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## Mississippi cotton variety tests Delta and hill sections, 1970

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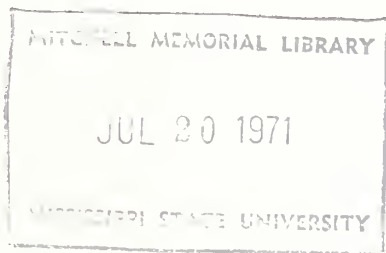
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# Mississippi Cotton Variety Tests Delta And Hill Sections, 1970



MISSISSIPPI STATE UNIVERSITY

AGRICULTURAL AND FORESTRY EXPERIMENT STATION

JAMES H. ANDERSON, Director

## 1970 Test Results

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# MISSISSIPPI COTTON VARIETY TESTS FOR 1970 IN THE DELTA

By ROBERT R. BRIDGE, WILLIAM R. MEREDITH, JR.,  
and J. F. CHISM<sup>1</sup>

Cotton variety tests were conducted by the Delta Branch Experiment Station in 1970 on the Delta Station at Stoneville, Greer Plantation near Yazoo City, Schner Plantation near Sumner and Bold Farms near Tunica. Variety tests were conducted on two test sites in Stoneville. One was on a Bosket very fine sandy loam and another on a Sharkey clay type soil.

Current strains of 13 varieties were grown at all locations. Two varieties were tested for the first time at all locations. These were Deltapine 6225 and Coker 60. Stoneville 7A okra leaf was tested at Yazoo City and Stoneville.

Results are reported at each location for the 1970 variety tests. Yield data were based on the weight of cotton harvested from two-row plots. Each plot was randomized and replicated six times. Lint percentage and fiber property determinations were obtained from hand-picked samples. Fiber property data were determined by the U.S. Cotton Fiber Laboratory of the Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture,

Knoxville, Tennessee.

Performance data of varieties tested in 1970 are shown in Tables 1 through 6. Table 6 gives the average performance of 13 cotton varieties grown at five locations in 1970. Statistical analysis of the yield data for all locations indicated that the location in which a variety was grown had an effect on its yield performance. Some varieties tended to perform better at one location than they did at another location.

Table 7 gives the 6-year (1965-70) and 2-year (1969-70) average yield of cotton varieties grown at Stoneville, Yazoo City, and Tunica. Table 8 gives the 4-year (1967-70) and 2-year (1969-70) average yield at Sumner. Table 8 also gives a 3-year average yield for varieties grown on a clay soil at Stoneville.

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Table 1. Results of 1970 cotton variety test - Stoneville, Mississippi.

|                    | LINT PER ACRE |               |                          |        | Lint<br>percent | Seed<br>index | Boll<br>size<br>grams | FIBER PROPERTIES |                 |                 |      |      |
|--------------------|---------------|---------------|--------------------------|--------|-----------------|---------------|-----------------------|------------------|-----------------|-----------------|------|------|
|                    | Total         | First<br>pick | Percent<br>first<br>pick | Length |                 |               |                       | Strength         | Elonga-<br>tion | Micro-<br>naire | 50%  |      |
|                    |               |               |                          |        |                 |               |                       |                  |                 |                 | 2.5% | 50%  |
| Deltapine 6225     | 1411          | 1315          | 93                       |        | 41.6            | 10.7          | 5.53                  | 1.09             | .54             | 18.38           | 7.08 | 5.16 |
| Deltapine 16       | 1308          | 1219          | 93                       |        | 39.0            | 11.0          | 6.26                  | 1.11             | .52             | 18.75           | 8.83 | 4.83 |
| Stoneville 213     | 1305          | 1219          | 93                       |        | 40.1            | 10.6          | 5.86                  | 1.08             | .51             | 18.10           | 6.95 | 5.16 |
| Stoneville 7A      | 1304          | 1214          | 93                       |        | 40.5            | 11.0          | 5.58                  | 1.08             | .51             | 17.21           | 6.47 | 5.10 |
| Deltapine 45A      | 1285          | 1200          | 93                       |        | 39.2            | 11.4          | 5.70                  | 1.06             | .54             | 18.63           | 7.87 | 5.06 |
| DES 67-213         | 1247          | 1165          | 93                       |        | 38.2            | 10.9          | 5.74                  | 1.11             | .53             | 17.19           | 7.56 | 4.75 |
| Coker 201          | 1236          | 1140          | 93                       |        | 38.6            | 11.9          | 6.12                  | 1.12             | .54             | 18.08           | 6.81 | 4.69 |
| Coker 310          | 1187          | 1113          | 94                       |        | 37.5            | 12.2          | 6.45                  | 1.16             | .53             | 18.23           | 7.07 | 4.63 |
| Stoneville 7A Okra | 1164          | 1102          | 95                       |        | 38.5            | 10.6          | 5.72                  | 1.06             | .52             | 17.57           | 6.57 | 4.87 |
| Coker 417          | 1157          | 1078          | 93                       |        | 36.9            | 11.8          | 5.98                  | 1.19             | .53             | 18.87           | 7.23 | 4.25 |
| Stoneville 603     | 1127          | 1058          | 94                       |        | 36.4            | 12.0          | 5.67                  | 1.14             | .54             | 20.29           | 7.56 | 4.37 |
| Delcot 277         | 1122          | 1066          | 95                       |        | 36.3            | 12.9          | 6.77                  | 1.19             | .59             | 20.91           | 9.03 | 4.10 |
| Acala SJ-1         | 976           | 868           | 89                       |        | 36.3            | 13.7          | 6.65                  | 1.14             | .57             | 22.53           | 6.48 | 4.72 |
| Paymaster 111      | 855           | 763           | 89                       |        | 35.5            | 12.7          | 7.54                  | 1.07             | .52             | 18.76           | 6.34 | 4.73 |

Planted: April 23, 1970

Harvested: September 29 and October 30, 1970

Soil: Bosket very fine sandy loam

Table 2. Results of 1970 cotton variety test - Tunica, Mississippi.

