2018 University of California UPLAND / ACALA VARIETY TRIAL

February 3, 2019 update

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

Questions?

contact: Bob Hutmacher (Univ. CA)

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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, Cotton Incorporated, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: Steve Wright, Dan Munk, Brian Marsh, Bill Weir, Lynn Sosnoskie, Mark Keeley, Raul Delgado, TariLee Frigulti-Schramm

SJV Quality Cotton Growers Assoc.-Shafter, Univ CA Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties

LOCATION: Shafter Research Station - Kern County (field #19)

Harvest Date: 11/15/2018

sandy loam soil, 38 inch row spacing

VARIETY	SEED COMPANY	SEED COTTON LBS/A	Mini-Gin LINT PERCENT %	Mini-Gin GIN TURNOUT %	LINT YIELD* (calculated as seed cotton yield times mini-gin turnout) LBS/A
FM 1830GLT	Bayer / BASF	5255	45.3	44.2	2322
FM 2334GLT	Bayer / BASF	5230	45.4	44.5	2327
FM 2498GLT	Bayer / BASF	5470	46.3	45.4	2487
FM 2574GLT	Bayer / BASF	5358	49.0	47.7	2553
ST 5122GLT	Bayer / BASF	5551	44.9	43.7	2429
ST 5818GLT	Bayer / BASF	5369	43.7	42.6	2289
DAYTONA RF	Bayer / BASF	4837	47.1	45.8	2216
DP 1646 B2XF	Monsanto / DPL	5898	46.7	45.7	2696
DP 1845 B3XF	Monsanto / DPL	5207	47.2	46.3	2413
DP 1851 B3XF	Monsanto / DPL	5412	45.1	43.8	2369
PHY 444WRF	Phytogen	5170	46.4	45.2	2334
PHY 764WRF	Phytogen	5289	44.6	43.4	2294
MEAN		5337	46.0	44.9	2394
LSD 0.05		448	1.1	1.0	195
%CV		5.8	1.6	1.6	5.7
P		0.016	0.000	0.000	0.001

*** 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)

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February 3, 2019 update

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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, Cotton Incorporated, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: Steve Wright, Dan Munk, Brian Marsh, Bill Weir, Lynn Sosnoskie, Mark Keeley, Raul Delgado, TariLee Frigulti-Schramm

SJV Quality Cotton Growers Assoc.-Shafter, Univ CA Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties

LOCATION: West Side Research & Extension Center - Fresno County (field #14)

HARVEST DATE: 11/08/2019

clay loam soil, 40 inch row spacing

VARIETY	SEED COMPANY	SEED COTTON LBS/A	Mini-Gin LINT PERCENT %	Mini-Gin GIN TURNOUT %	LINT YIELD* (calculated as seed cotton yield times mini-gin turnout) LBS/A
FM 1830GLT	Bayer / BASF	5668	46.6	45.4	2573
FM 2334GLT	Bayer / BASF	5309	46.3	44.8	2380
FM 2498GLT	Bayer / BASF	5750	46.3	45.2	2596
FM 2574GLT	Bayer / BASF	5504	49.4	47.9	2637
ST 5122GLT	Bayer / BASF	5915	45.6	44.1	2607
ST 5818GLT	Bayer / BASF	5787	44.9	43.6	2520
DAYTONA RF	Bayer / BASF	4480	47.0	45.6	2040
DP 1646 B2XF	Monsanto / DPL	6163	48.1	46.7	2877
DP 1845 B3XF	Monsanto / DPL	5858	48.9	47.7	2794
DP 1851 B3XF	Monsanto / DPL	6189	45.9	44.7	2770
PHY 444WRF	Phytogen	5656	46.4	45.2	2554
PHY 764WRF	Phytogen	5801	45.3	43.6	2527
MEAN		5673	46.7	45.4	2573
LSD 0.05		375	0.8	0.9	182
%CV		4.6	1.2	1.3	4.9
P		0	0.000	0.000	0.000

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2018 University of California UPLAND ADVANCED STRAINS VARIETY TRIAL

February 3, 2019 update

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

Questions?

contact: Bob Hutmacher (Univ. CA)

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email: rbhutmacher@ucdavis.edu

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, Cotton Incorporated, 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: West Side Research & Extension Center - Fresno County (Field #14)

HARVEST DATE: 11/03

clay loam soil, 40 inch row spacing

VARIETY	SEED COMPANY	SEED COTTON LBS/A	Mini-Gin LINT PERCENT %	Mini-Gin GIN TURNOUT %	LINT YIELD* (calculated as seed cotton yield times mini-gin turnout) LBS/A
BX 1921GL	Bayer / BASF	5406	49.0	47.7	2578
BX 1971GLTP	Bayer / BASF	5764	48.7	47.7	2748
BX 1972GLTP	Bayer / BASF	5458	44.1	43.1	2352
BX 1973GLTP	Bayer / BASF	6123	49.0	47.5	2907
BX 1974GLTP	Bayer / BASF	5620	48.9	47.2	2658
BX 1975GLTP	Bayer / BASF	5653	48.3	47.0	2658
BX 1976GLTP	Bayer / BASF	5274	47.1	45.8	2418
FM 2334GLT	Bayer / BASF	5322	46.3	45.1	2400
FM 2498GLT	Bayer / BASF	6021	46.5	45.1	2716
FM 1830GLT	Bayer / BASF	5346	47.4	46.0	2462
MON 16R346B3XF	Monsanto / DPL	5639	46.6	45.6	2569
DP 1845B3XF	Monsanto / DPL	5862	49.0	48.1	2818
DP 1646B3XF	Monsanto / DPL	5864	48.1	46.9	2750
17R931NRB3XF	Monsanto / DPL	5536	48.6	47.5	2632
17R818B3XF	Monsanto / DPL	5934	45.9	44.7	2655
17R820B3XF	Monsanto / DPL	5605	47.2	46.2	2589
17R738XF	Monsanto / DPL	4612	48.2	47.1	2174
CPS 18501-B B3XF	All-Tex	5685	46.0	45.0	2560
CPS 18502-A B3XF	All-Tex	5436	46.4	45.4	2470
MEAN		5587	47.4	46.2	2585
LSD 0.05		509	1.0	1.3	261
%CV		6.4	1.5	2.0	7.1
P		0.000	0.000	0.000	0.000

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