

Questions?

Contact - Bob Hutmacher (Univ. CA)

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or e-mail: rbhutmacher@ucdavis.edu

Cooperative Project by:

San Joaquin Valley Cotton Board / University of California / Various Seed Companies

California Department of Food and Agriculture

Cooperators: Hutmacher, Wright, Munk, Marsh, Keeley, Delgado, Banuelos, Wroble

Average of Four Locations (San Joaquin Valley)

VARIETY	Seed Company Providing Entry	MICRONAIRE	LENGTH (inches)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING		COLOR	
						LEAF GRADE	HVI TRASH	RD	+B
PHY-72	Phytogen	4.00	1.20	34.7	82.1	2.44	0.22	78.7	8.38
FM 9170B2F	Bayer-Fibermax	3.43	1.18	31.6	81.1	2.38	0.23	82.3	7.04
FM 1740B2F	Bayer-Fibermax	3.78	1.12	30.4	81.0	2.06	0.19	81.6	7.58
FM 1845LLB2	Bayer-Fibermax	3.78	1.20	33.1	82.2	3.06	0.31	80.9	7.54
FM 2484B2F	Bayer-Fibermax	3.52	1.19	31.4	80.7	2.19	0.21	82.7	7.16
PHY 725RF	Phytogen	3.84	1.20	35.0	81.9	2.63	0.26	78.6	8.34
DAYTONA RF	Bayer	3.84	1.18	34.3	82.1	2.94	0.30	79.6	8.08
MEAN		3.74	1.18	32.9	81.6	2.53	0.25	80.6	7.73
LSD 0.05		0.12	0.02	0.7	0.6	0.4	0.07	0.6	0.19
%CV		4.3	1.3	2.7	1.0	21.7	37.8	1.0	3.3
P		0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000

Variety by Location Difference

LSD 0.05	0.25	0.03	NS		NS	NS	NS	
LSD 0.10				0.7				0.27
%CV	4.8	1.7	2.9	0.7	20.4	31.5	1.4	2.9
P	0.008	0.017	0.321	0.075	0.434	0.502	0.613	0.074

2011 ACALA UC/SJVCB VARIETY TRIALS

MICRONAIRE

hvi data determined by Visalia USDA Classing Office

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE MICRONAIRE
PHY-72	3.58	3.98	4.43	4.03	4.00
FM 9170B2F	3.08	3.50	4.05	3.10	3.43
FM 1740B2F	3.38	3.93	4.33	3.48	3.78
FM 1845LLB2	3.20	3.98	4.20	3.75	3.78
FM 2484B2F	2.95	3.75	4.13	3.25	3.52
PHY 725RF	3.48	4.08	4.23	3.60	3.84
DAYTONA RF	3.50	3.98	4.45	3.43	3.84
MEAN	3.31	3.89	4.26	3.52	3.74
LSD 0.05	0.25	0.24	0.19	0.13	0.12
CV%	5.2	4.2	2.9	2.4	4.3
P	0.000	0.002	0.002	0.000	0.000

Variety by Location Difference

LSD 0.05	0.25
%CV	4.8
P	0.008

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LENGTH

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE LENGTH (inches)
PHY-72	1.18	1.23	1.20	1.18	1.20
FM 9170B2F	1.15	1.21	1.18	1.17	1.18
FM 1740B2F	1.12	1.14	1.11	1.10	1.12
FM 1845LLB2	1.18	1.21	1.21	1.20	1.20
FM 2484B2F	1.18	1.23	1.19	1.16	1.19
PHY 725RF	1.18	1.22	1.18	1.21	1.20
DAYTONA RF	1.16	1.18	1.17	1.19	1.18
MEAN	1.16	1.20	1.18	1.17	1.18
LSD 0.05	0.03	0.02	0.03	0.02	0.02
CV%	1.7	1.4	1.5	1.3	1.3
P	0.002	0.000	0.000	0.000	0.000

Variety by Location Difference

LSD 0.05	0.03
%CV	1.7
P	0.017

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STRENGTH

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE STRENGTH (g/Tex)
PHY-72	34.1	34.4	34.7	35.5	34.7
FM 9170B2F	30.7	32.4	31.3	32.2	31.6
FM 1740B2F	30.2	31.5	29.7	30.1	30.4
FM 1845LLB2	32.4	33.2	33.1	33.7	33.1
FM 2484B2F	29.8	32.2	31.2	32.3	31.4
PHY 725RF	34.8	35.3	34.3	35.5	35.0
DAYTONA RF	33.4	34.5	33.8	35.5	34.3
MEAN	32.2	33.4	32.6	33.5	32.9
LSD 0.05	1.7	1.0	1.0	1.4	0.7
CV%	3.6	2.1	2.0	2.9	2.7
P	0.000	0.000	0.000	0.000	0.000

