

2009 CA UPLANDS ADVANCED STRAINS TRIALS				HVI DATA - Visalia Classing Office				
				1/29/2010		1/29/2010		
University of California Cooperative Extension								
Phy-72 (Acala) comparison with non-Acala (CA Upland) entries from multiple seed companies plus USDA-ARS Shafter program								
Questions?		Cooperative Project by:						
Contact - Bob Hutmacher (Univ. CA)		University of California / Participating Seed Companies / State Support Committee of Cotton Incorporated						
cell # (559) 260-8957		UC West Side and UC Shafter Research and Extension Centers						
or e-mail: rbhutmacher@ucdavis.edu		Cooperators: Hutmacher, Wright, Keeley, Delgado, Banuelos						
LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)								
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil								
					MANUAL			
					CLASSING			
				LEAF		HVI	COLOR	
VARIETY	MIKE	LENGTH	STREN	UI	GRADE	TRASH	RD	+B
PHY-72	4.23	1.22	36.5	82.9	2.5	0.25	78.6	8.29
DP 0949 B2RF	4.44	1.14	32.4	82.4	2.6	0.24	80.2	7.86
DP 0920 B2RF	4.51	1.13	30.6	82.1	2.3	0.19	81.0	7.59
09R549 B2R2	4.11	1.20	33.1	83.1	1.8	0.14	81.4	8.01
09R550 B2R2	4.26	1.16	32.2	82.1	1.9	0.14	81.4	7.88
09R555 B2R2	4.23	1.16	33.1	83.1	2.3	0.18	80.5	8.11
09R999 B2R2	4.29	1.17	31.0	83.1	1.6	0.10	81.1	8.20
09R605 B2R2	4.30	1.16	30.9	82.6	1.8	0.13	80.5	8.36
09R615 B2R2	4.23	1.14	30.6	83.0	1.6	0.13	80.8	8.23
ST 4498 B2RF	4.11	1.13	33.8	82.8	3.3	0.39	78.6	8.23
ST 5458 B2RF	4.21	1.15	32.6	81.3	3.0	0.35	78.2	8.61
ST 4288 B2F	4.01	1.18	32.5	82.0	2.9	0.30	79.6	8.10
FM 1740 B2F	4.26	1.13	31.7	82.4	2.3	0.16	82.0	7.43
FM 9170 B2F	3.71	1.18	32.3	81.7	2.4	0.24	82.7	7.05
FM 9160 B2F	3.76	1.18	32.4	82.7	2.6	0.21	81.9	7.43
FM 1845 LLB2	3.96	1.21	33.6	82.7	3.0	0.31	81.0	7.54
BCSX 1010 B2F	3.99	1.17	31.0	81.6	2.0	0.15	81.3	8.23
PHY 375 WRF	4.06	1.14	30.6	82.0	2.6	0.24	80.5	8.03
PHY 565 WRF	3.80	1.18	33.8	82.7	3.0	0.29	79.2	8.24
PHY 367 WRF	4.08	1.16	32.9	82.3	2.6	0.24	79.4	8.30
SJ-09U03 *	3.55	1.19	34.8	82.3	3.0	0.31	80.9	7.60
SJ-09U03B *	3.95	1.24	35.6	82.7	3.1	0.40	79.2	7.83
SJ-08U04 *	3.50	1.31	36.0	83.8	2.9	0.33	79.7	7.94
SJ-09U05 *	3.53	1.32	36.5	84.2	2.8	0.31	80.1	7.88
MEAN	4.05	1.18	32.9	82.6	2.5	0.24	80.4	7.96
LSD 0.05	0.21	0.02	0.7	0.5	0.4	0.07	0.7	0.22
%CV	5.2	1.4	2.1	0.6	16.5	31.6	0.9	2.8
P	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VAR*LOC								
LSD 0.05	NS	NS	NS	0.7	0.5	NS	NS	0.35
%CV	7.9	1.6	2.7	0.6	14.3	32.3	0.7	2.1
P	0.765	0.590	0.940	0.027	0.019	0.682	0.166	0.002

\* experimental entries from USDA-ARS Shafter program (Ulloa et al)