|                | LINT PER ACRE | Lint<br>percent | Seed<br>index | Boll<br>size<br>grams | FIBER PROPERTIES |     |                     |                 |                 |
|----------------|---------------|-----------------|---------------|-----------------------|------------------|-----|---------------------|-----------------|-----------------|
|                |               |                 |               |                       | Length           |     | Strength<br>gms/tex | Elonga-<br>tion | Micro-<br>naire |
|                |               |                 |               |                       | 2.5%             | 50% |                     |                 |                 |
| Deltapine 16   | 902           | 37.9            | 12.0          | 6.37                  | 1.18             | .57 | 18.04               | 8.09            | 4.65            |
| Stoneville 603 | 861           | 36.0            | 12.9          | 6.33                  | 1.15             | .56 | 19.11               | 7.34            | 4.52            |
| Deltapine 45A  | 843           | 37.7            | 12.1          | 6.21                  | 1.13             | .56 | 18.64               | 7.16            | 4.82            |
| Deltapine 6225 | 835           | 39.6            | 11.5          | 5.76                  | 1.16             | .56 | 19.43               | 6.64            | 4.82            |
| Coker 310      | 824           | 38.2            | 12.1          | 5.99                  | 1.23             | .58 | 18.62               | 6.96            | 4.57            |
| Stoneville 213 | 789           | 37.0            | 12.4          | 6.37                  | 1.17             | .57 | 18.29               | 7.03            | 4.90            |
| DES 67-213     | 780           | 37.1            | 11.6          | 6.08                  | 1.13             | .54 | 17.65               | 7.00            | 4.61            |
| Stoneville 7A  | 778           | 37.7            | 11.8          | 5.96                  | 1.16             | .54 | 17.97               | 5.90            | 4.74            |
| Delcot 277     | 764           | 36.6            | 13.1          | 6.80                  | 1.21             | .59 | 20.50               | 8.17            | 4.02            |
| Coker 417      | 668           | 37.0            | 12.3          | 6.07                  | 1.21             | .58 | 19.26               | 6.51            | 4.44            |
| Coker 201      | 594           | 37.8            | 13.0          | 6.17                  | 1.15             | .55 | 18.11               | 6.31            | 4.72            |
| Paymaster 111  | 557           | 35.3            | 13.6          | 7.20                  | 1.07             | .54 | 18.74               | 6.10            | 4.59            |
| Acala SJ-1     | 501           | 35.5            | 15.0          | 7.12                  | 1.16             | .57 | 21.54               | 5.81            | 4.63            |

Planted: May 7, 1970

Harvested: November 25, 1970

Table 3. Results of 1970 cotton variety test - Stoneville, Mississippi - Sharley clay soil.

|                | LINT PER ACRE | Lint percent | Seed index | Boll size Grams | FIBER PROPERTIES |     |                  |            |             |
|----------------|---------------|--------------|------------|-----------------|------------------|-----|------------------|------------|-------------|
|                |               |              |            |                 | Length           |     | Strength gms/tex | Elongation | Micro-naire |
|                |               |              |            |                 | 2.5%             | 50% |                  |            |             |
| Deltapine 45A  | 466           | 39.4         | 10.3       | 4.78            | 1.09             | .54 | 19.27            | 8.37       | 4.88        |
| Deltapine 6225 | 438           | 40.3         | 10.3       | 4.72            | 1.13             | .56 | 20.47            | 7.32       | 4.89        |
| Deltapine 16   | 427           | 37.5         | 11.0       | 5.17            | 1.13             | .54 | 19.87            | 9.05       | 4.90        |
| Coker 310      | 403           | 37.8         | 11.9       | 5.41            | 1.21             | .57 | 19.62            | 6.56       | 4.87        |
| Stoneville 603 | 391           | 35.6         | 11.8       | 4.94            | 1.15             | .57 | 19.74            | 7.69       | 4.45        |
| Coker 201      | 372           | 38.5         | 11.5       | 5.17            | 1.13             | .55 | 20.10            | 6.53       | 4.78        |
| DES 67-213     | 370           | 37.1         | 10.9       | 4.95            | 1.16             | .57 | 17.44            | 7.99       | 4.59        |
| Coker 417      | 348           | 36.6         | 11.7       | 5.17            | 1.19             | .58 | 19.61            | 6.83       | 4.38        |
| Stoneville 7A  | 346           | 39.7         | 10.6       | 4.92            | 1.14             | .55 | 18.83            | 6.09       | 5.01        |
| Stoneville 213 | 311           | 37.6         | 11.1       | 5.12            | 1.12             | .55 | 18.60            | 7.14       | 4.94        |
| Delcort 277    | 311           | 36.0         | 13.2       | 5.53            | 1.19             | .59 | 20.46            | 9.08       | 4.19        |
| DES 217-11-11  | 307           | 36.0         | 11.6       | 5.61            | 1.16             | .58 | 19.18            | 6.78       | 4.72        |
| Acala SJ-1     | 269           | 35.1         | 14.7       | 5.59            | 1.17             | .61 | 25.49            | 6.65       | 4.63        |
| Paymaster 111  | 252           | 35.9         | 12.7       | 5.80            | 1.09             | .55 | 20.37            | 6.12       | 4.77        |

Planted: April 14, 1970

Harvested: October 5, 1970

Table 4. Results of 1970 Cotton Variety Test - Summer, Mississippi.

|                | LINT PER ACRE | Lint percent | Seed index | Boll size grams | FIBER PROPERTIES |     |                  | Micro-naire |            |
|----------------|---------------|--------------|------------|-----------------|------------------|-----|------------------|-------------|------------|
|                |               |              |            |                 | Length           |     | Strength gms/tex |             | Elongation |
|                |               |              |            |                 | 2.5%             | 50% |                  |             |            |
| Deltapine 6225 | 1359          | 40.8         | 11.3       | 5.51            | 1.14             | .57 | 17.78            | 7.61        | 4.66       |
| Deltapine 16   | 1357          | 39.9         | 11.7       | 6.44            | 1.17             | .59 | 17.51            | 8.67        | 4.81       |
| Stoneville 213 | 1356          | 39.2         | 11.8       | 6.27            | 1.13             | .57 | 17.25            | 7.82        | 4.90       |
| Coker 310      | 1345          | 38.7         | 12.2       | 5.96            | 1.23             | .58 | 18.32            | 7.56        | 4.46       |
| Deltapine 45A  | 1339          | 40.4         | 11.4       | 5.65            | 1.13             | .55 | 17.74            | 8.23        | 4.52       |
| Stoneville 7A  | 1329          | 39.7         | 11.3       | 6.00            | 1.15             | .56 | 17.87            | 7.18        | 4.81       |
| Coker 417      | 1320          | 38.1         | 12.1       | 6.17            | 1.20             | .60 | 18.21            | 7.03        | 4.28       |
| DES 67-213     | 1277          | 38.6         | 11.5       | 5.74            | 1.13             | .55 | 16.88            | 8.18        | 4.60       |
| Stoneville 603 | 1259          | 36.6         | 12.8       | 6.03            | 1.14             | .56 | 18.18            | 8.10        | 4.57       |
| Coker 201      | 1253          | 39.3         | 12.3       | 5.98            | 1.15             | .57 | 16.94            | 7.63        | 4.53       |
| DES 217-11-11  | 1252          | 37.9         | 12.2       | 5.78            | 1.16             | .57 | 18.28            | 7.62        | 4.55       |
| Delcot 277     | 1142          | 37.6         | 13.6       | 6.73            | 1.20             | .59 | 18.91            | 8.94        | 3.97       |
| Acala SJ-1     | 1007          | 35.6         | 14.5       | 6.73            | 1.19             | .60 | 21.42            | 7.49        | 4.21       |
| Paymaster 111  | 963           | 35.8         | 14.3       | 7.46            | 1.10             | .53 | 17.98            | 7.41        | 4.69       |

