

2004
Alabama
Cotton
Variety
Report

Agronomy and Soils Departmental Series No. 264
Alabama Agricultural Experiment Station
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January 2005

Printed in cooperation with the Alabama Cooperative Extension System
(Alabama A&M University and Auburn University)

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

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2004 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 Stoneville ST 4892BR 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. The trial at Fairhope is not reported due to unfavorable weather conditions at harvest.

Cotton varieties were evaluated in a producer's field on a sandy loam soil in south Alabama naturally infested with reniform nematode (*Rotylenchulus reniformis*), continuously cropped in cotton by Dr. Kathy McLean of the Dept. of Entomology and Plant Pathology at Auburn University. All varieties were evaluated with and without the use of a chemical nematicide to give an indication of possible tolerance to reniform nematodes. This trial was lost due to hurricane Ivan. All other trials, except Belle Mina, were also affected by the hurricane.

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, Talladega. Breeder lines and selected released varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2004, incidence of Fusarium wilt was moderate. The incidence ratings can be found in the 2004 National Fusarium Wilt Cotton Report, Departmental Series No. 262.

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._{.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.

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 Ellis Burgess, Tennessee Valley Research and Extension Center; Don Moore, Prattville Research Field; Bobby Durbin, E.V. Smith Research Center; Randy Akridge, Brewton Research Field & Robinsonville; 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, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|-------------------|-----------------|------------------------------|------|
| | yield lbs/acre | percentage % | 2-yr ----- lbs/acre ----- | 3-yr |
| Stoneville ST 4892BR | 1343 | 44 | 1248 | 1116 |
| Stoneville ST 4793R | 1266 | 42 | 1180 | 1070 |
| Sure-Grow 521R | 1287 | 42 | 1219 | 1065 |
| Sure-Grow 105 | 1345 | 41 | 1185 | 1064 |
| BCG 28R | 1279 | 42 | 1181 | 1051 |
| Paymaster PM 1218BG/RR | 1197 | 42 | 1165 | 1042 |
| Deltapine DP 451B/RR | 1116 | 38 | 1108 | 994 |
| Deltapine DP 436RR | 1140 | 39 | 1073 | 939 |
| AllTex Atlas | 675 | 39 | 645 | 638 |
| Deltapine DP 444BG/RR | 1386 | 44 | 1342 | . |
| Fiber Max FM 960BR | 1442 | 42 | 1229 | . |
| PhytoGen PHY 410RR | 1223 | 41 | 1136 | . |
| Deltapine DP 449 BG/RR | 1119 | 40 | 1094 | . |
| Stoneville ST4646B2R | 1114 | 39 | 1028 | . |
| Deltapine DP 432 RR | 1431 | 41 | . | . |
| Stoneville ST 4686R | 1407 | 42 | . | . |
| Deltapine DP 445 BG/BR | 1382 | 44 | . | . |
| Deltapine DP 393 | 1362 | 44 | . | . |
| Fiber Max FM 958LL | 1359 | 42 | . | . |
| Fiber Max FM 960RR | 1359 | 42 | . | . |
| Deltapine DP 555 BG/RR | 1306 | 44 | . | . |
| Stoneville ST5242BR | 1279 | 42 | . | . |
| Deltapine DP 434 RR | 1259 | 43 | . | . |
| Fiber Max FM 966LL | 1239 | 41 | . | . |
| Stoneville ST 4575BR | 1225 | 43 | . | . |
| Fiber Max FM 960B2R | 1219 | 40 | . | . |
| Deltapine DP 455 BG/BR | 1203 | 44 | . | . |
| Deltapine DP 424 BGII/RR | 1181 | 38 | . | . |
| Stoneville ST 3636B2R | 1108 | 39 | . | . |
| BCG 50R | 1105 | 38 | . | . |
| Trial mean | 1245 | 41 | 1131 | 998 |
| LSD(0.10) | 207 | 2 | 125 | 100 |
| %CV | 10 | 3 | 7 | 6 |

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr <i>lbs/acre</i> | 3-yr |
| Stoneville ST 5599BR | 1223 | 43 | 1123 | 1010 |
| Stoneville ST 4892BR | 1134 | 42 | 1058 | 973 |
| Deltapine DP 491 | 1202 | 44 | 1068 | 960 |
| Deltapine DP 5415 RR | 1238 | 42 | 1088 | 926 |
| Stoneville ST 5303R | 1150 | 43 | 1061 | 917 |
| Fiber Max FM 989 BR | 1030 | 41 | 987 | 894 |
| Deltapine DP 555 BG/RR | 1066 | 45 | 1039 | 893 |
| Fiber Max FM 989 RR | 1134 | 42 | 1029 | 885 |
| BCG 24R | 1109 | 41 | 1010 | 872 |
| Deltapine DP 5690RR | 1128 | 41 | 1022 | 866 |
| Deltapine DP 458BRR | 1087 | 41 | 995 | 850 |
| DP Delta Pearl | 1065 | 43 | 922 | 824 |
| Fiber Max 991R | 958 | 41 | 927 | 820 |
| Acala 1517-99 | 822 | 41 | 760 | 687 |
| Stoneville ST5242BR | 1038 | 43 | 1047 | . |
| Deltapine DP 493 | 1144 | 46 | 1037 | . |
| Deltapine DP 449 BG/RR | 1033 | 41 | 993 | . |
| Fiber Max FM 991BR | 1077 | 41 | 979 | . |
| Deltapine DP 488 BR | 1184 | 44 | . | . |
| Deltapine DP 494 RR | 1182 | 43 | . | . |
| Deltapine DP 445 BG/BR | 1180 | 45 | . | . |
| Stoneville ST 6636BR | 1164 | 40 | . | . |
| Stoneville ST 6848R | 1136 | 40 | . | . |
| Deltapine DP 455 BG/BR | 1104 | 43 | . | . |
| Deltapine DPLX02T57R | 1061 | 40 | . | . |
| Fiber Max FM 991B2R | 1014 | 38 | . | . |
| Deltapine DP 543 BGII/BR | 951 | 41 | . | . |
| Stoneville ST 5454B2R | 854 | 37 | . | . |
| Trial mean | 1088 | 42 | 1008 | 884 |
| LSD(0.10) | 207 | 2 | 132 | 106 |
| %CV | 11 | 2 | 8 | 7 |

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------------------|-----------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr ----- <i>lbs/acre</i> ----- | 3-yr † |
| Fiber Max FM 960RR | 722 | 40 | † | † |
| Fiber Max FM 960B2R | 709 | 41 | | |
| Fiber Max FM 960BR | 677 | 41 | | |
| Deltapine DP 555 BG/RR | 665 | 42 | | |
| Fiber Max FM 958LL | 647 | 41 | | |
| BCG 50R | 645 | 38 | | |
| Fiber Max FM 966LL | 612 | 39 | | |
| Deltapine DP 455 BG/BR | 609 | 42 | | |
| Deltapine DP 449 BG/RR | 601 | 37 | | |
| Deltapine DP 432 RR | 595 | 40 | | |
| Deltapine DP 424 BGII/RR | 594 | 37 | | |
| Deltapine DP 445 BG/BR | 570 | 39 | | |
| Sure-Grow 521R | 566 | 38 | | |
| Stoneville ST 4892BR | 566 | 41 | | |
| Deltapine DP 393 | 564 | 39 | | |
| Stoneville ST4646B2R | 543 | 39 | | |
| Stoneville ST 4686R | 542 | 41 | | |
| Deltapine DP 434 RR | 539 | 40 | | |
| Stoneville ST 4793R | 535 | 40 | | |
| Stoneville ST 3636B2R | 524 | 42 | | |
| Stoneville ST5242BR | 521 | 42 | | |
| Stoneville ST 4575BR | 518 | 39 | | |
| PhytoGen PHY 410RR | 509 | 38 | | |
| Deltapine DP 451B/RR | 507 | 37 | | |
| BCG 28R | 502 | 40 | | |
| Deltapine DP 436RR | 472 | 36 | | |
| Paymaster PM 1218BG/RR | 451 | 42 | | |
| Sure-Grow 105 | 442 | 39 | | |
| Deltapine DP 444BG/RR | 401 | 40 | | |
| Trial mean | 564 | 40 | | |
| LSD(0.10) | 115 | 3 | | |
| %CV | 12 | 5 | | |

† This test sustained 40-60% yield loss due to hurricane Ivan, therefore no 2- yr or 3-yr averages are given.

