | 40 | . | . |
| PHY 375 WRF | 1567 | 42 | . | . |
| Stoneville STX 4498 B2RF | 1566 | 41 | . | . |
| Fiber Max FM 1740B2F | 1556 | 41 | . | . |
| PHY 315 RF | 1543 | 43 | . | . |
| Americot AM 1532 B2RF | 1453 | 43 | . | . |
| Americot AM 1622 B2RF | 1359 | 37 | . | . |
| Americot AM 1504 B2RF | 1321 | 40 | . | . |
| Fiber Max FMX 4330B2F | 1193 | 42 | . | . |
| Trial mean | 1576 | 42 | 1659 | . |
| LSD(0.10) | 181 | 3 | 151 | . |
| %CV | 13 | 7 | 14 | . |

TABLE 18. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2007. THIS TRIAL WAS IRRIGATED.

| Variety | 2007 lint | | Average lint yld | |
|--------------------------|-----------------|------------|----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | <i>%</i> | <i>----- lbs/acre ----</i> | |
| Deltapine DP 555 BG/RR | 2165 | 44 | 2067 | . |
| Stoneville ST 5599BR | 1926 | 41 | 1910 | . |
| DP 164 B2RF | 2215 | 41 | 1910 | . |
| DP 147 RF | 2038 | 42 | 1872 | . |
| ST 6611B2RF | 1843 | 40 | 1782 | . |
| Deltapine DP 444BG/RR | 1782 | 44 | 1723 | . |
| DP 143 B2RF | 1707 | 40 | 1702 | . |
| Fiber Max FM 1880 B2F | 1705 | 41 | 1694 | . |
| DP 167 RF | 1894 | 41 | 1675 | . |
| Fiber Max FM 960BR | 1597 | 41 | 1669 | . |
| PHY 745 WRF | 1198 | 40 | 1489 | . |
| Deltapine DP 141 B2RF | 1955 | 41 | . | . |
| Deltapine DP 174 RF | 1900 | 45 | . | . |
| Stoneville STX 5458 B2RF | 1899 | 42 | . | . |
| Deltapine DP 161 B2RF | 1865 | 41 | . | . |
| Stoneville STX 6351 B2RF | 1688 | 40 | . | . |
| Fiber Max FMX 4327B2F | 1629 | 41 | . | . |
| Americot AM 1550 B2RF | 1589 | 44 | . | . |
| Fiber Max FM 1840B2F | 1376 | 41 | . | . |
| Trial mean | 1788 | 42 | 1772 | . |
| LSD(0.10) | 255 | 1 | 177 | . |
| %CV | 16 | 2 | 15 | . |

TABLE 19. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|------------------------|-----------------|------------|-----------------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| | <i>lbs/acre</i> | <i>%</i> | <i>----- lbs/acre -----</i> | |
| CG 4020 B2RF | 1053 | 38 | 1159 | 1161 |
| PHY 485 WRF | 1179 | 39 | 1239 | 1151 |
| Deltapine DP 444BG/RR | 1271 | 40 | 1264 | 1150 |
| PHY 425 RF | 1091 | 38 | 1215 | 1133 |
| CG 3520 B2RF | 1117 | 37 | 1189 | 1122 |
| ST 4554B2RF | 994 | 39 | 1050 | 1089 |
| DP 117 B2RF | 861 | 39 | 1109 | 1077 |
| CG 3020 B2RF | 947 | 37 | 1030 | 1058 |
| Dyna Gro 2520 B2RF | 979 | 39 | 1049 | 1031 |
| ST 4664RF | 1001 | 40 | 1059 | 1026 |
| Fiber Max FM 960BR | 886 | 39 | 1011 | 998 |
| Deltapine DP 555 BG/RR | 1195 | 44 | 1357 | . |
| DP 147 RF | 1074 | 41 | 1244 | . |
| ST 4357B2RF | 1177 | 38 | 1210 | . |
| DP 143 B2RF | 1078 | 40 | 1196 | . |
| DP 121 RF | 1224 | 43 | 1179 | . |
| ST 5327B2RF | 1110 | 41 | 1173 | . |
| Fiber Max FM 9068 F | 979 | 39 | 1160 | . |
| Dyna Gro 2490 B2RF | 1116 | 38 | 1156 | . |
| Stoneville ST 5599BR | 1079 | 41 | 1154 | . |
| ST 4427B2RF | 1110 | 39 | 1146 | . |
| Fiber Max FM 9060 F | 929 | 39 | 1142 | . |
| ST 5283RF | 1130 | 41 | 1116 | . |
| Fiber Max FM 9063 B2F | 861 | 38 | 1066 | . |
| PhytoGen PHX 3702 | 1297 | 44 | . | . |
| PHY 375 WRF | 1296 | 41 | . | . |
| PhytoGen PHX 3709 | 1242 | 42 | . | . |
| PhytoGen PHX 3701 | 1189 | 41 | . | . |
| Americot AM 1532 B2RF | 1182 | 38 | . | . |
| PhytoGen PHX 4762 | 1174 | 40 | . | . |
| PhytoGen PHX 3703 | 1149 | 42 | . | . |
| PHY 315 RF | 1140 | 43 | . | . |

continued

TABLE 19. CONTINUED

| Variety | 2007 lint | | Average lint yld | |
|-------------------------------|-----------|------------|------------------|------|
| | yield | percentage | 2-yr | 3-yr |
| Deltapine DP 161 B2RF | 1096 | 39 | . | . |
| PhytoGen PHX 4727 | 1088 | 40 | . | . |
| Dyna Gro CT 07550 | 1053 | 40 | . | . |
| Deltapine DP 174 RF | 1051 | 46 | . | . |
| Americot AM 1622 B2RF | 1031 | 37 | . | . |
| Fiber Max FMX 4330B2F | 1007 | 43 | . | . |
| Americot AM 1504 B2RF | 1001 | 40 | . | . |
| Stoneville STX 4498 B2RF | 996 | 39 | . | . |
| Croplan Genetics CG 3035 RF | 983 | 41 | . | . |
| Stoneville STX 4678 B2RF | 976 | 39 | . | . |
| Stoneville STX 4596 B2RF | 936 | 38 | . | . |
| Fiber Max FM 1740B2F | 936 | 41 | . | . |
| Deltapine DP 141 B2RF | 915 | 39 | . | . |
| Croplan Genetics CG 3220 B2RF | 870 | 38 | . | . |
| Trial mean | 1066 | 40 | 1153 | 1090 |
| LSD(0.10) | 115 | 1 | 101 | 46 |
| %CV | 12 | 3 | 13 | 8 |

TABLE 20. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | 2007 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr | 3-yr |
| Deltapine DP 555 BG/RR | 1023 | 45 | 1387 | 1263 |
| Stoneville ST 5599BR | 1019 | 40 | 1187 | 1119 |
| DP 147 RF | 962 | 42 | 1127 | 1058 |
| DP 167 RF | 1090 | 42 | 1121 | 1025 |
| DP 164 B2RF | 987 | 40 | 1067 | 1021 |
| DP 143 B2RF | 957 | 40 | 1055 | 998 |
| ST 6611B2RF | 869 | 38 | 997 | 971 |
| Deltapine DP 444BG/RR | 1098 | 40 | 1062 | . |
| Fiber Max FM 1880 B2F | 835 | 37 | 1010 | . |
| Fiber Max FM 960BR | 849 | 39 | 992 | . |
| PHY 745 WRF | 716 | 40 | 944 | . |
| Americot AM 1550 B2RF | 916 | 42 | . | . |
| Stoneville STX 5458 B2RF | 891 | 40 | . | . |
| Stoneville STX 6351 B2RF | 862 | 38 | . | . |
| Deltapine DP 161 B2RF | 841 | 37 | . | . |
| Deltapine DP 141 B2RF | 825 | 41 | . | . |
| Deltapine DP 174 RF | 804 | 45 | . | . |
| Fiber Max FMX 4327B2F | 659 | 41 | . | . |
| Fiber Max FM 1840B2F | 631 | 41 | . | . |
| Trial mean | 886 | 40 | 1086 | 1065 |
| LSD(0.10) | 113 | 1 | 80 | 60 |
| %CV | 14 | 4 | 11 | 10 |

TABLE 21. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2007

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| CT 210 | 307 | 15 | . | . | 383 | 17 | 858 | 17 | . | . |
| CT Linwood | 406 | 8 | . | . | 440 | 12 | 971 | 6 | . | . |
| Deltapine DP 393 | 366 | 11 | . | . | 574 | 4 | 1044 | 3 | . | . |
| Deltapine DP 432 RR | 413 | 6 | . | . | 536 | 6 | 955 | 9 | . | . |
| Deltapine DP 434 RR | 302 | 17 | . | . | 334 | 18 | 996 | 4 | . | . |
| Deltapine DP 444BG/RR | 389 | 9 | . | . | 643 | 1 | 1052 | 2 | . | . |
| Deltapine DP 445BG/RR | 555 | 1 | . | . | 617 | 3 | 911 | 13 | . | . |
| Deltapine DP 454BG/RR | 447 | 4 | . | . | 620 | 2 | 954 | 10 | . | . |
| Deltapine DP 455BG/RR | 469 | 3 | . | . | 471 | 10 | 951 | 11 | . | . |
| Deltapine DP 555 BG/RR | 296 | 18 | . | . | 403 | 14 | 897 | 14 | . | . |
| Fiber Max FM 1600LL | 305 | 16 | . | . | 534 | 7 | 894 | 15 | . | . |
| Fiber Max FM 1735LLB2 | 376 | 10 | . | . | 470 | 11 | 956 | 8 | . | . |
| Fiber Max FM 955LLB2 | 266 | 20 | . | . | 400 | 15 | 858 | 16 | . | . |
| Fiber Max FM 960B2R | 326 | 13 | . | . | 405 | 13 | 792 | 19 | . | . |
| Fiber Max FM 960BR | 289 | 19 | . | . | 277 | 19 | 816 | 18 | . | . |
| PhytoGen PHY 310R | 412 | 7 | . | . | 486 | 9 | 974 | 5 | . | . |
| PhytoGen PHY 370WR | 520 | 2 | . | . | 554 | 5 | 1061 | 1 | . | . |
| PhytoGen PHY 480WR | 365 | 12 | . | . | 399 | 16 | 958 | 7 | . | . |
| STG 59-6-9 | 316 | 14 | . | . | . | . | . | . | . | . |
| Stoneville ST5242BR | 428 | 5 | . | . | 523 | 8 | 919 | 12 | . | . |
| Trial mean | 378 | . | . | . | 477 | . | 938 | . | . | . |
| LSD(0.10) | 61 | . | . | . | 50 | . | 60 | . | . | . |
| %CV | 31 | . | . | . | 20 | . | 12 | . | . | . |

