

“APPROVED ACALA” VARIETY TRIALS – 2003

* yield data that goes along with this fiber quality information is published in the January, 2004 issue of the "California Cotton Review" (available from your UCCE Farm Advisor) or you can also get that information on the University of CA Cotton Web Site: <http://cottoninfo.ucdavis.edu>

Average lint quality characteristics of 9 Acala varieties (including the Approved Acala “standard” variety of the San Joaquin Valley Cotton Board (CPCSD “Maxxa”) in **University of CA Farm Advisor / Specialist "Approved Acala" variety trials in 2003**. Values shown are averages across 8 locations in 2003. Only at the Shafter and West Side REC locations, two CA Upland varieties Fibermax “FM-989 BR” and Delta Pine “DP-5415 RR were included for comparison. All analyses were run on seedcotton collected during field harvests with commercial spindle pickers in 4 field replications per variety at each site. Six pound samples were then run through the Shafter REC research gin, and HVI analyses of lint samples were conducted at the USDA classing office in Visalia, CA. (Cooperators: Bob Hutmacher, Ron Vargas, Bruce Roberts, Brian Marsh, Dan Munk, Steve Wright, Mark Keeley, Raul Delgado)

Seed Company or Breeder	Variety	Micro-naire	Length (in.)	Strength (g/T)	Unif. Index (UI)	Manual Classing Leaf Grade	HVI Trash	Color RD	Color + B
CPCSD	Maxxa	3.92	1.18	33.8	83.4	3.1	0.31	81.1	8.40
Phytogen	Phy-72	4.01	1.23	32.8	83.1	2.7	0.26	79.8	8.79
CPCSD	Riata RR	3.79	1.17	32.1	83.1	3.0	0.31	81.6	8.25
CPCSD	Ultima	3.77	1.24	34.3	84.2	3.2	0.41	80.6	8.35
Delta Pine Land Co.	DP-6207	4.11	1.17	33.4	83.6	3.2	0.33	80.4	8.26
Delta Pine Land Co.	DP-6100 RR	4.05	1.17	32.4	84.0	2.5	0.22	81.1	8.51
Phytogen	Phy-78	3.75	1.18	32.5	83.2	3.9	0.43	79.8	8.40
CPCSD	Summit	4.00	1.21	33.7	83.8	3.0	0.28	81.2	8.46
CPCSD	Sierra RR	3.71	1.16	31.7	82.5	2.9	0.28	81.7	8.33
Average (Approved Acala only)		3.90	1.19	33.0	83.4	3.0	0.31	80.8	8.42
<ul style="list-style-type: none"> values shown in the two rows below are for varieties only grown at Shafter and West Side REC – therefore they cannot be directly compared with results from varieties grown at all test locations 									
Bayer Fibermax	FM-989 BR	3.95	1.13	32.5	82.7	2.3	0.19	81.4	8.43
Delta Pine Land Co	DP-5415 RR	4.35	1.16	30.3	83.4	1.6	0.13	82.3	8.29
<i>CPCSD “Maxxa” for comparison (average of only Shafter & West Side REC data)</i>		4.02	1.18	34.0	83.6	2.7	0.27	81.7	8.42
<ul style="list-style-type: none"> statistics below only apply to varieties grown across all locations – therefore does not include the varieties Fibermax FM-989 BR or Delta Pine DP-5415 RR grown only at Shafter and West Side REC sites 									
LSD (0.05)		0.04	0.01	0.4	0.3	0.2	0.04	0.4	0.12
C.V. (%)		2.0	1.3	2.3	0.7	14.4	21.8	1.0	2.8
P		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Variety by location interaction	LSD 0.05	0.24	NS	NS		0.6	0.12		NS
	LSD 0.10				0.8			1.0	
	C.V. (%)	4.4	1.5	3.0	0.8	13.2	26.6	1.0	2.4
P		0.000	0.137	0.156	0.079	0.000	0.000	0.063	0.254

* NS = not significant: LSD indicates that values separated by the amount shown (or more) are significantly different: C.V. (%) indicates amount of variation in data (higher number = more variable data); P value is indicator of probability of statistical differences.