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------------------|-----------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr ----- <i>lbs/acre</i> ----- | 3-yr † |
| Stoneville ST 5599BR | 831 | 42 | † | † |
| Deltapine DP 491 | 784 | 43 | | |
| Deltapine DP 488 BR | 744 | 43 | | |
| Deltapine DP 449 BG/RR | 708 | 40 | | |
| Fiber Max FM 989 BR | 707 | 41 | | |
| Deltapine DP 455 BG/BR | 705 | 43 | | |
| Fiber Max 991R | 702 | 38 | | |
| Fiber Max FM 989 RR | 692 | 39 | | |
| Deltapine DP 494 RR | 676 | 41 | | |
| Fiber Max FM 991BR | 668 | 39 | | |
| Deltapine DP 5690RR | 663 | 38 | | |
| Deltapine DP 555 BG/RR | 662 | 43 | | |
| Deltapine DP 458BRR | 656 | 39 | | |
| Deltapine DP 543 BGII/BR | 649 | 41 | | |
| DP Delta Pearl | 645 | 41 | | |
| Deltapine DP 5415 RR | 632 | 38 | | |
| Stoneville ST 4892BR | 625 | 41 | | |
| Deltapine DPLX02T57R | 623 | 39 | | |
| Stoneville ST 5303R | 611 | 40 | | |
| Fiber Max FM 991B2R | 600 | 38 | | |
| Stoneville ST 6848R | 598 | 39 | | |
| Deltapine DP 493 | 596 | 43 | | |
| Deltapine DP 445 BG/BR | 593 | 40 | | |
| Stoneville ST5242BR | 588 | 43 | | |
| BCG 24R | 586 | 41 | | |
| Stoneville ST 6636BR | 503 | 37 | | |
| Stoneville ST 5454B2R | 494 | 38 | | |
| Trial mean | 650 | 40 | | |
| LSD(0.10) | 113 | 3 | | |
| %CV | 10 | 4 | | |

† This test sustained 40-60% yield loss due to hurricane Ivan, therefore no 2-yr or 3-yr averages are given.

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|-------------------|-----------------|------------------------------|-----------|
| | yield lbs/acre | percentage % | 2-yr ----- lbs/acre ----- | 3-yr † |
| Deltapine DP 432 RR | 1308 | 43 | † | † |
| Fiber Max FM 960RR | 1246 | 44 | | |
| Deltapine DP 455 BG/BR | 1189 | 45 | | |
| Fiber Max FM 960B2R | 1180 | 43 | | |
| Fiber Max FM 960BR | 1162 | 43 | | |
| Deltapine DP 555 BG/RR | 1161 | 45 | | |
| Deltapine DP 434 RR | 1126 | 46 | | |
| Deltapine DP 424 BGII/RR | 1123 | 41 | | |
| Deltapine DP 449 BG/RR | 1103 | 42 | | |
| Fiber Max FM 966LL | 1098 | 41 | | |
| Stoneville ST 4892BR | 1095 | 46 | | |
| Stoneville ST 4575BR | 1090 | 44 | | |
| Stoneville ST5242BR | 1084 | 45 | | |
| Stoneville ST4646B2R | 1081 | 43 | | |
| Stoneville ST 3636B2R | 1078 | 44 | | |
| Stoneville ST 4686R | 1068 | 44 | | |
| BCG 50R | 1068 | 39 | | |
| Deltapine DP 393 | 1064 | 43 | | |
| Fiber Max FM 958LL | 1041 | 43 | | |
| Deltapine DP 444BG/RR | 1028 | 44 | | |
| Sure-Grow 521R | 1015 | 43 | | |
| Sure-Grow 105 | 999 | 42 | | |
| PhytoGen PHY 410RR | 994 | 42 | | |
| Stoneville ST 4793R | 994 | 44 | | |
| Deltapine DP 445 BG/BR | 986 | 44 | | |
| Deltapine DP 451B/RR | 968 | 40 | | |
| Deltapine DP 436RR | 954 | 40 | | |
| Paymaster PM 1218BG/RR | 950 | 43 | | |
| BCG 28R | 913 | 44 | | |
| AllTex Atlas | 655 | 38 | | |
| Trial mean | 1061 | 43 | | |
| LSD(0.10) | 209 | 1 | | |
| %CV | 12 | 2 | | |

† This test sustained 20-30% yield loss due to hurricane Ivan, therefore no 2-yr or 3-yr averages are given.

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------|-------------------------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr <i>lbs/acre</i> | 3-yr <i>lbs/acre</i> |
| Deltapine DP 455 BG/BR | 1234 | 45 | † | † |
| Deltapine DP 488 BR | 1229 | 44 | | |
| Stoneville ST 5599BR | 1209 | 44 | | |
| Deltapine DP 493 | 1204 | 45 | | |
| Deltapine DP 491 | 1174 | 44 | | |
| Stoneville ST 4892BR | 1146 | 44 | | |
| Fiber Max FM 989 BR | 1145 | 42 | | |
| Deltapine DP 445 BG/BR | 1142 | 43 | | |
| Deltapine DP 494 RR | 1140 | 44 | | |
| Deltapine DP 555 BG/RR | 1136 | 45 | | |
| Deltapine DP 449 BG/RR | 1127 | 42 | | |
| DP Delta Pearl | 1081 | 43 | | |
| Deltapine DP 5690RR | 1076 | 40 | | |
| Deltapine DP 543 BGII/BR | 1071 | 42 | | |
| Fiber Max 991R | 1064 | 40 | | |
| Fiber Max FM 991B2R | 1048 | 41 | | |
| Stoneville ST5242BR | 1047 | 44 | | |
| Stoneville ST 5303R | 1026 | 41 | | |
| Deltapine DP 458BRR | 1013 | 41 | | |
| Fiber Max FM 989 RR | 1009 | 42 | | |
| Fiber Max FM 991BR | 1008 | 41 | | |
| Stoneville ST 5454B2R | 1005 | 42 | | |
| BCG 24R | 994 | 42 | | |
| Deltapine DP 5415 RR | 993 | 41 | | |
| Stoneville ST 6636BR | 980 | 41 | | |
| Deltapine DPLX02T57R | 976 | 41 | | |
| Stoneville ST 6848R | 929 | 40 | | |
| Acala 1517-99 | 843 | 39 | | |
| Trial mean | 1073 | 42 | | |
| LSD(0.10) | 206 | 2 | | |
| %CV | 12 | 2 | | |

† This test sustained 20-30% yield loss due to hurricane Ivan, therefore no 2-yr or 3-yr averages are given.

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr ----- <i>lbs/acre</i> ----- | 3-yr |
| Fiber Max FM 966LL | 1186 | 40 | † | † |
| BCG 50R | 1154 | 40 | | |
| Deltapine DP 555 BG/RR | 1133 | 45 | | |
| Deltapine DP 432 RR | 1115 | 42 | | |
| Deltapine DP 449 BG/RR | 1101 | 41 | | |
| Fiber Max FM 960RR | 1085 | 40 | | |
| Sure-Grow 105 | 1070 | 40 | | |
| Deltapine DP 455 BG/BR | 1064 | 43 | | |
| Deltapine DP 434 RR | 1063 | 44 | | |
| Fiber Max FM 960BR | 1061 | 41 | | |
| Deltapine DP 424 BGII/RR | 1031 | 40 | | |
| Stoneville ST 4892BR | 994 | 42 | | |
| Deltapine DP 445 BG/BR | 992 | 43 | | |
| Fiber Max FM 958LL | 983 | 40 | | |
| Sure-Grow 521R | 983 | 42 | | |
| Stoneville ST 4686R | 966 | 42 | | |
| Deltapine DP 393 | 962 | 42 | | |
| PhytoGen PHY 410RR | 950 | 40 | | |
| Stoneville ST 3636B2R | 946 | 43 | | |
| Fiber Max FM 960B2R | 920 | 41 | | |
| Stoneville ST 4575BR | 914 | 42 | | |
| Stoneville ST 4793R | 905 | 42 | | |
| BCG 28R | 900 | 41 | | |
| Stoneville ST4646B2R | 899 | 43 | | |
| Deltapine DP 436RR | 898 | 36 | | |
| Deltapine DP 451B/RR | 895 | 39 | | |
| Deltapine DP 444BG/RR | 856 | 41 | | |
| Paymaster PM 1218BG/RR | 832 | 41 | | |
| Stoneville ST5242BR | 768 | 41 | | |
| Trial mean | 987 | 41 | | |
| LSD(0.10) | 263 | 3 | | |
| %CV | 16 | 4 | | |

† This test sustained 20-30% yield loss due to hurricane Ivan, therefore no 2-yr or 3-yr averages are given.

