

University of Arizona Cooperative Extension

2005 Upland Cotton Variety Trial Results

Maricopa, AZ

Planting Date: 19 April 2005

Final Irrigation Date: 12 September 2005

Harvest Date: 14 November 2005

Total Irrigations: 10

Total N Applied: 180 LBS

General Soil Texture: Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality					Premium/ Discount ⁵ (Points)	Value ⁶ (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Delta and Pine	DP 455 BR	1156 a ¹	35.5 a	5.0 a	1.08 a	34.8 ab	31.0 a	81.0 ab	148	618
Delta and Pine	DP 449 BR	1026 b	33.2 bc	5.0 a	1.10 a	35.5 a	30.5 ab	81.8 a	388	573
Stoneville	ST 5242 BR	972 bc	31.1 d	4.5 c	1.07 bc	34.3 bcd	28.1 d	81.5 a	323	536
Dow AgroSciences	PHY 310 R	920 cd	35.4 a	4.7 b	1.04 c	33.5 d	29.6 bc	80.4 b	54	483
Stoneville	ST 5599 BR	830 de	33.7 bc	4.7 b	1.07 abc	34.5 bc	28.8 cd	81.4 a	286	455
Stoneville	ST 4575 BR	758 ef	34.8 bc	4.7 b	1.05 bc	33.8 cd	29.3 bcd	81.7 a	-16	391
Dow AgroSciences	PHY 470 WR	689 f	33.0 c	4.6 bc	1.07 abc	34.5 bc	29.0 cd	81.9 a	183	371
LSD _{0.05} ²		91.2	1.58	0.19	0.028	0.91	1.20	0.81	224.2	46.7
OSL ³		0.0001	0.0002	0.0001	0.0149	0.0050	0.0011	0.0182	0.0132	0.0001
CV (%) ⁴		6.77	3.14	2.76	1.78	1.78	2.74	0.67	77.46	6.42

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.