TABLE 22. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2007

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| Deltapine DP 445BG/RR | 381 | 3 | . | . | 586 | 1 | 847 | 2 | . | . |
| Deltapine DP 454BG/RR | 427 | 1 | . | . | 543 | 2 | 795 | 4 | . | . |
| Deltapine DP 455BG/RR | 379 | 4 | . | . | 494 | 3 | 745 | 6 | . | . |
| Deltapine DP 493 | 281 | 7 | . | . | 362 | 8 | 662 | 8 | . | . |
| Deltapine DP 515BG/RR | 322 | 6 | . | . | 449 | 4 | 875 | 1 | . | . |
| Deltapine DP 555 BG/RR | 370 | 5 | . | . | 410 | 6 | 745 | 5 | . | . |
| Fiber Max FM 835LLB2 | 172 | 9 | . | . | 439 | 5 | 581 | 9 | . | . |
| Fiber Max FM 960BR | 241 | 8 | . | . | 308 | 9 | 677 | 7 | . | . |
| Stoneville ST 5599BR | 386 | 2 | . | . | 393 | 7 | 824 | 3 | . | . |
| Trial mean | 329 | . | . | . | 443 | . | 750 | . | . | . |
| LSD(0.10) | 47 | . | . | . | 30 | . | 42 | . | . | . |
| %CV | 26 | . | . | . | 13 | . | 10 | . | . | . |

TABLE 23. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2007

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|--------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| Americot AM 1504 B2RF | 410 | 4 | . | . | . | . | 1001 | 30 | . | . |
| Americot AM 1532 B2RF | 330 | 22 | . | . | . | . | 1182 | 8 | . | . |
| Americot AM 1622 B2RF | 318 | 27 | . | . | . | . | 1031 | 28 | . | . |
| CG 3020 B2RF | 341 | 18 | . | . | . | . | 947 | 38 | . | . |
| CG 3520 B2RF | 365 | 15 | . | . | . | . | 1117 | 15 | . | . |
| CG 4020 B2RF | 322 | 24 | . | . | . | . | 1053 | 26 | . | . |
| Croplan Genetics CG 3035 | 367 | 14 | . | . | . | . | 983 | 34 | . | . |
| Croplan Genetics CG 3220 | 239 | 44 | . | . | . | . | 870 | 44 | . | . |
| Deltapine DP 141 B2RF | 300 | 36 | . | . | . | . | 915 | 42 | . | . |
| Deltapine DP 161 B2RF | 273 | 41 | . | . | . | . | 1096 | 19 | . | . |
| Deltapine DP 174 RF | 328 | 23 | . | . | . | . | 1051 | 27 | . | . |
| Deltapine DP 444BG/RR | 377 | 9 | . | . | . | . | 1271 | 3 | . | . |
| Deltapine DP 555 BG/RR | 305 | 34 | . | . | . | . | 1195 | 6 | . | . |
| DP 117 B2RF | 238 | 45 | . | . | . | . | 861 | 45 | . | . |
| DP 121 RF | 416 | 2 | . | . | . | . | 1224 | 5 | . | . |
| DP 143 B2RF | 317 | 29 | . | . | . | . | 1078 | 23 | . | . |
| DP 147 RF | 319 | 26 | . | . | . | . | 1074 | 24 | . | . |
| Dyna Gro 2490 B2RF | 377 | 10 | . | . | . | . | 1116 | 16 | . | . |
| Dyna Gro 2520 B2RF | 317 | 28 | . | . | . | . | 979 | 35 | . | . |
| Dyna Gro CT 07550 | 322 | 25 | . | . | . | . | 1053 | 25 | . | . |
| Fiber Max FM 1740B2F | 304 | 35 | . | . | . | . | 936 | 40 | . | . |
| Fiber Max FM 9060 F | 268 | 42 | . | . | . | . | 929 | 41 | . | . |
| Fiber Max FM 9063 B2F | 305 | 33 | . | . | . | . | 861 | 46 | . | . |
| Fiber Max FM 9068 F | 274 | 40 | . | . | . | . | 979 | 36 | . | . |
| Fiber Max FM 960BR | 286 | 39 | . | . | . | . | 886 | 43 | . | . |
| Fiber Max FMX 4330B2F | 250 | 43 | . | . | . | . | 1007 | 29 | . | . |
| PHY 315 RF | 341 | 19 | . | . | . | . | 1140 | 13 | . | . |
| PHY 375 WRF | 435 | 1 | . | . | . | . | 1296 | 2 | . | . |
| PHY 425 RF | 307 | 32 | . | . | . | . | 1091 | 20 | . | . |
| PHY 485 WRF | 337 | 20 | . | . | . | . | 1179 | 9 | . | . |

continued

TABLE 23. CONTINUED.

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|--------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| PhytoGen PHX 3701 | 386 | 7 | . | . | . | . | 1189 | 7 | . | . |
| PhytoGen PHX 3702 | 357 | 17 | . | . | . | . | 1297 | 1 | . | . |
| PhytoGen PHX 3703 | 414 | 3 | . | . | . | . | 1149 | 12 | . | . |
| PhytoGen PHX 3709 | 410 | 5 | . | . | . | . | 1242 | 4 | . | . |
| PhytoGen PHX 4727 | 389 | 6 | . | . | . | . | 1088 | 21 | . | . |
| PhytoGen PHX 4762 | 316 | 30 | . | . | . | . | 1174 | 11 | . | . |
| ST 4357B2RF | 316 | 31 | . | . | . | . | 1177 | 10 | . | . |
| ST 4427B2RF | 374 | 12 | . | . | . | . | 1110 | 17 | . | . |
| ST 4554B2RF | 286 | 38 | . | . | . | . | 994 | 33 | . | . |
| ST 4664RF | 377 | 11 | . | . | . | . | 1001 | 31 | . | . |
| ST 5283RF | 219 | 46 | . | . | . | . | 1130 | 14 | . | . |
| ST 5327B2RF | 377 | 8 | . | . | . | . | 1110 | 18 | . | . |
| Stoneville ST 5599BR | 370 | 13 | . | . | . | . | 1079 | 22 | . | . |
| Stoneville STX 4498 B2RF | 289 | 37 | . | . | . | . | 996 | 32 | . | . |
| Stoneville STX 4596 B2RF | 358 | 16 | . | . | . | . | 936 | 39 | . | . |
| Stoneville STX 4678 B2RF | 332 | 21 | . | . | . | . | 976 | 37 | . | . |
| Trial mean | 332 | .. | . | . | . | . | 1066 | . | . | . |
| LSD(0.10) | 35 | .. | . | . | . | . | 66 | . | . | . |
| %CV | 20 | .. | . | . | . | . | 12 | . | . | . |

TABLE 24. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2007

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|--------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| Americot AM 1550 B2RF | 436 | 2 | . | . | . | . | 916 | 8 | . | . |
| Deltapine DP 141 B2RF | 275 | 17 | . | . | . | . | 825 | 15 | . | . |
| Deltapine DP 161 B2RF | 350 | 6 | . | . | . | . | 841 | 13 | . | . |
| Deltapine DP 174 RF | 279 | 15 | . | . | . | . | 804 | 16 | . | . |
| Deltapine DP 444BG/RR | 484 | 1 | . | . | . | . | 1098 | 1 | . | . |
| Deltapine DP 555 BG/RR | 343 | 8 | . | . | . | . | 1023 | 3 | . | . |
| DP 143 B2RF | 303 | 11 | . | . | . | . | 957 | 7 | . | . |
| DP 147 RF | 348 | 7 | . | . | . | . | 962 | 6 | . | . |
| DP 164 B2RF | 361 | 4 | . | . | . | . | 987 | 5 | . | . |
| DP 167 RF | 322 | 9 | . | . | . | . | 1090 | 2 | . | . |
| Fiber Max FM 1840B2F | 175 | 19 | . | . | . | . | 631 | 19 | . | . |
| Fiber Max FM 1880 B2F | 292 | 13 | . | . | . | . | 835 | 14 | . | . |
| Fiber Max FM 960BR | 292 | 12 | . | . | . | . | 849 | 12 | . | . |
| Fiber Max FMX 4327B2F | 274 | 18 | . | . | . | . | 659 | 18 | . | . |
| PHY 745 WRF | 401 | 3 | . | . | . | . | 716 | 17 | . | . |
| ST 6611B2RF | 277 | 16 | . | . | . | . | 869 | 10 | . | . |
| Stoneville ST 5599BR | 360 | 5 | . | . | . | . | 1019 | 4 | . | . |
| Stoneville STX 5458 B2RF | 279 | 14 | . | . | . | . | 891 | 9 | . | . |
| Stoneville STX 6351 B2RF | 307 | 10 | . | . | . | . | 862 | 11 | . | . |
| Trial mean | 324 | . | . | . | . | . | 886 | . | . | . |
| LSD(0.10) | 21 | . | . | . | . | . | 66 | . | . | . |
| %CV | 12 | . | . | . | . | . | 14 | . | . | . |

TABLE 25. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2005-2007

| Variety | Lint yield [†] | | | Lint percentage [†] | | |
|------------------------|-------------------------|------|------|------------------------------|------|------|
| | 2007 | 2-yr | 3-yr | 2007 | 2-yr | 3-yr |
| | ----- lbs/acre----- | | | ----- % ----- | | |
| PhytoGen PHY 310R | 624 | 770 | 952 | 40 | 42 | 42 |
| Deltapine DP 445BG/RR | 694 | 766 | 925 | 41 | 42 | 42 |
| Deltapine DP 454BG/RR | 674 | 771 | 919 | 43 | 44 | 44 |
| PhytoGen PHY 370WR | 712 | 803 | 914 | 40 | 41 | 41 |
| Stoneville ST5242BR | 623 | 726 | 893 | 40 | 41 | 41 |
| Deltapine DP 432 RR | 635 | 710 | 891 | 39 | 41 | 40 |
| Deltapine DP 555 BG/RR | 532 | 726 | 876 | 41 | 43 | 43 |
| PhytoGen PHY 480WR | 574 | 750 | 870 | 39 | 40 | 40 |
| Deltapine DP 393 | 661 | 736 | 869 | 40 | 41 | 41 |
| Deltapine DP 444BG/RR | 695 | 715 | 867 | 41 | 42 | 42 |
| Deltapine DP 455BG/RR | 630 | 748 | 850 | 42 | 43 | 43 |
| Deltapine DP 434 RR | 544 | 647 | 820 | 40 | 42 | 42 |
| Fiber Max FM 960BR | 461 | 633 | 792 | 39 | 40 | 40 |
| Fiber Max FM 960B2R | 508 | 639 | 755 | 37 | 39 | 39 |
| CT Linwood | 606 | 736 | . | 41 | 42 | . |
| CT 210 | 516 | 675 | . | 39 | 39 | . |
| Fiber Max FM 1735LLB2 | 601 | . | . | 38 | . | . |
| Fiber Max FM 1600LL | 578 | . | . | 39 | . | . |
| STG 59-6-9 | 534 | . | . | 37 | . | . |
| Fiber Max FM 955LLB2 | 508 | . | . | 36 | . | . |
| Trial mean | 595 | 722 | 871 | 40 | 41 | 41 |
| LSD(0.10) | 10 | 39 | 89 | 1 | 1 | 1 |
| %CV | 3 | 14 | 34 | 3 | 4 | 3 |

[†]Based 14 location x year combinations, excluding Fairhope 2006.

