

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Mohave, AZ

Planting Date 1 MAY 2003
Total Number of Irrigations _____

Final Irrigation Date _____
Total N Applied 265 lbs. N

Harvest Date 21 OCT 2003
General Soil Texture Sandy loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|--------------|---------------|--------------------------|--------------------------|---------------------------|------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/Discount ⁵ (points) | |
| Stoneville | ST5599BR | 961 a ¹ | 29.8 a | 4.7 a | 1.08 de | 35.0 cd | 27.9 d | 79.5 de | 176 | 515 |
| Delta and Pine | DP448B | 944 ab | 28.0 ab | 4.6 ab | 1.11 dc | 35.7 bc | 28.5 d | 80.0 cd | 401 | 529 |
| Stoneville | ST5303R | 943 ab | 28.5 a | 4.7 ab | 1.11 bc | 35.7 bc | 31.0 bc | 81.8 a | 429 | 531 |
| Delta and Pine | DP555BR | 867 ab | 31.0 a | 4.4 bc | 1.10 cd | 35.2 cd | 29.2 cd | 78.8 e | 353 | 482 |
| Delta and Pine | DP449BR | 814 bc | 30.2 a | 4.6 ab | 1.14 ab | 36.5 ab | 30.6 bc | 81.0 ab | 458 | 461 |
| Salcot | SCX-7 | 686 c | 29.0 a | 4.2 c | 1.12 abc | 36.5 ab | 31.5 b | 80.5 bc | 485 | 390 |
| FiberMax | FM960BR | 531 d | 28.0 ab | 4.5 ab | 1.07 e | 34.5 d | 30.5 bc | 80.8 bc | 325 | 293 |
| ACGA | ACG3601 | 387 e | 25.0 b | 3.9 d | 1.14 a | 37.03 a | 33.6 a | 81.0 ab | 506 | 221 |
| LSD _{0.05} ² | | 143 | 3.2 | 0.3 | 0.03 | 0.8 | 1.8 | 1.0 | | |
| OSL ³ | | 0.0001 | 0.0305 | 0.0001 | 0.0002 | 0.0001 | 0.0001 | 0.0001 | | |
| CV (%) ⁴ | | 12.7 | 7.6 | 4.2 | 1.6 | 1.6 | 4.1 | 0.8 | | |

¹Means followed by the same letter are not significantly different according to a Fisher's LSD means separation test.

²LSD: Least Significant Difference.

³OSL: Observed Significance Level.

⁴CV: Coefficient of Variation.

⁵Average premium or discount applied to the lint based on CCC loan schedule.

⁶Value of lint per acre based on CCC loan schedule of discounts and premiums and assuming a base value of 52.00 cents per pound.

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Parker, AZ

Planting Date 15 MAR 2003
Total Number of Irrigations 9 Irrigations

Final Irrigation Date 14 SEP 2003
Total N Applied 125 lbs. N

Harvest Date 10 OCT 2003
General Soil Texture Silt loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/ Discount ⁵ (points) | |
| Delta and Pine | DP449BR | 842 a ¹ | 33.5 bc | 5.5 ab | 1.06 | 34.0 | 29.0 cd | 80.3 cd | -316 | 413 |
| Stoneville | ST5303R | 815 a | 33.0 cd | 5.5 ab | 1.06 | 33.8 | 30.0 bc | 82.0 a | -323 | 398 |
| Delta and Pine | DP555BR | 804 a | 36.0 a | 5.4 bc | 1.04 | 33.3 | 27.4 de | 79.5 d | -531 | 376 |
| Stoneville | ST5599BR | 791 a | 34.3 b | 5.4 bc | 1.03 | 33.0 | 26.5 e | 79.8 cd | -557 | 365 |
| Salcot | SCX-7 | 781 ab | 32.8 cd | 5.3 cd | 1.07 | 34.5 | 31.0 ab | 81.3 ab | -101 | 398 |
| Delta and Pine | DP448B | 734 ab | 32.3 d | 5.2 d | 1.06 | 34.0 | 28.0 de | 80.5 bc | -219 | 367 |
| ACGA | ACG3601 | 669 bc | 30.8 e | 5.6 a | 1.08 | 34.8 | 33.0 a | 81.8 a | -131 | 338 |
| FiberMax | FM960BR | 621 c | 33.0 cd | 5.2 d | 1.06 | 34.0 | 31.4 ab | 81.5 a | -170 | 313 |
| LSD _{0.05} ² | | 112 | 1.2 | 0.2 | NS | NS | 1.9 | 1.0 | | |
| OSL ³ | | 0.0060 | 0.0001 | 0.0001 | 0.0945 | 0.1253 | 0.0001 | 0.0001 | | |
| CV (%) ⁴ | | 10.1 | 2.4 | 2.1 | 2.2 | 2.5 | 4.4 | 0.8 | | |