Planted: May 6, 1970

Harvested: November 24, 1970



Table 5. Results of 1970 Cotton Variety Test - Yazoo City, Mississippi.

|                    | LINT PER ACRE | Lint percent | Seed index | Boll size grams | FIBER PROPERTIES |     |                  |            | Micro-naire |
|--------------------|---------------|--------------|------------|-----------------|------------------|-----|------------------|------------|-------------|
|                    |               |              |            |                 | Length           |     | Strength gms/tex | Elongation |             |
|                    |               |              |            |                 | 2.5%             | 50% |                  |            |             |
| Deltapine 45A      | 1011          | 38.5         | 11.6       | 6.03            | 1.14             | .57 | 18.32            | 6.78       | 4.67        |
| Stoneville 213     | 1004          | 37.4         | 11.6       | 6.04            | 1.17             | .58 | 19.07            | 7.16       | 4.87        |
| DES 67-213         | 998           | 36.9         | 11.2       | 5.71            | 1.14             | .55 | 17.50            | 7.68       | 4.46        |
| Deltapine 16       | 997           | 38.0         | 11.4       | 6.42            | 1.20             | .59 | 18.82            | 8.39       | 4.91        |
| Coker 417          | 995           | 36.1         | 12.5       | 6.01            | 1.25             | .60 | 18.93            | 6.32       | 4.30        |
| Deltapine 6225     | 984           | 40.0         | 11.0       | 5.73            | 1.17             | .57 | 19.52            | 7.38       | 4.97        |
| Coker 310          | 955           | 38.2         | 12.4       | 6.16            | 1.25             | .62 | 18.55            | 6.62       | 4.66        |
| Stoneville 7A      | 932           | 37.6         | 11.8       | 5.77            | 1.20             | .59 | 18.29            | 6.46       | 4.67        |
| Coker 201          | 859           | 37.9         | 12.2       | 6.10            | 1.19             | .57 | 18.35            | 6.54       | 4.67        |
| Stoneville 7A Okra | 856           | 36.9         | 11.6       | 5.91            | 1.15             | .56 | 17.53            | 5.73       | 4.83        |
| Stoneville 603     | 854           | 34.9         | 12.9       | 6.08            | 1.18             | .60 | 19.24            | 7.38       | 4.37        |
| Acala SJ-1         | 784           | 35.2         | 14.1       | 7.28            | 1.18             | .61 | 22.36            | 6.93       | 4.40        |
| Delcot 277         | 780           | 36.0         | 13.3       | 6.66            | 1.24             | .62 | 19.97            | 7.80       | 4.17        |
| Paymaster 111      | 527           | 34.5         | 13.7       | 7.31            | 1.12             | .56 | 18.72            | 6.32       | 4.52        |

Planted: April 30, 1970  
Harvested: November 10, 1970

Table 6: Average performance of 13 cotton varieties grown at five locations in 1970

|                | Lint Per<br>Acre | Lint<br>Percent | Seed<br>Index | Boll<br>Size | FIBER PROPERTIES |                   |                                |      |
|----------------|------------------|-----------------|---------------|--------------|------------------|-------------------|--------------------------------|------|
|                |                  |                 |               |              | Length<br>2.5%   | Strength<br>g/tex | Elongation<br>E,<br>Micronaire |      |
| Deltapine 6225 | 1005             | 40.4            | 11.0          | 5.45         | 1.138            | 19.11             | 7.21                           | 4.90 |
| Deltapine 16   | 998              | 38.4            | 11.4          | 6.13         | 1.158            | 18.60             | 8.61                           | 4.82 |
| Deltapine 45A  | 989              | 39.0            | 11.4          | 5.67         | 1.130            | 18.52             | 7.68                           | 4.79 |
| Stoneville 213 | 953              | 38.3            | 11.5          | 5.93         | 1.130            | 18.26             | 7.22                           | 4.95 |
| Coker 310      | 943              | 38.1            | 12.1          | 5.99         | 1.216            | 18.67             | 6.95                           | 4.64 |
| Stoneville 7A  | 938              | 39.0            | 11.3          | 5.64         | 1.146            | 18.03             | 6.42                           | 4.87 |
| DES 67-213     | 934              | 37.6            | 11.2          | 5.64         | 1.134            | 17.33             | 7.68                           | 4.60 |
| Coker 417      | 898              | 36.9            | 12.1          | 5.88         | 1.208            | 18.97             | 6.78                           | 4.33 |
| Stoneville 603 | 898              | 35.9            | 12.5          | 5.81         | 1.152            | 19.31             | 7.61                           | 4.45 |
| Coker 201      | 862              | 38.4            | 12.2          | 5.91         | 1.148            | 18.32             | 6.76                           | 4.68 |
| Deltcot 277    | 824              | 36.5            | 13.2          | 6.50         | 1.206            | 20.15             | 8.60                           | 4.09 |
| Acala SJ-1     | 707              | 35.5            | 14.4          | 6.67         | 1.168            | 22.67             | 6.67                           | 4.52 |
| Paymaster 111  | 631              | 35.4            | 13.4          | 7.06         | 1.090            | 18.91             | 6.46                           | 4.66 |

Table 7: Cotton variety tests at three Delta locations (Stoneville, Yazoo City, Tunica) 1965-1970