TABLE 26. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2005-2007

| Variety | Lint yield [†] | | | Lint percentage [†] | | |
|------------------------|-------------------------|------|------|------------------------------|------|------|
| | 2007 | 2-yr | 3-yr | 2007 | 2-yr | 3-yr |
| | ----- lbs/acre----- | | | ----- % ----- | | |
| Deltapine DP 454BG/RR | 588 | 723 | 955 | 42 | 43 | 43 |
| Deltapine DP 555 BG/RR | 508 | 729 | 872 | 42 | 43 | 43 |
| Deltapine DP 515BG/RR | 549 | 695 | 862 | 41 | 42 | 42 |
| Deltapine DP 445BG/RR | 605 | 659 | 853 | 41 | 42 | 41 |
| Stoneville ST 5599BR | 534 | 679 | 845 | 38 | 40 | 40 |
| Deltapine DP 455BG/RR | 539 | 666 | 832 | 40 | 42 | 42 |
| Deltapine DP 493 | 435 | 660 | 829 | 42 | 43 | 44 |
| Fiber Max FM 960BR | 409 | 583 | 775 | 37 | 39 | 39 |
| Fiber Max FM 835LLB2 | 405 | . | . | 37 | . | . |
| Trial mean | 508 | 674 | 853 | 40 | 42 | 42 |
| LSD(0.10) | 23 | 64 | 95 | 1 | 1 | 1 |
| %CV | 8 | 25 | 37 | 4 | 2 | 2 |

[†]Based 14 location x year combinations, excluding Fairhope 2006.

TABLE 27. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2005-2007

| Variety | Lint yield | | | Lint percentage | | |
|------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2007 [†] | 2-yr [‡] | 3-yr [§] | 2007 [†] | 2-yr [‡] | 3-yr [§] |
| | ----- lbs/acre----- | | | ----- % ----- | | |
| PHY 485 WRF | 1032 | 957 | 1112 | 40 | 41 | 41 |
| Deltapine DP 444BG/RR | 1105 | 944 | 1097 | 41 | 41 | 42 |
| ST 4554B2RF | 972 | 887 | 1071 | 39 | 40 | 40 |
| ST 4664RF | 1045 | 902 | 1070 | 41 | 41 | 42 |
| PHY 425 RF | 1024 | 930 | 1068 | 39 | 40 | 41 |
| CG 3520 B2RF | 935 | 892 | 1056 | 39 | 39 | 39 |
| Fiber Max FM 960BR | 883 | 875 | 1047 | 39 | 40 | 40 |
| Dyna Gro 2520 B2RF | 908 | 856 | 1031 | 39 | 40 | 40 |
| CG 4020 B2RF | 911 | 818 | 1026 | 38 | 39 | 39 |
| DP 117 B2RF | 900 | 879 | 1023 | 40 | 40 | 40 |
| CG 3020 B2RF | 812 | 781 | 989 | 37 | 38 | 39 |
| Deltapine DP 555 BG/RR | 1185 | 1087 | . | 43 | 43 | . |
| ST 5327B2RF | 1041 | 979 | . | 41 | 41 | . |
| Stoneville ST 5599BR | 1121 | 952 | . | 39 | 40 | . |
| ST 4427B2RF | 1024 | 950 | . | 39 | 40 | . |
| DP 143 B2RF | 1051 | 947 | . | 38 | 39 | . |
| DP 147 RF | 996 | 945 | . | 39 | 41 | . |
| Dyna Gro 2490 B2RF | 1108 | 938 | . | 42 | 40 | . |
| DP 121 RF | 1075 | 913 | . | 42 | 42 | . |
| ST 4357B2RF | 934 | 852 | . | 38 | 39 | . |
| ST 5283RF | 963 | 847 | . | 41 | 42 | . |
| Fiber Max FM 9068 F | 868 | 842 | . | 38 | 39 | . |
| Fiber Max FM 9063 B2F | 830 | 835 | . | 37 | 39 | . |
| Fiber Max FM 9060 F | 823 | 827 | . | 39 | 41 | . |

continued

TABLE 26. CONTINUED.

| Variety | Lint yield | | | Lint percentage | | |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2007 [†] | 2-yr [‡] | 3-yr [§] | 2007 [†] | 2-yr [‡] | 3-yr [§] |
| PhytoGen PHX 3709 | 1113 | . | . | 42 | . | . |
| PHY 375 WRF | 1100 | . | . | 41 | . | . |
| PhytoGen PHX 3702 | 1086 | . | . | 42 | . | . |
| Dyna Gro CT 07550 | 1075 | . | . | 40 | . | . |
| PhytoGen PHX 3703 | 1074 | . | . | 42 | . | . |
| PhytoGen PHX 3701 | 1063 | . | . | 41 | . | . |
| PhytoGen PHX 4762 | 1054 | . | . | 40 | . | . |
| Deltapine DP 174 RF | 1052 | . | . | 44 | . | . |
| Croplan Genetics CG 3035 RF | 1029 | . | . | 41 | . | . |
| PhytoGen PHX 4727 | 1026 | . | . | 39 | . | . |
| Deltapine DP 161 B2RF | 1014 | . | . | 38 | . | . |
| PHY 315 RF | 1009 | . | . | 41 | . | . |
| Stoneville STX 4596 B2RF | 1002 | . | . | 38 | . | . |
| Americot AM 1532 B2RF | 989 | . | . | 40 | . | . |
| Stoneville STX 4678 B2RF | 986 | . | . | 38 | . | . |
| Deltapine DP 141 B2RF | 973 | . | . | 39 | . | . |
| Stoneville STX 4498 B2RF | 951 | . | . | 40 | . | . |
| Fiber Max FM 1740B2F | 933 | . | . | 40 | . | . |
| Croplan Genetics CG 3220 B2RF | 921 | . | . | 39 | . | . |
| Americot AM 1504 B2RF | 911 | . | . | 39 | . | . |
| Americot AM 1622 B2RF | 904 | . | . | 36 | . | . |
| Fiber Max FMX 4330B2F | 818 | . | . | 41 | . | . |
| Trial mean | 992 | 901 | 1054 | 40 | 40 | 40 |
| LSD(0.10) | 49 | 29 | 59 | 1 | 1 | 1 |
| %CV | 10 | 9 | 19 | 5 | 4 | 3 |

[†]Based three locations (Belle Mina, Fairhope, Headland). Prattville had a crop failure in 2007.

[‡]Based 7 location x year combinations; Prattville had a crop failure in 2007.

[§]Based 10 location x year combinations; Headland was not initiated until 2006 and Prattville had a crop failure in 2007.

TABLE 28. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2005-2007

| Variety | Lint yield | | | Lint percentage | | |
|------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2007 [†] | 2-yr [‡] | 3-yr [¶] | 2007 [†] | 2-yr [‡] | 3-yr [¶] |
| | ----- lbs/acre----- | | | ----- %----- | | |
| Deltapine DP 555 BG/RR | 1139 | 1018 | ‡ | 45 | 45 | ‡ |
| Stoneville ST 5599BR | 1031 | 955 | | 42 | 42 | |
| DP 147 RF | 964 | 915 | | 41 | 41 | |
| ST 6622 RF | 950 | 867 | | 40 | 41 | |
| DP 143 B2RF | 925 | 855 | | 41 | 40 | |
| DP 167 RF | 876 | 853 | | 40 | 40 | |
| DP 164 B2RF | 882 | 826 | | 39 | 40 | |
| ST 6611B2RF | 882 | 825 | | 39 | 39 | |
| Fiber Max FM 960BR | 951 | . | | 41 | . | |
| Fiber Max FM 9063 B2F | 930 | . | | 40 | . | |
| PHY 745 WRF | 928 | . | | 41 | . | |
| Fiber Max FMX 0680 B2F | 920 | . | | 40 | . | |
| ST 6565 B2RF | 884 | . | | 39 | . | |
| Deltapine DP 444BG/RR | 881 | . | | 43 | . | |
| Fiber Max FM 9068 F | 872 | . | | 41 | . | |
| Trial mean | 934 | 889 | | 41 | 41 | |
| LSD(0.10) | 41 | 115 | | 0.8 | 0.1 | |
| %CV | 10 | 34 | | 3 | 1 | |

[†]Based three locations (Belle Mina, Fairhope, Headland). Prattville had a crop failure in 2007.

[‡]Based 7 location x year combinations; Prattville had a crop failure in 2007.

[¶]Based 10 location x year combinations; Headland was not initiated until 2006 and Prattville had a crop failure in 2007.

TABLE 29.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| CT 210 | 2.9 | 1.07 | 25.1 | 80.4 |
| CT Linwood | 3.1 | 1.07 | 25.7 | 80.2 |
| Deltapine DP 393 | 2.9 | 1.11 | 26.8 | 81.0 |
| Deltapine DP 432 RR | 2.9 | 1.07 | 25.1 | 80.2 |
| Deltapine DP 434 RR | 2.5 | 1.11 | 23.8 | 79.2 |
| Deltapine DP 444BG/RR | 2.9 | 1.06 | 23.5 | 80.0 |
| Deltapine DP 445BG/RR | 3.0 | 1.09 | 27.6 | 81.1 |
| Deltapine DP 454BG/RR | 2.8 | 1.03 | 22.9 | 80.3 |
| Deltapine DP 455BG/RR | 2.9 | 1.07 | 27.0 | 78.9 |
| Deltapine DP 555 BG/RR | 2.9 | 1.05 | 21.1 | 78.2 |
| Fiber Max FM 1600LL | 2.9 | 1.11 | 26.9 | 80.9 |
| Fiber Max FM 1735LLB2 | 2.8 | 1.12 | 26.7 | 81.7 |
| Fiber Max FM 955LLB2 | 2.6 | 1.16 | 24.9 | 81.2 |
| Fiber Max FM 960B2R | 2.4 | 1.08 | 23.4 | 78.1 |
| Fiber Max FM 960BR | 2.4 | 1.10 | 25.5 | 79.4 |
| PhytoGen PHY 310R | 2.5 | 1.03 | 22.5 | 79.7 |
| PhytoGen PHY 370WR | 3.0 | 1.03 | 25.5 | 79.9 |
| PhytoGen PHY 480WR | 3.1 | 1.09 | 25.4 | 82.1 |
| STG 59-6-9 | 2.8 | 1.14 | 27.9 | 81.5 |
| Stoneville ST5242BR | 2.8 | 1.05 | 23.2 | 79.8 |