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⁵Average premium or discount applied to the lint based on CCC loan schedule.

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2003 Upland Cotton Variety Trial Results

Somerton, AZ

Planting Date 1 APR 2003
Total Number of Irrigations 8 Irrigations

Final Irrigation Date 9 AUG 2003
Total N Applied 127 lbs. N

Harvest Date 15 SEP 2003
General Soil Texture Sandy loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/ Discount ⁵ (points) | |
| Stoneville | ST5599BR | 1370 a ¹ | 33.8 abc | 5.3 abc | 1.07 ef | 34.3 fg | 29.3 def | 81.3 bc | -165 | 693 |
| Stoneville | ST4892BR | 1318 ab | 34.3 ab | 5.5 a | 1.10 cde | 35.3 cdef | 29.6 cdef | 82.7 ab | -80 | 674 |
| Delta and Pine | DP444BR | 1260 ab | 34.7 ab | 4.8 f | 1.07 ef | 34.3 fg | 27.8 f | 82.0 abc | 265 | 689 |
| Delta and Pine | DP449BR | 1248 abc | 32.8 bc | 5.4 ab | 1.08 def | 34.7 efg | 29.2 ef | 81.0 dc | -170 | 627 |
| Buttonwillow | BR303 | 1179 abcd | 29. de | 4.9 ef | 1.18 a | 37.7 a | 31.3 abcde | 82.3 abc | 372 | 658 |
| Stoneville | ST5303R | 1175 abcd | 32.9 bc | 5.4 abc | 1.08 def | 35.0 defg | 31.9 abcd | 83.0 a | -55 | 605 |
| FiberMax | FM989BR | 1119 bcde | 33.3 bc | 5.1 cde | 1.06 f | 34.0 g | 28.2 f | 82.3 abc | -253 | 552 |
| AgriPro | AP7126 | 1049 cdef | 31.4 cd | 5.2 bcd | 1.14 ab | 36.7 ab | 30.9 bcde | 81.7 abc | 75 | 554 |
| Salcot | SCX-7 | 1044 cdef | 31.3 cd | 5.0 def | 1.11 cd | 36.0 bcd | 32.0 abc | 82.0 abc | 303 | 623 |
| FiberMax | FM960BR | 1021 def | 32.8 bc | 5.3 abcd | 1.11 cd | 35.7bcde | 32.4 ab | 82.3 abc | 5 | 531 |
| Delta and Pine | DP555BR | 925 ef | 35.9 a | 5.3 abcd | 1.08 def | 35.0 defg | 29.1 ef | 81.0 cd | -123 | 470 |
| ACGA | ACG3601 | 893 f | 28.4 e | 5.1 cde | 1.13 bc | 36.3 bc | 33.8 a | 82.7 ab | 90 | 473 |
| LSD _{0.05} ² | | 199 | 2.6 | 0.3 | 0.03 | 1.2 | 2.6 | 1.3 | | |
| OSL ³ | | 0.0009 | 0.0001 | 0.0007 | 0.0001 | 0.0001 | 0.0016 | 0.0018 | | |
| CV (%) ⁴ | | 10.0 | 4.5 | 3.2 | 1.9 | 2.0 | 5.0 | 0.9 | | |

¹Means followed by the same letter are not significantly different according to a Fisher's LSD means separation test.