|                                | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 6-Year  |  | 2-Year  |  |
|--------------------------------|------|------|------|------|------|------|---------|--|---------|--|
|                                |      |      |      |      |      |      | Average |  | Average |  |
| Stoneville, Miss. (Sandy Loam) |      |      |      |      |      |      | 1965-70 |  | 1969-70 |  |
| Deltapine 16                   | 1200 | 1014 | 1040 | 1198 | 851  | 1308 | 1102    |  | 1079    |  |
| Stoneville 213                 | 1231 | 1000 | 984  | 1154 | 893  | 1305 | 1094    |  | 1099    |  |
| Deltapine 45A                  | 1176 | 989  | 1004 | 1130 | 891  | 1285 | 1079    |  | 1088    |  |
| Stoneville 7A                  | 1281 | 924  | 939  | 1128 | 770  | 1304 | 1058    |  | 1037    |  |
| Coker 201                      | 1008 | 930  | 878  | 997  | 729  | 1230 | 962     |  | 979     |  |
| Delcot 277                     | --   | --   | --   | --   | 788  | 1122 | --      |  | 955     |  |
| Stoneville 603                 | --   | --   | --   | --   | 779  | 1127 | --      |  | 953     |  |
| Coker 417                      | --   | --   | --   | --   | 660  | 1157 | --      |  | 908     |  |
| Yazoo City, Miss.              |      |      |      |      |      |      |         |  |         |  |
| Stoneville 213                 | 1024 | 793  | 1117 | 1432 | 440  | 1004 | 968     |  | 722     |  |
| Stoneville 7A                  | 967  | 779  | 1094 | 1416 | 480  | 932  | 945     |  | 706     |  |
| Deltapine 16                   | 920  | 790  | 1114 | 1341 | 362  | 997  | 921     |  | 680     |  |
| Deltapine 45A                  | 903  | 769  | 1079 | 1259 | 377  | 1011 | 900     |  | 690     |  |
| Coker 201                      | 1083 | 745  | 1132 | 1238 | 323  | 859  | 897     |  | 591     |  |
| Coker 417                      | --   | --   | --   | --   | 387  | 995  | --      |  | 691     |  |
| Stoneville 603                 | --   | --   | --   | --   | 391  | 854  | --      |  | 622     |  |
| Delcot 277                     | --   | --   | --   | --   | 345  | 780  | --      |  | 562     |  |
| Tunica, Miss.                  |      |      |      |      |      |      |         |  |         |  |
| Deltapine 16                   | 926  | 1060 | 1010 | --   | 663  | 902  | 912     |  | 782     |  |
| Deltapine 45A                  | 934  | 992  | 995  | --   | 650  | 843  | 883     |  | 746     |  |
| Stoneville 213                 | 892  | 1009 | 969  | --   | 720  | 789  | 876     |  | 754     |  |
| Stoneville 7A                  | 847  | 1031 | 914  | --   | 719  | 778  | 858     |  | 748     |  |
| Coker 201                      | 826  | 935  | 1005 | --   | 669  | 594  | 806     |  | 631     |  |
| Stoneville 603                 | --   | --   | --   | --   | 711  | 861  | --      |  | 786     |  |
| Delcot 277                     | --   | --   | --   | --   | 575  | 764  | --      |  | 669     |  |
| Coker 417                      | --   | --   | --   | --   | 624  | 668  | --      |  | 646     |  |

Table 8: Cotton variety tests at two Delta locations (Summer and Stoneville) 1967-1970

| Summer, Miss.                        | 1967 | 1968 | 1969 | 1970 | 4-Year  |         | 2-Year  |         |
|--------------------------------------|------|------|------|------|---------|---------|---------|---------|
|                                      |      |      |      |      | Average | 1967-70 | Average | 1969-70 |
| Deltapine 45A                        | 1479 | 1151 | 1167 | 1339 | 1284    | 1253    | 1253    |         |
| Deltapine 16                         | 1514 | 1111 | 1151 | 1357 | 1283    | 1254    | 1254    |         |
| Stoneville 213                       | 1415 | 1135 | 1140 | 1356 | 1261    | 1248    | 1248    |         |
| Coker 201                            | 1510 | 1111 | 1111 | 1253 | 1246    | 1182    | 1182    |         |
| Stoneville 7A                        | 1391 | 1068 | 1070 | 1329 | 1214    | 1200    | 1200    |         |
| Coker 417                            | --   | --   | 1138 | 1320 | --      | 1229    | 1229    |         |
| Stoneville 603                       | --   | --   | 1106 | 1259 | --      | 1182    | 1182    |         |
| Delcot 277                           | --   | --   | 1012 | 1142 | --      | 1077    | 1077    |         |
| <u>Stoneville, Miss. (Clay Soil)</u> |      |      |      |      |         |         |         |         |
| Deltapine 45A                        | --   | 1081 | 758  | 466  | 768     | 612     | 612     |         |
| Deltapine 16                         | --   | 1056 | 757  | 427  | 747     | 592     | 592     |         |
| Stoneville 213                       | --   | 1034 | 742  | 311  | 695     | 526     | 526     |         |
| Stoneville 7A                        | --   | 986  | 596  | 346  | 643     | 471     | 471     |         |
| Coker 201                            | --   | 974  | 496  | 372  | 614     | 434     | 434     |         |
| Delcot 277                           | --   | --   | 704  | 311  | --      | 507     | 507     |         |
| Coker 417                            | --   | --   | 634  | 348  | --      | 491     | 491     |         |
| Stoneville 603                       | --   | --   | 524  | 391  | --      | 457     | 457     |         |

## COTTON TESTS IN HILL SECTION

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Performance of 15 cotton varieties was evaluated at seven locations in the Hill Section of Mississippi in 1970. Three varieties were tested for the first time. These were Deltapine 6225, produced by the Delta and Pine Land Company, Scott, Mississippi; Stoneville 603, produced by Stoneville Pedigreed Seed Company, Stoneville, Mississippi; and Frego, an experimental strain. Varieties which were previously tested, but omitted from the 1970 tests were Stoneville 508, Dunn 56C, and Hybee 200.

Insect infestation at all locations were generally light. Boll weevil populations did not reach damaging levels until late in the season. Bollworms and plant bugs caused some damage at some locations early in the season, but this damage was generally light.

Weather conditions were generally good throughout the growing season, and relatively high yields were obtained. Cool, wet weather delayed planting at some locations, but planting dates at all locations were still well within the optimum dates. Wet weather beginning at about the time of crop maturity delayed harvest two to six weeks at most locations and may have adversely affected yield at these locations.

Performance data for the 15 varieties tested in 1970 and three year averages of varieties tested during 1968-70 are given in the accompanying tables. Yield and yield components reported include, per acre, lint percentage, and boll size. Since once-over harvesting has become common at most locations for recent years, percent of the crops obtained at the first harvest, used as a measure of earliness of maturity, has been omitted from this report.

Classers staple length in 32nds inch micronaire were provided for each variety at each location by the U.S.D.A. Cotton Classing Office, Jackson, and are given in the tables. In addition, results of fiber analyses are given for two locations. Fiber data reported include strength in thousand pounds per square inch ten-fiftieths strength; 2.5% span length; and uniformity ratio.