TABLE 29.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT BELLE MINA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Deltapine DP 445BG/RR | 2.9 | 1.06 | 26.6 | 80.3 |
| Deltapine DP 454BG/RR | 2.8 | 1.04 | 22.9 | 79.6 |
| Deltapine DP 455BG/RR | 2.7 | 1.06 | 24.2 | 79.0 |
| Deltapine DP 493 | 2.9 | 1.06 | 24.7 | 79.3 |
| Deltapine DP 515BG/RR | 2.7 | 1.05 | 23.8 | 78.5 |
| Deltapine DP 555 BG/RR | 2.8 | 1.03 | 21.8 | 76.8 |
| Fiber Max FM 835LLB2 | 2.7 | 1.08 | 23.8 | 80.3 |
| Fiber Max FM 960BR | 2.5 | 1.01 | 24.7 | 79.1 |
| Stoneville ST 5599BR | 2.6 | 1.01 | 21.6 | 77.2 |

TABLE 30.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| CT 210 | 5.6 | 0.98 | 28.3 | 80.1 |
| CT Linwood | 5.9 | 0.97 | 29.3 | 80.6 |
| Deltapine DP 393 | 5.2 | 1.05 | 32.2 | 83.1 |
| Deltapine DP 432 RR | 5.5 | 1.02 | 29.5 | 81.5 |
| Deltapine DP 434 RR | 5.1 | 1.04 | 29.2 | 80.3 |
| Deltapine DP 444BG/RR | 4.6 | 1.00 | 28.4 | 82.0 |
| Deltapine DP 445BG/RR | 5.1 | 1.07 | 33.4 | 81.7 |
| Deltapine DP 454BG/RR | 5.1 | 0.99 | 29.1 | 81.0 |
| Deltapine DP 455BG/RR | 5.1 | 1.04 | 30.5 | 80.9 |
| Deltapine DP 555 BG/RR | 5.4 | 1.06 | 31.5 | 80.7 |
| Fiber Max FM 1600LL | 5.1 | 1.05 | 29.1 | 80.9 |
| Fiber Max FM 1735LLB2 | 4.8 | 1.05 | 31.5 | 82.1 |
| Fiber Max FM 955LLB2 | 5.3 | 1.17 | 30.9 | 81.7 |
| Fiber Max FM 960B2R | 5.1 | 1.09 | 32.0 | 81.2 |
| Fiber Max FM 960BR | 5.1 | 1.11 | 34.9 | 82.4 |
| PhytoGen PHY 310R | 5.6 | 0.99 | 29.3 | 81.4 |
| PhytoGen PHY 370WR | 5.6 | 1.02 | 30.1 | 82.2 |
| PhytoGen PHY 480WR | 5.4 | 1.06 | 31.6 | 81.1 |
| STG 59-6-9 | 5.1 | 1.11 | 31.9 | 82.3 |
| Stoneville ST5242BR | 4.8 | 1.03 | 28.7 | 81.3 |

TABLE 30.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, 2007

| | <i>units</i> | <i>in.</i> | <i>g/tex</i> | <i>pct.</i> |
|------------------------|--------------|------------|--------------|-------------|
| Full season | | | | |
| Deltapine DP 445BG/RR | 5.2 | 1.01 | 31.0 | 84.4 |
| Deltapine DP 454BG/RR | 5.2 | 1.07 | 31.8 | 82.4 |
| Deltapine DP 455BG/RR | 5.1 | 0.97 | 28.7 | 80.8 |
| Deltapine DP 493 | 5.7 | 1.08 | 33.3 | 82.0 |
| Deltapine DP 515BG/RR | 5.5 | 1.01 | 28.8 | 80.9 |
| Deltapine DP 555 BG/RR | 5.6 | 0.97 | 29.5 | 80.5 |
| Fiber Max FM 835LLB2 | 5.1 | 1.16 | 35.6 | 84.1 |
| Fiber Max FM 960BR | 5.3 | 1.08 | 34.3 | 83.8 |
| Stoneville ST 5599BR | 5.5 | 1.03 | 30.8 | 81.1 |

TABLE 31.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT SHORTER, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| CT 210 | 4.7 | 0.99 | 26.9 | 80.1 |
| CT Linwood | 4.8 | 0.96 | 26.5 | 80.1 |
| Deltapine DP 393 | 3.9 | 1.02 | 28.6 | 81.4 |
| Deltapine DP 432 RR | 3.7 | 0.95 | 24.4 | 80.2 |
| Deltapine DP 434 RR | 3.3 | 0.98 | 23.9 | 79.0 |
| Deltapine DP 444BG/RR | 3.6 | 1.04 | 25.4 | 81.8 |
| Deltapine DP 445BG/RR | 4.2 | 1.02 | 29.6 | 81.8 |
| Deltapine DP 454BG/RR | 4.2 | 0.95 | 22.8 | 79.7 |
| Deltapine DP 455BG/RR | 3.7 | 0.97 | 24.5 | 79.7 |
| Deltapine DP 555 BG/RR | 4.2 | 0.99 | 24.7 | 81.1 |
| Fiber Max FM 1600LL | 3.6 | 1.07 | 28.9 | 81.8 |
| Fiber Max FM 1735LLB2 | 3.6 | 1.05 | 26.6 | 81.6 |
| Fiber Max FM 955LLB2 | 3.8 | 1.04 | 26.2 | 80.7 |
| Fiber Max FM 960B2R | 3.6 | 1.03 | 26.0 | 80.1 |
| Fiber Max FM 960BR | 3.9 | 1.01 | 28.0 | 80.3 |
| PhytoGen PHY 310R | 4.2 | 0.96 | 26.3 | 81.0 |
| PhytoGen PHY 370WR | 3.9 | 0.96 | 22.5 | 80.2 |
| PhytoGen PHY 480WR | 4.7 | 1.01 | 26.7 | 82.4 |
| Stoneville ST5242BR | 3.6 | 0.96 | 23.7 | 80.2 |

TABLE 31.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT SHORTER, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Deltapine DP 445BG/RR | 3.6 | 1.03 | 28.0 | 81.1 |
| Deltapine DP 454BG/RR | 3.7 | 0.95 | 23.5 | 79.7 |
| Deltapine DP 455BG/RR | 3.3 | 1.00 | 25.1 | 79.6 |
| Deltapine DP 493 | 4.1 | 1.01 | 27.1 | 79.3 |
| Deltapine DP 515BG/RR | 3.7 | 0.98 | 24.7 | 78.9 |
| Deltapine DP 555 BG/RR | 3.9 | 1.00 | 23.4 | 78.9 |
| Fiber Max FM 835LLB2 | 3.5 | 1.04 | 27.3 | 80.1 |
| Fiber Max FM 960BR | 2.8 | 1.02 | 24.6 | 79.1 |
| Stoneville ST 5599BR | 3.5 | 0.96 | 23.3 | 78.9 |

TABLE 32.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT HEADLAND, 2007

Headland had a crop failure in 2007 due to drought and neither yield nor lint data were taken.

TABLE 32.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT HEADLAND, 2007

Headland had a crop failure in 2007 due to drought and neither yield nor lint data were taken.

TABLE 33.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| CT 210 | 5.0 | 1.05 | 29.7 | 81.5 |
| CT Linwood | 5.5 | 1.07 | 31.1 | 82.7 |
| Deltapine DP 393 | 4.6 | 1.14 | 30.3 | 82.9 |
| Deltapine DP 432 RR | 4.7 | 1.08 | 30.5 | 83.3 |
| Deltapine DP 434 RR | 4.6 | 1.13 | 27.5 | 81.9 |
| Deltapine DP 444BG/RR | 4.0 | 1.11 | 28.3 | 82.3 |
| Deltapine DP 445BG/RR | 4.0 | 1.10 | 28.3 | 81.8 |
| Deltapine DP 454BG/RR | 4.8 | 1.03 | 28.1 | 81.6 |
| Deltapine DP 455BG/RR | 3.7 | 1.07 | 27.8 | 79.9 |
| Deltapine DP 555 BG/RR | 4.3 | 1.07 | 27.9 | 80.6 |
| Fiber Max FM 1600LL | 4.2 | 1.11 | 29.7 | 81.2 |
| Fiber Max FM 1735LLB2 | 4.5 | 1.07 | 29.9 | 82.5 |
| Fiber Max FM 955LLB2 | 4.4 | 1.13 | 29.4 | 82.5 |
| Fiber Max FM 960B2R | 4.1 | 1.08 | 27.2 | 79.8 |
| Fiber Max FM 960BR | 4.4 | 1.08 | 29.4 | 80.9 |
| PhytoGen PHY 310R | 4.3 | 1.06 | 28.0 | 82.5 |
| PhytoGen PHY 370WR | 4.6 | 1.05 | 28.7 | 81.9 |
| PhytoGen PHY 480WR | 4.7 | 1.10 | 29.6 | 83.2 |
| Stoneville ST5242BR | 4.3 | 1.04 | 26.2 | 82.2 |

TABLE 33.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Deltapine DP 445BG/RR | 4.1 | 1.08 | 27.7 | 80.6 |
| Deltapine DP 454BG/RR | 3.8 | 1.04 | 26.1 | 79.8 |
| Deltapine DP 455BG/RR | 3.6 | 1.07 | 27.4 | 79.6 |
| Deltapine DP 493 | 5.0 | 1.02 | 25.6 | 80.1 |
| Deltapine DP 515BG/RR | 4.4 | 1.03 | 25.0 | 79.6 |
| Deltapine DP 555 BG/RR | 4.5 | 1.03 | 25.6 | 78.7 |
| Fiber Max FM 835LLB2 | 3.3 | 1.15 | 30.0 | 82.8 |
| Fiber Max FM 960BR | 3.8 | 1.06 | 27.0 | 80.1 |
| Stoneville ST 5599BR | 4.4 | 1.05 | 27.1 | 80.4 |

