

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Mohave Valley, AZ

Planting Date: <u>10 April 2007</u>	Final Irrigation Date: <u>9 Aug. 2007</u>	Harvest Date: <u>13 Sept. 2007</u>
Total Irrigations: <u>9</u>	Total N Applied: <u>165 lbs/A</u>	General Soil Texture: <u>Silt Loam</u>

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality				
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index
Dow AgroSciences	PHY 370 WR	1050 a <sup>1</sup>	36.0 a	5.3 ab	1.10 a	35.3 a	30.8 b	82.5 a
Delta and Pine	DP 445 BR	1030 a	36.3 a	5.1 bc	1.12 a	36.0 a	30.4 bc	81.9 a
Stoneville	ST 4357 B2RF	971 ab	36.3 a	5.3 ab	1.11 a	35.7 a	31.0 b	82.0 a
Delta and Pine	DP 449 BR	957 ab	35.7 a	5.5 a	1.11 a	35.7 a	30.7 b	81.7 a
Stoneville	ST 5327 B2RF	955 ab	35.3 a	5.3 ab	1.09 a	35.0 a	29.5 bc	81.6 a
Alltex	AT 55066 B2RF	947 ab	34.3 a	5.2 abc	1.11 a	35.7 a	29.5 bc	82.2 a
Stoneville	ST 4427 B2RF	923 ab	35.7 a	5.0 c	1.09 a	35.0 a	28.4 c	81.1 a
Delta and Pine	DP 164 B2RF	865 b	33.8 a	5.2 abc	1.15 a	37.0 a	30.3 bc	82.5 a
Alltex	APEX B2RF	838 b	35.3 a	5.4 ab	1.09 a	35.0 a	28.3 c	81.9 a
Dow AgroSciences	PHY 745 WRF	704 c	33.7 a	5.2 bc	1.13 a	36.3 a	33.2 a	83.1 a
LSD <sub>0.05</sub> <sup>2</sup>		131.2	1.89	0.23	0.038	1.53	1.89	1.10
OSL <sup>3</sup>		0.002	0.0567	0.0306	0.0935	0.1989	0.0026	0.0822
CV (%) <sup>4</sup>		8.2	3.1	2.48	1.99	2.47	3.61	0.77

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Parker, AZ

Planting Date: <u>1 May 2007</u>	Final Irrigation Date: <u>10 Oct. 2007</u>	Harvest Date: <u>12 Nov. 2007</u>
Total Irrigations: <u>11</u>	Total N Applied: <u>180 lbs/A</u>	General Soil Texture: <u>Silt Loam</u>

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Micronaire	Fiber Quality			
					Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index
Delta and Pine	DP 449 BR	1371 a <sup>1</sup>	33.7 a	4.8 a	1.12 b	36.0 abc	30.1 bc	82.3 a
Delta and Pine	DP 164 B2RF	1330 a	32.3 a	4.5 bc	1.17a	37.3 a	29.6 cd	82.6 a
Delta and Pine	DP 445 B2RF	1290 a	35.0 a	4.5 bc	1.14 ab	36.7 ab	29.3 cde	81.7 a
Stoneville	ST 5327 B2RF	1277 a	34.0 a	4.7 ab	1.13 ab	36.0 abc	31.0 b	82.4 a
Dow AgroSciences	PHY 370 WR	1271 a	34.0 a	4.9 a	1.08 c	34.7 c	28.8 cde	82.0 a
Stoneville	ST 4357 B2RF	1226 a	31.3 a	4.3 c	1.13 ab	36.3 ab	28.0 e	82.1 a
Alltex	APEX B2RF	1211 a	32.0 a	4.4 c	1.15 ab	37.0 ab	28.7 de	82.6 a
Alltex	AT 55066 B2RF	1193 a	32.7 a	4.5 bc	1.14 ab	36.7 ab	28.4 de	83.0 a
Stoneville	ST 4427 B2RF	1170 a	33.0 a	4.4 c	1.11 bc	35.7 bc	29.1 cde	82.1 a
Dow AgroSciences	PHY 745 WRF	1163 a	34.0 a	4.3 c	1.12 b	36.0 abc	32.8 a	82.9 a
LSD <sub>0.05</sub> <sup>2</sup>		225.1	2.32	0.25	0.038	1.22	1.24	1.33
OSL <sup>3</sup>		0.5943	0.0893	0.0003	0.0126	0.0136	0.0001	0.6282
CV (%) <sup>4</sup>		10.5	4.07	3.03	1.94	1.97	2.45	0.94

