2018 University of California PIMA COTTON VARIETY TRIALS

7-Feb-19 *update*

Questions?

contact: Bob Hutmacher (Univ. CA)

Cell: (559) 260-8957

email: rbhutmacher@ucdavis.edu

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.

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: Corcoran area - Hansen Ranches (Kings County)

clay loam soil, 30 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
DP 341RF	4.73	1.47	48.3	87.6	7.00	6.50	3.15	57.3	10.9
DP 348RF	4.93	1.42	48.4	87.5	7.00	7.00	4.05	54.7	11.1
PHY 841RF	5.05	1.44	45.1	87.0	7.00	6.75	3.58	55.5	11.3
PHY 881RF	5.03	1.47	45.8	87.5	7.00	6.50	3.20	56.8	11.0
PHY 888RF	4.75	1.46	45.1	87.2	7.00	7.00	3.53	55.5	11.2
DP 358RF	4.88	1.42	46.4	87.6	7.00	7.00	3.60	55.8	11.0
MEAN	4.90	1.45	46.52	87.40	7.00	6.79	3.52	55.93	11.08
LSD 0.05 [a]	0.23	0.02	NS	NS	NS	NS	0.54	NS	NS
%CV [b]	3.10	1.10	5.0	0.5	-	5.80	10.10	2.5	2.3
P [c]	0.040	0.002	0.187	0.408	-	0.225	0.032	0.147	0.233

* 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 a table top style 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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email: rbhutmacher@ucdavis.edu	**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: Los Banos area - Bowles Farms (Merced County)

clay loam soil, 30 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	COLOR +B
DP 341RF	3.73	1.46	44.0	87.0	7.00	5.75	2.78	58.4	11.5
DP 348RF	4.08	1.46	43.9	87.0	7.00	5.25	2.20	58.9	11.9
PHY 841RF	3.93	1.47	45.5	87.3	7.00	5.25	1.90	59.9	12.0
PHY 881RF	3.85	1.49	44.3	87.1	7.00	5.50	2.30	59.4	11.7
PHY 888RF	3.85	1.48	43.6	86.1	7.00	5.50	2.30	59.3	11.8
HA 1432	4.15	1.36	41.6	85.2	7.00	5.25	1.95	62.2	10.7
MEAN	3.93	1.45	43.82	86.62	7.00	5.42	2.24	59.68	11.60
LSD 0.05 [a]	0.26	0.02	2.3	0.9	NS	NS		2.1	0.3
LSD 0.10 [a]							0.46		
%CV [b]	4.40	1.10	3.4	0.7	-	10.80	16.70	2.3	1.8
P [c]	0.030	0.000	0.001	0.001	-	0.783	0.055	0.020	0.000

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Location: Stratford / Huron area - AZCAL Mgmt. /Sheely Farms (Fresno/Kings County)

clay loam soil, 40 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
DP 341RF	4.40	1.43	46.4	86.8	7.00	6.00	2.70	57.9	11.7
DP 348RF	4.33	1.45	46.8	87.8	7.00	5.67	2.90	58.0	11.9
PHY 841RF	4.60	1.44	45.3	86.6	7.00	6.00	2.93	58.9	11.7
PHY 881RF	4.43	1.44	45.5	87.4	7.00	5.33	1.97	60.3	11.6
PHY 888RF	4.53	1.45	44.9	86.8	7.00	5.33	2.70	58.7	11.9
PHY 802RF	4.20	1.45	45.6	87.5	7.00	5.67	2.80	59.3	11.7
MEAN	4.42	1.44	45.75	87.15	7.00	5.67	2.67	58.85	11.75
LSD 0.05 [a]		NS	NS	NS	NS	NS		NS	NS
LSD 0.10 [a]	0.22						0.53		
%CV [b]	3.30	1.00	3.5	0.7	-	10.20	13.30	2.5	1.8
P [c]	0.077	0.280	0.712	0.133	-	0.574	0.065	0.388	0.385

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Location: West Side Research and Extension Center (Fresno County)

clay loam soil, 40 inch row spacing

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
DP 341RF	3.98	1.47	44.9	87.8	7.00	5.25	2.45	60.8	11.5
DP 348RF	3.73	1.42	43.5	87.6	7.00	5.75	3.18	58.9	12.0
PHY 841RF	3.93	1.46	43.8	87.4	7.00	5.00	2.43	60.6	12.1
PHY 881RF	3.60	1.48	42.4	87.1	7.00	5.25	2.68	60.0	11.7
PHY 888RF	3.90	1.49	41.1	86.9	7.00	6.00	3.00	58.1	11.9
HA 1432	3.78	1.38	39.3	86.0	7.00	5.00	2.18	64.2	10.6
PHY 802RF	3.78	1.48	43.0	87.0	7.00	5.50	3.23	59.4	11.5
DP 358RF	3.70	1.46	43.0	87.8	7.00	5.50	3.50	59.6	11.6
PHY 805RF	3.80	1.44	42.3	86.9	7.00	5.25	3.18	59.7	11.8
MEAN	3.80	1.45	42.6	87.2	7.00	5.39	2.87	60.1	11.6
LSD 0.05 [a]	NS	0.03	2.2	NS	NS	NS	NS	2.4	0.4
%CV [b]	6.10	1.50	3.5	0.9	-	9.80	22.90	2.7	2.4
P [c]	0.425	0.000	0.004	0.129	-	0.142	0.106	0.001	0.000

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