²LSD: Least Significant Difference.

³OSL: Observed Significance Level.

⁴CV: Coefficient of Variation.

⁵Average premium or discount applied to the lint based on CCC loan schedule.

⁶Value of lint per acre based on CCC loan schedule of discounts and premiums and assuming a base value of 52.00 cents per pound.

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Wellton, AZ

Planting Date 20 MAR 2003
Total Number of Irrigations 7 Irrigations

Final Irrigation Date 24 JUL 2003
Total N Applied 165 lbs. N

Harvest Date 3 SEP 2003
General Soil Texture Silt loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|-----------------|----------------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/ Discount ⁵ (points) | |
| Stoneville | ST5599BR | 2015 | 34.2 | 4.7 abc ¹ | 1.08 de | 35.0 bcd | 27.7 | 80.0 cd | 365 | 1121 |
| Delta and Pine | DP449BR | 1864 | 33.8 | 4.5 abcd | 1.13 bcd | 36.0 bc | 30.4 | 81.5 ab | 433 | 1049 |
| Delta and Pine | DP555BR | 1797 | 33.7 | 4.4 bcd | 1.07 de | 34.5 bc | 26.4 | 78.5 e | 205 | 949 |
| Stoneville | ST4892BR | 1744 | 32.6 | 4.8 ab | 1.09 de | 35.0 bcd | 27.3 | 81.5 ab | 360 | 970 |
| Buttonwillow | BR303 | 1741 | 32.1 | 4.3 cde | 1.22 a | 38.5 a | 28.8 | 81.0 bc | 420 | 978 |
| Salcot | SCX-7 | 1677 | 32.7 | 4.4 cde | 1.11 bcd | 35.5 bc | 27.9 | 80.0 cd | 395 | 939 |
| AgriPro | AP7126 | 1608 | 32.1 | 4.3 def | 1.15 b | 36.5 b | 29.1 | 81.5 ab | 415 | 904 |
| Stoneville | ST5303R | 1595 | 33.9 | 4.5 abcd | 1.09 cde | 34.5 cd | 30.9 | 82.5 a | 363 | 887 |
| FiberMax | FM989BR | 1594 | 32.9 | 4.3 de | 1.09 bcde | 35.5 bc | 28.2 | 79.5 de | 388 | 891 |
| FiberMax | FM960BR | 1533 | 32.6 | 4.3 cde | 1.05 e | 33.5 d | 28.8 | 80.0 cd | 88 | 812 |
| Delta and Pine | DP444BR | 1442 | 29.2 | 4.0 e | 1.11 bcd | 36.0 bc | 26.3 | 88.5 bcd | 445 | 814 |
| ACGA | ACG3601 | 1327 | 29.0 | 4.9 a | 1.14 bc | 36.5 b | 29.8 | 81.5 ab | 470 | 758 |
| LSD _{0.05} ² | | NS | NS | 0.4 | 0.05 | 1.6 | NS | 1.4 | | |
| OSL ³ | | 0.0579 | 0.6673 | 0.0197 | 0.0013 | 0.0035 | 0.0656 | 0.0029 | | |
| CV (%) ⁴ | | 7.7 | 6.4 | 3.8 | 2.1 | 2.1 | 4.5 | 0.8 | | |

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⁴CV: Coefficient of Variation.

⁵Average premium or discount applied to the lint based on CCC loan schedule.

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2003 Upland Cotton Variety Trial Results

