

CALIFORNIA UPLAND COTTON ADVANCED STRAINS VARIETY TRIALS

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2006 Activities – at Shafter and West Side REC sites. This testing program is maintained for non-Acala Upland cotton varieties at both the UC Shafter and UC West Side Research and Extension Centers in small plot trials which have been conducted since 1998 in response to requests for continuing information on varieties outside of the Approved Acala testing program. The project investigators are appreciative for the participation by seed companies and the UC Research Centers in providing support for ongoing testing of non-Acala Uplands. The actual varieties included in 2006 trials are shown in Table 1, but yield and lint quality data will not be available on 2006 studies until December 2006. Summary results will be posted on our UC cotton web site: <http://cottoninfo.ucdavis.edu> and in a January 2007 issue of the *California Cotton Review* newsletter.

Table 1. Entries in 2006 CA Upland Advanced Strains trials at UC Shafter and West Side Research and Extension Center sites (Phytogen 72 is an Approved Acala variety included for comparison purposes).

Seed Company or Breeder	Variety or Entry #
Phytogen	Phy-72
	Phy-745 WRF
Bayer / Fibermax	FM-9058 F
	FM-9068 F
	FM-9063 B2F
	FM-955 LLB2
	FM-966 LL
Stoneville / Monsanto	STX-4554 B2RF
	STX-6611 B2RF
	STX-6622 RF
	STX-6565 B2RF
	STX-4357 B2RF
Delta & Pine Land Co.	DP-445 BG/RR
	DP-454 BG/RR
	DP-117 B2RF
	DP-164 B2RF
	DP-167 RF

* NOTE: Acala variety included for comparison purposes (Phy-72 is not a CA Upland variety)

2005 Activities. Two variety trials (small-scale plot studies) were done on CA Upland cotton varieties in the San Joaquin Valley, and results (yield, HVI quality) are covered in reports available at the previously mentioned website. Data shown here will only cover the yield and gin turnout data from the “Advanced Strains” CA Upland trials from 2004, with these trials conducted only at the West Side and Shafter REC locations. The tests do not overlap those underway in other SJVCB or UCCE variety trials. HVI quality data summaries are available on the UC cotton web site: <http://cottoninfo.ucdavis.edu> for recent years.

Table 1. UNIVERSITY OF CALIFORNIA - CALIFORNIA UPLANDS ADVANCED STRAINS (Farm Advisors & Specialist Trials) – 2005. Lint yields (in lbs/acre and as % of Approved Acala variety “Phytogen-72”) by test location and average gin turnout by variety in 2005 California Upland Advanced Strains Variety Trial (2 locations with 1 Acala variety (Phytogen-72) and 16 California Upland varieties). (UCCE Cooperators: R. Hutmacher, B. Marsh, M. Keeley, R. Delgado, S. Bergen, E. Scott in fields at the UC Shafter and UC West Side Research & Extension Centers).

Seed Company Or Breeder	Variety Name or Number	40" rows Shafter REC (Kern County) Lint Yields & Gin Turnouts			40" rows West Side REC (Fresno Co.) Lint Yields & Gin Turnouts			Average Lint Yields Across 2 Locations		Average Gin Turnout Across Two locations (%)
		Lint yield (lbs lint per acre)	Lint yield (as % of Phy-72 Yield)	Gin Turnout (%)	Lint yield (lbs lint per acre)	Lint yield (as % of Phy-72 Yield)	Gin Turnout (%)	(lbs lint per acre)	(as % of Phy-72 Yield)	
Phytogen	Phytogen-72 (Acala comparison) for	1196	100	32.7	1326	100	33.1	1261	100	32.9
Bayer / Fibermax	FM-960 RR	1170	98	35.8	1645	124	36.0	1408	112	35.9
Bayer / Fibermax	FM-960 B2R	1298	109	33.9	1562	118	34.9	1430	113	34.4
Bayer / Fibermax	FM-958 LL	1062	89	34.3	1618	122	35.1	1340	106	34.7
Bayer / Fibermax	FM-989 RR	1165	97	35.3	1300	98	34.4	1233	98	34.9
Bayer / Fibermax	FM-966 LL	1128	94	34.6	1623	122	34.8	1376	109	34.7
Stoneville	STX-0404 B2 RF (ST 4554B2RF) *	1389	116	33.7	1794	135	35.0	1592	126	34.4
Stoneville	STX-0414 B2 RF	1330	111	31.2	1207	91	32.1	1269	101	31.7
Stoneville	STX-0406 B2 RF (ST 6611B2RF) *	1211	101	31.3	1228	93	31.9	1220	97	31.6
Stoneville	STX-0403 RF (ST 6622RF) *	1207	101	32.8	1250	94	32.8	1229	97	32.8
Stoneville	STX-0401 RF (ST 4664RF) *	1296	108	34.9	1918	145	35.5	1607	127	35.2
Delta & Pine Land	DP-445 BG/RR	1260	105	35.6	1805	136	36.8	1533	122	36.2
Delta & Pine Land	DP-454 BG/RR	1277	107	36.9	1735	131	36.3	1506	119	36.6
Delta & Pine Land	DPLX-03X 179R	1343	112	37.3	1472	111	36.9	1408	112	37.1
Delta & Pine Land	DPLX-03X 232R	1299	109	35.2	1591	120	35.7	1445	115	35.5
Delta & Pine Land	DPLX-04Y 170 BR	1368	114	35.1	1371	103	35.0	1370	109	35.1
Delta & Pine Land	DPLX-05X 648 DR	1453	122	36.1	1460	110	36.4	1457	116	36.3
Mean		1262	106 (not include Phy-72)	34.5	1524	116 (not include Phy-72)	34.9	1393		34.7
LSD (0.05)		NS		0.6	96		0.5	139		0.4
C.V. (%)		16.6		1.2	4.4		1.0	9.9		1.2
P (Probability)		0.536		0.000	0.000		0.000	0.000		0.000

* name upon commercial release by company

VARIETY by LOCATION interaction (for yields): LSD (0.05) = 271; C.V. = 13.7 %; P = 0.001

VARIETY by LOCATION interaction (for gin turnout): LSD (0.05) = 0.5; C.V. = 1.0 %; P = 0.000