

**Grower / Cooperator:** Dennis Bagnall Farms, Coolidge, AZ  
**Planting Date:** 14 April 2010  
**Harvest Date:** 12 October 2010

**Final Irrigation:** 20 August 2010  
**Soil Type:** Denure Sandy Loam, Mohall Loam

Table. Lint yield and fiber quality results from the Bayer CropScience Cotton Agronomic Performance (CAP) Trial, Coolidge, AZ, 2010.

| Seed Company      | Variety     | Lint Yield<br>lbs/acre | Means<br>Separation * | Lint<br>Turnout<br>Percent | HVI<br>Color | Staple<br>32nds | Strength<br>g/tex | Length<br>Inches | Uniformity<br>Percent | Micronaire | Leaf<br>Grade | Premium<br>cent/lb | Value<br>\$/acre |
|-------------------|-------------|------------------------|-----------------------|----------------------------|--------------|-----------------|-------------------|------------------|-----------------------|------------|---------------|--------------------|------------------|
| Bayer CropScience | BCSX1030B2F | 1610.2                 | a                     | 36.1                       | 21           | 37              | 27.6              | 1.14             | 81.6                  | 4.4        | 2             | 4.9                | \$915.41         |
| Bayer CropScience | ST4498B2F   | 1604.6                 | a                     | 34.9                       | 21           | 37              | 30.3              | 1.15             | 83.3                  | 4.6        | 2             | 5.5                | \$922.10         |
| Bayer CropScience | FM9170B2F   | 1552.9                 | a b                   | 35.7                       | 21           | 38              | 29.3              | 1.19             | 82.2                  | 4.3        | 2             | 5.1                | \$885.87         |
| Bayer CropScience | ST5458B2F   | 1540.1                 | a b                   | 34.8                       | 21           | 37              | 30.1              | 1.15             | 81.2                  | 4.5        | 2             | 5.0                | \$877.74         |
| Bayer CropScience | FM1740B2F   | 1525.0                 | a b                   | 34.4                       | 21           | 38              | 29.3              | 1.21             | 82.5                  | 4.4        | 2             | 5.0                | \$869.52         |
| Bayer CropScience | BCSX1010B2F | 1519.6                 | a b                   | 32.8                       | 21           | 38              | 29.0              | 1.19             | 81.5                  | 4.3        | 2             | 5.0                | \$866.05         |
| Monsanto          | DP1050B2RF  | 1466.3                 | a b c                 | 38.1                       | 21           | 38              | 28.4              | 1.18             | 82.5                  | 4.5        | 2             | 5.1                | \$836.54         |
| Bayer CropScience | BCSX1040B2F | 1419.0                 | a b c                 | 32.9                       | 21           | 39              | 29.6              | 1.20             | 83.4                  | 4.5        | 2             | 5.2                | \$812.02         |
| Bayer CropScience | ST4288B2F   | 1369.0                 | b c                   | 32.3                       | 21           | 37              | 28.3              | 1.15             | 81.0                  | 4.6        | 2             | 4.9                | \$778.26         |
| Bayer CropScience | FM9160B2F   | 1290.3                 | c                     | 34.2                       | 21           | 38              | 29.2              | 1.19             | 82.4                  | 4.0        | 2             | 5.2                | \$737.68         |
| LSD§              |             | NS                     |                       | 2.6                        | -            | NS              | 1.2               | 0.04             | 1.3                   | 0.2        | 0.0           | 0.2                | NS               |
| OSL†              |             | 0.0883                 |                       | 0.0055                     | -            | 0.0748          | 0.0041            | 0.0127           | 0.0113                | 0.0001     | 0.0000        | 0.0008             | 0.0823           |
| CV‡               |             | 8.3                    |                       | 4.3                        | -            | 2.0             | 2.4               | 1.9              | 0.9                   | 2.5        | 0.0           | 2.6                | 8.3              |

\*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation