



California Cotton Review

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**FARM ADVISOR AND SPECIALIST VARIETY TRIALS:
 APPROVED ACALA TRIALS, CA UPLANDS TRIALS, PIMA TRIALS — 2004
 Bob Hutmacher, Ron Vargas, Dan Munk, Steve Wright, Brian Marsh,
 Bruce Roberts, Mark Keeley, Raul Delgado, Shane Ball**

In the San Joaquin Valley production area, a broad range of variety options exist for growers, including Approved Acalas and Pimas plus a wide range of CA Upland and even a few CA Pima varieties. This issue of the *California Cotton Review* provides yield data summaries for the “Approved Acala”, Pima and “California Uplands Advanced Strains” trials run by the UCCE Farm Advisors, Specialists and staff. It also provides a summary of yield data from the “San Joaquin Valley Cotton Board” (SJVCB) trials run by Dr. Shane Ball, Specialist with the University of California. Most trials represented here were large-scale evaluations done in grower fields.

The lint yield data across locations plus over-location averages for gin turnouts are summarized for the following trials in this issue of the *California Cotton Review*:

- Approved Acala variety trials (7 locations)
- CA Upland Advanced Strains trials (2 locations)
- Pima variety trials (6 locations)
- San Joaquin Valley Cotton Board trials

The information that follows is by no means a comprehensive presentation of all available data from these variety trials. Information on HVI lint quality in the Farm Advisor/Specialist trials will be available sometime between late-January and mid-February on the UCCE cotton web site: <http://cottoninfo.ucdavis.edu>, and more detailed information can be obtained on individual test plot sites by contacting your county UC Cooperative Extension Farm Advisor. The methods used to determine entries in the Approved Acala and CA Uplands trials

were reviewed in the Jan. 2002 issue of the *CA Cotton Review* (older issues also available on web site), so will not be reviewed here. Eleven Approved Acala varieties were planted in UCCE variety trials at 7 locations in 2004, 5 in large grower fields in Tulare, Kings, Fresno, Madera and Merced Counties. At 2 locations at the West Side and Shafter Research and Extension Centers, the Approved Acala variety trials also added two CA Upland varieties for yield comparisons.

Approved Acala variety trial yield and gin turnout summaries for 2004 are in Table 1, while Table 2 shows a long-term summary of Acala variety yield performance during the period of 1995 through 2004. This long term summary uses data from both Farm Advisor and SJV Cotton Board trials. Table 3 shows results from small-plot CA Upland variety trials which were conducted in 2004 to maintain an ongoing UCCE evaluation of newly available Upland varieties. Table 4 shows 2004 yield summaries and gin turnout averages from Pima variety trials conducted at 6 locations.

This information can be compared with prior year variety trial information by viewing January or February *CA Cotton Review* issues from earlier years on the UCCE cotton website (<http://cottoninfo.ucdavis.edu>). As in prior years, the recommendation stands that you should consider variety trial results only as a relative indicator of yield performance. Consider planting at least several varieties in your own fields to get a better handle on performance, quality and potential problems under your own preferred management practices.

Table 1. **APPROVED ACALA VARIETY TRIALS (Farm Advisors & Specialist Trials) – 2004.** Lint yields, gin turnouts, statistical analyses in 2004 Acala Approved Variety Trials (11 Approved Acala entries at 7 locations). For comparison purposes, the CA Upland varieties Delta and Pine Land Co. "DP-444 BR" and Bayer Fibermax "FM-960 B2R" were also included in the Shafter and West Side REC trial locations (*UCCE Cooperators: Hutmacher, Vargas, Roberts, Wright, Munk, Marsh, Keeley, Delgado in grower/cooperator fields and fields at the West Side and Shafter Research & Extension Centers*). Appreciation is extended to Dr. Shane Ball and the San Joaquin Valley Cotton Board for assistance with harvest operations at several of the field sites.