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<sup>1</sup> Cotton variety testing is a cooperative project involving the Central Station at Stoneville, Mississippi, and branch stations at Mississippi State College and branch stations at Mississippi State College and Branch Experiment Stations at Verona, Holly Springs, Raymond, Pontotoc, and Brooksville.

ree year average lint yield of 12 cotton varieties tested at 7 locations in the 11 Section, 1968-70.

| Variety        | State College | Brooks-ville | Raymond | Pontotoc Ridge | Holly Springs |      | Verona* | Average |
|----------------|---------------|--------------|---------|----------------|---------------|------|---------|---------|
|                |               |              |         |                | Bottom        | Hill |         |         |
| Stoneville 213 | 886           | 796          | 1144    | 825            | 792           | 755  | 926     | 875     |
| Hancock        | 779           | 839          | 879     | 881            | 770           | 696  | 865     | 816     |
| Deltapine 16   | 805           | 714          | 1025    | 843            | 800           | 662  | 834     | 812     |
| Stoneville 7A  | 780           | 719          | 1000    | 816            | 761           | 714  | 864     | 808     |
| Dixie King II  | 715           | 773          | 946     | 877            | 729           | 700  | 796     | 791     |
| Coker 201      | 790           | 676          | 992     | 845            | 785           | 637  | 789     | 788     |
| Dybee 401      | 811           | 724          | 894     | 773            | 719           | 611  | 916     | 778     |
| Coker 310*     | 696           | 667          | 836     | 742            | 875           | 682  | 863     | 766     |
| Deltapine 45A  | 795           | 741          | 902     | 811            | 727           | 617  | 757     | 764     |
| McNair 1032B   | 762           | 655          | 907     | 782            | 727           | 654  | 742     | 747     |
| Coker 417*     | 639           | 625          | 819     | 745            | 808           | 672  | 872     | 740     |
| Mo-Del         | 659           | 691          | 890     | 755            | 685           | 597  | 743     | 717     |
| Average        | 760           | 718          | 936     | 808            | 765           | 666  | 831     | 784     |

Two year average 1969 and 1970.

Lint yield, in pounds per acre, of 15 cotton varieties tested at 7 locations in the 11 Section in 1970.

| Variety        | State College | Brooks-ville | Raymond | Pontotoc Ridge | Holly Springs |      | Verona | Average |
|----------------|---------------|--------------|---------|----------------|---------------|------|--------|---------|
|                |               |              |         |                | Bottom        | Hill |        |         |
| Stoneville 213 | 609           | 789          | 1072    | 873            | 845           | 741  | 1025   | 851     |
| Coker 310      | 611           | 816          | 973     | 904            | 1021          | 632  | 936    | 842     |
| Deltapine 16   | 644           | 702          | 1071    | 977            | 969           | 606  | 903    | 839     |
| Deltapine 6225 | 608           | 810          | 990     | 921            | 944           | 677  | 879    | 833     |
| Hancock        | 706           | 853          | 795     | 921            | 880           | 697  | 944    | 828     |
| Stoneville 603 | 514           | 913          | 924     | 925            | 858           | 683  | 944    | 823     |
| Coker 417      | 562           | 722          | 952     | 893            | 975           | 650  | 932    | 812     |
| Stoneville 7A  | 477           | 778          | 903     | 913            | 914           | 735  | 932    | 807     |
| Coker 201      | 650           | 728          | 989     | 982            | 823           | 585  | 855    | 802     |
| Dixie King II  | 364           | 824          | 873     | 944            | 840           | 734  | 859    | 777     |
| Dybee 401      | 630           | 751          | 915     | 848            | 816           | 571  | 880    | 773     |
| McNair 1032B   | 408           | 731          | 833     | 969            | 871           | 673  | 820    | 758     |
| Deltapine 45A  | 604           | 786          | 832     | 929            | 804           | 534  | 776    | 752     |
| Mo-Del         | 452           | 786          | 915     | 789            | 754           | 617  | 721    | 719     |
| Frego          | 494           | 772          | 686     | 536            | --            | --   | 695    | 637     |
| Average        | 555           | 784          | 914     | 888            | 879           | 613  | 873    | 790     |

Cotton variety performance at the Black Belt Branch Experiment Station, Brooksville in 1970.

| Black Belt<br>Variety | Lint/<br>Acre | Lint % | Bolls/lb. |           | Fiber Property |    |
|-----------------------|---------------|--------|-----------|-----------|----------------|----|
|                       |               |        | Seed      | Cot. Lint | Staple         | M  |
|                       | Lbs.          | %      | No.       | No.       | 1/32 in.       | In |
| Stoneville            | 913           | 37.4   | 77        | 212       | 34             | 5  |
| Hancock               | 852           | 37.9   | 63        | 241       | 34             | 7  |
| Dixie King II         | 824           | 37.7   | 57        | 150       | 34             | 6  |
| Coker 310             | 816           | 38.8   | 77        | 198       | 35             | 5  |
| Deltapine 6225        | 810           | 39.1   | 80        | 202       | 34             | 6  |
| Stoneville 213        | 789           | 37.5   | 72        | 193       | 35             | 8  |
| Deltapine 45A         | 786           | 37.9   | 77        | 207       | 34             | 8  |
| Mo-Del                | 786           | 35.2   | 67        | 193       | 34             | 7  |
| Stoneville 7A         | 778           | 38.1   | 73        | 192       | 35             | 8  |
| Frego                 | 772           | 35.6   | 73        | 210       | 34             |    |
| Hybee 401             | 751           | 37.3   | 77        | 210       | 34             |    |
| McNair 1032B          | 731           | 37.1   | 82        | 218       | 34             |    |
| Coker 201             | 728           | 38.8   | 70        | 183       | 35             |    |
| Coker 417             | 722           | 36.3   | 68        | 193       | 35             | 3  |
| Deltapine 16          | 702           | 35.3   | 77        | 218       | 35             | 1  |
| Average               | 784           | 37.3   | 72        | 201       | 34.4           |    |
| L.S.D. @ .05          | 166           |        |           |           |                |    |
| @ .01                 | 218           |        |           |           |                |    |
| C.V.                  | 5.9%          |        |           |           |                |    |

Three year averages, Black Belt Branch Experiment Station, Brooksville, in 1970.

| Variety        | Lint/<br>Acre | Lint % | Bolls/lb. |           | Fiber Property |    |
|----------------|---------------|--------|-----------|-----------|----------------|----|
|                |               |        | Seed      | Cot. Lint | Staple         | M  |
|                | Lbs.          | %      | No.       | No.       | 1/32 in.       | In |
| Hancock        | 839           | 38.6   | 71        | 208       | 33             | 6  |
| Stoneville 213 | 796           | 38.4   | 84        | 219       | 34             | 8  |
| Dixie King II  | 773           | 38.2   | 68        | 177       | 34             | 5  |
| Deltapine 45A  | 741           | 38.5   | 87        | 226       | 34             | 6  |
| Hybee 401      | 724           | 37.9   | 82        | 217       | 34             | 7  |
| Stoneville 7A  | 719           | 38.5   | 85        | 221       | 35             | 8  |
| Deltapine 16   | 714           | 37.6   | 85        | 225       | 34             | 3  |
| Mo-Del         | 691           | 36.0   | 74        | 207       | 34             | 6  |
| Coker 201      | 676           | 39.3   | 83        | 211       | 34             | 4  |
| Coker 310*     | 667           | 41.6   | 87        | 209       | 35             | 2  |
| McNair 1032B   | 655           | 37.6   | 90        | 238       | 34             | 7  |
| Coker 417*     | 625           | 37.5   | 82        | 221       | 35             | 1  |
| Average        | 718           | 38.3   | 82        | 215       | 34             | 5  |

\* Two year average, 1969 and 1970.