2009 CA UPLANDS ADVANCED STRAINS TRIALS		MICRONAIRE	
		USDA Visalia Classing Office	1/29/2010
University of California Cooperative Extension			
Phy-72 (Acala) comparison with non-Acala (CA Upland) entries from multiple seed companies plus USDA-ARS Shafter program			
Questions?		Cooperative Project by:	
Contact - Bob Hutmacher (Univ. CA)		University of California / Participating Seed Companies / Cotton Incorporated	
cell # (559) 260-8957		UC West Side and UC Shafter Research and Extension Centers	
or e-mail: rbhutmacher@ucdavis.edu		Cooperators: Hutmacher, Wright, Keeley, Delgado, Banuelos	
LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	MICRONAIRE
PHY-72	3.90	4.55	4.23
DP 0949 B2RF	4.13	4.75	4.44
DP 0920 B2RF	4.23	4.80	4.51
09R549 B2R2	3.68	4.55	4.11
09R550 B2R2	3.93	4.60	4.26
09R555 B2R2	3.83	4.63	4.23
09R999 B2R2	4.15	4.43	4.29
09R605 B2R2	4.13	4.48	4.30
09R615 B2R2	3.90	4.55	4.23
ST 4498 B2RF	3.70	4.53	4.11
ST 5458 B2RF	3.88	4.55	4.21
ST 4288 B2F	3.60	4.43	4.01
FM 1740 B2F	3.78	4.75	4.26
FM 9170 B2F	3.25	4.18	3.71
FM 9160 B2F	3.35	4.18	3.76
FM 1845 LLB2	3.60	4.33	3.96
BCSX 1010 B2F	3.50	4.48	3.99
PHY 375 WRF	3.75	4.38	4.06
PHY 565 WRF	3.65	3.95	3.80
PHY 367 WRF	3.88	4.28	4.08
SJ-09U03 *	3.30	3.80	3.55
SJ-09U03B *	3.60	4.30	3.95
SJ-08U04 *	3.20	3.80	3.50
SJ-09U05 *	3.18	3.88	3.53
MEAN	3.71	4.38	4.05
LSD 0.05	0.45	0.19	0.21
CV%	8.5	3.1	5.2
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	NS
		%CV	7.9
		P	0.765

2009 CA UPLANDS ADVANCED STRAINS TRIALS		LENGTH	
		USDA Visalia Classing Office	1/29/2010
University of California Cooperative Extension			
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Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	LENGTH (in.)
PHY-72	1.23	1.21	1.22
DP 0949 B2RF	1.14	1.14	1.14
DP 0920 B2RF	1.13	1.13	1.13
09R549 B2R2	1.21	1.19	1.20
09R550 B2R2	1.17	1.16	1.16
09R555 B2R2	1.16	1.16	1.16
09R999 B2R2	1.18	1.16	1.17
09R605 B2R2	1.16	1.16	1.16
09R615 B2R2	1.14	1.15	1.14
ST 4498 B2RF	1.14	1.12	1.13
ST 5458 B2RF	1.16	1.15	1.15
ST 4288 B2F	1.17	1.18	1.18
FM 1740 B2F	1.13	1.13	1.13
FM 9170 B2F	1.17	1.19	1.18
FM 9160 B2F	1.19	1.17	1.18
FM 1845 LLB2	1.21	1.22	1.21
BCSX 1010 B2F	1.18	1.17	1.17
PHY 375 WRF	1.16	1.13	1.14
PHY 565 WRF	1.18	1.18	1.18
PHY 367 WRF	1.16	1.17	1.16
SJ-09U03 *	1.21	1.18	1.19
SJ-09U03B *	1.25	1.22	1.24
SJ-08U04 *	1.31	1.31	1.31
SJ-09U05 *	1.32	1.32	1.32
MEAN	1.19	1.18	1.18
LSD 0.05	0.03	0.02	0.02
CV%	1.5	1.3	1.4
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	NS
		%CV	1.6
		P	0.590

2009 CA UPLANDS ADVANCED STRAINS TRIALS			STRENGTH
			USDA Visalia Classing Office
			1/29/2010
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LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	STRENGTH (G/Tex)
PHY-72	36.5	36.5	36.5
DP 0949 B2RF	32.3	32.5	32.4
DP 0920 B2RF	30.3	30.9	30.6
09R549 B2R2	33.1	33.1	33.1
09R550 B2R2	32.2	32.2	32.2
09R555 B2R2	33.2	33.1	33.1
09R999 B2R2	31.1	30.8	31.0
09R605 B2R2	30.6	31.1	30.9
09R615 B2R2	30.5	30.8	30.6
ST 4498 B2RF	33.8	33.9	33.8
ST 5458 B2RF	32.5	32.6	32.6
ST 4288 B2F	32.1	33.0	32.5
FM 1740 B2F	31.3	32.1	31.7
FM 9170 B2F	31.8	32.8	32.3
FM 9160 B2F	32.4	32.5	32.4
FM 1845 LLB2	33.5	33.7	33.6
BCSX 1010 B2F	30.4	31.5	31.0
PHY 375 WRF	30.5	30.6	30.6
PHY 565 WRF	33.4	34.3	33.8
PHY 367 WRF	32.5	33.3	32.9
SJ-09U03 *	35.0	34.6	34.8
SJ-09U03B *	35.9	35.4	35.6
SJ-08U04 *	36.2	35.8	36.0
SJ-09U05 *	36.4	36.7	36.5
MEAN	32.8	33.1	32.9
LSD 0.05	1.2	0.9	0.7
CV%	2.6	2.0	2.1
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	NS
		%CV	2.7
		P	0.940