Seed Company	Variety	Lint Yields at Specific Test Plot Locations—row spacings as shown							Average Lint Yield		Average Gin Turnout (%)
		40" rows Shafter REC (lbs/ac)	40" rows West Side REC (lbs/ac)	38" Rows Kings County (lbs/ac)	30" Rows Tulare County (lbs/ac)	40" Rows Fresno County (lbs/ac)	30" Rows Madera County (lbs/ac)	30" Rows Merced County (lbs/ac)	Across all Sites (lbs/ac)	As % of variety Maxxa	
CPCSD	Maxxa	1396	1889	1653	1739	1766	1659	1994	1728	100	35.3
Phytogen	Phy-72	1520	2103	1867	1967	1952	1779	2090	1897	110	34.3
CPCSD	Riata RR	1363	2059	1779	1927	1911	1720	2213	1853	107	35.5
CPCSD	Sierra RR	1442	2022	1748	1732	1949	1662	2095	1807	105	35.5
Phytogen	Phy-78	1350	2091	1936	1862	1888	1788	2212	1875	109	33.3
Delta and Pine Land	DP-6207	1533	1865	1642	1680	1780	1655	2040	1742	101	34.3
CPCSD	Ultima	1554	1904	1734	1833	1916	1636	2195	1825	106	36.8
Delta and Pine Land	DP-6100 RR	1374	1946	1625	1793	1896	1585	2101	1760	102	33.5
CPCSD	Summit	1411	1982	1670	1733	1962	1763	2198	1817	105	36.3
United Ag Prod.	OA-265 BR	1473	1791	1774	2015	1932	1787	2103	1839	106	33.0
CPCSD	Ultima EF	1446	2020	1832	1810	1982	1747	2320	1880	109	37.0
Mean		1439 (above Acalas only)	2014 (above Acalas only)	1751	1826	1903	1707	2142	1820 (above Acalas only)	-	35.0
Delta and Pine Land Co.	DP-444 BR *	1435	2309	-	-	-	-	-	1872 * (only 2 sites)	* (only 2 sites)	38.6*
Bayer Fibermax	FM 960 B2R *	1415	2203	-	-	-	-	-	1809 * (only 2 sites)	* (only 2 sites)	36.2*
LSD 0.05		NS	85	138		89	103	97	57		0.3
LSD 0.10					178						
C.V. (%)		12.2	2.9	5.5	8.1	3.2	4.2	3.1	5.8		1.8
Probability (P)		0.867	0.000	0.000	0.058	0.000	0.002	0.000	0.000		0.000

* data from these varieties not included in over-location averages or statistics LSD = least significant difference between yields required to be significantly different at the 5% level of significance; C.V. = coefficient of variation; P = probability VARIETY by LOCATION (for yields) : LSD (0.05) = 151; C.V. (%) = 7.1; P = 0.0090 VARIETY by LOCATION (for gin turnout): LSD (0.05) = 0.9; C.V. = 1.9; P = 0.000

NOTE : STATISTICS SHOWN BELOW EACH COLUMN (trial site) APPLY TO ALL VARIETIES GROWN AT THAT LOCATION—HOWEVER, STATISTICS FOR ALL-LOCATION AVERAGES WERE CALCULATED USING ONLY THE FIRST 11 ENTRIES SHOWN ON THE TABLE (did not include the two CA Upland entries at the two locations where they were grown (Shafter and West Side REC))

Table 2. Yield Averages (1995 to 2004) - APPROVED ACALA TRIALS (Farm Advisor / Specialist and San Joaquin Valley Cotton Board (SJVCB) Trials). Lint yields of Approved Acala varieties (*as % of yield achieved for that year by variety CPCSD “Maxxa”*). Data shown does not include all entries in San Joaquin Valley Cotton Board or Farm Advisor/Specialist Trials, but instead focuses on varieties that: (1) were approved by the SJVCB and (2) then achieved significant planted acreage for one or more years. Yields shown are averages across 4 to 8 locations per year in large-scale farm site trials in the San Joaquin Valley Cotton Board (SJVCB) trials (shown in *italics* on the left side of the table) and 7 to 8 sites per year in the UCCE Farm Advisor/Specialist trials (right side of table). “Blank” areas in the table indicate that the varieties were not included in tests (either because they were not yet released (years prior to approval by SJVCB) or because acreage was limited and earlier testing had been done (older varieties).