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

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## 2007 Upland Cotton Variety Trial Results

Yuma Valley, AZ

Planting Date: 28 March 2007      Final Irrigation Date: 5 Sept. 2007      Harvest Date: 15 Oct. 2007  
 Total Irrigations: 6      Total N Applied: 40 lbs/A      General Soil Texture: Sandy Clay

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Micronaire	Fiber Quality				Premium/ Discount <sup>5</sup> (\$/lb.)	Value <sup>6</sup> (\$/Acre)
					Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Stoneville	ST 4427 B2RF	1925 a <sup>1</sup>	32.7 a	4.63 a	1.10 ab	35.3 a	27.3 b	80.2 b	0.51	858
Delta and Pine	DP 445 BR	1920 a	33.9 a	4.53 ab	1.12 ab	36.0 a	30.5 ab	82.5 a	0.54	930
Stoneville	ST 4554 B2RF	1881 a	32.5 a	4.67 a	1.23 a	36.3 a	30.4 ab	81.5 ab	0.54	892
Stoneville	ST 5327 B2RF	1870 a	33.4 a	4.50 ab	1.12 ab	36.0 a	29.0 ab	81.1 ab	0.53	888
Delta and Pine	DP 449 BR	1782 ab	30.8 a	4.50 ab	1.11 ab	36.0 a	29.5 ab	80.9 ab	0.56	873
Delta and Pine	DP 121 RF	1775 ab	33.8 a	4.53 ab	1.09 ab	34.7 a	28.0 ab	80.8 ab	0.45	683
Phytogen	PHY 745 WRF	1714 ab	32.6 a	4.23 ab	1.12 ab	35.7 a	30.7 a	80.8 ab	0.54	821
Phytogen	PHY 370 WR	1575 b	32.3 a	4.60 a	1.07 b	34.3 a	28.1 ab	80.6 ab	0.49	672
LSD <sub>0.05</sub> <sup>2</sup>		145.3	1.791	0.167	0.030	1.11	1.76	1.221		
OSL <sup>3</sup>		0.0431	0.7037	0.0154	0.0261	0.4004	0.0339	0.0252		
CV (%) <sup>4</sup>		9.10	5.10	3.46	2.57	2.91	5.64	1.40		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

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## 2007 Upland Cotton Variety Trial Results

Yuma, AZ

Planting Date: 7 April 2007      Final Irrigation Date: 29 August 2007      Harvest Date: 17 September 2007  
 Total Irrigations: 5      Total N Applied: 60 lbs/A      General Soil Texture: Clay

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Micronaire	Fiber Quality				Premium/ Discount <sup>5</sup> (\$/lb.)	Value <sup>6</sup> (\$/Acre)
					Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Delta and Pine	DP 445 BR	1985 a <sup>1</sup>	32.5 ab	4.50 a	1.14 ab	36.7 a	29.2 b	81.3 ab	0.52	905
Stoneville	ST 4427 B2RF	1949 a	33.0 a	4.60 a	1.16 a	37.0 a	31.5 a	81.2 ab	0.54	934
Stoneville	ST 5327 B2RF	1908 a	33.1 a	4.47 a	1.08 b	34.7 b	29.7 ab	81.4 ab	0.53	900
Stoneville	ST 4554 B2RF	1823 a	32.8 a	4.60 a	1.20 a	35.3 b	30.7 a	81.2 ab	0.54	873
Delta and Pine	DP 121 RF	1822 a	33.8 a	4.33 a	1.13 ab	36.7 a	28.4 bc	81.1 ab	0.56	915
Delta and Pine	DP 449 BR	1789 ab	32.1 ab	4.43 a	1.09 b	35.0 b	30.7 a	82.0 a	0.51	801
Phytogen	PHY 745 WRF	1603 b	31.8 b	4.37 b	1.09 b	35.0 b	27.9 c	80.9 b	0.53	751
Phytogen	PHY 370 WR	1408 b	30.9 b	4.85 b	1.10 b	35.3 b	30.4 ab	80.8 b	0.51	618
LSD <sub>0.05</sub> <sup>2</sup>		132.4	2.114	0.1573	0.0267	1.152	2.046	1.037		
OSL <sup>3</sup>		0.0101	0.0457	0.0004	0.0001	0.0008	0.0463	0.2839		
CV (%) <sup>4</sup>		8.75	5.82	4.36	1.21	1.63	4.31	0.64		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