Buckeye, AZ

Planting Date 15 APR 2003

Final Irrigation Date 25 SEP 2003

Harvest Date 8 DEC 2003

Total Number of Irrigations 21 Irrigations

Total N Applied 10 tons manure/ac,
50 lbs. N

General Soil Texture Silt loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|--------------|---------------|--------------------------|--------------------------|---------------------------|------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/Discount ⁵ (points) | |
| Delta and Pine | DP448B | 1792 a ¹ | 31.4 bcd | 4.4 d | 1.10 c | 35.2 bc | 28.5 cde | 80.5 bc | 344 | 993 |
| Delta and Pine | DP555BR | 1758 ab | 34.6 a | 4.9 b | 1.07 d | 34.3 cde | 28.5 cde | 79.5 c | 70 | 928 |
| Delta and Pine | DP449BR | 1677 b | 32.1 b | 4.9 cb | 1.10 c | 35.2 bc | 30.1 bcd | 80.8 b | 369 | 934 |
| FiberMax | FM960BR | 1494 c | 31.7 bc | 4.8 bc | 1.08 cd | 35.0 c | 34.2 a | 81.2 ab | 308 | 822 |
| Delta and Pine | DP33B | 1483 c | 29.5 e | 4.7 bc | 1.09 cd | 34.8 cd | 30.0 bcde | 80.5 bc | 269 | 812 |
| Stoneville | ST5599BR | 1425 cd | 31.9 bc | 4.9 bc | 1.04 e | 33.3 e | 27.7 de | 79.5 c | -134 | 721 |
| Stoneville | ST4892BR | 1336 de | 32.3 b | 5.3 a | 1.06 de | 33.8 ed | 27.2 e | 80.8 b | -369 | 646 |
| Stoneville | ST5303R | 1312 e | 30.3 de | 5.2 a | 1.09 cd | 34.8 cd | 31.0 b | 82.3 a | -79 | 672 |
| Salcot | SCX-7 | 1300 ef | 30.8 cd | 4.7 bc | 1.10 bc | 35.2 bc | 31.7 b | 81.0 b | 310 | 689 |
| FiberMax | FM989BR | 1248 efg | 30.2 de | 4.8 bc | 1.08 cd | 34.8 cd | 30.4 bc | 81.0 b | 271 | 684 |
| ACGA | AG3601 | 1225 fg | 28.2 f | 4.7 c | 1.13 ab | 36.2 ab | 31.3 b | 81.0 b | 406 | 687 |
| Buttonwillow | BW303 | 1200 g | 28.0 f | 4.7 cb | 1.15 a | 36.5 a | 31.0 b | 80.5 bc | 245 | 653 |
| LSD _{0.05} ² | | 97 | 1.2 | 0.2 | 0.02 | 1.1 | 2.5 | 1.1 | | |
| OSL ³ | | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0009 | | |
| CV (%) ⁴ | | 4.7 | 2.7 | 2.8 | 1.7 | 2.1 | 5.7 | 0.9 | | |

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⁵Average premium or discount applied to the lint based on CCC loan schedule.

⁶Value of lint per acre based on CCC loan schedule of discounts and premiums and assuming a base value of 52.00 cents per pound.

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Stanfield, AZ

Planting Date 23 APR 2003
Total Number of Irrigations 9 Irrigations

Final Irrigation Date 13 SEP 2003
Total N Applied 199 lbs. N

Harvest Date 4 NOV 2003
General Soil Texture Sandy loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|---------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/ Discount ⁵ (points) | |
| Stoneville | ST5599B | 1264 a ¹ | 34.1 c | 4.8 b | 1.10 b | 35.3 b | 29.5 e | 79.3 c | 253 | 669 |
| Delta and Pine | DP449BR | 1250 a | 33.5 d | 4.8 b | 1.12 b | 36.0 b | 32.5 abc | 81.0 ab | 350 | 683 |
| Stoneville | ST4892B | 1220 a | 34.9 b | 5.2 a | 1.11 b | 35.6 b | 30.7 de | 81.3 ab | 27 | 615 |
| Delta and Pine | DP448B | 1155 ab | 31.4 l | 4.3 c | 1.12 b | 36.3 b | 30.3 de | 80.0 bc | 420 | 625 |
| Salcot | SCX-7 | 1061 bc | 32.5 f | 4.2 c | 1.13 b | 36.3 b | 32.5 abc | 80.6 bc | 472 | 581 |
| Buttonwillow | BR303 | 1017 c | 30.3 j | 4.6 b | 1.22 a | 39.0 a | 31.9 bcd | 81.0 bc | 452 | 587 |
| FiberMax | FM960BR | 982 cd | 33.3 e | 4.6 b | 1.09 b | 35.3 b | 33.2 ab | 80.3 bc | 413 | 533 |
| Stoneville | ST5303R | 974 dc | 31.9 h | 4.3 c | 1.13 b | 36.3 b | 32.9 abc | 82.3 a | 457 | 551 |
| ACGA | AG3601 | 966 cd | 29.1 k | 4.0 d | 1.20 a | 38.3 a | 34.0 a | 81.3 ab | 485 | 524 |
| Delta and Pine | DP555BR | 955 cd | 36.5 a | 4.0 d | 1.10 b | 35.6 b | 30.5 de | 79.3 c | 395 | 525 |
| FiberMax | FM989BR | 885 d | 32.0 g | 4.7 b | 1.10 b | 35.6 b | 31.3 cd | 80.3 bc | 373 | 506 |
| LSD _{0.05} ² | | 123 | -- | 0.3 | 0.04 | 1.0 | 1.7 | 1.5 | | |
| OSL ³ | | 0.0001 | -- | 0.0001 | 0.0001 | 0.0001 | 0.0003 | 0.0127 | | |
| CV (%) ⁴ | | 8.0 | -- | 3.9 | 1.9 | 1.7 | 3.1 | 1.1 | | |