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------|-------------------------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr <i>lbs/acre</i> | 3-yr <i>lbs/acre</i> |
| Deltapine DP 491 | 1180 | 44 | † | † |
| Deltapine DP 493 | 1171 | 46 | | |
| Deltapine DP 494 RR | 1157 | 42 | | |
| Deltapine DP 455 BG/BR | 1131 | 45 | | |
| Deltapine DP 555 BG/RR | 1124 | 45 | | |
| Deltapine DPLX02T57R | 1089 | 40 | | |
| Deltapine DP 488 BR | 1049 | 43 | | |
| Stoneville ST 4892BR | 1047 | 44 | | |
| Deltapine DP 5415 RR | 1008 | 41 | | |
| Deltapine DP 5690RR | 1005 | 41 | | |
| Deltapine DP 445 BG/BR | 996 | 43 | | |
| BCG 24R | 979 | 41 | | |
| Fiber Max FM 991BR | 958 | 40 | | |
| Deltapine DP 449 BG/RR | 954 | 41 | | |
| DP Delta Pearl | 950 | 42 | | |
| Stoneville ST 5599BR | 936 | 44 | | |
| Fiber Max 991R | 936 | 40 | | |
| Fiber Max FM 991B2R | 934 | 38 | | |
| Deltapine DP 543 BGII/BR | 900 | 41 | | |
| Stoneville ST 6636BR | 900 | 39 | | |
| Stoneville ST5242BR | 899 | 44 | | |
| Fiber Max FM 989 BR | 899 | 40 | | |
| Stoneville ST 5303R | 891 | 41 | | |
| Fiber Max FM 989 RR | 859 | 40 | | |
| Stoneville ST 5454B2R | 858 | 39 | | |
| Deltapine DP 458BRR | 795 | 40 | | |
| Stoneville ST 6848R | 789 | 39 | | |
| Trial mean | 978 | 42 | | |
| LSD(0.10) | 257 | 3 | | |
| %CV | 16 | 5 | | |

† This test sustained 20-30% yield loss due to hurricane Ivan, therefore no 2-yr or 3-yr averages are given.

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2004

† This test was completely destroyed by hurricane Ivan.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2004

† This test was completely destroyed by hurricane Ivan.

**TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2004**

| Variety | Lint yield | | | Lint percentage | | |
|--------------------------|------------|-----------------|------|-----------------|----------|------|
| | 2004 | 2-yr | 3-yr | 2004 | 2-yr | 3-yr |
| | | <i>lbs/acre</i> | | | <i>%</i> | |
| Deltapine DP 432 RR | 1112 | † | † | 42 | † | † |
| Fiber Max FM 960RR | 1103 | | | 41 | | |
| Fiber Max FM 960BR | 1086 | | | 41 | | |
| Deltapine DP 555 BG/RR | 1066 | | | 44 | | |
| Fiber Max FM 966LL | 1034 | | | 40 | | |
| Deltapine DP 455 BG/BR | 1016 | | | 43 | | |
| Fiber Max FM 958LL | 1008 | | | 42 | | |
| Fiber Max FM 960B2R | 1007 | | | 41 | | |
| Stoneville ST 4892BR | 999 | | | 43 | | |
| Deltapine DP 434 RR | 997 | | | 43 | | |
| Stoneville ST 4686R | 996 | | | 42 | | |
| BCG 50R | 993 | | | 39 | | |
| Deltapine DP 393 | 988 | | | 42 | | |
| Deltapine DP 445 BG/BR | 982 | | | 43 | | |
| Deltapine DP 424 BGII/RR | 982 | | | 39 | | |
| Deltapine DP 449 BG/RR | 981 | | | 40 | | |
| Sure-Grow 105 | 964 | | | 41 | | |
| Sure-Grow 521R | 963 | | | 41 | | |
| Stoneville ST 4575BR | 937 | | | 42 | | |
| Stoneville ST 4793R | 925 | | | 42 | | |
| Deltapine DP 444BG/RR | 918 | | | 42 | | |
| Stoneville ST 3636B2R | 914 | | | 42 | | |
| Stoneville ST5242BR | 913 | | | 43 | | |
| Stoneville ST4646B2R | 909 | | | 41 | | |
| BCG 28R | 899 | | | 42 | | |
| Deltapine DP 451B/RR | 872 | | | 39 | | |
| Deltapine DP 436RR | 866 | | | 38 | | |
| Paymaster PM 1218BG/RR | 857 | | | 42 | | |
| Trial mean | 974 | | | 41 | | |
| LSD(0.10) | 102 | | | 1 | | |
| %CV | 6 | | | 2 | | |

† Due to substantial losses caused by hurricane Ivan in 2004, no multiyear averages were calculated.

The 2004 average does not include Fairhope data (see Tables 9 and 10)

**TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2004**

| Variety | Lint yield | | | Lint percentage | | |
|--------------------------|-----------------|------|------|-----------------|------|------|
| | 2003 | 2-yr | 3-yr | 2003 | 2-yr | 3-yr |
| | <i>lbs/acre</i> | | | <i>%</i> | | |
| Deltapine DP 491 | 1085 | † | † | 44 | † | † |
| Deltapine DP 488 BR | 1052 | | | 44 | | |
| Stoneville ST 5599BR | 1050 | | | 43 | | |
| Deltapine DP 455 BG/BR | 1043 | | | 44 | | |
| Deltapine DP 494 RR | 1039 | | | 43 | | |
| Deltapine DP 493 | 1029 | | | 45 | | |
| Deltapine DP 555 BG/RR | 997 | | | 45 | | |
| Stoneville ST 4892BR | 988 | | | 43 | | |
| Deltapine DP 445 BG/BR | 978 | | | 43 | | |
| Deltapine DP 5690RR | 968 | | | 40 | | |
| Deltapine DP 5415 RR | 968 | | | 41 | | |
| Deltapine DP 449 BG/RR | 956 | | | 41 | | |
| Fiber Max FM 989 BR | 945 | | | 41 | | |
| Deltapine DPLX02T57R | 937 | | | 40 | | |
| DP Delta Pearl | 935 | | | 42 | | |
| Fiber Max FM 991BR | 928 | | | 40 | | |
| Fiber Max FM 989 RR | 923 | | | 41 | | |
| Stoneville ST 5303R | 920 | | | 41 | | |
| BCG 24R | 917 | | | 41 | | |
| Fiber Max 991R | 915 | | | 40 | | |
| Fiber Max FM 991B2R | 899 | | | 39 | | |
| Stoneville ST5242BR | 893 | | | 43 | | |
| Deltapine DP 543 BGII/BR | 893 | | | 41 | | |
| Deltapine DP 458BRR | 888 | | | 40 | | |
| Stoneville ST 6636BR | 887 | | | 39 | | |
| Stoneville ST 6848R | 863 | | | 39 | | |
| Stoneville ST 5454B2R | 803 | | | 39 | | |
| Trial mean | 952 | | | 42 | | |
| LSD(0.10) | 101 | | | 1 | | |
| %CV | 6 | | | 2 | | |

† Fairhope data not included in multi-year averages. See Tables 9 and 10 for explanation.