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# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Marana, AZ

Planting Date: 26 April 2007      Final Irrigation Date: 28-Aug-07      Harvest Date: 18 Oct 2007  
 Total Irrigations: 3      Total N Applied: 10 tons manure Pre-plant/A      General Soil Texture: Clay Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality					Premium/ Discount <sup>5</sup> (Points)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Stoneville	ST 4554 B2RF	1307 a <sup>1</sup>	34.0 cd	4.3 a	1.11 a	35.0 a	28.8 abc	81.7 ab	671	607
Americot	AM 1532 B2RF	1303 a	34.2 c	3.9 cd	1.12 a	36.0 a	25.3 e	80.3 bc	653	604
Dow AgroSciences	PHY 370 WR	1283 a	35.8 ab	4.0 bcd	1.10 a	35.0 a	27.4 cd	81.2 ab	623	596
Delta and Pine	DP 455 B2RF	1250 a	36.7 a	3.7 d	1.11 a	35.5 a	27.8 bcd	79.6 c	479	564
Delta and Pine	DP 445 B2RF	1231 a	36.5 a	4.1 abc	1.13 a	36.2 a	30.0 a	82.0 a	718	587
Stoneville	ST 4427 B2RF	1214 ab	32.6 d	4.0 bcd	1.11 a	35.5 a	26.1 de	80.4 abc	468	534
Americot	AM 1504 B2RF	1177 ab	32.6 d	3.7 d	1.08 a	34.7 a	25.1 e	80.5 abc	541	528
Stoneville	ST 5327 B2RF	1175 ab	34.8 bc	3.8 cd	1.12 a	36.0 a	29.5 ab	81.8 ab	705	552
Delta and Pine	DP 449 BR	1066 bc	34.3 c	4.3 ab	1.11 a	35.5 a	29.3 abc	81.8 ab	650	493
Dow AgroSciences	PHY 745 WRF	963 c	33.3 cd	4.1 abc	1.12 a	35.7 a	30.0 a	81.6 ab	669	446
LSD <sub>0.05</sub> <sup>2</sup>		142.241	1.392	0.28	0.033	1.367	1.82	1.4		
OSL <sup>3</sup>		0.0005	0.0001	0.0006	0.1392	0.4007	0.0001	0.132		
CV (%) <sup>4</sup>		8.19	2.78	4.89	2.04	2.65	4.5	1.19		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

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<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Stanfield, AZ