Cotton variety performance at the Northeast Mississippi Branch Experiment Station, Verona, in 1970.

| Variety       | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties |       |
|---------------|---------------|--------|-----------|------|------------------|-------|
|               |               |        | Seed Cot. | Lint | Staple           | Mike  |
|               | Lbs.          | %      | No.       | No.  | 1/32 in.         | Index |
| Geneville 213 | 1025          | 38.7   | 83        | 215  | 34.3             | 4.7   |
| Hickock       | 944           | 38.5   | 73        | 192  | 34.0             | 4.3   |
| Geneville 603 | 944           | 36.6   | 83        | 228  | 35.0             | 4.5   |
| Ger 310       | 936           | 37.9   | 85        | 230  | 35.3             | 4.1   |
| Geneville 7A  | 932           | 40.2   | 85        | 212  | 34.3             | 4.7   |
| Ger 417       | 932           | 36.9   | 80        | 218  | 35.3             | 4.1   |
| Mapine 16     | 903           | 37.9   | 83        | 228  | 35.0             | 4.3   |
| See 401       | 880           | 38.2   | 83        | 220  | 34.3             | 4.2   |
| Mapine 6225   | 879           | 40.2   | 87        | 217  | 35.0             | 4.7   |
| Lie King II   | 859           | 36.6   | 58        | 165  | 34.0             | 4.5   |
| Ger 201       | 855           | 39.8   | 80        | 207  | 35.0             | 4.3   |
| Nair 1032B    | 820           | 37.5   | 93        | 250  | 34.3             | 4.3   |
| Mapine 45A    | 776           | 36.8   | 83        | 228  | 34.3             | 4.8   |
| Del           | 721           | 35.2   | 73        | 212  | 34.7             | 4.6   |
| Go            | 695           | 35.6   | 80        | 232  | 34.0             | 4.5   |
| Average       | 860           | 37.7   | 80        | 216  | 34.5             | 4.4   |
| S.D. @ .05    | 147           |        |           |      |                  |       |
| @ .01         | 193           |        |           |      |                  |       |
|               | 14.8%         |        |           |      |                  |       |

Year averages, Northeast Branch Experiment Station, Verona, 1969 and 1970.

| Variety       | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties |       |
|---------------|---------------|--------|-----------|------|------------------|-------|
|               |               |        | Seed Cot. | Lint | Staple           | Mike  |
|               | Lbs.          | %      | No.       | No.  | 1/32 in.         | Index |
| Geneville 213 | 926           | 39.3   | 82        | 209  | 34.5             | 5.0   |
| See 401       | 916           | 39.3   | 81        | 207  | 34.5             | 4.7   |
| Ger 417       | 872           | 37.6   | 80        | 212  | 35.0             | 4.4   |
| Hickock       | 865           | 39.6   | 72        | 184  | 33.8             | 4.6   |
| Geneville 7A  | 864           | 40.1   | 84        | 209  | 34.5             | 4.9   |
| Ger 310       | 863           | 39.2   | 82        | 213  | 35.2             | 4.4   |
| Mapine 16     | 834           | 38.9   | 86        | 224  | 35.2             | 4.5   |
| Lie King II   | 796           | 37.7   | 61        | 165  | 34.0             | 4.8   |
| Ger 201       | 789           | 40.5   | 77        | 193  | 34.7             | 4.7   |
| Mapine 45A    | 757           | 38.3   | 82        | 216  | 34.3             | 5.0   |
| Del           | 743           | 36.5   | 72        | 199  | 34.9             | 4.9   |
| Nair 1032B    | 742           | 38.2   | 89        | 233  | 34.5             | 4.5   |
| Average       | 831           | 38.8   | 79        | 205  | 34.6             | 4.7   |





Three year averages, Central Station, State College, 1968-70.

| Variety        | Lint/<br>Acre | Lint % | Bolls/lb. |      | Staple   | Fiber Properties |          |           | U.R. |
|----------------|---------------|--------|-----------|------|----------|------------------|----------|-----------|------|
|                |               |        | Seed Cot. | Lint |          | Mike             | Strength | 2.5% Span |      |
|                | Lbs.          | %      | No.       | No.  | 1/32 in. | Index            | M.P.S.I. | In.       | %    |
| Stoneville 213 | 886           | 38.1   | 77        | 206  | 34.4     | 4.7              | 84       | 1.14      | 48   |
| Hybee 401      | 812           | 39.0   | 77        | 199  | 34.5     | 4.5              | 86       | 1.13      | 47   |
| Deltapine 16   | 805           | 37.6   | 78        | 209  | 34.8     | 4.3              | 78       | 1.15      | 46   |
| Deltapine 45A  | 795           | 38.5   | 76        | 200  | 34.3     | 4.6              | 84       | 1.12      | 48   |
| Coker 201      | 790           | 39.3   | 76        | 194  | 34.1     | 4.4              | 87       | 1.12      | 47   |
| Stoneville 7A  | 780           | 37.9   | 79        | 210  | 34.9     | 4.6              | 89       | 1.17      | 46   |
| Hancock        | 779           | 38.9   | 70        | 181  | 33.4     | 4.2              | 88       | 1.08      | 46   |
| McNair         | 762           | 37.8   | 79        | 213  | 34.0     | 4.7              | 90       | 1.08      | 48   |
| Dixie King II  | 715           | 37.7   | 63        | 169  | 33.7     | 4.2              | 87       | 1.10      | 46   |
| Coker 310*     | 696           | 38.2   | 81        | 2.4  | 35.7     | 4.4              | 87       | 1.20      | 47   |
| Mo-Del         | 659           | 36.0   | 70        | 195  | 34.4     | 4.1              | 88       | 1.12      | 48   |
| Coker 417*     | 639           | 36.8   | 77        | 214  | 35.0     | 4.2              | 90       | 1.17      | 46   |
| Average        | 759           | 37.9   | 75        | 200  | 34.4     | 4.4              | 86       | 1.13      | 46   |

\* Two year average, 1969 and 1970.



