

University of Arizona Cooperative Extension

2005 Upland Cotton Variety Trial Results

Stanfield, AZ

Planting Date: 3 May 2005

Final Irrigation Date: 16 September 2005

Harvest Date: 1 December 2005

Total Irrigations: Sub-surface Drip

Total N Applied: 140 LBS

General Soil Texture: Sandy 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 555 BR	1659 a ¹	38.7 a	4.7 a	1.08 a	34.7 a	28.1 abc	80.2 a	252	904
Delta and Pine	DP 455 BR	1454 ab	37.8 ab	4.9 a	1.08 a	34.7 a	28.5 ab	80.1 a	295	805
Stoneville	ST 5599 BR	1282 b	34.3 a-d	4.9 a	1.05 a	34.0 a	27.2 bc	79.8 a	202	692
Delta and Pine	DP 449 BR	1278 b	32.4 cd	4.9 a	1.10 a	35.3 a	30.0 a	81.8 a	533	733
Stoneville	ST 4575 BR	1021 c	34.9 abc	4.6 a	1.07 a	34.0 a	28.6 ab	80.7 a	228	555
Stoneville	ST 5242 BR	1009 c	33.6 bcd	4.7 a	1.05 a	33.7 a	26.1 c	81.2 a	138	541
Dow AgroSciences	PHY 310 R	930 c	35.8 abc	4.6 a	1.03 a	33.3 a	27.0 bc	81.1 a	-18	482
Dow AgroSciences	PHY 470 WR	845 c	30.0 d	4.5 a	1.07 a	34.3 a	29.5 a	80.7 a	362	470
LSD _{0.05} ²		226.2	4.16	0.34	0.045	1.55	2.06	1.34	458.9	153.5
OSL ³		0.0001	0.0114	0.0971	0.0731	0.2309	0.0168	0.1009	0.3924	0.0002
CV (%) ⁴		10.83	6.8	4.1	2.39	2.59	4.17	0.95	104.48	13.44

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.