Variety Name or Number	Lint Yields Across All Variety Trial Sites San Joaquin Valley Cotton Board Acala Trials <i>(as a percent of average yields of the variety “Maxxa”)</i>										Lint Yields Across All Variety Trial Sites Farm Advisor / Specialist Approved Variety Trials <i>(as a percent of average yields of the variety “Maxxa”)</i>									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Maxxa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SJ-2 **											99	99	97	98	98	105				
Phy-33 **	102											102	103	105	101	105	107			
DP-6207			104	106											102	108	106	100	109	99
Ultima (C141)	99	103											98	102	98	102	105	100	103	104
GTO Maxxa**	104	102											106	104	104	108	104	105		
BR-9605 **			98	97											100	102				
CPCSD-GLS			96	89											97	100				
Riata RR				101	106											112	105	101	110	105
BXN Nova				102	101	98											98	93		
Phy-72				119	109	109	106										119	109	119	106
Phy-78						111	105											105	120	107
DP-6100RR				100	92		94											94	98	100
Summit (C192)						105	107		107									100***	104	103
Sierra RR							106	105											109	103
Nem-X HY								101	106											
OA-265 BR							103	105	120											104
Ultima EF(C201)							105	103												107
Average Yield in Trials (lbs lint /acre)				994	1458	1527	1548	1668	1511	935	1354	1482	1092	1551	1495	1326	1803	1414	1820	

** = seed for this variety no longer widely available/ check with seed company regarding availability
 *** = not grown in all test sites in 2002 due to limited seed availability (only grown at Shafter and West Side REC test sites)

Table 3. CALIFORNIA UPLANDS ADVANCED STRAINS (Farm Advisors & Specialist Trials) – 2004. Lint yields (in lbs/acre and as % of Approved Acala variety “Phytogen-72”) by test location and average gin turnout for each variety in *2004 California Upland Advanced Strains Variety Trial* (2 locations with 1 Acala variety (Phytogen-72) and 20 California Upland varieties). (UCCE Cooperators: R. Hutmacher, B. Marsh, M. Keeley, R. Delgado, S. Ball, F. Leal, 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.) Yields			Average Lint Yields Across 2 Locations		Average Gin Turnout Across Two locations (%)
		Lint yld (lbs lint per acre)	Lint yld (as % of Phy-72 Yield)	Gin Turnout (%)	Lint yld (lbs lint per acre)	Lint yld (as % of Phy-72 Yield)	Gin Turnout (%)	(lbs lint per acre)	(as % of Phy-72 Yield)	
Phytogen	Phytogen-72 (Acala for comparison)	1825	100	33.9	1926	100	34.7	1876	100	34.3
Bayer / Fibermax	FM-960 B2R	1556	85	34.0	2004	104	36.1	1780	95	35.1
Bayer / Fibermax	FM-966 LL	1772	97	35.2	2049	106	36.0	1911	102	35.6
Bayer / Fibermax	FM-958 LL	1826	100	35.4	1885	98	36.4	1856	99	35.9
Bayer / Fibermax	FM-960 RR	1674	92	35.8	2148	112	37.0	1911	102	36.4
Stoneville	STX-5454 B2R	1541	84	32.2	2010	104	34.3	1776	94	33.3
Stoneville	STX-4575 BR	1681	92	36.0	2435	126	36.8	2058	109	36.4
Stoneville	STX-4686 RR	1882	103	35.6	1989	103	35.4	1936	103	35.5
Stoneville	ST-6636 BR	1704	93	33.3	1887	98	34.3	1796	96	33.8
Stoneville	ST-6848 RR	1691	93	32.4	1877	97	34.2	1784	95	33.3
Stoneville	ST-5242 BR	1909	105	35.7	2234	116	36.7	2072	110	36.2
Delta & Pine Land Seed Company	DP-444 BR	1997	109	36.7	2329	121	37.8	2163	115	37.3
Delta & Pine Land Seed Company	DP-555 BR	1644	90	36.6	1676	87	38.2	1660	89	37.4
Delta & Pine Land Seed Company	DP-494 RR	1597	88	35.6	1922	100	36.5	1760	94	36.1
Delta & Pine Land Seed Company	DP-434 RR	1948	107	37.0	2470	128	38.6	2209	117	37.8
Delta & Pine Land Seed Company	DP-432 RR	1856	102	34.6	2032	106	34.7	1944	104	34.7
Olvey and Associates	OA-85	1925	105	36.8	2075	108	38.2	2000	107	37.5
Syntech Research	SYN-0651	1472	81	30.3	1753	91	31.3	1613	86	30.8
Syntech Research	SYN-2226	1255	69	31.2	1755	91	33.0	1505	80	32.1
Syntech Research	SYN-2534	1332	73	31.1	1942	101	32.1	1637	87	31.6
Syntech Research	SYN-7184	1211	66	29.3	1805	94	31.0	1508	80	30.2
Mean		1681	-	34.2	2010	-	35.4	1845	-	34.8
LSD (0.05)		271	-	1.2	156	-	0.7	164	-	0.7
C.V. (%)		11.4	-	2.5	5.5	-	1.3	8.9	-	2.1
P (Probability)		0.000	-	0.000	0.000	-	0.000	0.000	-	0.000