Three year averages, Brown Loam Branch Experiment Station, Raymond, 1968-70.

| Variety        | Lint/<br>Acre | Lint % | Bolls/lb. |      | Staple   | Mike  | Fiber Properties |           | U.R. |
|----------------|---------------|--------|-----------|------|----------|-------|------------------|-----------|------|
|                |               |        | Seed Cot. | Lint |          |       | Strength         | 2.5% Span |      |
|                | Lbs.          | %      | No.       | No.  | 1/32 in. | Index | M.P.S.I.         | In.       | %    |
| Stoneville 213 | 1144          | 39.5   | 80        | 203  | 33.5     | 5.0   | 88               | 1.08      | 49   |
| Deltapine 16   | 1025          | 39.7   | 78        | 200  | 34.0     | 4.8   | 85               | 1.08      | 48   |
| Stoneville 7A  | 1000          | 39.3   | 84        | 214  | 33.5     | 5.1   | 92               | 1.09      | 47   |
| Coker 201      | 992           | 40.7   | 76        | 189  | 33.8     | 5.2   | 90               | 1.06      | 48   |
| Dixie King II  | 946           | 37.3   | 69        | 186  | 33.8     | 5.0   | 87               | 1.05      | 49   |
| McNair 1032B   | 907           | 37.5   | 81        | 219  | 33.3     | 4.9   | 91               | 1.06      | 49   |
| Deltapine 45A  | 902           | 38.6   | 78        | 205  | 33.7     | 5.0   | 85               | 1.05      | 50   |
| Hybee 401      | 894           | 38.8   | 73        | 190  | 33.9     | 5.1   | 91               | 1.07      | 48   |
| Mo-Del         | 890           | 37.4   | 71        | 191  | 34.1     | 5.0   | 89               | 1.08      | 49   |
| Hancock        | 879           | 40.1   | 76        | 192  | 33.1     | 4.9   | 88               | 1.04      | 48   |
| Coker 310*     | 836           | 39.5   | 81        | 208  | 34.2     | 4.8   | 89               | 1.14      | 49   |
| Coker 417*     | 819           | 36.9   | 82        | 224  | 33.8     | 4.6   | 91               | 1.11      | 49   |
| Average        | 936           | 38.7   | 77        | 201  | 33.7     | 4.9   | 88               | 1.07      | 48   |

\* Two year average, 1969 and 1970.

Cotton variety performance at the North Mississippi Branch Experiment Station, Holly Springs, on hill land, 1970.

| North Mississippi,<br>Hill Land | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties<br>Staple |
|---------------------------------|---------------|--------|-----------|------|----------------------------|
|                                 |               |        | Seed Cot. | Lint |                            |
|                                 | Lbs.          | %      | No.       | No.  | 1/32 in.                   |
| Stoneville 213                  | 741           | 43.2   | 77        | 182  | 33.7                       |
| Stoneville 7A                   | 735           | 43.6   | 80        | 182  | 34.3                       |
| Dixie King II                   | 734           | 48.6   | 67        | 142  | 33.3                       |
| Hancock                         | 697           | 44.5   | 73        | 170  | 33.3                       |
| Stoneville 603                  | 683           | 40.3   | 88        | 218  | 34.3                       |
| Deltapine 6225                  | 677           | 44.5   | 88        | 198  | 34.3                       |
| McNair 1032B                    | 673           | 42.6   | 83        | 197  | 33.3                       |
| Coker 417                       | 650           | 42.2   | 75        | 182  | 34.3                       |
| Coker 310                       | 632           | 43.9   | 75        | 172  | 34.3                       |
| Mo-Del                          | 617           | 40.3   | 73        | 183  | 34.3                       |
| Deltapine 16                    | 606           | 43.3   | 82        | 188  | 34.3                       |
| Coker 201                       | 585           | 43.9   | 85        | 197  | 34.3                       |
| Hybee 401                       | 571           | 42.5   | 80        | 188  | 34.0                       |
| Deltapine 45A                   | 534           | 42.1   | 82        | 197  | 34.0                       |
| Average                         | 653           | 43.3   | 79        | 185  | 34.0                       |
| L.S.D. @ .05                    | 88            |        |           |      |                            |
| @ .01                           | 116           |        |           |      |                            |
| C.V.                            | 11.8%         |        |           |      |                            |

Three year averages, North Mississippi Branch Experiment Station, Holly Springs, on hill land, 1968-70.

| Variety        | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties<br>Staple |
|----------------|---------------|--------|-----------|------|----------------------------|
|                |               |        | Seed Cot. | Lint |                            |
|                | Lbs.          | %      | No.       | No.  | 1/32 in.                   |
| Stoneville 213 | 755           | 41.9   | 84        | 202  | 34.0                       |
| Stoneville 7A  | 714           | 41.5   | 86        | 208  | 34.0                       |
| Dixie King II  | 700           | 43.1   | 72        | 172  | 33.0                       |
| Hancock        | 696           | 43.0   | 79        | 188  | 33.0                       |
| Coker 310*     | 682           | 42.8   | 54        | 130  | 34.7                       |
| Coker 417*     | 672           | 41.2   | 79        | 190  | 34.2                       |
| Deltapine 16   | 662           | 41.8   | 85        | 204  | 33.6                       |
| McNair 1032B   | 654           | 41.1   | 91        | 220  | 33.2                       |
| Coker 201      | 637           | 42.9   | 90        | 210  | 33.4                       |
| Deltapine 45A  | 617           | 41.3   | 90        | 219  | 33.4                       |
| Hybee 401      | 611           | 39.6   | 88        | 224  | 33.7                       |
| Mo-Del         | 597           | 39.2   | 80        | 205  | 33.8                       |
| Average        | 666           | 41.6   | 81        | 179  | 33.6                       |

\* Two year average, 1969 and 1970.

on variety performance at the North Mississippi Branch Experiment Station, Holly Springs, on bottom land in 1970.

