2019 University of California - UPLAND VARIETY TRIAL - West Side REC site

February 11, 2020 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, Dan Munk, Brian Marsh, Lynn Sosnoskie, Bill Weir, Mark Keeley, Raul Delgado, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **West Side Research and Extension Center - Univ. of California - Five Points area - Fresno County**

HARVEST DATE: 10/25

row spacing = 40 inches

PLANTING DATE: 4/19

VARIETY	SEED COMPANY	SEED COTTON LBS/A	Mini-Gin GIN T.O. %	LINT YIELD* (calculated as seed cotton yield times mini-gin turnout) LBS/A	LINT YIELD (calculated as a % of Phy-764 WRF Yield) [d]	SEEDCOTTON YIELD (calculated as a % of Phy-764 WRF Yield) [d]
FM 1830 GLT	BASF Fibermax	5885	44.9	2638	97	94
ST 4550 GLTP	BASF Stoneville	6259	47.3	2960	109	100
FM 2398 GLTP	BASF Fibermax	5558	45.6	2536	93	89
ST 5600 B2XF	BASF Stoneville	5644	44.6	2517	93	90
ST 5707 B2XF	BASF Stoneville	6073	41.1	2497	92	97
FM 2498 GLT	BASF Fibermax	6251	44.5	2780	102	100
ST 5471 GLTP	BASF Stoneville	5915	44.2	2616	96	94
FM 2574 GLT	BASF Fibermax	5515	46.9	2583	95	88
PHY 764 WRF	Phytogen	6265	43.4	2719	100	100
DP 1646 B2XF	Delta Pine / Bayer	6131	46.3	2838	104	98
DP 1820 B3XF	Delta Pine / Bayer	5080	45.9	2332	86	81
DP 1845 B3XF	Delta Pine / Bayer	5744	46.2	2652	98	92
MEAN		5860	45.1	2639		
LSD 0.05 [a]		449	1.0	210		
%CV [b]		5.3	1.5	5.5		
P [c]		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 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 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)

[d] = *PHY 764 WRF used for comparison since it was the Upland variety with the largest commercial acreage planted in the San Joaquin Valley in 2019*