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⁴CV: Coefficient of Variation.

⁵Average premium or discount applied to the lint based on CCC loan schedule.

⁶Value of lint per acre based on CCC loan schedule of discounts and premiums and assuming a base value of 52.00 cents per pound.

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Maricopa, AZ

Planting Date 18 APR 2003
Total Number of Irrigations 11 Irrigations

Final Irrigation Date 25 AUG 2003
Total N Applied 180 lbs. N

Harvest Date 7 NOV 2003
General Soil Texture Loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|---------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/ Discount ⁵ (points) | |
| Delta and Pine | DP449BR | 1532 a ¹ | 33.9 | 5.1 a | 1.10 a | 35.7 a | 32.6 a | 80.7 a | 120 | 817 |
| Stoneville | ST5599B | 1430 ab | 33.7 | 5.3 a | 1.06 a | 34.0 a | 29.8 a | 80.7 a | -277 | 704 |
| Delta and Pine | DP448B | 1396 ab | 32.8 | 5.0 a | 1.08 a | 34.3 a | 31.4 a | 80.7 a | 62 | 734 |
| ACGA | AG3601 | 1340 bc | 30.9 | 5.3 a | 1.11 a | 35.7 a | 31.6 a | 81.0 a | -15 | 695 |
| Stoneville | ST4892B | 1337 bc | 34.8 | 5.2 a | 1.10 a | 35.3 a | 32.3 a | 80.7 a | 75 | 700 |
| Stoneville | ST5303R | 1315 bc | 32.7 | 5.1 a | 1.08 a | 34.7 a | 32.1 a | 81.3 a | -32 | 680 |
| Salcot | SCX-7 | 1307 bc | 32.6 | 5.1 a | 1.10 a | 35.7 a | 31.0 a | 80.3 a | 148 | 699 |
| Delta and Pine | DP555BR | 1240 cd | 36.0 | 5.0 a | 1.10 a | 35.3 a | 31.7 a | 81.0 a | 2 | 645 |
| FiberMax | FM960BR | 1133 d | 32.9 | 5.3 a | 1.08 a | 34.7 a | 32.0 a | 80.0 a | -107 | 577 |
| Buttonwillow | BR303 | 1121 d | 29.8 | 5.2 a | 1.11 a | 35.3 a | 31.7 a | 81.7 a | 83 | 595 |
| FiberMax | FM989BR | 1098 d | 32.2 | 5.4 a | 1.08 a | 34.7 a | 31.3 a | 80.7 a | -148 | 555 |
| LSD _{0.05} ² | | 152 | -- | NS | NS | NS | NS | NS | | |
| OSL ³ | | 0.0001 | -- | 0.5301 | 0.7182 | 0.7361 | 0.8288 | 0.5899 | | |
| CV (%) ⁴ | | 6.9 | -- | 4.7 | 3.3 | 3.5 | 6.3 | 1.1 | | |