VARIETY by LOCATION interaction (for yields): LSD(0.05) = 206; C.V. = 7.9 %; P = 0.000; LSD(0.10)=0.7; C.V.=1.8%; P=0.058

Table 4. PIMA VARIETY TRIALS (Farm Advisor and Specialist Trials—2004). Lint yields (lbs/acre) by test location and average gin turnouts are shown. Average yields are expressed both as pounds of cotton lint per acre and as % of yield average for variety “S-7” (San Joaquin Valley Cotton Board Approved Pima “standard”). Data from one Fresno County site was not included in over-location averages for 2004 due to reduced plant populations (<25,000 plants/acre some plots), higher average soil salinity, and higher yield C.V. at this site when compared with the other five locations for 2004. Statistics shown are as described in footnote. Averages shown in italics and underlined represent data from San Joaquin Valley Cotton Board trials (Dr. Shane Ball, UC Coordinator). UCCE Cooperators: (Hutmacher, Vargas, Wright, Munk, Marsh, Roberts, Keeley, Delgado in grower fields, Shane Ball and staff in SJV Cotton Board tests, staff at the University of CA West Side and Shafter Research and Extension Centers.).

Seed Company	Variety	Location of Trial—2004 Lint Yield <i>(lbs lint per acre)</i>					Mean Across 5 sites		Mean Yield by Year of Trial (includes UCCE and SJVCB trials) <i>As % of variety “S-7” yields—all sites - see table captions above</i>						Fresno Co. site # 2 (Five Points area)	
		40” Shafter REC	40” West Side REC	38” Kern Co. Semi- Tropic	30” Fresno Co. Fire- baugh	30” Merced Co. Dos Palos	Lint Yld	Gin Turn out	2004	2003	2002	2001	2000	1999	Lint Yield	Gin Turn out
Public variety	S-7	946	1918	1075	932	1297	1234	32.8	100	100	100	100	100	100	503	31.0
Phyto-gen	Phy-76	1056	2113	1284	1075	1371	1380	32.3	112	107	121	102	<u>98</u>	<u>99</u>	737	30.4
Delta Pine	DP-744	964	2175	1241	1044	1375	1360	33.8	110	105	116	104	110	92	851	32.3
Delta Pine	DP-340	1102	2284	1079	1214	1444	1425	33.6	115	108	114	106	<u>104</u>	<u>111</u>	899	31.7
Delta Pine	DP-HTO	894	1868	950	1073	1289	1215	35.1	98	101	100	96	104	95	808	33.4
Delta Pine	OA-353	1126	2106	1092	1089	1481	1379	33.2	112	<u>114</u>	<u>112</u>	<u>112</u>	- *	- *	790	31.4
Hazera	HA-195	1487	2288	1732	1860	2167	1907	34.2	155	146	<u>159</u>	<u>170</u>	- *	- *	1211	30.2
Mean		1082	2107	1208	1184	1489	1414	33.6							828	31.5
LSD 0.05		134	163	131	115	127	70	0.3							144	
LSD 0.10																1.8
Coeff. of Variation (C.V.) %		8.4	5.2	7.3	6.5	5.7	7.5	1.4							11.7	4.6
Probability (P)		0.000	0.000	0.000	0.000	0.000	0.000	0.000							0.000	0.063

C.V. = coefficient of variation; P = probability at 5% level of significance; LSD = least significant difference (if means differ by this amount or more, they are significantly different). VARIETY BY LOCATION interaction (for yields—5location summary): LSD 0.05 = 159; C.V. = 8.0%; P = 0.000 VARIETY BY LOCATION interaction (for gin turnout—5 location summary): LSD 0.05 = 1.00; C.V. = 2.2%; P = 0.000

