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## 2006 Cotton Variety Selection

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A summary of the yield results from the testing of 23 different cotton varieties over six years in the Sacramento Valley is shown in Table 1. In the far right of the table, average cotton lint yields over years are compared to DeltaPine (DP) 388 or to DP 444 BG/RR in the lower part of the table. In the upper part of Table 1, the 2000 through 2005 averages as a percent of DP 388 don't include the 2005 Colusa 2 trial yields because DP 388 wasn't included since all of the varieties in this trial were Roundup Ready and thus couldn't be directly compared to DP 388.

This is the second year several San Joaquin Valley Acala cotton varieties have yielded much higher than DP 388. The cotton variety Phytogen (PHY) 710R was the highest yielding with very high quality. It also has the Roundup Ready advantage.

Tables 2, 3 and 4 give the quality results for the better varieties from 2000 through 2005. Fiber length, fiber strength, and micronaire are typically the three fiber quality characteristics of most importance when comparing varieties being grown in the Sacramento Valley.

All of the yield and quality results reported are from large scale grower strip trials (4 to 6 rows by 1200 feet) with 3 to 4 replications. These trials would not be possible without the generous support of the growers and seed companies involved.

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### Table 1: 2000 to 2005 Sacramento Valley Cotton Variety Trial Yield Results

(Yields in pounds lint per acre & as a % of DP 388 or DP 444 BG/RR for each location)

2000-05  
Average

Variety	2000 2 Location Avg		2001 Butte		2002 Colusa		2003 Colusa		2003 Butte		2004 Butte		2004 Colusa		2005 Colusa 1		2005 Colusa 2		% DP 388	# of trials	# of years
	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)	(lb/A)	DP 388 (%)			
PHY 710 R											1885	112					1723		112	1	1
CPCSD Hammer											1967	117			1411	102			110	2	2
CPCSD Riata RR											1765	105							105	1	1
ST 4575 BR											1753	104					1560		104	1	1
DP 393											1770	105	1711	102	1444	104			104	3	2
DP 432 R													1699	102			1590		102	1	1
<b>DP 388</b>	<b>1263</b>	<b>100</b>	<b>1526</b>	<b>100</b>	<b>1461</b>	<b>100</b>	<b>1374</b>	<b>100</b>	<b>1367</b>	<b>100</b>	<b>1685</b>	<b>100</b>	<b>1672</b>	<b>100</b>	<b>1384</b>	<b>100</b>			<b>100</b>	<b>11</b>	<b>7</b>
CPCSD Sierra RR									1317	96	1700	101					1429		99	2	2
ST 457					1495	102	1302	95											99	2	2
CPCSD Summit									1366	100	1639	97							98	2	2
ST 5599 BR							1349	98											98	1	1
DP 434 R													1616	97			1416		97	1	1
DP 444 BG/RR							1430	104			1556	92	1580	94			1557		97	4	3
FiberMax 958	1187	78			1668	114													95	2	2
FiberMax 958 LL															1299	94			94	1	1
DP 424 BGII/RR									1158	85			1470	88					86	2	2
ST 4646 B2R									1110	81									81	1	1

**Varieties above are a % of DP 388 and below are a % of DP 444 BG/RR (some varieties are in both sections)**

Variety	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	(lb/A)	DP 444 BG/RR (%)	% DP 444 BG/RR	# of trials	# of years
PHY 710 R											1885	121					1723	111	116	2	2
CPCSD Riata RR											1765	113							113	1	1
ST 4575 BR											1753	113					1560	100	106	2	2
DP 432 R													1699	108			1590	102	105	2	2
ST 4686 R																	1600	103	103	1	1
CPCSD Sierra RR											1700	109					1429	92	101	2	2
<b>DP 444 BG/RR</b>							<b>1430</b>	<b>100</b>			<b>1556</b>	<b>100</b>	<b>1580</b>	<b>100</b>			<b>1557</b>	<b>100</b>	<b>100</b>	<b>4</b>	<b>3</b>
CPCSD Fiesta RR																	1525	98	98	1	1
DP 434 R													1616	102			1416	91	97	2	2
DP 6222 R																	1439	92	92	1	1
DP 6226 BG/RR																	1370	88	88	1	1
DG OA265 BR																	1271	82	82	1	1
ST 6848 R																	1246	80	80	1	1

Trial results are available for 91 other cotton varieties tested in the Sacramento Valley.



**Table 4: 2000 to 2005 Sacramento Valley Cotton Variety Trials Micronaire Results.**

<b>Micronaire</b>	<b>2000 Colusa</b>	<b>2000 Butte</b>	<b>2001 Butte</b>	<b>2002 Colusa</b>	<b>2003 Colusa</b>	<b>2003 Butte</b>	<b>2004 Colusa</b>	<b>2004 Butte</b>	<b>2005 Colusa 1</b>	<b>2005 Colusa 2</b>
DP 444 BG/RR					3.0		4.8	3.6		3.3
DP 388	4.4	2.6	4.7	4.2	3.1	3.3	4.8	4.0	4.1	
ST 457				4.0	3.1					
CPCSD Sierra RR						3.2		3.6		3.3
ST 4575 BR								3.8		3.3
PHY 710 R								4.0		3.7
DP 393							4.9	4.0	4.2	
DP 432 R							4.6			3.3
DP 434 R							5.0			3.0
CPCSD Summit								4.1		
CPCSD Riata								3.9		
CPCSD Hammer								4.3	4.1	
ST 4686 R										3.4
FiberMax 958 LL									4.1	
CPCSD Fiesta RR										3.6
DP 6222 R										3.8
DP 6226 BG/RR										3.8
DG OA265 BR										3.8
ST 6848 R										3.6

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