TABLE 34. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES AT BELLE MINA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Americot AM 1504 B2RF | 3.1 | 1.14 | 27.4 | 82.6 |
| CG 3020 B2RF | 3.5 | 1.12 | 26.7 | 83.3 |
| CG 4020 B2RF | 3.5 | 1.18 | 27.2 | 82.6 |
| CT 210 | 3.6 | 1.10 | 30.4 | 82.0 |
| Deltapine DP 444BG/RR | 3.2 | 1.11 | 27.0 | 82.6 |
| Deltapine DP 445BG/RR | 3.6 | 1.10 | 29.2 | 82.3 |
| Deltapine DP 454BG/RR | 3.0 | 1.08 | 26.4 | 82.3 |
| Deltapine DP 515BG/RR | 3.7 | 1.06 | 27.5 | 81.4 |
| Deltapine DP 555 BG/RR | 3.3 | 1.09 | 27.0 | 79.9 |
| DP 117 B2RF | 3.6 | 1.17 | 31.0 | 83.6 |
| DP 143 B2RF | 3.0 | 1.19 | 28.5 | 81.3 |
| Dyna Gro 2520 B2RF | 3.5 | 1.19 | 26.6 | 82.1 |
| Fiber Max FM 1600LL | 3.3 | 1.15 | 29.9 | 82.9 |
| Fiber Max FM 1735LLB2 | 3.1 | 1.10 | 29.5 | 81.9 |
| Fiber Max FM 835LLB2 | 3.2 | 1.14 | 29.2 | 82.5 |
| Fiber Max FM 9063 B2F | 2.9 | 1.20 | 30.5 | 82.0 |
| Fiber Max FM 960B2R | 3.0 | 1.16 | 29.7 | 81.8 |
| Fiber Max FM 960BR | 2.8 | 1.13 | 30.1 | 82.1 |
| PHY 485 WRF | 3.7 | 1.11 | 28.3 | 82.7 |
| PhytoGen PHY 310R | 3.6 | 1.07 | 29.2 | 82.3 |
| PhytoGen PHY 370WR | 3.5 | 1.09 | 28.9 | 82.1 |
| ST 4427B2RF | 3.6 | 1.13 | 27.8 | 82.4 |
| ST 4554B2RF | 3.7 | 1.16 | 30.2 | 83.1 |
| Stoneville ST 5599BR | 3.8 | 1.12 | 29.0 | 82.5 |
| Stoneville ST5242BR | 3.7 | 1.06 | 26.5 | 82.1 |

TABLE 35. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| CT 210 | 4.7 | 1.15 | 32.0 | 82.5 |
| CT Linwood | 5.1 | 1.11 | 33.5 | 83.8 |
| Deltapine DP 393 | 4.9 | 1.16 | 30.5 | 84.5 |
| Deltapine DP 432 RR | 4.5 | 1.10 | 28.7 | 83.0 |
| Deltapine DP 434 RR | 4.6 | 1.17 | 29.6 | 83.5 |
| Deltapine DP 444BG/RR | 4.5 | 1.09 | 28.5 | 82.9 |
| Deltapine DP 445BG/RR | 4.5 | 1.13 | 29.0 | 83.8 |
| Deltapine DP 454BG/RR | 4.5 | 1.08 | 28.4 | 83.2 |
| Deltapine DP 455BG/RR | 4.2 | 1.11 | 30.8 | 82.0 |
| Deltapine DP 493 | 5.0 | 1.12 | 32.5 | 82.2 |
| Deltapine DP 515BG/RR | 4.9 | 1.09 | 29.6 | 81.5 |
| Deltapine DP 555 BG/RR | 4.8 | 1.13 | 31.5 | 82.1 |
| Fiber Max FM 1600LL | 4.6 | 1.14 | 32.7 | 82.3 |
| Fiber Max FM 1735LLB2 | 4.6 | 1.13 | 31.1 | 82.5 |
| Fiber Max FM 835LLB2 | 4.1 | 1.17 | 32.4 | 83.1 |
| Fiber Max FM 955LLB2 | 4.4 | 1.18 | 30.6 | 82.7 |
| Fiber Max FM 960B2R | 5.0 | 1.15 | 33.5 | 83.1 |
| Fiber Max FM 960BR | 4.2 | 1.17 | 33.3 | 83.4 |
| PhytoGen PHY 310R | 4.6 | 1.14 | 30.3 | 82.8 |
| PhytoGen PHY 370WR | 5.3 | 1.08 | 29.9 | 83.2 |
| PhytoGen PHY 480WR | 4.9 | 1.14 | 30.4 | 83.5 |
| Stoneville ST 5599BR | 4.7 | 1.12 | 32.1 | 83.0 |
| Stoneville ST5242BR | 4.5 | 1.13 | 28.2 | 83.5 |

TABLE 36.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|-------------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| Americot AM 1504 B2RF | 2.9 | 1.06 | 24.2 | 80.8 |
| Americot AM 1532 B2RF | 2.8 | 1.11 | 22.8 | 79.9 |
| Americot AM 1622 B2RF | 2.7 | 1.14 | 24.9 | 81.0 |
| CG 3020 B2RF | 2.7 | 1.07 | 22.6 | 80.3 |
| CG 3520 B2RF | 3.1 | 1.09 | 23.1 | 81.3 |
| CG 4020 B2RF | 2.4 | 1.09 | 22.6 | 78.9 |
| Croplan Genetics CG 3035 RF | 2.9 | 1.07 | 23.6 | 79.6 |
| Croplan Genetics CG 3220 B2RF | 2.7 | 1.08 | 23.4 | 79.8 |
| Deltapine DP 141 B2RF | 2.7 | 1.12 | 25.0 | 79.3 |
| Deltapine DP 161 B2RF | 2.7 | 1.11 | 23.4 | 80.0 |
| Deltapine DP 174 RF | 2.7 | 1.08 | 22.1 | 79.3 |
| Deltapine DP 444BG/RR | 2.7 | 1.06 | 23.6 | 80.6 |
| Deltapine DP 555 BG/RR | 2.7 | 0.99 | 22.0 | 77.5 |
| DP 117 B2RF | 2.8 | 1.11 | 24.7 | 80.1 |
| DP 121 RF | 3.1 | 1.09 | 25.4 | 81.5 |
| DP 143 B2RF | 2.7 | 1.11 | 23.8 | 78.7 |
| DP 147 RF | 2.9 | 1.11 | 25.1 | 79.6 |
| Dyna Gro 2490 B2RF | 2.6 | 1.06 | 23.0 | 80.3 |
| Dyna Gro 2520 B2RF | 2.6 | 1.10 | 23.0 | 80.4 |
| Dyna Gro CT 07550 | 2.6 | 1.07 | 23.9 | 79.5 |
| Fiber Max FM 1740B2F | 2.6 | 1.07 | 24.8 | 79.7 |
| Fiber Max FM 9060 F | 2.7 | 1.13 | 24.8 | 80.5 |
| Fiber Max FM 9063 B2F | 2.6 | 1.14 | 26.2 | 80.9 |
| Fiber Max FM 9068 F | 2.8 | 1.07 | 26.1 | 80.7 |
| Fiber Max FM 960BR | 2.4 | 1.02 | 22.0 | 77.6 |
| Fiber Max FMX 4330B2F | 2.5 | 1.11 | 24.7 | 80.7 |
| PHY 315 RF | 2.7 | 1.11 | 23.3 | 80.3 |
| PHY 375 WRF | 2.9 | 1.09 | 23.7 | 80.6 |
| PHY 425 RF | 3.4 | 1.07 | 25.3 | 80.5 |
| PHY 485 WRF | 3.1 | 1.01 | 25.1 | 81.9 |

continued

TABLE 36.A. CONTINUED.

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| PhytoGen PHX 3701 | 2.8 | 1.05 | 22.5 | 78.6 |
| PhytoGen PHX 3702 | 2.6 | 1.04 | 21.8 | 79.3 |
| PhytoGen PHX 3703 | 2.8 | 1.05 | 23.6 | 79.1 |
| PhytoGen PHX 3709 | 3.0 | 1.02 | 23.6 | 79.6 |
| PhytoGen PHX 4727 | 3.1 | 1.01 | 25.5 | 80.5 |
| PhytoGen PHX 4762 | 2.9 | 1.06 | 25.5 | 80.1 |
| ST 4357B2RF | 2.6 | 1.06 | 22.4 | 78.8 |
| ST 4427B2RF | 2.8 | 1.07 | 23.3 | 79.9 |
| ST 4554B2RF | 2.8 | 1.03 | 24.4 | 79.1 |
| ST 4664RF | 3.1 | 1.02 | 24.6 | 79.7 |
| ST 5283RF | 3.0 | 1.06 | 25.1 | 80.7 |
| ST 5327B2RF | 2.7 | 1.07 | 23.6 | 79.7 |
| Stoneville ST 5599BR | 2.8 | 1.04 | 23.5 | 79.3 |
| Stoneville STX 4498 B2RF | 2.9 | 1.04 | 25.0 | 80.0 |
| Stoneville STX 4596 B2RF | 2.9 | 1.10 | 25.4 | 79.6 |
| Stoneville STX 4678 B2RF | 3.1 | 1.08 | 25.4 | 80.6 |

TABLE 36.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Americot AM 1550 B2RF | 2.7 | 1.05 | 23.7 | 78.7 |
| Deltapine DP 141 B2RF | 2.8 | 1.07 | 23.9 | 77.5 |
| Deltapine DP 161 B2RF | 3.0 | 1.01 | 24.6 | 79.3 |
| Deltapine DP 174 RF | 2.7 | 1.04 | 22.1 | 78.2 |
| Deltapine DP 444BG/RR | 2.9 | 1.06 | 24.0 | 79.9 |
| Deltapine DP 555 BG/RR | 2.7 | 1.02 | 21.6 | 78.4 |
| DP 143 B2RF | 2.6 | 1.07 | 22.1 | 77.5 |
| DP 147 RF | 2.6 | 1.11 | 23.3 | 79.5 |
| DP 164 B2RF | 3.0 | 1.10 | 25.5 | 80.1 |
| DP 167 RF | 2.6 | 1.11 | 23.1 | 78.9 |
| Fiber Max FM 1840B2F | 2.6 | 0.96 | 24.5 | 79.1 |
| Fiber Max FM 1880 B2F | 2.4 | 1.08 | 24.3 | 78.5 |
| Fiber Max FM 960BR | 2.4 | 1.07 | 25.7 | 79.5 |
| Fiber Max FMX 4327B2F | 2.7 | 1.11 | 23.1 | 79.8 |
| PHY 745 WRF | 3.0 | 1.11 | 27.6 | 81.1 |
| ST 6611B2RF | 2.9 | 1.08 | 24.9 | 80.8 |
| Stoneville ST 5599BR | 2.8 | 1.02 | 22.6 | 77.4 |
| Stoneville STX 5458 B2RF | 2.7 | 1.05 | 23.1 | 78.1 |
| Stoneville STX 6351 B2RF | 2.9 | 1.01 | 24.4 | 80.1 |