Planting Date: 28 March 2007

Final Irrigation Date: 9 Sept. 2007

Harvest Date: 19 Nov. 2007

Total Irrigations: Drip

Total N Applied: 130 lbs/A

General Soil Texture: Sandy Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality						Premium/ Discount <sup>5</sup> (Points)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index			
Alltex	AT 55066 B2RF	843 a <sup>1</sup>	37.0 a	4.9 a	1.11 a	35.7 a	30.3 a	81.9 a	312	464	
Delta and Pine	DP 455 B2RF	807 a	36.3 a	5.0 a	1.11 a	35.3 a	29.5 a	81.5 a	348	447	
Delta and Pine	DP 449 BR	797 a	35.2 a	4.8 a	1.10 a	35.3 a	39.2 a	81.6 a	372	445	
Americot	AM 1532 B2RF	795 a	35.3 a	4.9 a	1.10 a	35.7 a	28.9 a	82.0 a	368	445	
Delta and Pine	DP 164 B2RF	781 a	35.5 a	4.9 a	1.10 a	35.7 a	30.3 a	82.7 a	488	445	
Stoneville	ST 4554 B2RF	774 a	36.9 a	5.0 a	1.09 a	35.7 a	29.8 a	81.5 a	238	422	
Stoneville	ST 5327 B2RF	763 a	35.5 a	4.7 a	1.13 a	35.0 a	30.8 a	82.3 a	605	445	
Americot	AM 1504 B2RF	735 a	35.1 a	4.9 a	1.09 a	35.0 a	29.6 a	81.6 a	227	399	
Alltex	APEX B2RF	730 a	37.5 a	4.9 a	1.10 a	35.7 a	30.0 a	82.0 a	452	412	
Dow AgroSciences	PHY 745 WR	720 a	35.1 a	4.8 a	1.12 a	36.3 a	29.8 a	81.6 a	455	407	
Dow AgroSciences	PHY 370 WR	710 a	36.9 a	5.0 a	1.11 a	35.3 a	30.3 a	82.4 a	253	398	
Stoneville	ST 4427 B2RF	692 a	35.1 a	4.8 a	1.11 a	35.7 a	30.8 a	82.5 a	638	405	
Alltex	SUMMITT B2RF	523 a	35.3 a	4.9 a	1.11 a	35.7 a	29.9 a	81.4 a	398	294	
LSD <sub>0.05</sub> <sup>2</sup>		225.3	2.41	0.47	0.044	1.46	2.24	1.56			
OSL <sup>3</sup>		0.4349	0.3583	0.9195	0.08612	0.734	0.8716	0.765			
CV (%) <sup>4</sup>		17.98	3.98	5.75	2.35	2.44	4.43	1.13			

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

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<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Maricopa, AZ (MAC)

Planting Date: 9 April 2007      Final Irrigation Date: 31 Aug. 2007      Harvest Date: 26 Nov. 2007  
 Total Irrigations: 12      Total N Applied: 190 lbs/A      General Soil Texture: Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality						Premium/ Discount <sup>5</sup> (Points)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index			
Delta and Pine	DP 164 B2RF	2279 a <sup>1</sup>	32.9 de	4.3 def	1.15 ab	37.2 a	30.7 cd	81.0 e	510	1014	
Delta and Pine	DP 449 BR	2271 a	33.7 cd	4.8 ab	1.14 ab	36.5 ab	31.3 bc	82.7 ab	490	1021	
Stoneville	ST 5327 B2RF	2268 a	35.3 ab	4.7 bc	1.13 ab	36.2 ab	32.3 ab	82.8 ab	313	1010	
Dow AgroSciences	PHY 370 WR	2264 a	35.4 ab	5.0 a	1.09 c	34.7 c	30.3 cde	81.9 a-e	150	974	
Delta and Pine	DP 455 B2RF	2259 ab	36.6 a	4.6 bcd	1.14 ab	36.5 ab	31.3 bc	81.6 b-e	542	1066	
Stoneville	ST 4554 B2RF	2251 ab	34.8 bc	4.7 abc	1.13 ab	36.0 b	31.8 b	82.6 abc	338	1026	
Alltex	APEX B2RF	2190 abc	33.5 cd	4.5 b-e	1.12 abc	36.0 b	28.5 f	81.3 de	417	916	
Americot	AM 1532 B2RF	2167 abc	32.6 de	4.5 b-e	1.14 ab	36.5 ab	30.2 cde	83.0 a	270	935	
Alltex	ALLTEX 55066 B2RF	2119 abc	33.0 d	4.4 cde	1.15 ab	36.7 ab	29.9 de	82.8 ab	340	920	
Americot	AM 1504 B2RF	2080 bcd	32.2 def	4.2 ef	1.11 bc	35.7 b	29.5 e	82.4 a-d	513	942	
Stoneville	ST 4427 B2RF	2029 cd	30.9 f	4.6 bcd	1.12 abc	26.2 ab	29.7 de	82.1 a-e	268	844	
Alltex	SUMMIT B2RF	2023 abc	31.3 ef	4.0 f	1.13 ab	36.0 b	29.7 de	81.4 cde	460	925	
Dow AgroSciences	PHY 745 WRF	1918 d	32.9 de	4.4 b-e	1.15 ab	36.7 ab	33.1 a	83.2 a	300	860	
LSD <sub>0.05</sub> <sup>2</sup>		158.9	1.49	0.29	0.028	1.058	0.999	1.11			
OSL <sup>3</sup>		0.0002	0.0001	0.0001	0.0133	0.0108	0.0001	0.0019			
CV (%) <sup>4</sup>		5.14	3.1	4.42	1.71	2.02	2.25	0.94			

