

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Maricopa, AZ (MAC)

Planting Date: 9 April 2007      Final Irrigation Date: 31 Aug. 2007      Harvest Date: 26 Nov. 2007  
 Total Irrigations: 12      Total N Applied: 190 lbs/A      General Soil Texture: Loam

| Company                          | Variety           | Lint Yield<br>(lbs/Acre) | Percent<br>Lint | Fiber Quality |                             |                             |                              |                     |     | Premium/<br>Discount <sup>5</sup><br>(Points) | Value <sup>6</sup><br>(\$/Acre) |
|----------------------------------|-------------------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|-----|---|---------------------------------|
|                                  |                   |                          |                 | Micronaire    | Fiber<br>Length<br>(100ths) | Staple<br>Length<br>(32nds) | Fiber<br>Strength<br>(g/tex) | Uniformity<br>Index |     |   |                                 |
| Delta and Pine                   | DP 164 B2RF       | 2279 a <sup>1</sup>      | 32.9 de         | 4.3 def       | 1.15 ab                     | 37.2 a                      | 30.7 cd                      | 81.0 e              | 510 | 1014  |                                 |
| Delta and Pine                   | DP 449 BR         | 2271 a                   | 33.7 cd         | 4.8 ab        | 1.14 ab                     | 36.5 ab                     | 31.3 bc                      | 82.7 ab             | 490 | 1021  |                                 |
| Stoneville                       | ST 5327 B2RF      | 2268 a                   | 35.3 ab         | 4.7 bc        | 1.13 ab                     | 36.2 ab                     | 32.3 ab                      | 82.8 ab             | 313 | 1010  |                                 |
| Dow AgroSciences                 | PHY 370 WR        | 2264 a                   | 35.4 ab         | 5.0 a         | 1.09 c                      | 34.7 c                      | 30.3 cde                     | 81.9 a-e            | 150 | 974   |                                 |
| Delta and Pine                   | DP 455 B2RF       | 2259 ab                  | 36.6 a          | 4.6 bcd       | 1.14 ab                     | 36.5 ab                     | 31.3 bc                      | 81.6 b-e            | 542 | 1066  |                                 |
| Stoneville                       | ST 4554 B2RF      | 2251 ab                  | 34.8 bc         | 4.7 abc       | 1.13 ab                     | 36.0 b                      | 31.8 b                       | 82.6 abc            | 338 | 1026  |                                 |
| Alltex                           | APEX B2RF         | 2190 abc                 | 33.5 cd         | 4.5 b-e       | 1.12 abc                    | 36.0 b                      | 28.5 f                       | 81.3 de             | 417 | 916   |                                 |
| Americot                         | AM 1532 B2RF      | 2167 abc                 | 32.6 de         | 4.5 b-e       | 1.14 ab                     | 36.5 ab                     | 30.2 cde                     | 83.0 a              | 270 | 935   |                                 |
| Alltex                           | ALLTEX 55066 B2RF | 2119 abc                 | 33.0 d          | 4.4 cde       | 1.15 ab                     | 36.7 ab                     | 29.9 de                      | 82.8 ab             | 340 | 920   |                                 |
| Americot                         | AM 1504 B2RF      | 2080 bcd                 | 32.2 def        | 4.2 ef        | 1.11 bc                     | 35.7 b                      | 29.5 e                       | 82.4 a-d            | 513 | 942   |                                 |
| Stoneville                       | ST 4427 B2RF      | 2029 cd                  | 30.9 f          | 4.6 bcd       | 1.12 abc                    | 26.2 ab                     | 29.7 de                      | 82.1 a-e            | 268 | 844   |                                 |
| Alltex                           | SUMMIT B2RF       | 2023 abc                 | 31.3 ef         | 4.0 f         | 1.13 ab                     | 36.0 b                      | 29.7 de                      | 81.4 cde            | 460 | 925   |                                 |
| Dow AgroSciences                 | PHY 745 WRF       | 1918 d                   | 32.9 de         | 4.4 b-e       | 1.15 ab                     | 36.7 ab                     | 33.1 a                       | 83.2 a              | 300 | 860   |                                 |
| LSD <sub>0.05</sub> <sup>2</sup> |                   | 158.9                    | 1.49            | 0.29          | 0.028                       | 1.058                       | 0.999                        | 1.11                |     |   |                                 |
| OSL <sup>3</sup>                 |                   | 0.0002                   | 0.0001          | 0.0001        | 0.0133                      | 0.0108                      | 0.0001                       | 0.0019              |     |   |                                 |
| CV (%) <sup>4</sup>              |                   | 5.14                     | 3.1             | 4.42          | 1.71                        | 2.02                        | 2.25                         | 0.94                |     |   |                                 |

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.