Variety by Location difference

LSD 0.05	NS
%CV	2.9
P	0.321

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UNIFORMITY INDEX

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE UNIFORMITY INDEX
PHY-72	81.3	82.3	82.3	82.7	82.1
FM 9170B2F	80.3	81.5	81.5	81.1	81.1
FM 1740B2F	80.4	81.4	81.1	81.0	81.0
FM 1845LLB2	80.9	82.2	82.4	83.4	82.2
FM 2484B2F	79.9	81.6	80.5	80.8	80.7
PHY 725RF	81.1	82.6	81.8	82.1	81.9
DAYTONA RF	81.1	82.3	82.3	82.7	82.1
MEAN	80.7	82.0	81.7	82.0	81.6
LSD 0.05	NS	0.7	0.9	0.9	0.6
CV%	0.9	0.6	0.7	0.8	1.0
P	0.147	0.017	0.002	0.000	0.000

Variety by Location Difference

LSD 0.10	0.7
%CV	0.7
P	0.075

2011 ACALA UC/SJVCB VARIETY TRIALS

LEAF GRADE (Manual Classing)

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE LEAF GRADE (Manual Classing)
PHY-72	2.50	3.25	2.00	2.00	2.44
FM 9170B2F	2.00	3.50	1.75	2.25	2.38
FM 1740B2F	2.25	3.00	1.50	1.50	2.06
FM 1845LLB2	3.00	3.75	2.75	2.75	3.06
FM 2484B2F	2.50	3.00	1.75	1.50	2.19
PHY 725RF	3.00	3.25	1.75	2.50	2.63
DAYTONA RF	2.75	3.75	2.25	3.00	2.94
MEAN	2.57	3.36	1.96	2.21	2.53
LSD 0.05	0.60	NS	0.73	0.50	0.4
CV%	15.7	16.1	25.0	15.3	21.7
P	0.019	0.276	0.037	0.000	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	20.4
P	0.434

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HVI TRASH

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE HVI TRASH
PHY-72	0.25	0.33	0.13	0.18	0.22
FM 9170B2F	0.20	0.38	0.15	0.18	0.23
FM 1740B2F	0.23	0.25	0.13	0.15	0.19
FM 1845LLB2	0.35	0.45	0.23	0.23	0.31
FM 2484B2F	0.23	0.35	0.13	0.15	0.21
PHY 725RF	0.35	0.35	0.13	0.20	0.26
DAYTONA RF	0.28	0.40	0.20	0.33	0.30
MEAN	0.27	0.36	0.16	0.20	0.25
LSD 0.05		NS	0.07	0.08	0.07
LSD 0.10	0.10				
CV%	30.5	30.6	29.8	26.4	37.8
P	0.089	0.305	0.022	0.002	0.009

Variety by Location Difference

LSD 0.05	NS
%CV	31.5
P	0.502

2011 ACALA UC/SJVCB VARIETY TRIALS

COLOR (RD)

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE COLOR (RD)
PHY-72	77.3	77.8	78.6	81.0	78.7
FM 9170B2F	81.8	80.8	81.9	84.7	82.3
FM 1740B2F	80.5	80.2	82.5	83.3	81.6
FM 1845LLB2	80.6	79.3	80.7	83.0	80.9
FM 2484B2F	81.8	81.2	83.1	84.9	82.7
PHY 725RF	76.5	77.6	78.8	81.4	78.6
DAYTONA RF	78.6	78.8	79.5	81.3	79.6
MEAN	79.6	79.4	80.7	82.8	80.6
LSD 0.05	1.4	0.9	2.5	0.5	0.6
CV%	1.2	0.8	2.1	0.4	1.0
P	0.000	0.000	0.004	0.000	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	1.4
P	0.613

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COLOR (+B)

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Average of Four Locations (San Joaquin Valley)

VARIETY	SHAFTER	WAUKENA	WSREC	MENDOTA	AVERAGE COLOR (+B)
PHY-72	7.83	7.90	8.95	8.83	8.38
FM 9170B2F	6.40	6.65	7.80	7.33	7.04
FM 1740B2F	7.00	7.25	8.03	8.05	7.58
FM 1845LLB2	6.80	7.10	8.15	8.13	7.54
FM 2484B2F	6.23	7.13	7.83	7.45	7.16
PHY 725RF	7.80	7.98	8.93	8.65	8.34
DAYTONA RF	7.38	7.65	8.78	8.53	8.08
MEAN	7.06	7.38	8.35	8.14	7.73
LSD 0.05	0.35	0.37	0.36	0.17	0.19
CV%	3.4	3.4	2.9	1.4	3.3
P	0.000	0.000	0.000	0.000	0.000

Variety by Location Difference

LSD 0.10	0.27
%CV	2.9
P	0.074