**TABLE 13. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2004**

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|----------------------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr ----- <i>lbs/acre</i> ----- | 3-yr |
| Stoneville ST 4892BR | 1489 | 41 | 1483 | 1518 |
| Deltapine DP 444BG/RR | 1507 | 41 | 1582 | . |
| Fiber Max FM 960BR | 1378 | 40 | 1456 | . |
| PhytoGen PHY 410RR | 1400 | 40 | 1389 | . |
| Stoneville ST5242BR | 1639 | 41 | . | . |
| Deltapine DP 432 RR | 1561 | 41 | . | . |
| BCG 28R | 1442 | 42 | . | . |
| Deltapine DP 434 RR | 1415 | 41 | . | . |
| Stoneville ST 4575BR | 1364 | 41 | . | . |
| Stoneville ST 3636B2R | 1364 | 38 | . | . |
| Fiber Max FM 960B2R | 1321 | 39 | . | . |
| Fiber Max FM 966LL | 1307 | 40 | . | . |
| Deltapine DP 424 BGII/RR | 1250 | 37 | . | . |
| Deltapine DP 555 BG/RR | 1185 | 43 | . | . |
| Trial mean | 1401 | 40 | 1477 | 1518 |
| LSD(0.10) | 230 | 2 | 163 | |
| %CV | 10 | 3 | 6 | |

**TABLE 14. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2004**

| Variety | 2004 lint | | Average lint yld | |
|------------------------|--------------------------|-----------------|-------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr <i>lbs/acre</i> | 3-yr |
| Stoneville ST 5599BR | 1455 | 40 | 1521 | 1566 |
| Stoneville ST 4892BR | 1535 | 41 | 1539 | 1548 |
| Deltapine DP 555 BG/RR | 1177 | 42 | 1322 | . |
| Stoneville ST5242BR | 1591 | 41 | . | . |
| Deltapine DP 488 BR | 1371 | 42 | . | . |
| Deltapine DP 494 RR | 1253 | 41 | . | . |
| Fiber Max FM 991BR | 1160 | 40 | . | . |
| BCG 24R | 1157 | 39 | . | . |
| Fiber Max FM 991B2R | 1108 | 36 | . | . |
| Stoneville ST 5454B2R | 1091 | 35 | . | . |
| Trial mean | 1401 | 40 | 1477 | 1518 |
| LSD(0.10) | 230 | 2 | 163 | 163 |
| %CV | 10 | 3 | 6 | 6 |

TABLE 15. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2004

| Variety | 2004 lint | | Average lint yld | |
|--------------------------|--------------------------|-----------------|-------------------------------------|------|
| | yield <i>lbs/acre</i> | percentage % | 2-yr ----- <i>lbs/acre</i> ----- | 3-yr |
| Fiber Max FM 960B2R | 1452 | 40 | | |
| Deltapine DP 493 | 1433 | 43 | | |
| Deltapine DP 488 BR | 1421 | 42 | | |
| PhytoGen PHY 410RR | 1420 | 39 | | |
| Fiber Max FM 989 BR | 1410 | 41 | | |
| Stoneville ST 5599BR | 1388 | 41 | | |
| Stoneville ST5242BR | 1368 | 42 | | |
| Stoneville ST 4892BR | 1367 | 41 | | |
| Fiber Max FM 991BR | 1343 | 40 | | |
| Deltapine DP 444BG/RR | 1342 | 42 | | |
| Fiber Max FM 966LL | 1324 | 39 | | |
| Fiber Max 991R | 1322 | 40 | | |
| Deltapine DP 449 BG/RR | 1290 | 40 | | |
| Stoneville ST 3636B2R | 1288 | 40 | | |
| Deltapine DP 494 RR | 1284 | 42 | | |
| Deltapine DP 555 BG/RR | 1265 | 44 | | |
| Fiber Max FM 991B2R | 1151 | 37 | | |
| DP Delta Pearl | 1130 | 42 | | |
| Deltapine DP 424 BGII/RR | 1091 | 36 | | |
| Stoneville ST 4575BR | 1078 | 40 | | |
| Stoneville ST 5454B2R | 1061 | 37 | | |
| Trial mean | 1296 | 40 | | |
| LSD(0.10) | 529 | 2 | | |
| %CV | 24 | 4 | | |

TABLE 16. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2004

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|--------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| AllTex Atlas | 675 | 30 | . | . | 655 | 30 | † | † | . | . |
| BCG 28R | 1279 | 13 | 502 | 25 | 913 | 29 | | | 900 | 23 |
| BCG 50R | 1105 | 29 | 645 | 6 | 1068 | 17 | | | 1154 | 2 |
| Deltapine DP 393 | 1362 | 6 | 564 | 15 | 1064 | 18 | | | 962 | 17 |
| Deltapine DP 424 BGII/RR | 1181 | 23 | 594 | 11 | 1123 | 8 | | | 1031 | 11 |
| Deltapine DP 432 RR | 1431 | 2 | 595 | 10 | 1308 | 1 | | | 1115 | 4 |
| Deltapine DP 434 RR | 1259 | 16 | 539 | 18 | 1126 | 7 | | | 1063 | 9 |
| Deltapine DP 436RR | 1140 | 24 | 472 | 26 | 954 | 27 | | | 898 | 25 |
| Deltapine DP 444BG/RR | 1386 | 4 | 401 | 29 | 1028 | 20 | | | 856 | 27 |
| Deltapine DP 445 BG/BR | 1382 | 5 | 570 | 12 | 986 | 25 | | | 992 | 13 |
| Deltapine DP 449 BG/RR | 1119 | 25 | 601 | 9 | 1103 | 9 | | | 1101 | 5 |
| Deltapine DP 451B/RR | 1116 | 26 | 507 | 24 | 968 | 26 | | | 895 | 26 |
| Deltapine DP 455 BG/BR | 1203 | 21 | 609 | 8 | 1189 | 3 | | | 1064 | 8 |
| Deltapine DP 555 BG/RR | 1306 | 11 | 665 | 4 | 1161 | 6 | | | 1133 | 3 |
| Fiber Max FM 958LL | 1359 | 7 | 647 | 5 | 1041 | 19 | | | 983 | 14 |
| Fiber Max FM 960B2R | 1219 | 20 | 709 | 2 | 1180 | 4 | | | 920 | 20 |
| Fiber Max FM 960BR | 1442 | 1 | 677 | 3 | 1162 | 5 | | | 1061 | 10 |
| Fiber Max FM 960RR | 1359 | 8 | 722 | 1 | 1246 | 2 | | | 1085 | 6 |
| Fiber Max FM 966LL | 1239 | 17 | 612 | 7 | 1098 | 10 | | | 1186 | 1 |
| Paymaster PM 1218BG/RR | 1197 | 22 | 451 | 27 | 950 | 28 | | | 832 | 28 |
| PhytoGen PHY 410RR | 1223 | 19 | 509 | 23 | 994 | 23 | | | 950 | 18 |
| Stoneville ST 3636B2R | 1108 | 28 | 524 | 20 | 1078 | 15 | | | 946 | 19 |
| Stoneville ST 4575BR | 1225 | 18 | 518 | 22 | 1090 | 12 | | | 914 | 21 |
| Stoneville ST 4686R | 1407 | 3 | 542 | 17 | 1068 | 16 | | | 966 | 16 |
| Stoneville ST 4793R | 1266 | 15 | 535 | 19 | 994 | 24 | | | 905 | 22 |
| Stoneville ST 4892BR | 1343 | 10 | 566 | 14 | 1095 | 11 | | | 994 | 12 |
| Stoneville ST4646B2R | 1114 | 27 | 543 | 16 | 1081 | 14 | | | 899 | 24 |
| Stoneville ST5242BR | 1279 | 14 | 521 | 21 | 1084 | 13 | | | 768 | 29 |
| Sure-Grow 105 | 1345 | 9 | 442 | 28 | 999 | 22 | | | 1070 | 7 |
| Sure-Grow 521R | 1287 | 12 | 566 | 13 | 1015 | 21 | | | 983 | 15 |
| Trial mean | 1245 | | 564 | | 1061 | | | | 987 | |
| LSD(0.10) | 207 | | 115 | | 209 | | | | 263 | |
| %CV | 10 | | 12 | | 12 | | | | 16 | |

† Fairhope data not included. See Tables 9 and 10 for explanation.

