2017 University of California PIMA COTTON VARIETY TRIALS

5-Mar-18 update

fiber quality - hvi results: Ginned at Shafter Station, analyzed at the USDA-AMS Classing Office - Visalia, CA

Questions?

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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.

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

Location: Buttonwillow area (Bone Farm) - Kern County

VARIETY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
DP 348RF	4.35	1.44	46.6	87.7	7.00	5.25	2.03	60.6	11.4
DP 358RF	4.13	1.45	45.4	87.9	7.00	5.00	2.25	62.4	11.2
MON 16R330R2P	4.10	1.44	45.5	87.4	7.00	5.25	2.70	60.7	11.2
MON 16R341R2P	4.30	1.46	46.6	87.4	7.00	5.00	2.30	61.4	11.2
OA EXP. 16-48	4.43	1.44	45.4	87.6	7.00	4.75	2.40	62.3	11.2
PHY 841RF	4.58	1.48	44.6	87.5	6.50	4.75	1.60	62.7	11.2
PHY 881RF	4.53	1.50	47.8	88.1	6.50	4.50	1.70	64.0	11.2
PHY 888RF	4.33	1.50	44.7	88.4	7.00	5.75	2.33	60.6	11.2
MEAN	4.34	1.46	45.8	87.8	6.88	5.03	2.16	61.8	11.2
LSD 0.05	0.25	0.03	1.9	NS	NS	NS	0.42	2.0	NS
%CV	3.9	1.5	2.8	0.7	5.7	11.0	13.2	2.2	2.1
P	0.006	0.001	0.030	0.314	0.263	0.108	0.000	0.012	0.820

*** 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)