

University of Arizona Cooperative Extension

2005 Upland Cotton Variety Trial Results

Marana, AZ

Planting Date: 15 April 2005

Final Irrigation Date: 2 August 2005

Harvest Date: 21 October 2005

Total Irrigations: 5

Total N Applied: 100 LBS

General Soil Texture: Clay 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		
Stoneville	ST 4575 BR	1541 a ¹	37.8 ab	4.8 a	1.11 b	35.8 b	26.8 e	82.6 a	548	886
Delta and Pine	DP 449 BR	1509 a	36.5 b	4.5 a	1.15 b	37.0 ab	30.8 c	81.3 bc	640	881
Delta and Pine	DP 555 BR	1469 a	39.1 a	4.5 a	1.13 b	36.3 b	28.1 d	80.4 c	595	852
Stoneville	ST 5599 BR	1424 a	37.3 ab	4.7 a	1.12 b	36.3 b	29.2 d	80.4 c	501	811
Stoneville	ST 5242 BR	1410 a	37.4 ab	4.8 a	1.12 b	35.8 b	25.8 e	81.6 abc	554	811
Bayer CropScience	FM 989 B2R	1317 a	36.1 b	4.5 a	1.14 b	36.7 b	31.9 bc	80.8 bc	665	772
Bayer CropScience	FM 966 LL	1287 a	35.7 b	4.6 a	1.14 b	36.8 b	34.0 a	82.0 ab	656	754
Bayer CropScience	FM 960 B2R	1273 a	35.5 b	4.4 a	1.19 a	38.0 a	32.9 ab	81.7 ab	664	746
LSD _{0.05} ²		192.3	2.18	0.28	0.037	1.14	1.22	1.13	97.5	113.2
OSL ³		0.0560	0.0401	0.0649	0.0082	0.0104	0.0001	0.0063	0.0118	0.1005
CV (%) ⁴		9.26	3.99	4.05	2.2	2.11	2.76	0.94	10.93	9.39

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.