2009 CA UPLANDS ADVANCED STRAINS TRIALS			UNIFORMITY
			USDA Visalia Classing Office
			1/29/2010
University of California Cooperative Extension			
Phy-72 (Acala) comparison with non-Acala (CA Upland) entries from multiple seed companies plus USDA-ARS Shafter program			
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LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	UNIFORMITY
PHY-72	83.0	82.7	82.9
DP 0949 B2RF	82.5	82.2	82.4
DP 0920 B2RF	82.1	82.1	82.1
09R549 B2R2	83.2	82.9	83.1
09R550 B2R2	82.2	82.0	82.1
09R555 B2R2	83.1	83.2	83.1
09R999 B2R2	83.6	82.7	83.1
09R605 B2R2	82.9	82.2	82.6
09R615 B2R2	83.0	83.1	83.0
ST 4498 B2RF	83.2	82.5	82.8
ST 5458 B2RF	81.2	81.5	81.3
ST 4288 B2F	82.1	81.9	82.0
FM 1740 B2F	82.4	82.4	82.4
FM 9170 B2F	81.8	81.6	81.7
FM 9160 B2F	83.0	82.4	82.7
FM 1845 LLB2	83.1	82.3	82.7
BCSX 1010 B2F	81.3	81.9	81.6
PHY 375 WRF	82.1	81.9	82.0
PHY 565 WRF	82.8	82.6	82.7
PHY 367 WRF	82.5	82.1	82.3
SJ-09U03 *	83.2	81.5	82.3
SJ-09U03B *	83.3	82.1	82.7
SJ-08U04 *	84.2	83.5	83.8
SJ-09U05 *	84.4	84.0	84.2
MEAN	82.8	82.4	82.6
LSD 0.05	0.8	0.6	0.5
CV%	0.7	0.6	0.6
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	0.7
		%CV	0.6
		P	0.027

2009 CA UPLANDS ADVANCED STRAINS TRIALS		LEAF GRADE (Manual Classing)	
		USDA Visalia Classing Office	1/29/2010
University of California Cooperative Extension			
Phy-72 (Acala) comparison with non-Acala (CA Upland) entries from multiple seed companies plus USDA-ARS Shafter program			
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LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			LEAF
VARIETY	SHAFTER REC	WESTSIDE REC	GRADE
PHY-72	3.0	2.0	2.5
DP 0949 B2RF	3.0	2.3	2.6
DP 0920 B2RF	2.3	2.3	2.3
09R549 B2R2	2.0	1.5	1.8
09R550 B2R2	2.0	1.8	1.9
09R555 B2R2	2.3	2.3	2.3
09R999 B2R2	1.8	1.5	1.6
09R605 B2R2	2.0	1.5	1.8
09R615 B2R2	1.8	1.5	1.6
ST 4498 B2RF	3.5	3.0	3.3
ST 5458 B2RF	3.0	3.0	3.0
ST 4288 B2F	3.0	2.8	2.9
FM 1740 B2F	2.8	1.8	2.3
FM 9170 B2F	2.8	2.0	2.4
FM 9160 B2F	3.0	2.3	2.6
FM 1845 LLB2	3.0	3.0	3.0
BCSX 1010 B2F	2.5	1.5	2.0
PHY 375 WRF	3.0	2.3	2.6
PHY 565 WRF	3.0	3.0	3.0
PHY 367 WRF	3.0	2.3	2.6
SJ-09U03 *	3.0	3.0	3.0
SJ-09U03B *	3.3	3.0	3.1
SJ-08U04 *	3.0	2.8	2.9
SJ-09U05 *	3.0	2.5	2.8
MEAN	2.7	2.3	2.5
LSD 0.05	0.4	0.6	0.4
CV%	11.5	19.2	16.5
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	0.5
		%CV	14.3
		P	0.019

