

2012 ACALA / UPLAND UC / SJVCB VARIETY TRIALS - VISALIA CLASSING OFFICE

4 location average

Questions?	Cooperative Project by:
Contact - Bob Hutmacher (Univ. CA)	San Joaquin Valley Cotton Board / University of California / Various Seed Companies
cell # (559) 260-8957	California Department of Food and Agriculture
or e-mail: rbhutmacher@ucdavis.edu	Cooperators: Hutmacher, Wright, Munk, Marsh, Keeley, Delgado, Banuelos, Wroble, Weir

calculated average does not include West Side REC (WSREC) site**

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY-72	4.32	1.19	35.2	82.2	2.58	0.26	79.2	9.08
PHY 725RF	4.03	1.20	35.5	82.3	3.00	0.33	79.1	9.00
DAYTONA RF	4.16	1.16	34.5	82.4	3.19	0.35	79.5	8.91
FM 1845LLB2	4.16	1.20	34.0	82.4	3.19	0.38	80.7	8.53
FM 9170B2F	3.89	1.16	32.8	81.2	2.63	0.27	82.8	8.04
FM 1944GLB2	4.08	1.16	33.2	81.4	2.31	0.21	82.3	8.23
ST 4145LLB2	4.04	1.13	31.6	81.1	4.50	0.60	78.5	8.63
ST 5445LLB2	4.27	1.13	31.9	80.7	3.91	0.51	79.3	8.61
MEAN	4.12	1.17	33.6	81.7	3.16	0.36	80.2	8.63
LSD 0.05	0.14	0.01	0.9	0.5	0.48	0.10	0.7	0.13
%CV	4.7	1.7	3.7	0.8	20.7	38.6	1.2	2.0
P	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Var. by Loc. Difference

LSD 0.05	0.28	NS	1.8	NS	0.87	0.20	1.4	0.28
%CV	4.9	2.3	3.9	0.9	19.6	39.4	1.3	2.3
P	0.000	0.575	0.024	0.705	0.000	0.000	0.000	0.000

**West Side REC (WSREC) site not included in average shown in far right column due to missing entry (ST-5445LLB2) was replaced with FM2989GLB2

2012 ACALA / UPLAND UC / SJVCB VARIETY TRIALS - VISALIA CLASSING OFFICE

5 locations / 4 replications average (WSREC)

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

MICRONAIRE

VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. MICRONAIRE
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	4.08	4.20	4.80	4.20	4.40	4.32
PHY 725RF	3.95	4.05	4.48	3.65	4.08	4.03
DAYTONA RF	3.75	4.23	4.65	4.03	4.18	4.16
FM 1845LLB2	3.90	4.18	4.63	3.93	4.35	4.16
FM 9170B2F	3.55	4.05	4.58	3.38	3.98	3.89
FM 1944GLB2	4.00	4.20	4.63	3.48	4.35	4.08
ST 4145LLB2	4.08	4.15	4.58	3.38		4.04
ST 5445LLB2	3.80	4.45	4.78	4.04	4.60	4.27
FM2989GLB2					4.35	
MEAN	3.89	4.19	4.64	3.76	4.29	4.12
LSD 0.05	0.23	0.13	NS	0.30	0.13	0.14
CV%	3.9	2.1	4.8	5.3	2.1	4.7
P	0.001	0.000	0.513	0.000	0.000	0.000

**West Side REC (WSREC) site not included in average shown in far right column due

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Variety by Location Difference

