2017 University of California PIMA COTTON VARIETY TRIALS

January 25, 2018 update

Seed cotton yields, mini-gin calculated lint percent and gin turnout, calculated lint yield averages

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

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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 (Kern County)

HARVEST DATE: 10 / 26

Row spacing = 38 inches

VARIETY	SEED COMPANY	SEED COTTON (lbs/acre)	MINI-GIN LINT PERCENT (%)	MINI-GIN GIN TURNOUT (%)	LINT YIELD* *(calculated as seed cotton yield times Mini-Gin Turnout)	LINT YIELD (as % of Phy-841 RF yield)	SEEDCOTTON YIELD (as % of Phy-841 RF yield)
DP 348 RF	DPL / Monsanto	3464	39.7	38.3	1329	81	85
DP 358 RF	DPL / Monsanto	3338	38.8	37.3	1245	76	82
MON 16R 330 R2P	Monsanto	3383	39.7	38.1	1289	79	83
MON 16R 341 R2P	Monsanto	3928	40.7	38.9	1527	94	96
OA EXP 16-48	Monsanto / Olvey & Assoc.	3564	40.0	38.7	1378	84	87
PHY 841RF	Phytogen	4089	41.5	40.0	1633	100	100
PHY 881 RF	Phytogen	3973	40.8	39.4	1564	96	97
PHY 888 RF	Phytogen	3871	40.8	39.0	1509	92	95
HA 1432	Hazera						
HA 690	Hazera						
MEAN		3701	40.3	38.7	1434		
[a] LSD 0.05		259	0.9	0.9	122		
[a] LSD 0.10							
[b] %CV		4.8	1.5	1.6	5.8		
[c] P		0.000	0.000	0.000	0.000		

*** NOTE: LINT YIELD VALUES** shown were calculated using a mini-gin. This simple 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, so gin turnout and lint percent numbers represent relative variety differences.

[a] LSD = least significant difference at 5% 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)