

University of Arizona Cooperative Extension

2005 Upland Cotton Variety Trial Results

Thatcher, AZ

Planting Date: 29 April 2005
Total Irrigations: 6

Final Irrigation Date: 15 September 2005
Total N Applied: 90 LBS

Harvest Date: 27 October 2005
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 5242 BR	1607 a ¹	36.4 abc	4.2 a	1.09 c	35.3 de	27.1 f	81.5 a	487	912
Stoneville	ST 4575 BR	1458 ab	37.1 a	4.1 a	1.10 c	35.0 e	28.0 ef	81.9 a	482	828
Bayer CropScience	FM 981 LL	1446 ab	33.9 de	4.0 a	1.14 abc	36.7 a-d	30.7 ab	80.7 a	628	843
Delta and Pine	DP 494 R	1385 bc	36.8 ab	4.2 a	1.13 bc	36.0 b-e	30.6 abc	81.5 a	610	804
Delta and Pine	DP 488 BR	1365 bc	35.0 b-e	3.9 a	1.13 bc	36.3 a-e	29.2 cde	80.1 a	558	786
Delta and Pine	DP 655 BR	1352 bc	34.3 de	4.0 a	1.15 ab	37.0 abc	30.3 bcd	81.2 a	657	792
Bayer CropScience	FM 989 B2R	1344 bc	34.6 cde	3.8 a	1.13 bc	36.3 a-e	31.4 ab	81.4 a	637	784
Stoneville	ST 5599 BR	1335 bc	35.5 a-d	3.9 a	1.10 c	35.3 de	29.1 de	80.1 a	368	744
Bayer CropScience	FM 960 B2R	1322 bc	34.9 b-e	3.9 a	1.18 a	37.7 a	31.9 a	82.2 a	640	772
Delta and Pine	DP 555 BR	1311 bc	36.8 ab	3.7 a	1.11 bc	35.7 cde	28.1 ef	80.5 a	553	754
Bayer CropScience	FM 991 B2R	1211 c	33.5 e	3.8 a	1.18 a	37.3 ab	31.3 ab	82.1 a	633	707
LSD _{0.05} ²		174.5	1.72	0.52	0.042	1.3	1.37	1.88	112.6	97.6
OSL ³		0.0195	0.0016	0.5719	0.0016	0.0046	0.0001	0.2357	0.0005	0.0263
CV (%) ⁴		7.45	2.86	7.71	2.18	2.1	2.7	1.36	11.63	7.23

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.