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

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<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Coolidge, AZ

Planting Date: 5 April 2007

Final Irrigation Date: 10 Sept. 2007

Harvest Date: 7 Nov. 2007

Total Irrigations: 10

Total N Applied: 150 lbs/A

General Soil Texture: Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality					Premium/ Discount <sup>5</sup> (Points)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Stoneville	ST 4427 B2RF	1640 a <sup>1</sup>	35.5 cde	4.6 cde	1.15 a	36.7 a	30.3 b	80.5 d	587	757
Stoneville	ST 5327 B2RF	1615 ab	38.8 a	4.7 b-e	1.11 bcd	35.7 bc	29.3 cd	81.8 abc	660	768
Delta and Pine	DP 455 B2RF	1538 abc	35.1 de	4.9 a-d	1.11 bc	35.7 bc	30.2 bc	81.3 bcd	490	692
Dow AgroSciences	PHY 745 WR	1474 bc	37.0 a-d	5.1 a	1.11 bc	36.0 ab	30.9 b	82.5 a	433	663
Delta and Pine	DP 449 BR	1433 c	38.5 ab	5.0 ab	1.07 f	34.3 d	29.3 cd	81.3 bcd	388	641
Dow AgroSciences	PHY 370 WR	1431 c	37.6 abc	4.9 abc	1.09 c-f	35.0 bcd	30.6 b	82.1 ab	515	657
Stoneville	ST 4554 B2RF	1428 c	35.3 de	4.7 cde	1.10 b-e	35.3 bcd	29.1 de	81.6 a-d	520	647
Alltex	SUMMITT B2RF	1385 cd	36.5 b-e	4.7 cde	1.12 bc	35.7 bc	28.4 ef	81.7 abc	592	642
Americot	AM 1532 B2RF	1267 de	34.7 e	4.7 cde	1.10 b-e	35.3 bcd	27.9 f	81.0 cd	655	589
Americot	AM 1504 B2RF	1255 de	35.3 de	4.6 de	1.08 def	34.7 cd	29.4 cd	81.3 bcd	438	557
Alltex	APEX	1203 e	34.8 de	4.7 cde	1.10 b-f	35.3 bcd	28.3 ef	82.2 ab	370	526
Alltex	Alltex 55066 B2RF	1197 e	35.0 de	4.5 e	1.08 ef	34.7 cd	28.0 f	81.6 a-d	533	543
Delta and Pine	DP 164 B2RF	1032 f	34.9 de	4.7 b-e	1.12 b	36.0 ab	32.6 a	82.4 ab	655	481
LSD <sub>0.05</sub> <sup>2</sup>		145.9	1.96	0.26	0.024	0.885	0.81	0.994		
OSL <sup>3</sup>		0.0001	0.0007	0.0049	0.0001	0.0009	0.0001	0.0149		
CV (%) <sup>4</sup>		6.29	3.22	3.28	1.31	1.48	1.63	0.72		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

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<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.



# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Goodyear, AZ

Planting Date: 16 April 2007      Final Irrigation Date: 11 Sept. 2007      Harvest Date: 6 Feb. 2007  
 Total Irrigations: 10      Total N Applied: 245 lbs/A      General Soil Texture: Silt Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Micronaire	Fiber Quality				Premium/ Discount <sup>5</sup> (Points)	Value <sup>6</sup> (\$/Acre)
					Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Stoneville	ST 4554 B2RF	2784 a <sup>1</sup>	38.0 a	4.2 a	1.12 a	36.3 a	32.6 a	82.5 a	252	1125
Alltex	APEX B2RF	2701 ab	34.7 a	4.0 a	1.10 a	35.3 a	31.8 a	81.4 a	-100	1058
Phytogen	PHY 370 WR	2559 abc	33.2 a	4.3 a	1.12 a	36.3 a	29.6 a	82.3 a	-108	984
Stoneville	ST 4427 B2RF	2534 a-d	34.9 a	4.3 a	1.08 a	34.7 a	31.8 a	81.0 a	-80	994
Stoneville	ST 5327 B2RF	2532 a-d	34.6 a	4.1 a	1.12 a	36.3 a	31.2 a	81.5 a	-17	1006
Phytogen	PHY 785 WR	2406 a-e	33.0 a	4.3 a	1.10 a	35.3 a	31.2 a	82.2 a	-170	907
Delta and Pine	DP 449 BR	2376 a-e	34.4 a	4.4 a	1.10 a	35.3 a	31.2 a	82.0 a	-40	937
Americot	AM 1532 B2RF	2374 a-e	33.3 a	4.0 a	1.12 a	36.0 a	32.3 a	81.2 a	23	946
Americot	AM 1504 B2RF	2362 a-e	33.0 a	4.2 a	1.12 a	36.3 a	32.0 a	81.9 a	55	944
Alltex	AT 55066 B2RF	2272 b-e	32.1 a	3.9 a	1.11 a	35.7 a	30.7 a	82.1 a	-33	882
AllTex	SUMMIT B2RF	2231 cde	33.7 a	4.3 a	1.12 a	36.0 a	32.0 a	82.3 a	-395	797
Delta and Pine	DP 164 B2RF	2099 de	33.2 a	4.3 a	1.11 a	35.7 a	32.5 a	81.1 a	-83	811
Delta and Pine	DP 455 B2RF	2047 e	32.3 a	3.9 a	1.10 a	35.3 a	34.0 a	82.0 a	-355	731
LSD <sub>0.05</sub> <sup>2</sup>		387.2	3.22	0.61	0.04	1.39	3.94	1.37		
OSL <sup>3</sup>		0.0201	0.0841	0.8181	0.4784	0.3168	0.8081	0.3206		
CV (%) <sup>4</sup>		9.55	5.64	8.39	2.12	2.31	7.37	1.0		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Thatcher, AZ

Planting Date: 4 May 2007      Final Irrigation Date: 10 Sept. 2007      Harvest Date: 24 Oct. 2007  
 Total Irrigations: 6      Total N Applied: 110 lbs/A      General Soil Texture: Clay Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality						Premium/ Discount <sup>5</sup> (Cents/lb)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index			
Delta and Pine	DP 455 BR	1503 a <sup>1</sup>	38.7 a	4.1 bc	1.08 c	34.7 d	27.1 d	80.4 bc	4.92	855	
Delta and Pine	DP 164 B2R	1498 a	33.9 cd	4.3 a	1.17 a	37.7 a	28.7 c	81.4 abc	6.97	883	
Phytogen	PHY 745 WR	1480 ab	32.9 ef	3.9 bcd	1.16 ab	37.3 ab	31.0 a	82.5 a	3.83	826	
FiberMax	FM 1880 B2	1422 b	33.1 def	3.8 cd	1.17 a	37.7 a	30.0 ab	81.3 abc	7.08	840	
Stoneville	ST 5242 B2	1300 c	36.7 b	4.0 a-d	1.08 c	34.7 d	27.0 de	81.7 abc	4.90	739	
Phytogen	PHY 370 WR	1181 d	34.7 c	3.9 bcd	1.13 b	36.3 bc	28.8 bc	81.9 ab	5.68	681	
Stoneville	ST 5327 B2	1152 de	36.0 b	4.3 a	1.08 c	34.6 d	27.7 cd	81.2 abc	4.45	650	
AllTex	APEX B2RF	1145 de	33.0 def	3.9 d	1.13 b	36.3 bc	25.7 e	80.2 c	6.25	666	
Stoneville	ST 6611 B2	1124 def	31.3 g	4.2 ab	1.13 b	36.3 bc	28.9 bc	81.6 abc	6.90	662	
AllTex	55066 B2R	1095 ef	32.2fg	3.7 d	1.13 b	36.0 c	26.5 de	80.8 bc	0.93	580	
Stoneville	ST 4427 B2	1071 f	33.4de	4.0 a-d	1.13 b	36.0 c	26.8 de	81.7 abc	3.17	591	
LSD <sub>0.05</sub> <sup>2</sup>		71.1	0.929	0.3124	0.0346	1.2007	1.3286	1.6129			
OSL <sup>3</sup>		<.0001	<.0001	0.0097	<.0001	<.0001	<.0001	0.2007			
CV (%) <sup>4</sup>		3.3	1.596835	4.585055	1.8048	1.950017	2.784772	1.164153			

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.

