2019 University of California - UPLAND ADVANCED STRAINS 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: 10/28

row spacing = 40 inches

PLANTING DATE: 4/22

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]
DGX 19001 B3XF	Dynagro	6032	43.4	2619	114	110
DGX 19014 B3XF	Dynagro	5626	43.7	2457	107	103
DGX H929 B3XF	Dynagro	6003	42.9	2573	112	110
BX 2002 GL	BASF	4751	47.1	2240	97	87
BX 2005 GLT	BASF	5727	46.5	2659	115	105
BX 2037 GLT	BASF	5019	46.6	2339	102	92
BX 2016 GLTP	BASF	5534	40.9	2265	98	101
BX 2022 GLTP	BASF	6203	45.3	2815	122	113
BX 2076 GLTP	BASF	5005	43.5	2179	95	92
FM 2398 GLTP	BASF-Fibermax	5162	45.7	2358	102	94
FM 2498 GLT	BASF-Fibermax	5672	43.6	2473	107	104
ST 5600 B2XF	BASF-Stoneville	5184	44	2277	99	95
ST 5707 B2XF	BASF-Stoneville	5920	39.7	2350	102	108
FM 1621 GL	BASF-Fibermax	5667	47.5	2693	117	104
18 R411 B3XF	Delta Pine / Bayer	6362	44.2	2810	122	116
18 R421 B3XF	Delta Pine / Bayer	6248	44.1	2757	120	114
18 R423 B3XF	Delta Pine / Bayer	5738	41.0	2353	102	105
18 R438 B3XF	Delta Pine / Bayer	5324	46.9	2500	109	97
18 R445 B3XF	Delta Pine / Bayer	5583	44.5	2484	108	102
18 R448 B3XF	Delta Pine / Bayer	5845	42.9	2507	109	107
PHY 764 WRF	Phytogen	5467	42.1	2304	100	100
MEAN		5622	44.1	2477		
LSD 0.05 [a]		465	1.0	214		
%CV [b]		5.8	1.6	6.1		
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*