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University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Coolidge, AZ

Planting Date 11 APR 2003
Total Number of Irrigations 10 Irrigations

Final Irrigation Date 1 SEP 2003
Total N Applied 280 lbs. N

Harvest Date 24 OCT 2003
General Soil Texture Loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | Value ⁶ (\$/acre) | |
|----------------------------------|---------|--------------------------|-----------------|---------------|-----------------------------|-----------------------------|------------------------------|---------------------|---------------------------------|---|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | | Premium/ Discount ⁵ (points) |
| Delta and Pine | DP448B | 1475 a ¹ | 34.6 | 4.9cdef | 1.11 de | 35.5 bcd | 29.8 de | 80.0 ef | 230 | 801 |
| Delta and Pine | DP555BR | 1465 ab | 37.5 | 4.6 f | 1.12 bcd | 36.5 ab | 30.6 cd | 80.2 def | 371 | 815 |
| Stoneville | ST5599B | 1456 ab | 35.9 | 5.3 ab | 1.06 g | 34.0 e | 29.2 e | 79.5 f | -289 | 716 |
| Delta and Pine | DP449BR | 1450 ab | 34.4 | 4.7 ef | 1.22 bcd | 36.0 abc | 31.9 bc | 81.0 bcd | 789 | 825 |
| Stoneville | ST4892B | 1384 bc | 36.9 | 5.5 a | 1.08 fg | 34.7 de | 29.6 de | 81.0 bcd | -154 | 699 |
| Salcot | SCX-7 | 1363 c | 33.0 | 4.7 ef | 1.14 bc | 36.5 ab | 32.6 ab | 81.0 bcd | 496 | 776 |
| Stoneville | ST5303R | 1342 c | 34.0 | 5.2 abc | 1.11 cde | 36.0 abc | 32.8 ab | 82.7 a | 41 | 704 |
| Buttonwillow | BR303 | 1334 c | 31.5 | 4.7 def | 1.19 a | 37.0 a | 32.8 ab | 81.7 b | 300 | 734 |
| ACGA | AG3601 | 1190 d | 30.7 | 5.1 bcd | 1.15 b | 37.0 a | 33.8 a | 81.2 bc | 294 | 656 |
| FiberMax | FM960BR | 1189 d | 34.0 | 5.0 bcde | 1.09 efg | 35.0 cde | 33.1 ab | 81.5 b | 109 | 631 |
| FiberMax | FM989BR | 1147 d | 32.4 | 5.0 bcde | 1.10 def | 35.7 bcd | 32.1 b | 80.5 cde | 189 | 617 |
| LSD _{0.05} ² | | 82 | -- | 0.4 | 0.03 | 1.2 | 1.3 | 0.9 | | |
| OSL ³ | | 0.0001 | -- | 0.0001 | 0.0001 | 0.0002 | 0.0001 | 0.0001 | | |
| CV (%) ⁴ | | 4.2 | -- | 5.0 | 1.7 | 2.3 | 2.8 | 0.7 | | |

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University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Marana, AZ