TABLE 37.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|-------------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| Americot AM 1504 B2RF | 4.5 | 1.08 | 28.4 | 81.2 |
| Americot AM 1532 B2RF | 4.7 | 1.13 | 28.9 | 81.4 |
| Americot AM 1622 B2RF | 4.8 | 1.04 | 27.7 | 79.1 |
| CG 3020 B2RF | 4.4 | 1.00 | 26.8 | 80.8 |
| CG 3520 B2RF | 4.4 | 1.08 | 27.9 | 80.4 |
| CG 4020 B2RF | 5.0 | 1.12 | 29.8 | 81.2 |
| Croplan Genetics CG 3035 RF | 5.4 | 1.05 | 30.3 | 82.6 |
| Croplan Genetics CG 3220 B2RF | 4.9 | 1.00 | 26.8 | 79.9 |
| Deltapine DP 141 B2RF | 4.8 | 1.15 | 30.5 | 81.5 |
| Deltapine DP 161 B2RF | 5.5 | 1.13 | 31.3 | 81.2 |
| Deltapine DP 174 RF | 5.4 | 1.07 | 29.8 | 80.4 |
| Deltapine DP 444BG/RR | 4.8 | 1.00 | 28.4 | 80.9 |
| Deltapine DP 555 BG/RR | 5.5 | 1.03 | 29.6 | 80.8 |
| DP 117 B2RF | 5.2 | 0.94 | 27.5 | 79.9 |
| DP 121 RF | 5.4 | 1.03 | 29.0 | 80.8 |
| DP 143 B2RF | 5.1 | 1.01 | 27.9 | 80.3 |
| DP 147 RF | 4.7 | 1.14 | 31.3 | 81.0 |
| Dyna Gro 2490 B2RF | 5.0 | 1.02 | 27.1 | 79.5 |
| Dyna Gro 2520 B2RF | 4.9 | 1.15 | 30.1 | 80.9 |
| Dyna Gro CT 07550 | 5.1 | 1.04 | 30.6 | 80.5 |
| Fiber Max FM 1740B2F | 5.1 | 1.04 | 31.2 | 81.2 |
| Fiber Max FM 9060 F | 4.4 | 1.13 | 31.4 | 81.0 |
| Fiber Max FM 9063 B2F | 4.8 | 1.15 | 32.6 | 80.5 |
| Fiber Max FM 9068 F | 4.6 | 0.96 | 28.1 | 78.8 |
| Fiber Max FM 960BR | 5.1 | 1.06 | 30.9 | 80.6 |
| Fiber Max FMX 4330B2F | 4.8 | 1.06 | 30.7 | 80.9 |
| PHY 315 RF | 4.8 | 1.03 | 28.1 | 80.0 |
| PHY 375 WRF | 4.9 | 0.95 | 26.9 | 79.6 |
| PHY 425 RF | 5.4 | 1.01 | 29.3 | 80.7 |
| PHY 485 WRF | 5.4 | 1.04 | 31.3 | 80.7 |

continued

TABLE 37.A. CONTINUED

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| PhytoGen PHX 3701 | 5.0 | 1.00 | 29.1 | 78.9 |
| PhytoGen PHX 3702 | 4.8 | 0.95 | 25.6 | 78.7 |
| PhytoGen PHX 3703 | 4.9 | 0.95 | 26.7 | 78.2 |
| PhytoGen PHX 3709 | 5.0 | 1.02 | 29.1 | 80.1 |
| PhytoGen PHX 4727 | 4.8 | 1.00 | 29.2 | 80.2 |
| PhytoGen PHX 4762 | 5.0 | 1.06 | 29.8 | 81.8 |
| ST 4357B2RF | 4.5 | 1.02 | 143.7 | 78.8 |
| ST 4427B2RF | 5.1 | 0.96 | 26.9 | 79.2 |
| ST 4554B2RF | 5.2 | 1.03 | 32.2 | 79.3 |
| ST 4664RF | 5.1 | 1.04 | 32.6 | 80.6 |
| ST 5283RF | 5.3 | 1.08 | 33.3 | 81.9 |
| ST 5327B2RF | 5.2 | 1.06 | 31.7 | 80.1 |
| Stoneville ST 5599BR | 5.5 | 1.03 | 28.5 | 79.0 |
| Stoneville STX 4498 B2RF | 5.1 | 1.07 | 34.1 | 82.2 |
| Stoneville STX 4596 B2RF | 5.2 | 1.09 | 30.7 | 79.2 |
| Stoneville STX 4678 B2RF | 5.3 | 1.09 | 30.5 | 82.2 |

TABLE 37.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Americot AM 1550 B2RF | 5.2 | 1.06 | 26.6 | 80.0 |
| Deltapine DP 141 B2RF | 5.0 | 1.21 | 32.6 | 82.5 |
| Deltapine DP 161 B2RF | 5.3 | 1.17 | 32.3 | 82.8 |
| Deltapine DP 174 RF | 5.3 | 1.09 | 29.4 | 80.3 |
| Deltapine DP 444BG/RR | 5.3 | 1.01 | 28.0 | 80.5 |
| Deltapine DP 555 BG/RR | 5.6 | 1.06 | 29.5 | 80.8 |
| DP 143 B2RF | 4.9 | 1.10 | 28.7 | 80.0 |
| DP 147 RF | 5.2 | 1.07 | 28.4 | 80.4 |
| DP 164 B2RF | 5.3 | 1.07 | 28.0 | 81.2 |
| DP 167 RF | 5.2 | 1.09 | 29.5 | 80.3 |
| Fiber Max FM 1840B2F | 5.3 | 1.07 | 32.6 | 79.3 |
| Fiber Max FM 1880 B2F | 5.2 | 1.12 | 31.5 | 80.3 |
| Fiber Max FM 960BR | 5.3 | 1.13 | 33.7 | 80.4 |
| Fiber Max FMX 4327B2F | 5.1 | 1.15 | 33.5 | 82.1 |
| PHY 745 WRF | 4.6 | 1.02 | 32.3 | 81.7 |
| ST 6611B2RF | 5.4 | 1.01 | 31.5 | 81.4 |
| Stoneville ST 5599BR | 5.9 | 0.95 | 27.2 | 79.5 |
| Stoneville STX 5458 B2RF | 5.6 | 1.04 | 30.6 | 79.2 |
| Stoneville STX 6351 B2RF | 5.5 | 1.09 | 30.3 | 81.0 |

TABLE 38.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|-------------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| Americot AM 1504 B2RF | 4.5 | 1.12 | 29.5 | 84.3 |
| Americot AM 1532 B2RF | 4.5 | 1.17 | 31.0 | 84.4 |
| Americot AM 1622 B2RF | 4.3 | 1.13 | 29.4 | 82.1 |
| CG 3020 B2RF | 3.9 | 1.09 | 28.2 | 83.0 |
| CG 3520 B2RF | 4.8 | 1.17 | 29.5 | 85.5 |
| CG 4020 B2RF | 4.5 | 1.14 | 29.9 | 82.8 |
| Croplan Genetics CG 3035 RF | 5.0 | 1.13 | 32.4 | 84.1 |
| Croplan Genetics CG 3220 B2RF | 5.3 | 1.15 | 29.4 | 84.2 |
| Deltapine DP 141 B2RF | 4.4 | 1.18 | 31.3 | 83.2 |
| Deltapine DP 161 B2RF | 4.8 | 1.15 | 32.4 | 83.2 |
| Deltapine DP 174 RF | 5.1 | 1.16 | 29.7 | 83.6 |
| Deltapine DP 444BG/RR | 4.3 | 1.10 | 29.4 | 83.4 |
| Deltapine DP 555 BG/RR | 4.8 | 1.01 | 29.4 | 81.3 |
| DP 117 B2RF | 4.6 | 1.16 | 33.3 | 84.3 |
| DP 121 RF | 5.0 | 1.01 | 30.7 | 84.2 |
| DP 143 B2RF | 4.3 | 1.18 | 31.4 | 83.0 |
| DP 147 RF | 4.4 | 1.22 | 31.7 | 83.0 |
| Dyna Gro 2490 B2RF | 4.2 | 1.12 | 29.1 | 83.2 |
| Dyna Gro 2520 B2RF | 4.8 | 1.16 | 31.6 | 84.6 |
| Dyna Gro CT 07550 | 4.7 | 1.15 | 30.6 | 82.9 |
| Fiber Max FM 1740B2F | 4.0 | 1.12 | 30.8 | 82.7 |
| Fiber Max FM 9060 F | 4.2 | 1.18 | 32.0 | 82.9 |
| Fiber Max FM 9063 B2F | 4.3 | 1.18 | 33.5 | 83.3 |
| Fiber Max FM 9068 F | 4.2 | 1.15 | 32.1 | 82.6 |
| Fiber Max FM 960BR | 4.6 | 1.01 | 32.7 | 83.1 |
| Fiber Max FMX 4330B2F | 4.9 | 1.12 | 31.5 | 84.0 |
| PHY 315 RF | 4.3 | 1.12 | 29.9 | 83.7 |
| PHY 375 WRF | 4.4 | 1.11 | 29.6 | 83.3 |
| PHY 425 RF | 4.8 | 1.13 | 31.4 | 85.0 |
| PHY 485 WRF | 5.1 | 1.07 | 31.1 | 83.3 |

continued

TABLE 38.A. CONTINUED

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| PhytoGen PHX 3701 | 4.7 | 1.09 | 30.4 | 82.1 |
| PhytoGen PHX 3702 | 4.8 | 1.12 | 30.4 | 84.0 |
| PhytoGen PHX 3703 | 4.6 | 1.10 | 30.5 | 83.1 |
| PhytoGen PHX 3709 | 4.9 | 1.10 | 30.1 | 83.5 |
| PhytoGen PHX 4727 | 5.1 | 1.13 | 32.8 | 84.2 |
| PhytoGen PHX 4762 | 4.9 | 1.12 | 30.3 | 82.3 |
| ST 4357B2RF | 4.4 | 1.19 | 30.5 | 83.9 |
| ST 4427B2RF | 4.9 | 1.15 | 31.7 | 84.3 |
| ST 4554B2RF | 5.0 | 1.09 | 29.0 | 82.3 |
| ST 4664RF | 5.0 | 1.13 | 30.7 | 83.9 |
| ST 5283RF | 4.7 | 1.14 | 32.3 | 84.5 |
| ST 5327B2RF | 4.5 | 1.16 | 31.4 | 83.2 |
| Stoneville ST 5599BR | 4.6 | 1.17 | 30.7 | 83.3 |
| Stoneville STX 4498 B2RF | 4.8 | 1.15 | 30.6 | 84.3 |
| Stoneville STX 4596 B2RF | 5.1 | 1.14 | 30.3 | 83.7 |
| Stoneville STX 4678 B2RF | 5.0 | 1.13 | 32.1 | 84.0 |

TABLE 38.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Americot AM 1550 B2RF | 5.0 | 1.05 | 25.5 | 81.8 |
| Deltapine DP 141 B2RF | 4.6 | 1.19 | 31.4 | 82.5 |
| Deltapine DP 161 B2RF | 4.9 | 1.20 | 32.6 | 84.2 |
| Deltapine DP 174 RF | 4.7 | 1.12 | 28.3 | 83.2 |
| Deltapine DP 444BG/RR | 4.5 | 1.07 | 28.0 | 82.8 |
| Deltapine DP 555 BG/RR | 4.9 | 1.01 | 30.3 | 82.1 |
| DP 143 B2RF | 4.4 | 1.16 | 28.9 | 81.1 |
| DP 147 RF | 4.6 | 1.16 | 30.2 | 81.7 |
| DP 164 B2RF | 5.2 | 1.16 | 32.5 | 84.3 |
| DP 167 RF | 4.6 | 1.13 | 31.3 | 82.3 |
| Fiber Max FM 1840B2F | 5.0 | 1.08 | 31.5 | 82.6 |
| Fiber Max FM 1880 B2F | 4.3 | 1.12 | 30.1 | 81.8 |
| Fiber Max FM 960BR | 4.0 | 1.11 | 31.9 | 82.5 |
| Fiber Max FMX 4327B2F | 4.8 | 1.17 | 33.1 | 83.4 |
| PHY 745 WRF | 4.7 | 1.07 | 33.2 | 82.9 |
| ST 6611B2RF | 4.7 | 1.01 | 30.2 | 82.2 |
| Stoneville ST 5599BR | 4.9 | 1.08 | 28.2 | 82.5 |
| Stoneville STX 5458 B2RF | 5.4 | 1.11 | 28.3 | 83.2 |
| Stoneville STX 6351 B2RF | 4.8 | 1.13 | 28.6 | 82.6 |

TABLE 39.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|-------------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| Americot AM 1504 B2RF | 4.6 | 1.07 | 27.6 | 82.9 |
| Americot AM 1532 B2RF | 4.2 | 1.16 | 26.0 | 82.5 |
| Americot AM 1622 B2RF | 4.2 | 1.15 | 28.3 | 82.1 |
| CG 3020 B2RF | 3.9 | 1.08 | 25.6 | 81.6 |
| CG 3520 B2RF | 4.0 | 1.14 | 27.1 | 81.8 |
| CG 4020 B2RF | 4.0 | 1.11 | 27.4 | 81.0 |
| Croplan Genetics CG 3035 RF | 4.6 | 1.01 | 29.4 | 82.2 |
| Croplan Genetics CG 3220 B2RF | 4.5 | 1.07 | 27.3 | 80.4 |
| Deltapine DP 141 B2RF | 4.5 | 1.15 | 28.5 | 81.4 |
| Deltapine DP 161 B2RF | 4.8 | 1.12 | 29.4 | 81.5 |
| Deltapine DP 174 RF | 5.0 | 1.12 | 27.4 | 82.0 |
| Deltapine DP 444BG/RR | 3.7 | 1.08 | 26.0 | 80.8 |
| Deltapine DP 555 BG/RR | 5.3 | 1.06 | 29.1 | 81.0 |
| DP 117 B2RF | 4.2 | 1.10 | 28.4 | 81.2 |
| DP 121 RF | 5.2 | 1.12 | 29.7 | 82.6 |
| DP 143 B2RF | 4.7 | 1.14 | 29.9 | 82.1 |
| DP 147 RF | 4.1 | 1.06 | 28.0 | 79.9 |
| Dyna Gro 2490 B2RF | 3.7 | 1.04 | 25.3 | 80.8 |
| Dyna Gro 2520 B2RF | 4.1 | 1.10 | 27.1 | 80.6 |
| Dyna Gro CT 07550 | 4.6 | 1.07 | 28.0 | 81.1 |
| Fiber Max FM 1740B2F | 4.2 | 1.10 | 28.5 | 81.5 |
| Fiber Max FM 9060 F | 4.1 | 1.15 | 28.7 | 80.4 |
| Fiber Max FM 9063 B2F | 3.8 | 1.01 | 29.0 | 80.0 |
| Fiber Max FM 9068 F | 4.5 | 1.12 | 31.7 | 82.5 |
| Fiber Max FM 960BR | 3.7 | 1.09 | 28.3 | 80.2 |
| Fiber Max FMX 4330B2F | 4.2 | 1.09 | 29.7 | 80.7 |
| PHY 315 RF | 4.5 | 1.11 | 28.5 | 82.2 |
| PHY 375 WRF | 4.4 | 1.08 | 26.0 | 81.6 |
| PHY 425 RF | 5.1 | 1.11 | 31.8 | 83.7 |
| PHY 485 WRF | 4.8 | 1.11 | 29.8 | 82.9 |

continued

TABLE 39.A. CONTINUED

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| PhytoGen PHX 3701 | 4.1 | 1.11 | 28.0 | 80.6 |
| PhytoGen PHX 3702 | 4.3 | 1.08 | 29.0 | 80.7 |
| PhytoGen PHX 3703 | 4.3 | 1.12 | 28.8 | 82.4 |
| PhytoGen PHX 3709 | 4.6 | 1.07 | 28.1 | 81.2 |
| PhytoGen PHX 4727 | 4.6 | 1.09 | 28.2 | 82.6 |
| PhytoGen PHX 4762 | 4.3 | 1.10 | 28.0 | 81.9 |
| ST 4357B2RF | 4.1 | 1.10 | 26.8 | 81.1 |
| ST 4427B2RF | 3.8 | 1.01 | 27.7 | 80.7 |
| ST 4554B2RF | 4.4 | 1.01 | 28.0 | 80.9 |
| ST 4664RF | 4.5 | 1.05 | 26.7 | 79.7 |
| ST 5283RF | 4.2 | 1.09 | 28.2 | 81.2 |
| ST 5327B2RF | 4.3 | 1.08 | 30.4 | 81.5 |
| Stoneville ST 5599BR | 5.0 | 1.08 | 29.8 | 82.3 |
| Stoneville STX 4498 B2RF | 4.1 | 1.12 | 29.4 | 82.8 |
| Stoneville STX 4596 B2RF | 4.6 | 1.12 | 29.3 | 82.1 |
| Stoneville STX 4678 B2RF | 4.5 | 1.11 | 31.5 | 82.3 |

TABLE 39.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2007

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Americot AM 1550 B2RF | 4.8 | 1.08 | 25.2 | 82.0 |
| Deltapine DP 141 B2RF | 4.8 | 1.01 | 30.0 | 81.1 |
| Deltapine DP 161 B2RF | 4.3 | 1.17 | 32.8 | 82.9 |
| Deltapine DP 174 RF | 4.8 | 1.11 | 28.5 | 80.5 |
| Deltapine DP 444BG/RR | 3.9 | 1.12 | 27.2 | 81.8 |
| Deltapine DP 555 BG/RR | 4.8 | 1.05 | 28.4 | 80.1 |
| DP 143 B2RF | 4.5 | 1.16 | 30.5 | 80.1 |
| DP 147 RF | 4.6 | 1.15 | 30.4 | 81.4 |
| DP 164 B2RF | 4.5 | 1.15 | 29.0 | 82.2 |
| DP 167 RF | 4.9 | 1.14 | 30.5 | 81.5 |
| Fiber Max FM 1840B2F | 4.4 | 0.97 | 29.4 | 80.6 |
| Fiber Max FM 1880 B2F | 3.9 | 1.11 | 28.1 | 79.5 |
| Fiber Max FM 960BR | 3.9 | 1.10 | 29.7 | 81.3 |
| Fiber Max FMX 4327B2F | 4.2 | 1.13 | 30.3 | 80.1 |
| PHY 745 WRF | 4.2 | 1.11 | 28.7 | 83.0 |
| ST 6611B2RF | 4.3 | 1.09 | 30.2 | 81.3 |
| Stoneville ST 5599BR | 4.3 | 1.09 | 30.7 | 81.5 |
| Stoneville STX 5458 B2RF | 4.6 | 1.11 | 29.7 | 80.1 |
| Stoneville STX 6351 B2RF | 3.9 | 1.12 | 26.9 | 80.7 |

TABLE 40. COTTON BOLL RATINGS OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, 2007. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 9.

| Variety | Healthy | Hardlock | Bollrot |
|------------------------|------------------|---------------|---------|
| | -count / m-row - | ----- % ----- | |
| CT 210 | 36 | 12 | 6 |
| CT Linwood | 39 | 12 | 5 |
| Deltapine DP 393 | 34 | 14 | 5 |
| Deltapine DP 432 RR | 35 | 26 | 8 |
| Deltapine DP 434 RR | 36 | 7 | 3 |
| Deltapine DP 444BG/RR | 35 | 14 | 2 |
| Deltapine DP 445BG/RR | 34 | 17 | 8 |
| Deltapine DP 454BG/RR | 24 | 15 | 6 |
| Deltapine DP 455BG/RR | 32 | 14 | 8 |
| Deltapine DP 555 BG/RR | 33 | 14 | 8 |
| Fiber Max FM 1600LL | 32 | 15 | 7 |
| Fiber Max FM 1735LLB2 | 40 | 8 | 2 |
| Fiber Max FM 955LLB2 | 31 | 10 | 6 |
| Fiber Max FM 960B2R | 24 | 11 | 8 |
| Fiber Max FM 960BR | 32 | 12 | 7 |
| PhytoGen PHY 310R | 36 | 11 | 6 |
| PhytoGen PHY 370WR | 31 | 12 | 3 |
| PhytoGen PHY 480WR | 43 | 11 | 2 |
| Stoneville ST5242BR | 49 | 7 | 3 |
| Trial mean | 35 | 13 | 6 |
| LSD(0.10) | 8 | 6 | 3 |
| %CV | 23 | 48 | 58 |

TABLE 41. COTTON BOLL RATINGS OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, 2007. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 10.

| Variety | Healthy | Hardlock | Bollrot |
|------------------------|------------------|---------------|---------|
| | -count / m-row - | ----- % ----- | |
| Deltapine DP 445BG/RR | 32 | 16 | 4 |
| Deltapine DP 454BG/RR | 34 | 10 | 5 |
| Deltapine DP 455BG/RR | 34 | 17 | 4 |
| Deltapine DP 493 | 28 | 19 | 3 |
| Deltapine DP 515BG/RR | 32 | 15 | 2 |
| Deltapine DP 555 BG/RR | 33 | 18 | 3 |
| Fiber Max FM 835LLB2 | 27 | 15 | 4 |
| Fiber Max FM 960BR | 31 | 11 | 4 |
| Stoneville ST 5599BR | 31 | 11 | 5 |
| Trial mean | 31 | 15 | 4 |
| LSD(0.10) | 10 | 5 | 3 |
| %CV | 28 | 32 | 70 |

TABLE 42. COTTON BOLL RATINGS OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2007. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 19.