2009 CA UPLANDS ADVANCED STRAINS TRIALS		HVI TRASH	
		USDA Visalia Classing Office	1/29/2010
University of California Cooperative Extension			
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LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			HVI
VARIETY	SHAFTER REC	WESTSIDE REC	TRASH
PHY-72	0.30	0.20	0.25
DP 0949 B2RF	0.28	0.20	0.24
DP 0920 B2RF	0.23	0.15	0.19
09R549 B2R2	0.18	0.10	0.14
09R550 B2R2	0.15	0.13	0.14
09R555 B2R2	0.18	0.18	0.18
09R999 B2R2	0.10	0.10	0.10
09R605 B2R2	0.15	0.10	0.13
09R615 B2R2	0.13	0.13	0.13
ST 4498 B2RF	0.45	0.33	0.39
ST 5458 B2RF	0.35	0.35	0.35
ST 4288 B2F	0.33	0.28	0.30
FM 1740 B2F	0.20	0.13	0.16
FM 9170 B2F	0.30	0.18	0.24
FM 9160 B2F	0.28	0.15	0.21
FM 1845 LLB2	0.38	0.25	0.31
BCSX 1010 B2F	0.20	0.10	0.15
PHY 375 WRF	0.28	0.20	0.24
PHY 565 WRF	0.30	0.28	0.29
PHY 367 WRF	0.28	0.20	0.24
SJ-09U03 *	0.38	0.25	0.31
SJ-09U03B *	0.48	0.33	0.40
SJ-08U04 *	0.40	0.25	0.33
SJ-09U05 *	0.38	0.25	0.31
MEAN	0.28	0.20	0.24
LSD 0.05	0.12	0.09	0.07
CV%	31.3	30.3	31.6
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	NS
		%CV	32.3
		P	0.682

2009 CA UPLANDS ADVANCED STRAINS TRIALS			Color (RD)
			USDA Visalia Classing Office
			1/29/2010
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LOCATION: San Joaquin Valley (2 locations: Shafter REC and West Side REC)			
Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	RD
PHY-72	79.0	78.3	78.6
DP 0949 B2RF	80.1	80.4	80.2
DP 0920 B2RF	80.9	81.1	81.0
09R549 B2R2	81.2	81.5	81.4
09R550 B2R2	81.5	81.3	81.4
09R555 B2R2	80.4	80.5	80.5
09R999 B2R2	80.9	81.4	81.1
09R605 B2R2	80.2	80.8	80.5
09R615 B2R2	80.5	81.0	80.8
ST 4498 B2RF	78.3	78.9	78.6
ST 5458 B2RF	78.8	77.7	78.2
ST 4288 B2F	79.9	79.3	79.6
FM 1740 B2F	81.9	82.2	82.0
FM 9170 B2F	82.9	82.5	82.7
FM 9160 B2F	82.4	81.4	81.9
FM 1845 LLB2	81.1	80.9	81.0
BCSX 1010 B2F	81.3	81.3	81.3
PHY 375 WRF	80.7	80.4	80.5
PHY 565 WRF	79.4	79.0	79.2
PHY 367 WRF	79.4	79.4	79.4
SJ-09U03 *	81.0	80.7	80.9
SJ-09U03B *	79.0	79.4	79.2
SJ-08U04 *	79.9	79.6	79.7
SJ-09U05 *	79.9	80.2	80.1
MEAN	80.4	80.4	80.4
LSD 0.05	1.1	0.7	0.7
CV%	1.0	0.6	0.9
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	NS
		%CV	0.7
		P	0.166



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			USDA Visalia Classing Office
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Shafter REC site = sandy loam soil; West Side REC site = clay loam soil			
			AVG.
VARIETY	SHAFTER REC	WESTSIDE REC	+B
PHY-72	7.65	8.93	8.29
DP 0949 B2RF	7.38	8.35	7.86
DP 0920 B2RF	7.13	8.05	7.59
09R549 B2R2	7.88	8.15	8.01
09R550 B2R2	7.68	8.08	7.88
09R555 B2R2	7.80	8.43	8.11
09R999 B2R2	8.00	8.40	8.20
09R605 B2R2	8.18	8.55	8.36
09R615 B2R2	7.98	8.48	8.23
ST 4498 B2RF	7.78	8.68	8.23
ST 5458 B2RF	8.25	8.98	8.61
ST 4288 B2F	7.70	8.50	8.10
FM 1740 B2F	7.08	7.78	7.43
FM 9170 B2F	6.60	7.50	7.05
FM 9160 B2F	6.90	7.95	7.43
FM 1845 LLB2	7.10	7.98	7.54
BCSX 1010 B2F	7.85	8.60	8.23
PHY 375 WRF	7.63	8.43	8.03
PHY 565 WRF	7.85	8.63	8.24
PHY 367 WRF	7.80	8.80	8.30
SJ-09U03 *	7.38	7.83	7.60
SJ-09U03B *	7.43	8.23	7.83
SJ-08U04 *	7.38	8.50	7.94
SJ-09U05 *	7.25	8.50	7.88
MEAN	7.57	8.35	7.96
LSD 0.05	0.32	0.29	0.22
CV%	3.0	2.5	2.8
P	0.000	0.000	0.000
* experimental entries from USDA-ARS Shafter program (Ulloa et al)			
		VAR * LOC	
		LSD 0.05	0.35
		%CV	2.1
		P	0.002