TABLE 17. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2004

| Variety | Belle Mina | | Prattville | | Shorter | | Fairhope | | Headland | |
|--------------------------|------------|------|------------|------|----------|------|----------|------|----------|------|
| | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank | lbs/acre | Rank |
| Acala 1517-99 | 822 | 28 | . | . | 843 | 28 | † | † | . | . |
| BCG 24R | 1109 | 14 | 586 | 25 | 994 | 23 | | | 979 | 12 |
| Deltapine DP 445 BG/BR | 1180 | 6 | 593 | 23 | 1142 | 8 | | | 996 | 11 |
| Deltapine DP 449 BG/RR | 1033 | 22 | 708 | 4 | 1127 | 11 | | | 954 | 14 |
| Deltapine DP 455 BG/BR | 1104 | 15 | 705 | 6 | 1234 | 1 | | | 1131 | 4 |
| Deltapine DP 458BRR | 1087 | 16 | 656 | 13 | 1013 | 19 | | | 795 | 26 |
| Deltapine DP 488 BR | 1184 | 4 | 744 | 3 | 1229 | 2 | | | 1049 | 7 |
| Deltapine DP 491 | 1202 | 3 | 784 | 2 | 1174 | 5 | | | 1180 | 1 |
| Deltapine DP 493 | 1144 | 9 | 596 | 22 | 1204 | 4 | | | 1171 | 2 |
| Deltapine DP 494 RR | 1182 | 5 | 676 | 9 | 1140 | 9 | | | 1157 | 3 |
| Deltapine DP 5415 RR | 1238 | 1 | 632 | 16 | 993 | 24 | | | 1008 | 9 |
| Deltapine DP 543 BGII/BR | 951 | 26 | 649 | 14 | 1071 | 14 | | | 900 | 19 |
| Deltapine DP 555 BG/RR | 1066 | 18 | 662 | 12 | 1136 | 10 | | | 1124 | 5 |
| Deltapine DP 5690RR | 1128 | 13 | 663 | 11 | 1076 | 13 | | | 1005 | 10 |
| Deltapine DPLX02T57R | 1061 | 20 | 623 | 18 | 976 | 26 | | | 1089 | 6 |
| DP Delta Pearl | 1065 | 19 | 645 | 15 | 1081 | 12 | | | 950 | 15 |
| Fiber Max 991R | 958 | 25 | 702 | 7 | 1064 | 15 | | | 936 | 17 |
| Fiber Max FM 989 BR | 1030 | 23 | 707 | 5 | 1145 | 7 | | | 899 | 22 |
| Fiber Max FM 989 RR | 1134 | 12 | 692 | 8 | 1009 | 20 | | | 859 | 24 |
| Fiber Max FM 991B2R | 1014 | 24 | 600 | 20 | 1048 | 16 | | | 934 | 18 |
| Fiber Max FM 991BR | 1077 | 17 | 668 | 10 | 1008 | 21 | | | 958 | 13 |
| Stoneville ST 4892BR | 1134 | 11 | 625 | 17 | 1146 | 6 | | | 1047 | 8 |
| Stoneville ST 5303R | 1150 | 8 | 611 | 19 | 1026 | 18 | | | 891 | 23 |
| Stoneville ST 5454B2R | 854 | 27 | 494 | 27 | 1005 | 22 | | | 858 | 25 |
| Stoneville ST 5599BR | 1223 | 2 | 831 | 1 | 1209 | 3 | | | 936 | 16 |
| Stoneville ST 6636BR | 1164 | 7 | 503 | 26 | 980 | 25 | | | 900 | 20 |
| Stoneville ST 6848R | 1136 | 10 | 598 | 21 | 929 | 27 | | | 789 | 27 |
| Stoneville ST5242BR | 1038 | 21 | 588 | 24 | 1047 | 17 | | | 899 | 21 |
| Trial mean | 1088 | | 650 | | 1073 | | | | 978 | |
| LSD(0.10) | 207 | | 113 | | 206 | | | | 257 | |
| %CV | 11 | | 10 | | 12 | | | | 16 | |

† Fairhope data not included. See Tables 9 and 10 for explanation.

**TABLE 18.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT BELLE MINA, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| AllTex Atlas | 4.4 | 1.08 | 30.5 | 85 |
| BCG 28R | 4.5 | 1.12 | 28.9 | 83 |
| BCG 50R | 4.0 | 1.13 | 30.3 | 84 |
| Deltapine DP 424 BGII/RR | 4.1 | 1.12 | 29.2 | 84 |
| Deltapine DP 432 RR | 4.4 | 1.11 | 28.5 | 85 |
| Deltapine DP 434 RR | 4.1 | 1.17 | 27.9 | 84 |
| Deltapine DP 436RR | 3.8 | 1.18 | 28.3 | 85 |
| Deltapine DP 444BG/RR | 3.5 | 1.11 | 30.3 | 85 |
| Deltapine DP 445BG/RR | 4.1 | 1.17 | 29.5 | 85 |
| Deltapine DP 449 BG/RR | 4.3 | 1.13 | 30.8 | 85 |
| Deltapine DP 451B/RR | 4.1 | 1.16 | 28.0 | 84 |
| Deltapine DP 455BG/RR | 3.7 | 1.15 | 30.6 | 83 |
| Deltapine DP 555 BG/RR | 4.5 | 1.15 | 30.5 | 84 |
| Deltapine DPL 393 | 4.4 | 1.16 | 30.3 | 84 |
| Fiber Max FM 958LL | 4.2 | 1.15 | 31.5 | 85 |
| Fiber Max FM 960B2R | 4.4 | 1.18 | 32.1 | 85 |
| Fiber Max FM 960BR | 4.2 | 1.12 | 31.8 | 85 |
| Fiber Max FM 960RR | 3.5 | 1.18 | 31.0 | 84 |
| Fiber Max FM 966LL | 4.0 | 1.13 | 32.0 | 85 |
| Paymaster PM 1218BG/RR | 4.8 | 1.10 | 28.2 | 85 |
| PhytoGen PHY 410RR | 4.3 | 1.14 | 29.6 | 85 |
| Stoneville ST 3636B2R | 4.4 | 1.11 | 30.4 | 83 |
| Stoneville ST 4575BR | 4.2 | 1.09 | 29.4 | 84 |
| Stoneville ST 4646B2R | 3.9 | 1.12 | 30.1 | 85 |
| Stoneville ST 4686R | 4.3 | 1.08 | 28.9 | 84 |
| Stoneville ST 4793R | 3.5 | 1.15 | 29.6 | 84 |
| Stoneville ST 4892BR | 4.1 | 1.14 | 29.9 | 85 |
| Stoneville ST 5242BR | 3.8 | 1.14 | 29.6 | 84 |
| Sure-Grow 105 | 4.2 | 1.15 | 30.2 | 85 |
| Sure-Grow 521R | 4.3 | 1.11 | 28.6 | 85 |

**TABLE 18.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT BELLE MINA, 2004**

| Variety | Micronaire units | Length in. | Strength g/tex | Uniformity pct. |
|-------------------------|---------------------|---------------|-------------------|--------------------|
| Full season | | | | |
| Acala 1517-99 | 3.9 | 1.16 | 31.6 | 84 |
| BCG 24R | 4.3 | 1.11 | 28.3 | 84 |
| Deltapine DP 445BG/RR | 3.9 | 1.14 | 29.9 | 84 |
| Deltapine DP 449 BG/RR | 4.1 | 1.13 | 30.7 | 84 |
| Deltapine DP 455BG/RR | 4.0 | 1.14 | 30.9 | 84 |
| Deltapine DP 458BRR | 4.5 | 1.10 | 31.4 | 83 |
| Deltapine DP 488 BR | 4.5 | 1.18 | 31.2 | 85 |
| Deltapine DP 491 | 4.3 | 1.18 | 32.1 | 84 |
| Deltapine DP 493 | 4.6 | 1.11 | 31.0 | 84 |
| Deltapine DP 494 RR | 4.5 | 1.14 | 30.9 | 84 |
| Deltapine DP 5415 RR | 4.6 | 1.11 | 30.3 | 84 |
| Deltapine DP 543BGII/RR | 4.6 | 1.09 | 30.2 | 84 |
| Deltapine DP 555 BG/RR | 4.1 | 1.12 | 30.1 | 83 |
| Deltapine DP 5690RR | 4.0 | 1.13 | 32.1 | 84 |
| Deltapine DPLX02T57R | 4.0 | 1.09 | 27.2 | 84 |
| DP Delta Pearl | 4.6 | 1.17 | 29.8 | 84 |
| Fiber Max 991R | 4.2 | 1.16 | 31.8 | 85 |
| Fiber Max FM 989 BR | 3.5 | 1.15 | 30.9 | 85 |
| Fiber Max FM 989 RR | 3.8 | 1.11 | 32.2 | 84 |
| Fiber Max FM 991B2R | 4.3 | 1.15 | 32.4 | 84 |
| Fiber Max FM 991BR | 4.7 | 1.13 | 32.3 | 85 |
| Stoneville ST 4892BR | 4.4 | 1.10 | 30.4 | 85 |
| Stoneville ST 5242BR | 4.5 | 1.09 | 28.2 | 84 |
| Stoneville ST 5303R | 4.5 | 1.07 | 31.2 | 85 |
| Stoneville ST 5454B2R | 4.4 | 1.13 | 30.1 | 84 |
| Stoneville ST 5599BR | 4.8 | 1.10 | 29.5 | 83 |
| Stoneville ST 6636BR | 4.1 | 1.16 | 30.0 | 84 |
| Stoneville ST 6848R | 4.6 | 1.14 | 31.6 | 85 |