| North Mississippi,<br>Bottom Land | Lint<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties |       |
|-----------------------------------|--------------|--------|-----------|------|------------------|-------|
|                                   |              |        | Seed Cot. | Lint | Staple           | Mike  |
|                                   | Lbs.         | %      | No.       | No.  | 1/32 in.         | Index |
| Cor 310                           | 1021         | 42.6   | 75        | 183  | 35.0             | 4.9   |
| Cor 417                           | 975          | 40.7   | 75        | 185  | 34.8             | 5.0   |
| Deapine 16                        | 969          | 39.6   | 67        | 180  | 35.7             | 4.2   |
| Deapine 6225                      | 944          | 40.1   | 77        | 192  | 35.0             | 4.8   |
| Steeville 7A                      | 914          | 39.2   | 55        | 145  | 34.0             | 4.8   |
| Hack                              | 880          | 37.3   | 68        | 185  | 35.0             | 4.5   |
| Muir 1032B                        | 871          | 39.0   | 85        | 220  | 34.3             | 4.6   |
| Steeville 603                     | 858          | 40.7   | 70        | 175  | 34.8             | 4.9   |
| Steeville 213                     | 845          | 39.8   | 76        | 187  | 34.9             | 4.8   |
| Die King II                       | 840          | 40.3   | 64        | 163  | 34.0             | 4.3   |
| Cor 201                           | 823          | 40.3   | 78        | 195  | 34.5             | 4.9   |
| Hye 401                           | 816          | 37.4   | 73        | 198  | 35.3             | 4.3   |
| Deapine 45A                       | 804          | 40.8   | 78        | 190  | 34.8             | 4.7   |
| Model                             | 754          | 40.2   | 77        | 190  | 35.3             | 4.9   |
| Average                           | 880          | 39.9   | 73        | 185  | 34.8             | 4.7   |
| D. 3 .05                          | 150          |        |           |      |                  |       |
| @ .01                             | 197          |        |           |      |                  |       |
|                                   | 15.2%        |        |           |      |                  |       |

Year averages, North Mississippi Branch Experiment Station, Holly Springs, on bottom land, 1968-70.

| Variety       | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties |       |
|---------------|---------------|--------|-----------|------|------------------|-------|
|               |               |        | Seed Cot. | Lint | Staple           | Mike  |
|               | Lbs.          | %      | No.       | No.  | 1/32 in.         | Index |
| Cor 310*      | 875           | 40.9   | 80        | 200  | 35.0             | 4.9   |
| Cor 417*      | 808           | 39.2   | 78        | 201  | 34.8             | 4.7   |
| Deapine 16    | 800           | 39.3   | 72        | 188  | 34.5             | 4.7   |
| Steeville 213 | 792           | 39.2   | 82        | 208  | 34.3             | 4.8   |
| Cor 201       | 785           | 41.7   | 79        | 190  | 34.0             | 5.0   |
| Hack          | 770           | 38.8   | 71        | 185  | 33.9             | 4.5   |
| Steeville 7A  | 761           | 38.8   | 76        | 197  | 34.1             | 4.9   |
| Die King II   | 729           | 39.3   | 68        | 174  | 33.7             | 4.7   |
| Deapine 45A   | 727           | 39.2   | 82        | 208  | 34.1             | 4.9   |
| Muir 1032B    | 727           | 38.8   | 84        | 219  | 33.7             | 4.8   |
| Hye 401       | 719           | 38.7   | 77        | 199  | 34.2             | 4.8   |
| Model         | 685           | 38.6   | 78        | 201  | 34.3             | 4.8   |
| Average       | 765           | 39.3   | 77        | 197  | 34.2             | 4.7   |

Two year average, 1969 and 1970.

Cotton variety performance at the Pontotoc Branch Experiment Station, Pontotoc, on ridge soil, in 1970.

| Pontotoc, Ridge<br>Variety | Lint/<br>Acre | Lint % | Bolls/lb. |      | Fiber Properties<br>Staple |
|----------------------------|---------------|--------|-----------|------|----------------------------|
|                            |               |        | Seed Cot. | Lint |                            |
|                            | Lbs.          | %      | No.       | No.  | 1/32 in.                   |
| Coker 201                  | 982           | 42.7   | 71        | 165  | 34.0                       |
| Deltapine 16               | 977           | 42.9   | 75        | 174  | 34.0                       |
| McNair 1032B               | 969           | 41.5   | 77        | 186  | 33.0                       |
| Dixie King II              | 944           | 42.0   | 56        | 133  | 33.3                       |
| Deltapine 45A              | 929           | 42.1   | 76        | 179  | 33.7                       |
| Stoneville 603             | 925           | 40.2   | 75        | 186  | 34.0                       |
| Deltapine 6225             | 921           | 44.4   | 78        | 175  | 34.0                       |
| Hancock                    | 921           | 43.4   | 66        | 152  | 33.0                       |
| Stoneville 7A              | 913           | 42.6   | 75        | 177  | 34.0                       |
| Coker 310                  | 904           | 41.2   | 71        | 173  | 34.0                       |
| Coker 417                  | 893           | 41.5   | 69        | 167  | 34.0                       |
| Stoneville 213             | 873           | 42.3   | 72        | 172  | 33.7                       |
| Hybee 401                  | 848           | 41.6   | 70        | 167  | 33.7                       |
| Mo-Del                     | 789           | 39.9   | 66        | 164  | 34.0                       |
| Frego                      | 536           | 38.2   | 81        | 212  | 34.0                       |
| Average                    | 888           | 41.8   | 72        | 172  | 33.8                       |
| L.S.D. .05                 | 105           |        |           |      |                            |
| .01                        | 138           |        |           |      |                            |
| C.V.                       | 10.4%         |        |           |      |                            |

Three year averages, Pontotoc Branch Experiment Station, Pontotoc, on ridge soil, 1968-70.

| Variety        | Lbs. | Lint % | Bolls/lb. |      | Fiber Properties<br>Staple |
|----------------|------|--------|-----------|------|----------------------------|
|                |      |        | Seed Cot. | Lint |                            |
|                | Lbs. | %      | No.       | No.  | 1/32 in.                   |
| Hancock        | 881  | 42.3   | 71        | 171  | 33.9                       |
| Dixie King II  | 877  | 41.2   | 65        | 157  | 33.1                       |
| Coker 201      | 845  | 41.5   | 78        | 187  | 33.3                       |
| Deltapine 16   | 845  | 41.3   | 77        | 188  | 33.7                       |
| Stoneville 603 | 825  | 41.3   | 79        | 191  | 33.6                       |
| Stoneville 7A  | 815  | 41.9   | 81        | 198  | 33.7                       |
| Deltapine 45A  | 811  | 41.5   | 79        | 192  | 33.1                       |
| Hybee 401      | 783  | 40.1   | 74        | 183  | 33.6                       |
| McNair 1032B   | 775  | 40.1   | 83        | 209  | 33.2                       |
| Mo-Del         | 765  | 38.4   | 72        | 188  | 33.4                       |
| Coker 417 *    | 745  | 39.8   | 79        | 199  | 34.2                       |
| Coker 310 *    | 745  | 39.1   | 83        | 207  | 34.2                       |
| Average        | 808  | 40.7   | 76        | 189  | 33.5                       |

\* Two year average, 1969 and 1970.