| Variety | Healthy | Hardlock | Bollrot |
|-------------------------------|------------------|---------------|---------|
| | -count / m-row - | ----- % ----- | |
| Americot AM 1504 B2RF | 44 | 13 | 4 |
| Americot AM 1532 B2RF | 42 | 18 | 10 |
| Americot AM 1622 B2RF | 28 | 10 | 5 |
| CG 3020 B2RF | 32 | 12 | 7 |
| CG 3520 B2RF | 41 | 8 | 6 |
| CG 4020 B2RF | 35 | 15 | 6 |
| Croplan Genetics CG 3035 B2RF | 35 | 12 | 5 |
| Croplan Genetics CG 3220 B2RF | 26 | 15 | 5 |
| DP 117 B2RF | 29 | 16 | 7 |
| DP 121 RF | 45 | 8 | 7 |
| DP 143 B2RF | 26 | 14 | 7 |
| DP 147 RF | 24 | 21 | 6 |
| Deltapine DP 141 B2RF | 34 | 7 | 5 |
| Deltapine DP 161 B2RF | 34 | 10 | 3 |
| Deltapine DP 174 RF | 32 | 10 | 3 |
| Deltapine DP 444BG/RR | 36 | 8 | 4 |
| Deltapine DP 555 BG/RR | 36 | 9 | 6 |
| Dyna Gro 2490 B2RF | 25 | 9 | 10 |
| Dyna Gro 2520 B2RF | 32 | 9 | 4 |
| Dyna Gro CT 07550 | 43 | 11 | 6 |
| Fiber Max FM 1740B2F | 20 | 8 | 4 |
| Fiber Max FM 9060 F | 22 | 15 | 10 |
| Fiber Max FM 9063 B2F | 27 | 7 | 6 |
| Fiber Max FM 9068 F | 27 | 8 | 7 |
| Fiber Max FM 960BR | 32 | 9 | 5 |
| Fiber Max FMX 4330B2F | 25 | 17 | 3 |

continued

TABLE 42. CONTINUED. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 19.

| Variety | Healthy | Hardlock | Bollrot |
|--------------------------|------------------|---------------|---------|
| | -count / m-row - | ----- % ----- | |
| PHY 315 RF | 34 | 8 | 4 |
| PHY 375 WRF | 35 | 5 | 5 |
| PHY 425 RF | 32 | 8 | 3 |
| PHY 485 WRF | 45 | 13 | 2 |
| PhytoGen PHX 3701 | 46 | 8 | 8 |
| PhytoGen PHX 3702 | 33 | 15 | 7 |
| PhytoGen PHX 3703 | 34 | 11 | 4 |
| PhytoGen PHX 3709 | 30 | 12 | 5 |
| PhytoGen PHX 4727 | 35 | 14 | 6 |
| PhytoGen PHX 4762 | 33 | 8 | 8 |
| ST 4357B2RF | 33 | 13 | 5 |
| ST 4427B2RF | 36 | 17 | 6 |
| ST 4554B2RF | 28 | 9 | 7 |
| ST 4664RF | 31 | 9 | 10 |
| ST 5283RF | 32 | 10 | 5 |
| ST 5327B2RF | 42 | 17 | 14 |
| Stoneville ST 5599BR | 28 | 12 | 3 |
| Stoneville STX 4498 B2RF | 40 | 7 | 3 |
| Stoneville STX 4596 B2RF | 30 | 7 | 4 |
| Stoneville STX 4678 B2RF | 30 | 9 | 3 |
| Trial mean | 33 | 11 | 6 |
| LSD(0.10) | 9 | 6 | 4 |
| %CV | 25 | 48 | 60 |

TABLE 43. COTTON BOLL RATINGS OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2007. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 20.

| Variety | Healthy | Hardlock | Bollrot |
|--------------------------|------------------|---------------|---------|
| | -count / m-row - | ----- % ----- | |
| Americot AM 1550 B2RF | 36 | 20 | 4 |
| DP 143 B2RF | 23 | 14 | 8 |
| DP 147 RF | 31 | 16 | 8 |
| DP 164 B2RF | 35 | 17 | 5 |
| DP 167 RF | 32 | 14 | 8 |
| Deltapine DP 141 B2RF | 26 | 20 | 6 |
| Deltapine DP 161 B2RF | 32 | 20 | 3 |
| Deltapine DP 174 RF | 30 | 12 | 2 |
| Deltapine DP 444BG/RR | 35 | 8 | 4 |
| Deltapine DP 555 BG/RR | 37 | 17 | 5 |
| Fiber Max FM 1840B2F | 29 | 9 | 7 |
| Fiber Max FM 1880 B2F | 28 | 14 | 8 |
| Fiber Max FM 960BR | 27 | 16 | 5 |
| Fiber Max FMX 4327B2F | 17 | 19 | 4 |
| PHY 745 WRF | 18 | 14 | 9 |
| ST 6611B2RF | 27 | 18 | 8 |
| Stoneville ST 5599BR | 34 | 14 | 5 |
| Stoneville STX 5458 B2RF | 24 | 14 | 7 |
| Stoneville STX 6351 B2RF | 27 | 16 | 9 |
| Trial mean | 29 | 15 | 6 |
| LSD(0.10) | 9 | 5 | 3 |
| %CV | 29 | 31 | 53 |

TABLE 44. GROWING SEASON RAINFALL, 2005-2007

| Test location | Year | Monthly rainfall (inches) | | | | | | | 7-month total |
|---------------|------|---------------------------|------|-----|------|------|------|-------|---------------|
| | | Mar. | Apr. | May | June | July | Aug. | Sept. | |
| Belle Mina | 2007 | 1.1 | 4.6 | 1.0 | 1.2 | 3.7 | 1.1 | 1.2 | 13.9 |
| | 2006 | 2.0 | 4.9 | 4.2 | 1.8 | 2.4 | 2.5 | 3.1 | 20.9 |
| | 2005 | 3.6 | 5.4 | 1.4 | 3.7 | 6.6 | 3.5 | 3.4 | 27.6 |
| Shorter | 2007 | 3.4 | 2.0 | 0.3 | 0.8 | 7.0 | 2.0 | 2.3 | 17.8 |
| | 2006 | 3.7 | 1.9 | 3.6 | 1.2 | 2.3 | 4.9 | 3.1 | 20.7 |
| | 2005 | 11.1 | 7.8 | 2.2 | 3.1 | 10.1 | 3.2 | 2.0 | 39.5 |
| Prattville | 2007 | 1.0 | 2.5 | 0.6 | 1.6 | 2.8 | 2.9 | 1.9 | 13.3 |
| | 2006 | 5.3 | 2.2 | 3.1 | 0.8 | 3.4 | 2.5 | 3.2 | 20.5 |
| | 2005 | 8.5 | 6.8 | 3.4 | 4.0 | 9.2 | 3.9 | 3.2 | 39.0 |
| Headland | 2007 | 1.3 | 7.3 | 0.1 | 1.4 | 5.2 | 3.7 | 4.2 | 23.2 |
| | 2006 | 0.7 | 1.9 | 4.1 | 2.6 | 2.7 | 3.5 | 4.5 | 20.0 |
| | 2005 | 5.5 | 9.2 | 3.1 | 11.1 | 5.3 | 7.9 | 1.7 | 43.8 |
| Fairhope | 2007 | 0.5 | 3.4 | 1.9 | 6.4 | 7.1 | 6.0 | 6.6 | 31.9 |
| | 2006 | 0.4 | 6.1 | 3.2 | 1.3 | 5.4 | 7.1 | 5.3 | 28.8 |
| | 2005 | 4.3 | 20.5 | 7.1 | 10.4 | 11.4 | 11.4 | 4.7 | 69.8 |

TABLE 45. SOIL TYPES FOR 2007 COTTON TRIALS

| Test location | Soil type |
|---|--------------------------|
| Belle Mina | Decatur silt loam |
| E.V. Smith Research Center Field Crops Unit, Shorter | Compass sandy loam |
| Prattville | Lucedale fine sandy loam |
| Headland | Dothan sandy loam |
| Fairhope | Malbis fine sandy loam |

TABLE 46. SOURCES OF SEED FOR THE 2007 COTTON VARIETY TRIALS**Delta and Pine Land Co., Scott, Mississippi**

| | |
|---------------------|-----------------------|
| Deltapine DP 393 | Deltapine DP 117 B2RF |
| Deltapine DP 493 | Deltapine DP 141 B2RF |
| Deltapine DP 432RR | Deltapine DP 143 B2RF |
| Deltapine DP 434RR | Deltapine DP 161 B2RF |
| Deltapine DP 444BRR | Deltapine DP 164 B2RF |
| Deltapine DP 445BRR | Deltapine DP 121 RF |
| Deltapine DP 454BRR | Deltapine DP 147 RF |
| Deltapine DP 455BRR | Deltapine DP 167 RF |
| Deltapine DP 515BRR | Deltapine DP 174 RF |
| Deltapine DP 555BRR | |

Bayer Crop Sciences, Lubbock, Texas

| | |
|----------------------|----------------------|
| FiberMax FM 960BR | FiberMax FM 1880B2F |
| FiberMax FM 960B2R | FiberMax FMX 1840B2F |
| FiberMax FM 1600LL | FiberMax FMX 4327B2F |
| FiberMax FM 835LLB2 | FiberMax FMX 4330B2F |
| FiberMax FM 955LLB2 | FiberMax FM 9060F |
| FiberMax FM 1735LLB2 | FiberMax FM 9068F |
| FiberMax FM 1740B2F | |
| FiberMax FM 9063B2F | |

PhytoGen Seed Company, Collierville, Tennessee

| | |
|-----------------------|-----------------------|
| PhytoGen PHY 310 RR | PhytoGen PHY 425 RF |
| PhytoGen PHY 370 WR | PhytoGen PHY 375 WRF |
| PhytoGen PHY 480 WR | PhytoGen PHY 485 WRF |
| PhytoGen PHY 315 RF | PhytoGen PHY 745 WRF |
| PhytoGen PHX 3701 WSF | PhytoGen PHX 3709 WSF |
| PhytoGen PHX 3702 WSF | PhytoGen PHX 4727 WSF |
| PhytoGen PHX 3703 WSF | PhytoGen PHX 4762 WSF |

TABLE 46. CONTINUED

Stoneville Pedigreed Seed Co., Stoneville, Mississippi

| | |
|------------------------|------------------------|
| Stoneville ST 5242BR | Stoneville ST 5327B2RF |
| Stoneville ST 5599BR | Stoneville ST 6611B2RF |
| Stoneville ST 4664RF | Stoneville STX4498B2RF |
| Stoneville ST 5283RF | Stoneville STX4596B2RF |
| Stoneville ST 4357B2RF | Stoneville STX4678B2RF |
| Stoneville ST 4427B2RF | Stoneville STX6351B2RF |
| Stoneville ST 4554B2RF | Stoneville STX5458B2RF |

Americot, Lubbock, Texas

| | |
|--------------|---------------|
| AM 1504 B2RF | AM 1622 B2RF |
| AM 1532 B2RF | XAM 1550 B2RF |

United Agri Products, Kinston, Alabama

DynaGro 2490 B2RF
 DynaGro 2520 B2RF
 DynaGro CT 07550

Croplan Genetics, Memphis, Tennessee

| | |
|-------------------------------|-------------------------------|
| Croplan Genetics CG 3020 B2RF | Croplan Genetics CG 4020 B2RF |
| Croplan Genetics CG 3220 B2RF | Croplan Genetics CG 3035 RF |
| Croplan Genetics CG 3520 B2RF | |

Seed -Tec Genetics, Bishop, Texas

CT Linwood
 CT-210
 STG 59-6-9