**TABLE 19.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT PRATTVILLE, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| BCG 28R | 5.4 | 1.15 | 30.9 | 82 |
| BCG 50R | 5.0 | 1.09 | 28.7 | 83 |
| Deltapine DP 393 | 4.5 | 1.14 | 32.0 | 84 |
| Deltapine DP 424 BGII/RR | 4.9 | 1.08 | 26.6 | 81 |
| Deltapine DP 432 RR | 5.2 | 1.06 | 28.2 | 83 |
| Deltapine DP 434 RR | 4.9 | 1.13 | 28.5 | 83 |
| Deltapine DP 436RR | 5.4 | 1.12 | 28.6 | 83 |
| Deltapine DP 444BG/RR | 4.7 | 1.10 | 28.8 | 83 |
| Deltapine DP 445 BG/RR | 5.0 | 1.10 | 31.0 | 84 |
| Deltapine DP 449 BG/RR | 4.3 | 1.09 | 31.6 | 82 |
| Deltapine DP 451B/RR | 5.0 | 1.07 | 27.2 | 83 |
| Deltapine DP 455 BG/RR | 4.7 | 1.10 | 31.0 | 83 |
| Deltapine DP 555 BG/RR | 5.1 | 1.11 | 29.3 | 82 |
| Fiber Max FM 958LL | 5.4 | 1.09 | 32.1 | 84 |
| Fiber Max FM 960B2R | 5.4 | 1.16 | 33.1 | 83 |
| Fiber Max FM 960BR | 5.4 | 1.04 | 33.2 | 83 |
| Fiber Max FM 960RR | 5.0 | 1.11 | 33.1 | 83 |
| Fiber Max FM 966LL | 5.3 | 1.11 | 33.1 | 83 |
| Paymaster PM 1218BG/RR | 5.3 | 1.03 | 26.1 | 83 |
| PhytoGen PHY 410RR | 5.0 | 1.18 | 32.1 | 84 |
| Stoneville ST 3636B2R | 5.2 | 1.09 | 27.8 | 82 |
| Stoneville ST 4575BR | 4.8 | 1.08 | 29.7 | 83 |
| Stoneville ST 4646B2R | 4.5 | 1.09 | 29.4 | 82 |
| Stoneville ST 4686R | 5.3 | 1.11 | 28.4 | 82 |
| Stoneville ST 4793R | 5.2 | 1.04 | 29.4 | 82 |
| Stoneville ST 4892BR | 5.7 | 1.07 | 29.1 | 83 |
| Stoneville ST 5242BR | 5.2 | 1.05 | 27.5 | 82 |
| Sure-Grow 105 | 4.8 | 1.12 | 28.6 | 84 |
| Sure-Grow 521R | 4.8 | 1.05 | 28.8 | 84 |

**TABLE 19.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT PRATTVILLE, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| BCG 24R | 5.3 | 1.08 | 29.0 | 83 |
| Deltapine DP 445 BG/RR | 4.3 | 1.11 | 29.5 | 84 |
| Deltapine DP 449 BG/RR | 4.8 | 1.10 | 31.2 | 84 |
| Deltapine DP 455 BG/RR | 4.4 | 1.11 | 29.1 | 83 |
| Deltapine DP 458BRR | 4.6 | 1.11 | 30.0 | 83 |
| Deltapine DP 488 BR | 5.1 | 1.17 | 30.4 | 84 |
| Deltapine DP 491 | 4.7 | 1.15 | 31.6 | 83 |
| Deltapine DP 493 | 4.7 | 1.13 | 31.0 | 83 |
| Deltapine DP 494 RR | 5.2 | 1.13 | 31.0 | 83 |
| Deltapine DP 5415 RR | 4.8 | 1.10 | 27.7 | 83 |
| Deltapine DP 543 BGII/RR | 5.3 | 1.10 | 28.2 | 83 |
| Deltapine DP 555 BG/RR | 4.4 | 1.10 | 28.9 | 83 |
| Deltapine DP 5690RR | 4.1 | 1.08 | 29.9 | 82 |
| Deltapine DPLX02T57R | 4.3 | 1.09 | 28.8 | 83 |
| DP Delta Pearl | 5.0 | 1.15 | 30.5 | 83 |
| Fiber Max 991R | 4.1 | 1.12 | 31.8 | 83 |
| Fiber Max FM 989 BR | 5.2 | 1.09 | 29.1 | 83 |
| Fiber Max FM 989 RR | 4.2 | 1.13 | 32.7 | 83 |
| Fiber Max FM 991B2R | 4.5 | 1.17 | 32.0 | 84 |
| Fiber Max FM 991BR | 5.0 | 1.12 | 32.0 | 83 |
| Stoneville ST 4892BR | 5.2 | 1.09 | 28.7 | 84 |
| Stoneville ST 5242BR | 4.9 | 1.08 | 26.6 | 83 |
| Stoneville ST 5303R | 5.5 | 1.11 | 31.1 | 84 |
| Stoneville ST 5454B2R | 5.0 | 1.09 | 29.9 | 82 |
| Stoneville ST 5599BR | 4.9 | 1.09 | 29.9 | 84 |
| Stoneville ST 6636BR | 4.3 | 1.12 | 31.5 | 83 |
| Stoneville ST 6848R | 4.9 | 1.12 | 32.3 | 84 |

**TABLE 20.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT SHORTER, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| AllTex Atlas | 5.4 | 1.04 | 31.0 | 82 |
| BCG 28R | 5.6 | 1.02 | 28.9 | 82 |
| BCG 50R | 5.3 | 1.04 | 29.6 | 82 |
| Deltapine DP 393 | 5.4 | 1.11 | 33.0 | 82 |
| Deltapine DP 424 BGII/RR | 5.4 | 1.04 | 28.6 | 82 |
| Deltapine DP 432 RR | 5.7 | 1.07 | 30.2 | 83 |
| Deltapine DP 434 RR | 5.3 | 1.06 | 28.5 | 82 |
| Deltapine DP 436RR | 5.5 | 1.08 | 28.1 | 83 |
| Deltapine DP 444BG/RR | 4.9 | 1.06 | 30.3 | 82 |
| Deltapine DP 445 BG/RR | 5.2 | 1.05 | 31.1 | 83 |
| Deltapine DP 449 BG/RR | 5.2 | 1.04 | 32.6 | 82 |
| Deltapine DP 451B/RR | 5.6 | 1.07 | 29.2 | 82 |
| Deltapine DP 455 BG/RR | 5.1 | 1.04 | 30.5 | 82 |
| Deltapine DP 555 BG/RR | 5.7 | 1.06 | 31.3 | 82 |
| Fiber Max FM 958LL | 5.6 | 1.08 | 32.1 | 83 |
| Fiber Max FM 960B2R | 5.8 | 1.08 | 32.2 | 83 |
| Fiber Max FM 960BR | 5.7 | 1.03 | 32.2 | 82 |
| Fiber Max FM 960RR | 6.1 | 1.07 | 31.8 | 82 |
| Fiber Max FM 966LL | 5.6 | 1.09 | 34.1 | 83 |
| Paymaster PM 1218BG/RR | 5.6 | 1.02 | 28.3 | 82 |
| PhytoGen PHY 410RR | 5.6 | 1.07 | 32.1 | 83 |
| Stoneville ST 3636B2R | 5.8 | 1.04 | 28.9 | 82 |
| Stoneville ST 4575BR | 5.6 | 1.04 | 31.2 | 83 |
| Stoneville ST 4646B2R | 5.5 | 1.07 | 29.0 | 82 |
| Stoneville ST 4686R | 5.1 | 1.06 | 29.1 | 82 |
| Stoneville ST 4793R | 5.9 | 1.02 | 30.6 | 82 |
| Stoneville ST 4892BR | 6.0 | 1.02 | 28.8 | 83 |
| Stoneville ST 5242BR | 5.4 | 1.05 | 29.0 | 83 |
| Sure-Grow 105 | 5.5 | 1.06 | 29.5 | 82 |
| Sure-Grow 521R | 5.6 | 1.02 | 28.8 | 82 |

