

**Tifton, Georgia:**  
**Cotton Strains Performance, 2006, Irrigated**

| Variety                                      | Lint Yield<br>lb/acre | Lint<br>%   | Uniformity        |             | Strength*<br>g/tex | Micronaire* |
|--|-----------------------|-------------|-------------------|-------------|--------------------|-------------|
|  |                       |             | Index*            | Length*     |                    |             |
|  |                       |             | %                 | inches      |                    | units       |
| <u>Earlier Maturity</u>                      |                       |             |                   |             |                    |             |
| GA2004303                                    | <b>1976</b>           | 42.7        | 83.5              | 1.15        | 31.1               | 5.0         |
| FMX0643B2F                                   | 1664                  | 42.4        | 83.9              | 1.19        | 33.1               | 4.0         |
| GA2004232                                    | 1654                  | 47.0        | 84.6              | 1.20        | 32.8               | 4.4         |
| FMX06451LLB2                                 | 1650                  | 41.4        | 84.1              | 1.18        | 31.1               | 4.4         |
| DX34102-17                                   | 1595                  | 45.2        | 83.8              | 1.17        | 30.2               | 4.7         |
| DX44708                                      | 1571                  | 43.7        | 83.5              | 1.14        | 29.0               | 4.6         |
| ST5283RF                                     | 1544                  | 42.7        | 83.9              | 1.11        | 30.7               | 4.3         |
| ST5327B2RF                                   | 1517                  | 42.8        | 84.1              | 1.15        | 30.2               | 4.3         |
| DX34909                                      | 1477                  | 40.3        | 84.9              | 1.21        | 29.6               | 5.1         |
| DX34109-5                                    | 1448                  | 44.2        | 84.6              | 1.18        | 32.3               | 4.1         |
| GA2004263                                    | 1416                  | 43.5        | 84.9              | 1.20        | 30.2               | 4.7         |
| xBCG-3220B2F                                 | 1390                  | 38.6        | 83.5              | 1.14        | 31.1               | 4.2         |
| xBCG-6950B2F                                 | 1283                  | 36.7        | 84.2              | 1.16        | 28.5               | 4.5         |
| xBCG-3552B2F                                 | 1215                  | 38.4        | 83.0              | 1.16        | 29.7               | 4.0         |
| xBCG-3001B2F                                 | 1201                  | 36.0        | 82.5              | 1.14        | 28.9               | 3.6         |
| <i>Average</i>                               | <i>1507</i>           | <i>41.7</i> | <i>83.9</i>       | <i>1.16</i> | <i>30.6</i>        | <i>4.4</i>  |
| <u>Later Maturity</u>                        |                       |             |                   |             |                    |             |
| GA2004371                                    | <b>1919</b>           | 45.2        | 85.0              | 1.16        | 31.4               | 4.8         |
| GA2004392                                    | 1734                  | 41.7        | 84.6              | 1.12        | 31.0               | 4.9         |
| FM 1800LL                                    | 1725                  | 44.3        | 83.0              | 1.13        | 32.3               | 4.6         |
| GA2004356                                    | 1560                  | 43.5        | 84.4              | 1.18        | 31.5               | 4.4         |
| FM 1880B2F                                   | 1541                  | 40.2        | 84.2              | 1.17        | 30.8               | 4.2         |
| CS47   | 1460                  | 40.2        | 83.6              | 1.17        | 32.1               | 4.2         |
| CS48   | 1233                  | 39.6        | 84.0              | 1.11        | 29.7               | 4.4         |
| CS46   | 1202                  | 40.0        | 83.4              | 1.13        | 31.8               | 4.4         |
| CS51RF                                       | 1101                  | 38.3        | 84.6              | 1.17        | 31.8               | 4.3         |
| <i>Average</i>                               | <i>1497</i>           | <i>41.4</i> | <i>84.1</i>       | <i>1.15</i> | <i>31.4</i>        | <i>4.5</i>  |
| <i>Overall test averages and statistics:</i> |                       |             |                   |             |                    |             |
| Average                                      | 1503                  | 41.6        | 84.0              | 1.16        | 30.8               | 4.4         |
| LSD 0.10                                     | 161                   | 1.1         | N.S. <sup>1</sup> | 0.04        | 1.8                | 0.3         |
| CV %   | 9.1                   | 2.2         | 0.8               | 1.95        | 3.3                | 4.2         |

\* A random quality sample was taken on the picker during cotton harvest.

1. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, an LSD

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: April 24, 2006.

Harvested: September 18, 2006.

Soil Type: Tifton sandy loam.

Fertilization: 98 lb N, 54 lb P<sub>2</sub>O<sub>5</sub>, and 188 lb K<sub>2</sub>O/acre.

Management: Temik 15G applied 5 lb/acre and Telone II applied 3 gal/acre.

|                  | May  | June | July | Aug. | Sept. |
|------------------|------|------|------|------|-------|
| Rainfall (in):   | 3.72 | 5.19 | 2.59 | 7.30 | 3.37  |
| Irrigation (in): | 0.50 | 0.0  | 3.50 | 1.00 | 0.0   |

Trials conducted by Larry Thompson.