### University of Arizona
#### Cooperative Extension
#### 2005 Upland Cotton Variety Trial Results

**Stanfield, AZ**

<table>
<thead>
<tr>
<th>Company</th>
<th>Variety</th>
<th>Lint Yield (lbs/Acre)</th>
<th>Percent Lint</th>
<th>Micronaire</th>
<th>Fiber Length (100ths)</th>
<th>Staple Length (32nds)</th>
<th>Fiber Strength (g/tex)</th>
<th>Uniformity Index</th>
<th>Premium/Discount $ (Points)</th>
<th>Value $ ($/Acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta and Pine</td>
<td>DP 555 BR</td>
<td>1659 a¹</td>
<td>38.7 a</td>
<td>4.7 a</td>
<td>1.08 a</td>
<td>34.7 a</td>
<td>28.1 abc</td>
<td>80.2 a</td>
<td>252</td>
<td>904</td>
</tr>
<tr>
<td>Delta and Pine</td>
<td>DP 455 BR</td>
<td>1454 ab</td>
<td>37.8 ab</td>
<td>4.9 a</td>
<td>1.08 a</td>
<td>34.7 a</td>
<td>28.5 ab</td>
<td>80.1 a</td>
<td>295</td>
<td>805</td>
</tr>
<tr>
<td>Stoneville</td>
<td>ST 5599 BR</td>
<td>1282 b</td>
<td>34.3 a-d</td>
<td>4.9 a</td>
<td>1.05 a</td>
<td>34.0 a</td>
<td>27.2 bc</td>
<td>79.8 a</td>
<td>202</td>
<td>692</td>
</tr>
<tr>
<td>Delta and Pine</td>
<td>DP 449 BR</td>
<td>1278 b</td>
<td>32.4 cd</td>
<td>4.9 a</td>
<td>1.10 a</td>
<td>35.3 a</td>
<td>30.0 a</td>
<td>81.8 a</td>
<td>533</td>
<td>733</td>
</tr>
<tr>
<td>Stoneville</td>
<td>ST 4575 BR</td>
<td>1021 c</td>
<td>34.9 abc</td>
<td>4.6 a</td>
<td>1.07 a</td>
<td>34.0 a</td>
<td>28.6 ab</td>
<td>80.7 a</td>
<td>228</td>
<td>555</td>
</tr>
<tr>
<td>Stoneville</td>
<td>ST 5242 BR</td>
<td>1009 c</td>
<td>33.6 bcd</td>
<td>4.7 a</td>
<td>1.05 a</td>
<td>33.7 a</td>
<td>26.1 c</td>
<td>81.2 a</td>
<td>138</td>
<td>541</td>
</tr>
<tr>
<td>Dow AgroSciences</td>
<td>PHY 310 R</td>
<td>930 c</td>
<td>35.8 abc</td>
<td>4.6 a</td>
<td>1.03 a</td>
<td>33.3 a</td>
<td>27.0 bc</td>
<td>81.1 a</td>
<td>-18</td>
<td>482</td>
</tr>
<tr>
<td>Dow AgroSciences</td>
<td>PHY 470 WR</td>
<td>845 c</td>
<td>30.0 d</td>
<td>4.5 a</td>
<td>1.07 a</td>
<td>34.3 a</td>
<td>29.5 a</td>
<td>80.7 a</td>
<td>362</td>
<td>470</td>
</tr>
</tbody>
</table>

LSD<sub>.05</sub>² = 226.2, OSL³ = 0.0001, CV (%)⁴ = 10.83

¹Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).
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 discount and premiums and assuming a base value of 52.00 cents per pound.

---

**Final Irrigation Date:** 16 September 2005

**Total N Applied:** 140 LBS

**General Soil Texture:** Sandy Loam

**Planting Date:** 3 May 2005

**Harvest Date:** 1 December 2005

---

**Delta and Pine**
- **DP 555 BR**: Lint Yield = 1659 lbs/Acre, Percent Lint = 38.7 a, Micronaire = 4.7 a, Fiber Length (100ths) = 1.08 a, Staple Length (32nds) = 34.7 a, Fiber Strength (g/tex) = 28.1 abc, Uniformity Index = 80.2 a
- **DP 455 BR**: Lint Yield = 1454 ab lbs/Acre, Percent Lint = 37.8 ab, Micronaire = 4.9 a, Fiber Length (100ths) = 1.08 a, Staple Length (32nds) = 34.7 a, Fiber Strength (g/tex) = 28.5 ab, Uniformity Index = 80.1 a

**Stoneville**
- **ST 5599 BR**: Lint Yield = 1282 b lbs/Acre, Percent Lint = 34.3 a-d, Micronaire = 4.9 a, Fiber Length (100ths) = 1.05 a, Staple Length (32nds) = 34.0 a, Fiber Strength (g/tex) = 27.2 bc, Uniformity Index = 79.8 a

**Delta and Pine**
- **DP 449 BR**: Lint Yield = 1278 b lbs/Acre, Percent Lint = 32.4 cd, Micronaire = 4.9 a, Fiber Length (100ths) = 1.10 a, Staple Length (32nds) = 35.3 a, Fiber Strength (g/tex) = 30.0 a, Uniformity Index = 81.8 a

**Stoneville**
- **ST 4575 BR**: Lint Yield = 1021 c lbs/Acre, Percent Lint = 34.9 abc, Micronaire = 4.6 a, Fiber Length (100ths) = 1.07 a, Staple Length (32nds) = 34.0 a, Fiber Strength (g/tex) = 28.6 ab, Uniformity Index = 80.7 a

**Stoneville**
- **ST 5242 BR**: Lint Yield = 1009 c lbs/Acre, Percent Lint = 33.6 bcd, Micronaire = 4.7 a, Fiber Length (100ths) = 1.05 a, Staple Length (32nds) = 33.7 a, Fiber Strength (g/tex) = 26.1 c, Uniformity Index = 81.2 a

**Dow AgroSciences**
- **PHY 310 R**: Lint Yield = 930 c lbs/Acre, Percent Lint = 35.8 abc, Micronaire = 4.6 a, Fiber Length (100ths) = 1.03 a, Staple Length (32nds) = 33.3 a, Fiber Strength (g/tex) = 27.0 bc, Uniformity Index = 81.1 a

**Dow AgroSciences**
- **PHY 470 WR**: Lint Yield = 845 c lbs/Acre, Percent Lint = 30.0 d, Micronaire = 4.5 a, Fiber Length (100ths) = 1.07 a, Staple Length (32nds) = 34.3 a, Fiber Strength (g/tex) = 29.5 a, Uniformity Index = 80.7 a