**TABLE 20.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT SHORTER, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Acala 1517-99 | 4.5 | 1.20 | 34.8 | 85 |
| BCG 24R | 4.8 | 1.11 | 32.0 | 84 |
| Deltapine DP 445 BG/RR | 4.9 | 1.12 | 32.4 | 85 |
| Deltapine DP 449 BG/RR | 5.1 | 1.09 | 33.1 | 84 |
| Deltapine DP 455 BG/RR | 5.1 | 1.11 | 31.2 | 83 |
| Deltapine DP 458BRR | 5.2 | 1.09 | 31.2 | 84 |
| Deltapine DP 488 BR | 5.2 | 1.13 | 30.8 | 83 |
| Deltapine DP 491 | 5.1 | 1.17 | 34.2 | 84 |
| Deltapine DP 493 | 5.2 | 1.10 | 32.8 | 83 |
| Deltapine DP 494 RR | 5.2 | 1.15 | 32.5 | 84 |
| Deltapine DP 5415 RR | 5.1 | 1.12 | 32.2 | 84 |
| Deltapine DP 543 BGII/RR | 5.5 | 1.10 | 30.9 | 84 |
| Deltapine DP 555 BG/RR | 4.9 | 1.12 | 31.1 | 83 |
| Deltapine DP 5690RR | 5.1 | 1.11 | 33.1 | 84 |
| Deltapine DPLX02T57R | 4.9 | 1.07 | 31.3 | 84 |
| DP Delta Pearl | 5.3 | 1.13 | 32.6 | 84 |
| Fiber Max 991R | 5.0 | 1.13 | 33.2 | 84 |
| Fiber Max FM 989 BR | 5.3 | 1.05 | 30.2 | 82 |
| Fiber Max FM 989 RR | 5.0 | 1.09 | 32.7 | 83 |
| Fiber Max FM 991B2R | 4.6 | 1.13 | 32.2 | 84 |
| Fiber Max FM 991BR | 5.1 | 1.10 | 33.8 | 84 |
| Stoneville ST 4892BR | 5.3 | 1.09 | 30.1 | 84 |
| Stoneville ST 5242BR | 5.0 | 1.07 | 29.3 | 93 |
| Stoneville ST 5303R | 4.9 | 1.10 | 32.5 | 84 |
| Stoneville ST 5454B2R | 5.6 | 1.05 | 29.3 | 83 |
| Stoneville ST 5599BR | 5.4 | 1.05 | 28.5 | 82 |
| Stoneville ST 6636BR | 5.2 | 1.12 | 31.5 | 84 |
| Stoneville ST 6848R | 5.2 | 1.11 | 32.3 | 84 |

**TABLE 21.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT HEADLAND, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| BCG 28R | 4.8 | 1.09 | 28.7 | 82 |
| BCG 50R | 4.9 | 1.08 | 31.7 | 83 |
| Deltapine DP 393 | 4.8 | 1.11 | 29.2 | 84 |
| Deltapine DP 424 BGII/RR | 4.7 | 1.05 | 26.3 | 84 |
| Deltapine DP 432 RR | 4.6 | 1.11 | 30.7 | 84 |
| Deltapine DP 434 RR | 4.9 | 1.09 | 27.5 | 82 |
| Deltapine DP 436RR | 4.6 | 1.10 | 28.3 | 83 |
| Deltapine DP 444BG/RR | 4.5 | 1.10 | 27.8 | 83 |
| Deltapine DP 445 BG/RR | 4.3 | 1.12 | 29.9 | 84 |
| Deltapine DP 449 BG/RR | 4.9 | 1.06 | 28.8 | 83 |
| Deltapine DP 451B/RR | 5.0 | 1.07 | 27.5 | 84 |
| Deltapine DP 455 BG/RR | 4.6 | 1.07 | 32.2 | 83 |
| Deltapine DP 555 BG/RR | 4.9 | 1.08 | 29.7 | 84 |
| Fiber Max FM 958LL | 4.8 | 1.10 | 30.3 | 84 |
| Fiber Max FM 960B2R | 4.8 | 1.10 | 30.7 | 82 |
| Fiber Max FM 960BR | 4.6 | 1.06 | 32.1 | 83 |
| Fiber Max FM 960RR | 4.9 | 1.13 | 31.8 | 84 |
| Fiber Max FM 966LL | 4.8 | 1.09 | 34.4 | 83 |
| Paymaster PM 1218BG/RR | 4.9 | 1.06 | 26.8 | 82 |
| PhytoGen PHY 410RR | 4.9 | 1.11 | 30.7 | 84 |
| Stoneville ST 3636B2R | 4.9 | 1.02 | 26.5 | 83 |
| Stoneville ST 4575BR | 5.0 | 1.04 | 29.3 | 82 |
| Stoneville ST 4646B2R | 4.5 | 1.07 | 27.9 | 83 |
| Stoneville ST 4686R | 4.3 | 1.10 | 28.9 | 82 |
| Stoneville ST 4793R | 5.2 | 1.05 | 27.7 | 83 |
| Stoneville ST 4892BR | 5.1 | 1.07 | 29.3 | 84 |
| Stoneville ST 5242BR | 4.4 | 1.10 | 28.3 | 84 |
| Sure-Grow 105 | 4.9 | 1.07 | 29.1 | 84 |
| Sure-Grow 521R | 4.9 | 1.06 | 27.2 | 83 |

**TABLE 21.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT HEADLAND, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| BCG 24R | 4.4 | 1.06 | 30.3 | 84 |
| Deltapine DP 445 BG/RR | 4.3 | 1.07 | 31.0 | 83 |
| Deltapine DP 449 BG/RR | 4.3 | 1.07 | 30.9 | 83 |
| Deltapine DP 455 BG/RR | 3.9 | 1.10 | 30.4 | 82 |
| Deltapine DP 458BRR | 4.8 | 1.06 | 28.1 | 83 |
| Deltapine DP 488 BR | 4.4 | 1.13 | 31.8 | 83 |
| Deltapine DP 491 | 4.7 | 1.13 | 31.9 | 83 |
| Deltapine DP 493 | 5.0 | 1.05 | 29.6 | 82 |
| Deltapine DP 494 RR | 4.6 | 1.07 | 31.6 | 84 |
| Deltapine DP 5415 RR | 4.7 | 1.08 | 29.1 | 83 |
| Deltapine DP 543 BGII/RR | 4.8 | 1.07 | 28.6 | 81 |
| Deltapine DP 555 BG/RR | 4.7 | 1.03 | 27.9 | 82 |
| Deltapine DP 5690RR | 4.4 | 1.06 | 31.9 | 83 |
| Deltapine DPLX02T57R | 5.0 | 1.05 | 28.6 | 83 |
| DP Delta Pearl | 4.6 | 1.10 | 31.6 | 83 |
| Fiber Max 991R | 4.5 | 1.08 | 32.1 | 82 |
| Fiber Max FM 989 BR | 4.5 | 1.08 | 30.1 | 83 |
| Fiber Max FM 989 RR | 4.2 | 1.05 | 33.1 | 83 |
| Fiber Max FM 991B2R | 3.7 | 1.07 | 31.8 | 82 |
| Fiber Max FM 991BR | 4.8 | 1.07 | 32.5 | 82 |
| Stoneville ST 4892BR | 4.8 | 1.04 | 29.5 | 83 |
| Stoneville ST 5242BR | 4.9 | 1.06 | 26.6 | 83 |
| Stoneville ST 5303R | 4.8 | 1.05 | 29.6 | 83 |
| Stoneville ST 5454B2R | 4.3 | 1.08 | 28.2 | 83 |
| Stoneville ST 5599BR | 5.1 | 1.04 | 28.0 | 82 |
| Stoneville ST 6636BR | 4.6 | 1.08 | 29.7 | 82 |
| Stoneville ST 6848R | 4.7 | 1.13 | 33.7 | 85 |

**TABLE 22A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON
COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2003**

† This test was completely destroyed by hurricane Ivan.

**TABLE 22B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON
COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2003**

† This test was completely destroyed by hurricane Ivan.

**TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY AND FULL SEASON IRRIGATED
COTTON VARIETIES AT BELLE MINA, ALABAMA, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Early season | | | | |
| BCG 28R | 4.1 | 1.14 | 27.7 | 84 |
| Deltapine DP 424 BGII/RR | 3.9 | 1.12 | 26.0 | 85 |
| Deltapine DP 432 RR | 3.8 | 1.10 | 26.3 | 84 |
| Deltapine DP 434 RR | 3.9 | 1.16 | 27.8 | 85 |
| Deltapine DP 444BG/RR | 3.7 | 1.12 | 28.4 | 84 |
| Deltapine DP 555 BG/RR | 3.8 | 1.14 | 28.2 | 85 |
| Fiber Max FM 960B2R | 3.8 | 1.18 | 30.2 | 84 |
| Fiber Max FM 960BR | 3.7 | 1.14 | 31.8 | 84 |
| Fiber Max FM 966LL | 3.7 | 1.14 | 31.5 | 83 |
| PhytoGen PHY 410RR | 3.8 | 1.13 | 27.3 | 84 |
| Stoneville ST 3636B2R | 4.0 | 1.14 | 26.7 | 85 |
| Stoneville ST 4575BR | 3.7 | 1.12 | 26.0 | 86 |
| Stoneville ST 4892BR | 4.3 | 1.09 | 27.5 | 84 |
| Stoneville ST 5242BR | 4.1 | 1.11 | 26.4 | 84 |
| Full season | | | | |
| BCG 24R | 3.5 | 1.13 | 27.8 | 84 |
| Deltapine DP 488 BR | 3.9 | 1.16 | 30.4 | 85 |
| Deltapine DP 494 RR | 3.9 | 1.14 | 30.5 | 85 |
| Deltapine DP 555 BG/RR | 3.8 | 1.14 | 29.4 | 84 |
| Fiber Max FM 991B2R | 3.8 | 1.19 | 31.1 | 85 |
| Fiber Max FM 991BR | 4.1 | 1.14 | 32.1 | 84 |
| Stoneville ST 4892BR | 4.0 | 1.10 | 28.7 | 84 |
| Stoneville ST 5242BR | 4.0 | 1.08 | 25.0 | 85 |
| Stoneville ST 5454B2R | 3.6 | 1.09 | 27.8 | 84 |
| Stoneville ST 5599BR | 3.7 | 1.13 | 29.8 | 83 |

**TABLE 24. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES
AT HEADLAND, ALABAMA, 2004**

| Variety | Micronaire <i>units</i> | Length <i>in.</i> | Strength <i>g/tex</i> | Uniformity <i>pct.</i> |
|--------------------------|----------------------------|----------------------|--------------------------|---------------------------|
| Full season | | | | |
| Deltapine DP 424 BGII/RR | 4.1 | 1.07 | 27.2 | 84 |
| Deltapine DP 444BG/RR | 3.3 | 1.13 | 29.1 | 84 |
| Deltapine DP 449 BG/RR | 3.9 | 1.10 | 31.8 | 83 |
| Deltapine DP 488 BR | 3.8 | 1.15 | 31.7 | 84 |
| Deltapine DP 493 | 4.3 | 1.12 | 30.3 | 82 |
| Deltapine DP 494 RR | 4.3 | 1.13 | 31.8 | 83 |
| Deltapine DP 555 BG/RR | 3.6 | 1.09 | 31.6 | 81 |
| DP Delta Pearl | 4.0 | 1.15 | 30.8 | 83 |
| Fiber Max 991R | 4.0 | 1.12 | 31.4 | 83 |
| Fiber Max FM 960B2R | 3.9 | 1.17 | 35.1 | 84 |
| Fiber Max FM 966LL | 3.9 | 1.14 | 33.8 | 84 |
| Fiber Max FM 989 BR | 3.7 | 1.13 | 30.8 | 83 |
| Fiber Max FM 991B2R | 3.8 | 1.14 | 32.1 | 84 |
| Fiber Max FM 991BR | 4.0 | 1.08 | 32.8 | 82 |
| PhytoGen PHY 410RR | 4.1 | 1.11 | 30.2 | 83 |
| Stoneville ST 3636B2R | 4.4 | 1.09 | 28.0 | 83 |
| Stoneville ST 4575BR | 4.1 | 1.08 | 26.7 | 84 |
| Stoneville ST 4892BR | 4.2 | 1.08 | 29.4 | 84 |
| Stoneville ST 5242BR | 3.5 | 1.05 | 26.3 | 83 |
| Stoneville ST 5454B2R | 3.9 | 1.11 | 27.8 | 84 |
| Stoneville ST 5599BR | 3.7 | 1.14 | 30.6 | 84 |

TABLE 25. GROWING SEASON RAINFALL, 2002-2004

| Test location | Year | Monthly rainfall (inches) | | | | | | 7-month total | |
|---------------|------|---------------------------|------|------|------|------|------|---------------|------|
| | | Mar. | Apr. | May | June | July | Aug. | | |
| Belle Mina | 2004 | 5.4 | 4.3 | 3.2 | 5.1 | 7.8 | 3.0 | 3.5 | 32.3 |
| | 2003 | 2.2 | 4.3 | 9.8 | 5.0 | 4.6 | 3.0 | 8.6 | 37.5 |
| | 2002 | 5.5 | 1.5 | 10.3 | 0.9 | 4.5 | 1.7 | 5.3 | 29.7 |
| Shorter | 2004 | 0.8 | 3.1 | 4.0 | 7.4 | 2.4 | 4.9 | 6.4 | 29.0 |
| | 2003 | 6.7 | 9.1 | 6.0 | 6.6 | 7.8 | 6.9 | 4.5 | 47.6 |
| | 2002 | 6.5 | 3.6 | 2.5 | 5.6 | 2.3 | 1.9 | 5.9 | 28.3 |
| Prattville | 2004 | 1.4 | 3.5 | 5.2 | 8.8 | 2.0 | 5.7 | 6.0 | 32.6 |
| | 2003 | 5.2 | 8.8 | 4.8 | 7.4 | 6.6 | 8.0 | 2.2 | 43.0 |
| | 2002 | 5.8 | 1.4 | 2.6 | 1.9 | 4.2 | 2.2 | 6.2 | 24.3 |
| Headland | 2004 | 0.5 | 4.4 | 3.9 | 9.8 | 4.4 | 2.1 | 7.1 | 32.2 |
| | 2003 | 6.0 | 9.2 | 3.4 | 8.8 | 7.5 | 6.1 | 4.7 | 45.7 |
| | 2002 | 5.2 | 3.4 | 2.9 | 3.9 | 4.1 | 3.1 | 2.9 | 25.5 |
| Fairhope | 2004 | 0.7 | 2.3 | 2.0 | 10.8 | 4.7 | 8.3 | 12.6 | 41.4 |
| | 2003 | 5.2 | 3.1 | 5.8 | 9.5 | 18.4 | 5.2 | 3.7 | 50.9 |
| | 2002 | 4.2 | 3.1 | 2.3 | 3.4 | 10.8 | 5.8 | 14.8 | 44.4 |

TABLE 26. SOIL TYPES FOR 2004 COTTON TRIAS

| 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 27. SOURCES OF SEED FOR THE 2004 COTTON VARIETY TRIALS**Delta and Pine Land Co., Scott, Mississippi**

| | |
|-----------------------|------------------------|
| Deltapine Delta Pearl | Deltapine DP 451BRR |
| Deltapine DP 393 | Deltapine DP 455BRR |
| Deltapine DP 491 | Deltapine DP 458BRR |
| Deltapine DP 493 | Deltapine DP 488BRR |
| Deltapine DP 432RR | Deltapine DP 555BRR |
| Deltapine DP 434RR | Deltapine DP 424BII/RR |
| Deltapine DP 436RR | Deltapine DP 543BII/RR |
| Deltapine DP 494RR | Deltapine DPLX02T57R |
| Deltapine DP 5415RR | Paymaster PM 1218BG/RR |
| Deltapine DP 5690RR | Sure-Grow 105 |
| Deltapine DP 444BRR | Sure-Grow 521R |
| Deltapine DP 445BRR | |
| Deltapine DP 449BRR | |

Aventis Crop Sciences, Collierville, Tennessee

| | |
|--------------------|--------------------|
| FiberMax FM 958LL | FiberMax FM 989RR |
| FiberMax FM 966LL | FiberMax FM 989BR |
| FiberMax FM 960RR | FiberMax FM 991RR |
| FiberMax FM 960BR | FiberMax FM 991BR |
| FiberMax FM 960B2R | FiberMax FM 991B2R |

PhytoGen Seed Company, Leland, Mississippi

PhytoGen PHY 410 RR

Stoneville Pedigreed Seed Co., Stoneville, Mississippi

| | |
|----------------------|-----------------------|
| Stoneville ST 5303R | Stoneville ST 5242BR |
| Stoneville ST 4686R | Stoneville ST 5599BR |
| Stoneville ST 4793R | Stoneville ST 6636BR |
| Stoneville ST 6848R | Stoneville ST 3636B2R |
| Stoneville ST 4575BR | Stoneville ST 4646B2R |
| Stoneville ST 4892BR | Stoneville ST 5454B2R |

Beltwide Cotton Genetics, McCrory, Arkansas

| | |
|---------|---------|
| BCG 24R | BCG 50R |
| BCG 28R | |

CPCS Distributor, Shafter, California

Acala 1517-99
AllTex Atlas