FUSARIUM RACE 4 UPDATES - Scouting & Recommended Containment Practices

- **Contact your UCCE Farm Advisor for updates, or**
- **go to GUIDELINES section as well as UPDATES sections of the UCCE cotton website at: <http://cottoninfo.ucdavis.edu> ,**

**SAN JOAQUIN VALLEY COTTON BOARD
ON-FARM VARIETY TESTING PROGRAM**

Shane T. Ball, *UC Cotton Specialist*

Acala Tests - 2004. The Acala lint yields for the 2004 growing season in San Joaquin Valley Cotton Board (SJVCB) trials were from 12 varieties grown at four locations (Table 1). Generally, the yields ranged from excellent to outstanding, averaging 2171 lbs lint/acre, which is 660 lbs lint per acre higher than the average obtained across all trials and varieties in the 2003 SJVCB Acala tests. The highest yielding Acala variety was CPCSD's C-103, which averaged 2376 lbs lint per acre. At the highest yielding location near Five Points in Fresno County, 10 varieties yielded 2300 lbs per acre or more (> 4.6 bales per acre). Two of the varieties have completed the third year of testing (C-402 and C-702) and will be eligible to be considered for approval by the

Board at their February 28, 2005 meeting. Some top-yielding varieties include CPCSD's C-103 (251 lbs/acre > PHY-72), C-503 (127 lbs/acre > Phy-72), C-403 (102 lbs/acre > PHY-72), and C-402 (60 lbs > PHY-72). The Acala gin turnout's values ranged from 33.1% (OA-265BR) to 41.2% (C-103) as shown in Table 1. Of the two varieties up for approval at the 2005 SJVCB meeting, both had gin turnouts that were significantly higher ($P \geq 0.05$) than the standard, Maxxa (35.8%).

Pima Tests—2004. Pima lint yields for 10 varieties grown at three locations during 2004 are shown in Table 2. Generally, yields were very good to excellent, averaging 1713 lbs lint per acre, or 408 lbs/acre higher than the average in 2003. The highest yielding varieties were O&A's OA-357 and Phytogen's PHY-800, both with 1835 lbs per acre. At the highest yielding location near Riverdale in Fresno County, four varieties yielded more

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Table 1. Acala lint yields (lbs per acre) in the San Joaquin Valley Cotton Board on-farm variety trials by location in 2004. Also shown are mean lint yield and mean gin turnout calculated across all sites.

Entry #	Variety	Lint Yield— Mean across Locations (lbs per acre)	Location of Trial—2004 Lint Yields at each location (lbs per acre)				Mean Gin Turnout (percent)
			Corcoran	Five Points	Los Banos	Mendota	
1	C-103	2376 a *	2173 a	2703 a	2557 a	2071 a	41.2 a
2	C-503	2253 b	2048 b	2538 ab	2414 bc	2012 abc	39.1 b
3	C-403	2228 bc	2024 bc	2408 bc	2449 ab	2033 ab	38.7 c
4	C-402	2186 bcd	2028 bc	2375 bc	2334 bcd	2008 abc	39.3 b
5	C-702	2167 cde	2046 b	2383 bc	2316 cde	1923 bcd	37.4 d
6	C-203	2161 cdef	2028 bc	2253 c	2382 bc	1981 abc	35.3 g
7	Phy-710 RR	2160 cdef	2031 bc	2428 bc	2241 def	1938 bc	34.3 h
8	Phy-72	2126 def	2031 bc	2332 bc	2196 efg	1945 bc	34.4 h
9	Summit	2106 efg	2006 bc	2304 bc	2219 defg	1895 cde	36.5 e
10	OA-265 BR	2088 fg	1949 c	2411 bc	2101 gh	1889 cde	33.1 i
11	DPX-03L0401	2032 gh	1956 bc	2323 bc	2048 h	1801 de	35.2 g
12	Maxxa	1971 h	1790 d	2193 c	2119 fgh	1781 e	35.8 f
Mean		2171	2075	2388	2281	1940	36.7
Standard Deviation		235	107	196	188	120	2.6
Least Significant Difference (LSD) - (0.05)		75	95	237	125	125	0.3
Coefficient of Variation (C.V.) - (percent)		5	3	7	4	5	1

* Lint yields (within column) followed by the same letter are not significantly different using the F-protected LSD test ($P \leq 0.05$)

Table 2. Pima trial lint yields (lbs per acre) in the San Joaquin Valley Cotton Board on-farm variety trials by location in 2004. Also shown are mean lint yield and mean gin turnout calculated across all sites.