LSD 0.05	0.28
%CV	4.9
P	0.000

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

VARIETY	LENGTH					AVG. LENGTH
	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	1.20	1.21	1.16	1.17	1.22	1.19
PHY 725RF	1.23	1.22	1.17	1.19	1.23	1.20
DAYTONA RF	1.20	1.18	1.15	1.13	1.19	1.16
FM 1845LLB2	1.23	1.22	1.18	1.18	1.22	1.20
FM 9170B2F	1.18	1.19	1.13	1.14	1.20	1.16
FM 1944GLB2	1.18	1.17	1.17	1.13	1.17	1.16
ST 4145LLB2	1.18	1.13	1.11	1.11		1.13
ST 5445LLB2	1.15	1.15	1.12	1.10	1.17	1.13
FM2989GLB2					1.15	
MEAN	1.19	1.18	1.15	1.14	1.19	1.17
LSD 0.05	0.02	0.03	0.03	0.03	0.03	0.01
CV%	1.3	1.5	1.9	1.8	1.4	1.7
P	0.000	0.000	0.001	0.000	0.000	0.000

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Variety by Location Difference

LSD 0.05	NS
%CV	2.3
P	0.575

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5 locations / 4 replications average (WSREC)

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

STRENGTH						
VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. STRENGTH
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	36.2	35.6	33.9	35.2	36.1	35.2
PHY 725RF	35.6	36.1	34.8	35.4	36.5	35.5
DAYTONA RF	34.8	34.6	33.4	35.1	36.3	34.5
FM 1845LLB2	33.5	34.3	34.0	34.0	34.6	34.0
FM 9170B2F	33.7	33.4	32.5	31.5	33.5	32.8
FM 1944GLB2	33.9	33.2	34.7	31.1	34.3	33.2
ST 4145LLB2	33.6	30.9	31.2	30.7		31.6
ST 5445LLB2	32.2	33.2	30.9	31.5	34.0	31.9
FM2989GLB2					32.7	
MEAN	34.2	33.9	33.2	33.1	34.8	33.6
LSD 0.05	0.9	1.3	2.5	1.5	1.2	0.9
CV%	1.8	2.6	5.2	3.0	2.3	3.7
P	0.000	0.000	0.023	0.000	0.000	0.000

**West Side REC (WSREC) site not included in average shown in far right column due to missing entry (ST-5445LLB2) was replaced with FM2989GLB2

Variety by Location Difference

LSD 0.05	1.8
%CV	3.9
P	0.024

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Average of 4 Locations (San Joaquin Valley)

*calculated average does not include West Side REC (WSREC) site***

UNIFORMITY						
VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. UNIFORMITY
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	82.6	82.2	81.9	82.1	82.6	82.2
PHY 725RF	83.3	82.5	81.1	82.3	81.9	82.3
DAYTONA RF	83.0	82.8	82.0	82.0	82.9	82.4
FM 1845LLB2	82.5	82.7	82.1	82.4	82.5	82.4
FM 9170B2F	81.3	81.6	81.0	81.1	81.1	81.2
FM 1944GLB2	81.9	81.4	81.5	80.7	81.4	81.4
ST 4145LLB2	81.4	81.2	80.8	80.8		81.1
ST 5445LLB2	81.3	81.0	80.3	80.1	81.4	80.7
FM2989GLB2					81.4	
MEAN	82.2	81.9	81.3	81.4	81.9	81.7
LSD 0.05	0.9	0.8		0.7	0.9	0.5
LSD 0.10			1.0			
CV%	0.7	0.6	1.6	0.6	0.7	0.8
P	0.000	0.000	0.069	0.000	0.002	0.000

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Variety by Location Difference

LSD 0.05	NS
%CV	0.9
P	0.705

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Average of 4 Locations (San Joaquin Valley)

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LEAF GRADE

VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. GRADE
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	3.75	3.00	2.25	1.31	2.00	2.58
PHY 725RF	4.25	3.25	2.25	2.25	2.25	3.00
DAYTONA RF	4.50	3.00	2.50	2.75	2.75	3.19
FM 1845LLB2	5.00	3.25	2.25	2.25	2.00	3.19
FM 9170B2F	3.75	2.00	2.50	2.25	2.25	2.63
FM 1944GLB2	2.75	2.25	2.25	2.00	2.00	2.31
ST 4145LLB2	6.25	5.00	2.75	4.00		4.50
ST 5445LLB2	6.50	4.50	2.00	2.64	3.00	3.91
FM2989GLB2					4.04	
MEAN	4.59	3.28	2.34	2.43	2.54	3.16
LSD 0.05	1.12	0.80	NS	0.61	0.45	0.48
CV%	16.6	16.5	29.7	16.9	12.1	20.7
P	0.000	0.000	0.870	0.000	0.000	0.000

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Variety by Location Difference

LSD 0.05	0.87
%CV	19.6
P	0.000

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

HVI TRASH

VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. TRASH
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	0.48	0.28	0.18	0.12	0.15	0.26
PHY 725RF	0.58	0.33	0.20	0.20	0.20	0.33
DAYTONA RF	0.58	0.33	0.25	0.25	0.30	0.35
FM 1845LLB2	0.68	0.40	0.20	0.23	0.20	0.38
FM 9170B2F	0.48	0.18	0.23	0.20	0.20	0.27
FM 1944GLB2	0.25	0.20	0.23	0.15	0.15	0.21
ST 4145LLB2	1.10	0.63	0.23	0.45		0.60
ST 5445LLB2	1.05	0.53	0.20	0.26	0.33	0.51
FM2989GLB2					0.43	
MEAN	0.65	0.36	0.22	0.23	0.25	0.36
LSD 0.05	0.37	0.13	NS	0.08	0.07	0.10
CV%	38.7	24.4	35.6	23.9	20.2	38.6
P	0.001	0.000	0.907	0.000	0.000	0.000

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Variety by Location Difference

LSD 0.05	0.20
%CV	39.4
P	0.000

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

VARIETY	RD					AVG. RD
	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	76.8	78.9	79.3	82.0	79.4	79.2
PHY 725RF	75.1	78.9	80.5	82.0	79.6	79.1
DAYTONA RF	76.7	79.6	80.3	81.6	80.0	79.5
FM 1845LLB2	77.6	81.0	81.2	82.9	81.4	80.7
FM 9170B2F	80.7	83.3	82.3	85.1	83.2	82.8
FM 1944GLB2	80.6	83.2	81.2	84.5	83.0	82.3
ST 4145LLB2	74.4	77.8	80.7	81.0		78.5
ST 5445LLB2	76.6	77.7	82.3	80.6	78.3	79.3
FM2989GLB2					79.8	
MEAN	77.3	80.1	81.0	82.5	80.6	80.2
LSD 0.05	2.0	1.1	1.6	0.6	1.0	0.7
CV%	1.8	0.9	1.4	0.5	0.9	1.2
P	0.000	0.000	0.015	0.000	0.000	0.000

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Variety by Location Difference

LSD 0.05	1.4
%CV	1.3
P	0.000

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Average of 4 Locations (San Joaquin Valley)

calculated average does not include West Side REC (WSREC) site**

+B						
VARIETY	30" ROWS	40" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. +B
	TULARE	LEMOORE	MENDOTA	LOS BANOS	WSREC	
PHY-72	9.05	9.10	8.90	9.26	8.88	9.08
PHY 725RF	8.98	9.05	8.90	9.08	8.60	9.00
DAYTONA RF	9.03	8.85	8.68	9.10	8.80	8.91
FM 1845LLB2	8.50	8.48	8.65	8.50	8.35	8.53
FM 9170B2F	8.00	8.08	8.28	7.83	7.93	8.04
FM 1944GLB2	8.13	8.18	8.78	7.85	7.78	8.23
ST 4145LLB2	8.78	8.45	8.75	8.55		8.63
ST 5445LLB2	8.33	8.78	8.35	8.99	8.88	8.61
FM2989GLB2					8.58	
MEAN	8.60	8.62	8.66	8.65	8.48	8.63
LSD 0.05	0.22	0.16	0.39	0.25	0.26	0.13
CV%	1.7	1.3	3.1	2.0	2.1	2.0
P	0.000	0.000	0.021	0.000	0.000	0.000

