

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Yuma, AZ

Planting Date: 7 April 2007      Final Irrigation Date: 29 August 2007      Harvest Date: 17 September 2007  
 Total Irrigations: 5      Total N Applied: 60 lbs/A      General Soil Texture: Clay

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Micronaire	Fiber Quality				Premium/ Discount <sup>5</sup> (\$/lb.)	Value <sup>6</sup> (\$/Acre)
					Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Delta and Pine	DP 445 BR	1985 a <sup>1</sup>	32.5 ab	4.50 a	1.14 ab	36.7 a	29.2 b	81.3 ab	0.52	905
Stoneville	ST 4427 B2RF	1949 a	33.0 a	4.60 a	1.16 a	37.0 a	31.5 a	81.2 ab	0.54	934
Stoneville	ST 5327 B2RF	1908 a	33.1 a	4.47 a	1.08 b	34.7 b	29.7 ab	81.4 ab	0.53	900
Stoneville	ST 4554 B2RF	1823 a	32.8 a	4.60 a	1.20 a	35.3 b	30.7 a	81.2 ab	0.54	873
Delta and Pine	DP 121 RF	1822 a	33.8 a	4.33 a	1.13 ab	36.7 a	28.4 bc	81.1 ab	0.56	915
Delta and Pine	DP 449 BR	1789 ab	32.1 ab	4.43 a	1.09 b	35.0 b	30.7 a	82.0 a	0.51	801
Phytogen	PHY 745 WRF	1603 b	31.8 b	4.37 b	1.09 b	35.0 b	27.9 c	80.9 b	0.53	751
Phytogen	PHY 370 WR	1408 b	30.9 b	4.85 b	1.10 b	35.3 b	30.4 ab	80.8 b	0.51	618
LSD <sub>0.05</sub> <sup>2</sup>		132.4	2.114	0.1573	0.0267	1.152	2.046	1.037		
OSL <sup>3</sup>		0.0101	0.0457	0.0004	0.0001	0.0008	0.0463	0.2839		
CV (%) <sup>4</sup>		8.75	5.82	4.36	1.21	1.63	4.31	0.64		

<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.

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