Entry #	Variety	Mean Lint Yield (lbs/acre)	Location of Trials — 2004 Lint Yields (lbs lint per acre)				Mean Gin Turnout (percent)	Location of Trials—2004 Gin Turnout (percent)			
			Buena Vista	Corcoran	Los Banos	Riverdale		Buena Vista	Corcoran	Los Banos	Riverdale
1	OA-357	1835 a	1799 ab	1820 ab	1473 a	2247 a	33.6 bc	31.9 cde	34.3 abc	34.9 abc	33.2 a
2	Phy-800	1835 a	1883 a	1889 a	1396 ab	2170 ab	32.7 d	31.4 de	33.7 bcd	33.7 de	31.9 bc
3	DP-340	1781 ab	1758 bcd	1783 ab	1436 ab	2149 ab	33.8 b	32.6 ab	34.3 abc	34.9 abc	33.3 a
4	OA-356	1750 bc	1797 b	1791 ab	1414 ab	1999 cd	33.6 b	32.0 cd	34.5 ab	35.3 ab	32.8 abc
5	E-503	1692 cd	1704 cde	1907 a	1376 bc	1781 e	33.2 c	31.6 de	34.7 a	34.7 bc	31.6 c
6	Phy-76	1692 cd	1769 bc	1792 ab	1258 de	1948 d	32.1 e	30.5 f	32.9 d	33.0 e	31.9 bc
7	E-303	1669 d	1676 de	1704 b	1357 bc	1939 d	32.5 d	31.3 e	33.5 cd	33.6 de	31.8 c
8	E-404	1657 d	1743 bcd	1714 b	1307 cd	1863 de	33.8 b	32.3 bc	34.6 ab	35.2 ab	33.1 ab
9	S-7	1653 d	1527 f	1680 b	1309 cd	2100 bc	33.6 b	32.0 bcd	34.8 a	34.2 cd	33.5 a
10	E-504	1565 e	1626 e	1461 c	1187 e	1983 cd	34.3 a	33.0 a	35.0 a	35.6 a	33.6 a
Mean		1713	1728	1754	1351	2018	33.3	31.9	34.2	34.5	32.7
Std. Deviation		281	112	175	138	167	1.5	0.8	0.9	0.9	1.1
Least Signif. Difference(LSD) 0.05		61	84	170	87	140	0.5	0.7	0.7	0.8	1.2
Coefficient of Variation(C.V.) %		5	3	7	4	5	2	3	2	2	3

* Lint yields (within column) followed by the same letter are not significantly different using the F-protected LSD test ($P \leq 0.05$)

than 2,100 lbs (or 4.2 bales) per acre. One variety has completed the third year of testing (PHY-800) and will be eligible for approval by SJVCB at their February 28, 2005 meeting. Top-yielding varieties included OA-357 (182 lbs/acre>S-7) and Phytogen’s PHY-800 (182 lbs/acre>S-7). Pima gin turnout values ranged from 32.1% (OA-265BR) to 34.2% (C-504) (Table 2). The variety up for approval, PHY-800 had a significantly lower gin turnout ($P \geq 0.05$) compared to the standard, S-7 (33.6%).

Screening Tests - 2004. The screening lint yields for 2004 were from 15 varieties grown at two locations (Table 3). The yields were very good, averaging 1636 lbs lint per acre, or 199 lbs/acre more than averages in the 2003 growing season. At the Lemoore location, three varieties yielded over 1700 lbs (>3.3 bales) per acre. The highest yielding variety was Phytogen’s P03X-7051RRF,

a Roundup Ready Flex Variety. The screening trial gin turnouts ranged from 34.2% (PHY-72) to 38.8% (C-304) (Table 3). The top four varieties were significantly ($P \leq 0.05$) higher for gin turnout values compared to Maxxa (36.1%). Based on the lint yield results, there is great potential for new varieties to out-perform current high-yielding approved Acalas, including PHY-72. The new varieties offer great promise for San Joaquin Valley cotton producers.

- For more information on the testing program associated with the San Joaquin Valley Cotton Board, or with questions regarding information in this article, please contact:
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Table 3. Screening trial lint yields (lbs per acre) in the San Joaquin Valley Cotton Board on-farm screening trials for Acala entries by location in 2004. Also shown are mean lint yield and mean gin turnout calculated across all sites.