# University of Arizona Cooperative Extension

## 2007 Upland Cotton Variety Trial Results

Kansas Settlement, AZ

Planting Date: 30 April 2007      Final Irrigation Date: 15 Sept. 2007      Harvest Date: 26 Oct. 2007  
 Total Irrigations: Drip      Total N Applied: 100 lbs/A      General Soil Texture: Sandy Loam

Company	Variety	Lint Yield (lbs/Acre)	Percent Lint	Fiber Quality					Premium/ Discount <sup>5</sup> (cent/lb)	Value <sup>6</sup> (\$/Acre)
				Micronaire	Fiber Length (100ths)	Staple Length (32nds)	Fiber Strength (g/tex)	Uniformity Index		
Phytogen	PHY 370 W R	1142 a <sup>1</sup>	37.2 abc	4.2 cd	1.08 b-e	34.8 bc	28.2 bc	81.1 a	4.83	648
Delta and Pine	DP 444 BR	1064 ab	37.1 a	4.0 bcd	1.07 e	34.5 c	27.8 bc	80.9 ab	4.00	595
Stoneville	ST 4427 B2 RF	1063 ab	34.7 bc	3.9 cd	1.11 b-e	35.8 abc	28.2 bc	81.0 ab	5.94	616
FiberMax	FM 1880 B2RF	1009 bc	35.7 abc	3.9 d	1.15 ab	36.8 ab	28.9 ab	79.8 b	6.96	595
Delta and Pine	DP 432 R	1001 bcd	36.3 ab	4.4 a	1.08 de	34.5 c	27.9 bc	81.0 a	4.34	563
Stoneville	ST 5327 B2 RF	999 bcd	36.7 ab	4.0 bcd	1.10 cde	35.3 bc	28.0 bc	81.2 a	5.79	578
Phytogen	PHY 745 W RF	998 bcd	35.4 abc	3.9 bcd	1.12 bcd	36.0 abc	29.0 ab	81.9 a	6.56	585
FiberMax	FM 9063 B2RF	991 bcd	35.3 abc	44.0 bcd	1.17 a	37.3 a	29.7 a	80.7 ab	7.21	587
Delta and Pine	DP 121 RF	976 bcd	37.2 a	4.3 a	1.08 de	35.0 c	27.5 bc	80.8 ab	4.59	551
AllTex	APEX B2 RF	969 bcd	35.4 abc	4.2 a-d	1.11 b-e	35.5 bc	26.9 c	80.8 ab	5.44	556
AllTex	55066 B2 RF	928 cd	35.1 abc	3.9 cd	1.11 b-e	35.5 bc	27.7 bc	81.5 a	5.40	532
Stoneville	ST 6611 B2 RF	910 d	33.9 c	4.2 ab	1.14 abc	36.8 ab	28.9 ab	81.9 a	7.01	538
LSD <sub>0.05</sub> <sup>2</sup>		97.6	2.3404	0.3	0.0441	0.0441	1.5481	1.2419		
OSL <sup>3</sup>		0.0032	0.1088	0.0241	0.0015	0.0015	0.0505	0.1228		
CV (%) <sup>4</sup>		6.8	4.5	5.6	2.8	2.8	3.8	1.1		

<sup>1</sup>Means followed by the same letter do not significantly differ (P=.05, Duncan's New MRT).

<sup>2</sup>LSD: Least Significant Difference.

<sup>3</sup>OSL: Observed Significance Level.

<sup>4</sup>CV: Coefficient of Variation.

<sup>5</sup>Average premium or discount applied to the lint based on CCC loan schedule.

<sup>6</sup>Value of lint per acre based on CCC loan schedule of discount and premiums and assuming a base value of 52.00 cents per pound.