

University of Arizona Cooperative Extension

2006 Upland Cotton Variety Trial Results

Kansas Settlement, Arizona

Planting Date: 18 April 2006

Final Irrigation Date: 10 September 2006

Harvest Date: 3 November 2006

Total Irrigations: Sub Surface Drip

Total N Applied: 110 LBS

General Soil Texture: Cogswell Clay Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality						Premium/ Discount ⁵ (cents/lb)	Value ⁶ (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index			
Dow AgroSciences	PHY 745 WRF	1551.3 a	35.8	3.3	1.19	38	27.2	82.5	2.45	844.61	
Stoneville	ST 4554 B2RF	1519.5 a	35.2	3.5	1.17	37.3	25.2	80.4	4.86	864.81	
Dow AgroSciences	PHY 370 WR	1507.0 a	36.8	3.6	1.12	36.3	24.6	81.1	5.43	865.25	
Stoneville	ST 4357 B2RF	1436.2 ab	34.2	3.1	1.20	38.3	24.6	80.3	1.23	766.53	
Bayer CropSciences	FM 9063 RF	1324.3 bc	35.2	3.1	1.24	39.5	28.1	80.5	2.71	726.28	
Dow AgroSciences	PHY 485 WRF	1307.3 bc	32.8	3.4	1.20	38	25.5	81.6	0.29	686.79	
Delta and Pine	DP 164 B2RF	1188.5 cd	33.2	3.1	1.19	38	25.9	79.3	2.05	643.55	
Delta and Pine	DP 655 B/RR	1156.0 cde	34	3.3	1.16	37	29	80.4	4.20	648.01	
Delta and Pine	DP 455 BG/RR	1130.0 de	35.8	2.9	1.17	36.5	26.9	79.5	0.65	591.99	
Stoneville	ST 6565 B2RF	1004.2 e	30.9	3.5	1.24	39.8	26	81.4	6.13	585.23	
LSD _{0.05} ²		176.5	2.7	0.2	0.02	1.0	0.8	1	3.09	114.68	
OSL ³		0.0001	0.0048	0.0001	0.0001	0.0001	0.0001	0.0001	0.0038	0.0001	
CV (%) ⁴		9.3	5.4	4.8	1.4	1.8	2.2	1.1	71	10.9	

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.