Entry #	Variety	Mean Lint Yield (lbs/acre)	Location of Trial—2004 Lint Yields (lbs/acre)		Mean Gin Turnout (percent)	Location of Trial—2004 Gin Turnout (percent)	
			Lemoore	Los Banos		Lemoore	Los Banos
1	P03X-7051 RRF	1749 a *	1938 a	1559 bc	34.4 fgh	33.9 gh	34.9 f
2	DPX-03L120	1725 ab	1789 abcd	1662 a	35.5 e	34.5 ef	36.5 cd
3	DPX-03T590	1707 abc	1872 abc	1541 bcd	34.8 f	34.5 ef	35.0 f
4	DPX-03T594	1669 abcd	1727 bcd	1612 ab	34.6 fg	34.2 fgh	35.0 f
5	Phy-72	1668 abcd	1874 abc	1463 defg	34.2 h	33.5 i	34.8 f
6	C-204	1649 bcde	1889 ab	1409 fgh	37.5 c	37.0 c	38.1 b
7	C-304	1639 bcde	1889 ab	1389 fgh	38.8 a	38.2 a	39.3 a
8	DPX-03T589	1639 bcde	1806 abc	1471 cdef	35.3 e	34.8 e	35.8 e
9	PHOOA-316	1627 cde	1624 d	1629 ab	34.4 gh	33.8 hi	35.0 f
10	DPX-03T592	1624 cde	1740 bcd	1508 cde	34.6 fg	34.3 efg	34.8 f
11	C-504	1598 def	1804 abc	1393 fgh	37.9 b	37.4 bc	38.4 b
12	DPX-03T591	1585 def	1735 bcd	1435 efg	34.5 fgh	34.3 fg	34.8 f
13	Maxxa	1577 def	1732 bcd	1422 efgh	36.1 d	35.8 d	36.4 de
14	C-404	1556 ef	1740 bcd	1372 gh	37.9 b	37.5 b	38.4 b
15	C-704 RRF	1522 f	1703 cd	1342 h	36.4 d	35.8 d	37.0 c
Mean		1636	1791	1480	35.8	35.3	36.3
Standard Deviation		204	150	112	1.7	1.6	1.6
Least Significant Difference (LSD) - (0.05)		96	173	91	0.4	0.4	0.6
Coefficient of Variation (C.V.) - (percent)		6	7	4	1	1	1

* Lint yields (within column) followed by the same letter are not significantly different using the F-protected LSD test ($P \leq 0.05$)

<p style="text-align: center;">ANNOUNCEMENTS</p> <p>VARIETY TRIALS—HVI & YIELD SUMMARIES</p> <ul style="list-style-type: none"> • Yield data for all UCCE variety trials will be posted on UC cotton web site (http://cottoninfo.ucdavis.edu) (Approved Acala, CA Upland Advanced Strains, Pima variety trials) • SJV Cotton Board yield summaries will be posted by late January or early February • HVI Fiber Quality summaries: to be posted on web site by early to mid-February <p>CA Chapter American Society Agronomy Meetings</p> <p>PLANT AND SOIL CONFERENCE— February 1-2, 2005 (Modesto) - contact your Farm Advisor for details and registration information</p>	<p>COTTON INCORPORATED STATE SUPPORT COMMITTEE— March 3, 2005—8:30 to 3:30 or 4 (Location: Tulare County Univ. CA Cooperative Extension Office, 4437 S. Laspina Ave., Tulare) - contact Mike Kelley (Cotton Board) or Bob Hutmacher for details.</p> <p>CALIFORNIA COTTON GROWERS ASSOCIATION REGIONAL MEETINGS— various dates in February - contact CA Cotton Growers Association (559) 252-0684 or visit web site for details: http://www.ccgga.org</p> <p>FARM ADVISOR WINTER MEETING — in cooperation with CCGGA Regional Meetings</p> <ul style="list-style-type: none"> • Tulare County / Kings Co.—FEBRUARY 14 (Holiday Inn, Plaza Drive, Visalia) - CCGGA meeting runs 8:30 to 10:45, UCCE mtg. 11:00-noon (topics—varieties, managing wilts and late-decline, weed control stewardship issues—hours applied for) - contact Steve Wright for details
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