Planting Date 9 APR 2003
Total Number of Irrigations 8 Irrigations

Final Irrigation Date 25 AUG 2003
Total N Applied 136 lbs. N

Harvest Date 30 OCT 2003
General Soil Texture Clay loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|---------|--------------------------|--------------|---------------|--------------------------|--------------------------|---------------------------|------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/Discount ⁵ (points) | |
| Delta and Pine | DP449BR | 1230 a ¹ | 35.1 d | 5.2 bc | 1.09 bc | 35.0 cd | 29.3 bc | 80.2 cde | -19 | 637 |
| Stoneville | ST5599B | 1223 a | 36.9 b | 5.2 bc | 1.06 c | 34.2 de | 28.7 bc | 80.7 bcd | -72 | 624 |
| Stoneville | ST5303R | 1220 a | 34.9 e | 5.4 a | 1.06 c | 34.0 e | 29.8 bc | 81.7 a | -298 | 598 |
| Delta and Pine | DP448B | 1185 ab | 32.7 h | 5.0 ef | 1.07 bc | 34.7 cde | 27.4 d | 79.7 e | 228 | 643 |
| Delta and Pine | DP555BR | 1144 b | 38.7 a | 5.0 de | 1.07 bc | 24.7 cde | 27.5 d | 78.5 f | -6 | 594 |
| Salcot | SCX-7 | 1127 bc | 32.9 g | 4.9 f | 1.10 b | 35.5 bc | 30.0 bc | 80.0 ed | 434 | 635 |
| FiberMax | FM960BR | 1125 bc | 35.6 c | 5.1 cd | 1.10 b | 35.0 cd | 31.4 a | 81.0 abc | 50 | 591 |
| ACGA | AG3601 | 1065 cd | 32.9 g | 5.2 b | 1.13 a | 36.2 ab | 31.8 a | 81.2 ab | 0 | 554 |
| Buttonwillow | BR303 | 1050 d | 33.0 f | 5.0 de | 1.15 a | 37.0 a | 30.5 ab | 80.0 de | 176 | 564 |
| LSD _{0.05} ² | | 67 | -- | 0.1 | 0.03 | 0.9 | 1.4 | 0.9 | | |
| OSL ³ | | 0.0001 | -- | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | | |
| CV (%) ⁴ | | 3.4 | -- | 1.6 | 1.8 | 1.7 | 3.3 | 0.8 | | |

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²LSD: Least Significant Difference.

³OSL: Observed Significance Level.

⁴CV: Coefficient of Variation.

⁵Average premium or discount applied to the lint based on CCC loan schedule.

⁶Value of lint per acre based on CCC loan schedule of discounts and premiums and assuming a base value of 52.00 cents per pound.

University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Thatcher, AZ

Planting Date 28 APR 2003
Total Number of Irrigations 7 Irrigations

Final Irrigation Date 26 SEP 2003
Total N Applied 83 lbs. N

Harvest Date 30 OCT 2003
General Soil Texture Clay loam

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|--------------|---------------|--------------------------|--------------------------|---------------------------|------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/Discount ⁵ (points) | |
| FiberMax | FM991BR | 1690 a ¹ | 36.0 a | 4.3 a | 1.10 a | 35.2 a | 32.6 a | 81.2 ab | 85 | 864 |
| Stoneville | ST5303R | 1661 a | 35.8 a | 4.4 a | 1.04 a | 33.5 a | 30.3 a | 80.0 abc | 81 | 877 |
| Delta and Pine | DP655BR | 1661 ab | 35.0 a | 4.4 a | 1.07 a | 34.5 a | 30.5 a | 80.5 abc | 334 | 920 |
| FiberMax | FM991R | 1632 abc | 34.1 a | 4.5 a | 1.05 a | 33.5 a | 28.8 a | 79.0 c | 430 | 952 |
| Delta and Pine | DP5690R | 1618 abc | 35.5 a | 4.7 a | 1.07 a | 34.5 a | 30.9 a | 81.2 ab | 281 | 886 |
| Delta and Pine | DP555BR | 1593 abc | 36.0 a | 4.4 a | 1.06 a | 34.2 a | 30.1 a | 79.7 bc | 231 | 863 |
| Salcot | SCX-7 | 1517 bcd | 33.9 a | 4.4 a | 1.08 a | 34.5 a | 31.0 a | 80.0 abc | 360 | 844 |
| Delta and Pine | DP449BR | 1496 cde | 34.8 a | 4.3 a | 1.10 a | 35.2 a | 31.7 a | 81.5 ab | 423 | 841 |
| ACGA | AG3601 | 1398 def | 32.3 a | 5.1 a | 1.08 a | 34.5 a | 32.0 a | 81.0 ab | -13 | 725 |
| Stoneville | ST5599BR | 1395 def | 34.8 a | 4.3 a | 1.07 a | 33.5 a | 30.8 a | 80.2 abc | 280 | 766 |
| CPCSD | Riata | 1363 ef | 35.5 a | 4.7 a | 1.08 a | 34.5 a | 31.8 a | 81.7 a | 354 | 757 |
| FiberMax | FM989BR | 1292 f | 32.3 a | 4.3 a | 1.08 a | 34.7 a | 31.9 a | 81.5 ab | 380 | 721 |
| LSD _{0.05} ² | | 144 | NS | NS | NS | NS | NS | 1.8 | | |
| OSL ³ | | 0.0001 | 0.1218 | 0.0797 | 0.1035 | 0.2394 | 0.1690 | 0.0488 | | |
| CV (%) ⁴ | | 6.0 | 5.0 | 5.4 | 2.5 | 2.7 | 5.2 | 1.4 | | |