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Variety by Location Difference

LSD 0.05	0.28
%CV	2.3
P	0.000

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LOCATION: FRESNO CO. (MENDOTA)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY-72	4.80	1.16	33.9	81.9	2.25	0.18	79.3	8.90
PHY 725RF	4.48	1.17	34.8	81.1	2.25	0.20	80.5	8.90
DAYTONA RF	4.65	1.15	33.4	82.0	2.50	0.25	80.3	8.68
FM 1845LLB2	4.63	1.18	34.0	82.1	2.25	0.20	81.2	8.65
FM 9170B2F	4.58	1.13	32.5	81.0	2.50	0.23	82.3	8.28
FM 1944GLB2	4.63	1.17	34.7	81.5	2.25	0.23	81.2	8.78
ST 4145LLB2	4.58	1.11	31.2	80.8	2.75	0.23	80.7	8.75
ST 5445LLB2	4.78	1.12	30.9	80.3	2.00	0.20	82.3	8.35
MEAN	4.64	1.15	33.2	81.3	2.34	0.22	81.0	8.66
LSD 0.05	NS	0.03	2.5		NS	NS	1.6	0.39
LSD 0.10				1.0				
%CV	4.8	1.9	5.2	1.6	29.7	35.6	1.4	3.1
P	0.513	0.001	0.023	0.069	0.870	0.907	0.015	0.021

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LOCATION: TULARE CO. (TIPTON)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY-72	4.08	1.20	36.2	82.6	3.75	0.48	76.8	9.05
PHY 725RF	3.95	1.23	35.6	83.3	4.25	0.58	75.1	8.98
DAYTONA RF	3.75	1.20	34.8	83.0	4.50	0.58	76.7	9.03
FM 1845LLB2	3.90	1.23	33.5	82.5	5.00	0.68	77.6	8.50
FM 9170B2F	3.55	1.18	33.7	81.3	3.75	0.48	80.7	8.00
FM 1944GLB2	4.00	1.18	33.9	81.9	2.75	0.25	80.6	8.13
ST 4145LLB2	4.08	1.18	33.6	81.4	6.25	1.10	74.4	8.78
ST 5445LLB2	3.80	1.15	32.2	81.3	6.50	1.05	76.6	8.33
MEAN	3.89	1.19	34.2	82.2	4.59	0.65	77.3	8.60
LSD 0.05	0.23	0.02	0.9	0.9	1.12	0.37	2.0	0.22
%CV	3.9	1.3	1.8	0.7	16.6	38.7	1.8	1.7
P	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000

SWEN 1 2012 (UC/SJV/CB ACALA VARIETY TRIAL - 40") HVI DATA - Visalia Classing Office

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LOCATION: WSREC (FIELD 12)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY-72	4.40	1.22	36.1	82.6	2.00	0.15	79.4	8.88
PHY 725RF	4.08	1.23	36.5	81.9	2.25	0.20	79.6	8.60
DAYTONA RF	4.18	1.19	36.3	82.9	2.75	0.30	80.0	8.80
FM 1845LLB2	4.35	1.22	34.6	82.5	2.00	0.20	81.4	8.35
FM 9170B2F	3.98	1.20	33.5	81.1	2.25	0.20	83.2	7.93
FM 1944GLB2	4.35	1.17	34.3	81.4	2.00	0.15	83.0	7.78
FM 2989GLB2	4.35	1.15	32.7	81.4	4.04	0.43	79.8	8.58
ST 5445LLB2	4.60	1.17	34.0	81.4	3.00	0.33	78.3	8.88
MEAN	4.29	1.19	34.8	81.9	2.54	0.25	80.6	8.48
LSD 0.05	0.13	0.03	1.2	0.9	0.45	0.07	1.0	0.26
%CV	2.1	1.4	2.3	0.7	12.1	20.2	0.9	2.1
P	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000