

2018 University of California PIMA COTTON VARIETY TRIALS						7-Feb-19 update			
Questions?						Cooperative Project by:			
contact: Bob Hutmacher (Univ. CA)			University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC						
Cell: (559) 260-8957			<b>Funding by:</b> CA Cotton Growers&Ginners Assoc., CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.						
email: rbhutmacher@ucdavis.edu			<b>Cooperators:</b> 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						
<b>Location: Corcoran area - Hansen Ranches (Kings County)</b>									
clay loam soil, 30 inch row spacing									
						MANUAL CLASSING			
	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
VARIETY									
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 <sup>a</sup>	0.23	0.02	NS	NS	NS	NS	0.54	NS	NS
%CV <sup>b</sup>	3.10	1.10	5.0	0.5	-	5.80	10.10	2.5	2.3
P <sup>c</sup>	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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**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		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+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 <sup>a</sup>	0.26	0.02	2.3	0.9	NS	NS		2.1	0.3
LSD 0.10 <sup>a</sup>							0.46		
%CV <sup>b</sup>	4.40	1.10	3.4	0.7	-	10.80	16.70	2.3	1.8
P <sup>c</sup>	0.030	0.000	0.001	0.001	-	0.783	0.055	0.020	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 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)

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<b>Location: Stratford / Huron area - AZCAL Mgmt. /Sheely Farms (Fresno/Kings County)</b>										
clay loam soil, 40 inch row spacing										
						MANUAL				
						CLASSING				
	MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	HVI	COLOR		
VARIETY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	COLOR	TRASH	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 <sup>a</sup>		NS	NS	NS	NS	NS		NS	NS	
LSD 0.10 <sup>a</sup>	0.22						0.53			
%CV <sup>b</sup>	3.30	1.00	3.5	0.7	-	10.20	13.30	2.5	1.8	
P <sup>c</sup>	0.077	0.280	0.712	0.133	-	0.574	0.065	0.388	0.385	
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<b>Location: West Side Research and Extension Center (Fresno County)</b>									
clay loam soil, 40 inch row spacing									
						MANUAL CLASSING			
	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
VARIETY									
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 <sup>a</sup>	NS	0.03	2.2	NS	NS	NS	NS	2.4	0.4
%CV <sup>b</sup>	6.10	1.50	3.5	0.9	-	9.80	22.90	2.7	2.4
P <sup>c</sup>	0.425	0.000	0.004	0.129	-	0.142	0.106	0.001	0.000
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