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University of Arizona Cooperative Extension

2003 Upland Cotton Variety Trial Results

Kansas Settlement, AZ

| | | |
|---|--|--|
| Planting Date <u>10 APR 2003</u> | Final Irrigation Date <u>10 SEP 2003</u> | Harvest Date <u>11 NOV 2003</u> |
| Total Number of Irrigations <u>Center Pivot</u> | Total N Applied <u>104 lbs. N</u> | General Soil Texture <u>Sandy loam</u> |

| Company | Variety | Lint Yield (lbs/Acre) | Percent Lint | Fiber Quality | | | | | | Value ⁶ (\$/acre) |
|----------------------------------|----------|--------------------------|--------------|---------------|--------------------------|--------------------------|---------------------------|------------------|---|---------------------------------|
| | | | | Micronaire | Fiber Length (100ths) | Staple Length (32nds) | Fiber Strength (g/tex) | Uniformity Index | Premium/Discount ⁵ (points) | |
| FiberMax | FM991BR | 1112 a ¹ | 36.3 | 3.9 | 1.12 | 36.0 | 32 | 81.0 | 505 | 634 |
| FiberMax | FM991R | 999 ab | 35.7 | 3.8 | 1.11 | 36.0 | 31 | 79.0 | 415 | 561 |
| Stoneville | ST5303R | 907 bc | 38.3 | 4.5 | 1.07 | 34.0 | 31 | 83.0 | 300 | 497 |
| Stoneville | ST5599BR | 879 bc | 37.5 | 3.8 | 1.03 | 33.0 | 28 | 80.0 | 300 | 451 |
| Salcot | SCX-7 | 855 bcd | 35.5 | 3.6 | 1.09 | 35.0 | 30 | 81.0 | 400 | 479 |
| FiberMax | FM989BR | 848 bcd | 37.2 | 4.1 | 1.00 | 32.0 | 27 | 79.0 | -280 | 417 |
| CPCSD | Riata | 817 cd | 37.7 | 4.0 | 1.12 | 36.0 | 32 | 82.0 | 505 | 466 |
| NMSU | 1517-99 | 798 cde | 32.7 | 3.8 | 1.16 | 37.0 | 33 | 82.0 | 535 | 458 |
| CPCSD | Nova | 793 cde | 37.2 | 4.5 | 1.11 | 36.0 | 33 | 83.0 | 525 | 454 |
| CPCSD | Sierra | 735 cde | 34.6 | 4.0 | 1.12 | 36.0 | 31 | 82.0 | 5105 | 419 |
| Delta and Pine | DP451BR | 709 de | 32.9 | 4.1 | 1.06 | 34.0 | 27 | 80.0 | 235 | 385 |
| ACGA | AG3601 | 697 de | 33.0 | 3.7 | 1.07 | 34.0 | 31 | 97.0 | 260 | 381 |
| Delta and Pine | PM1199R | 687 de | 36.2 | 4.6 | 1.06 | 34.0 | 28 | 83.0 | 215 | 372 |
| NMSU | 1517-95 | 632 e | 32.7 | 4.0 | 1.42 | 37.0 | 33 | 83.0 | 540 | 363 |
| LSD _{0.05} ² | | 170 | -- | -- | -- | -- | -- | -- | -- | -- |
| OSL ³ | | 0.0001 | -- | -- | -- | -- | -- | -- | -- | -- |
| CV (%) ⁴ | | 15.0 | -- | -- | -- | -- | -- | -- | -- | -- |

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