2018 University of California UPLAND / ACALA COTTON VARIETY TRIAL

fiber quality - hvi results: Ginned at Shafter Station, analyzed at the USDA-AMS Classing Office - Visalia, CA — *8-Feb-19* *update*

Questions?

contact: Bob Hutmacher (Univ. CA)

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Cooperative Project by:

University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers&Ginners Assoc., CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.; Cotton Incorporated

Cooperators: multiple growers, Steve Wright, Dan Munk, Brian Marsh, Bill Weir, Lynn Sosnoskie, Mark Keeley, Raul Delgado, TariLee Frigulti, SJV Quality Cotton Growers Assoc.-Shafter, Univ CA Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties

Location: Shafter Research Station - Kern County

sandy loam soil, 38 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI TRASH	COLOR RD	COLOR +B
FM 1830GLT	4.45	1.26	34.8	83.0	6.75	1.50	69.5	6.30
FM 2334GLT	4.68	1.27	32.6	84.6	7.50	1.73	69.7	6.35
FM 2498GLT	5.40	1.22	32.3	83.9	7.75	1.85	68.0	6.75
FM 2574GLT	4.78	1.27	32.6	84.0	7.50	1.80	66.7	6.43
ST 5122GLT	4.63	1.21	32.3	82.7	7.75	1.80	67.7	6.38
ST 5818GLT	4.78	1.24	31.7	83.6	7.25	1.68	69.0	6.65
DAYTONA RF	4.60	1.25	35.1	84.7	7.75	2.23	62.3	6.73
DP 1646 B2XF	4.75	1.29	30.6	84.5	7.00	1.78	68.2	6.35
DP 1845 B3XF	4.40	1.30	32.5	84.1	8.00	2.93	65.3	6.13
DP 1851 B3XF	4.65	1.26	34.7	85.6	6.75	1.38	69.6	7.05
PHY 444WRF	4.73	1.29	31.8	85.2	6.75	1.60	69.5	7.08
PHY 764WRF	4.68	1.26	37.0	84.0	7.25	2.25	64.9	7.10
MEAN	4.71	1.26	33.2	84.2	7.33	1.88	67.5	6.61
LSD 0.05 [a]	0.34	0.04	1.4	1.3	NS	0.75	3.8	0.41
%CV [b]	5.0	2.2	2.9	1.1	10.1	27.7	3.9	4.4
P [c]	0.000	0.001	0.000	0.003	0.206	0.018	0.005	0.000

* **NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES** were separated from seed using a mini-gin. This ginning method differs from UCCE methods in prior years (mini-gin does not have commercial gin style cleaners). Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of mini-gin. All samples were handled in an identical manner in terms of mini-gin operations.

a LSD = least significant difference at 5% or 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

b C.V. = coefficient of variation across replications

c P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

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Location: University of CA West Side REC - Fresno County

clay loam soil, 40 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI TRASH	COLOR RD	COLOR +B
FM 1830GLT	4.60	1.23	34.9	83.8	7.25	1.63	70.3	7.90
FM 2334GLT	4.55	1.23	32.9	84.5	7.50	1.70	70.2	7.93
FM 2498GLT	5.38	1.19	32.4	83.9	7.50	2.00	70.0	7.90
FM 2574GLT	4.75	1.23	33.9	83.8	8.00	2.28	68.6	7.65
ST 5122GLT	4.58	1.16	31.6	82.4	8.00	2.18	67.6	7.93
ST 5818GLT	4.65	1.19	32.4	82.8	6.75	1.35	71.3	8.10
DAYTONA RF	4.58	1.21	36.1	85.0	8.00	2.38	67.1	9.15
DP 1646 B2XF	4.58	1.24	31.0	83.4	7.00	1.58	69.8	8.28
DP 1845 B3XF	4.13	1.28	32.8	84.2	8.00	2.33	67.9	8.20
DP 1851 B3XF	4.18	1.22	35.2	84.6	7.75	1.83	71.0	8.48
PHY 444WRF	3.98	1.28	32.5	83.7	7.00	1.63	69.8	8.48
PHY 764WRF	4.38	1.22	37.8	84.1	7.75	2.03	66.9	9.08
MEAN	4.53	1.22	33.6	83.9	7.54	1.91	69.2	8.26
LSD 0.05 [a]	0.23	0.03	1.2	1.2	0.88	0.54	2.9	0.52
%CV [b]	3.50	1.60	2.4	1.0	8.10	19.70	2.9	4.40
P [c]	0.00	0.00	0.0	0.0	0.04	0.00	0.0	0.00

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2018 University of California UPLAND ADVANCED STRAINS COTTON VARIETY TRIAL _ West Side REC site only

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Location: University of CA West Side REC - Fresno County

clay loam soil, 40 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI TRASH	COLOR RD	COLOR +B
BX 1921GL	5.10	1.17	34.3	83.4	8.00	2.13	67.3	8.18
BX 1971GLTP	5.43	1.20	32.6	84.0	6.50	1.45	71.7	7.90
BX 1972GLTP	4.50	1.19	32.9	83.3	7.25	1.70	71.3	7.60
BX 1973GLTP	4.68	1.18	32.9	84.0	8.00	1.95	67.5	8.73
BX 1974GLTP	4.48	1.22	33.4	83.9	7.50	1.63	69.5	8.45
BX 1975GLTP	4.88	1.17	31.5	83.5	7.25	1.93	67.8	8.78
BX 1976GLTP	5.13	1.16	33.3	83.5	6.50	1.53	71.6	7.93
FM 2334GLT	4.78	1.23	33.8	83.3	6.75	1.45	71.9	7.90
FM 2498GLT	5.43	1.20	32.4	83.6	7.50	1.75	69.5	8.00
FM 1830GLT	4.65	1.20	32.7	83.4	7.25	1.78	68.4	8.43
MON 16R346B3XF	4.38	1.24	33.4	83.3	8.00	2.33	68.3	8.03
DP 1845B3XF	4.20	1.25	33.7	83.6	8.00	2.40	67.5	7.88
DP 1646B3XF	4.78	1.22	31.7	83.1	6.50	1.58	72.8	8.05
17R931NRB3XF	4.55	1.19	33.1	84.1	7.75	1.95	68.8	8.53
17R818B3XF	5.03	1.19	32.8	84.2	6.25	1.33	72.2	8.05
17R820B3XF	4.75	1.18	33.8	84.3	6.00	1.33	71.6	9.05
17R738XF	4.73	1.18	32.5	84.4	7.75	2.10	68.7	8.15
CPS 18501-B B3XF	4.20	1.26	34.1	85.0	7.75	2.20	68.4	8.30
CPS 18502-A B3XF	4.80	1.22	32.4	84.7	7.00	1.85	70.0	8.40
MEAN	4.76	1.20	33.0	83.8	7.24	1.81	69.7	8.23
LSD 0.05 [a]	0.34	0.04	1.3	NS	1.14	0.59	3.1	0.49
%CV [b]	5.0	2.1	2.8	1.1	11.1	22.9	3.2	4.2
P [c]	0.000	0.000	0.003	0.234	0.003	0.005	0.003	0.000

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