2017 University of California UPLAND / ACALA COTTON VARIETY TRIAL

January 25, 2018 update

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

Questions?	Cooperative Project by:
contact: Bob Hutmacher (Univ. CA)	University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC
Cell: (559) 260-8957	**Funding by**: CA Cotton Growers&Ginners Assoc., CA Cotton Alliance, Cotton Incorporated, UC-ANR/UCCE, UC Davis Plant Sci. Dept.
email: rbhutmacher@ucdavis.edu	**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 12) HARVEST DATE: 11/03

row spacing = 40 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-725RF yield)	SEEDCOTTON YIELD (as % of Phy-725 RF yield)
PHY 725RF	Phytogen	4878	42.2	41.1	2006	100	100.0
PHY 764WRF	Phytogen	4798	45.5	44.1	2114	105	98.4
DAYTONA RF	Bayer	4215	46.5	45.0	1896	95	86.4
FM 1830GLT	Bayer	4565	47.4	45.7	2086	104	93.6
FM 1888 GL	Bayer	4479	45.7	44.5	1991	99	91.8
FM 1953 GLTP	Bayer	4702	43.9	42.5	1998	100	96.4
ST 5020 GLT	Bayer	4955	45.2	43.8	2172	108	101.6
DP 1646 B2XF	Monsanto / Delta Pine	4898	48.1	46.3	2270	113	100.4
DP 1639 B2XF	Monsanto / Delta Pine	4392	48.0	46.5	2043	102	90.0
DP 1522 B2XF	Monsanto / Delta Pine	5086	47.4	45.7	2321	116	104.3
DP 1725 B2XF	Monsanto / Delta Pine	4347	48.9	47.3	2055	102	89.1
DP 1555 B2XF	Monsanto / Delta Pine	4388	46.8	45.3	1985	99	90.0
MEAN		4642	46.3	44.8	2078		
[a] LSD 0.05		480	0.7	0.9	222		
[b] %CV		7.2	1.1	1.3	7.4		
[c] P		0.010	0.000	0.000	0.018		

*** 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)

MINI-GIN versus SHAFTER RESEARCH GIN COMPARISON from prior years

from prior years (2015-2016 as shown, not 2017)

for information purposes - comparison, since 2017 trial data all based on mini-gin processing

2016 University of California UPLAND / ACALA COTTON VARIETY TRIAL

Dec. 21, 2016

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

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LOCATION: West Side Research & Extension Center - Fresno County (FIELD 16)

HARVEST DATE: 10/14

row spacing = 40 inches

VARIETY	SEED COMPANY	SEED COTTON (lbs/acre)	2016 MINI-GIN LINT PERCENT (%)	2016 MINI-GIN GIN TURNOUT (%)	for comparison: GIN TURNOUTS PERCENT from **2015** COTTON TRIALS ***(**2015 analyses done using Shafter Research Gin)***	
					West Side REC	Shafter REC
PHY 725RF	Phytogen	6118	42.1	40.8	32.6	32.1
PHY 764WRF	Phytogen	5555	46.1	45.0	34.8	33.9
DAYTONA RF	Bayer	5444	46.5	45.2	35.8	36.2
FM 1830GLT	Bayer	5852	47.2	45.1	35.9	37.4
FM 1900GLT	Bayer	5745	45.1	44.2	34.7	35.7
FM 1911GLT	Bayer	5436	46.6	45.2		
FM 2007GLT	Bayer	5998	44.4	43.1	33.1	34
FM 2334GLT	Bayer	5530	46.4	45.2	35.7	37.2
DP 1614B2XF	Monsanto / Delta Pine	5874	48.9	47.4		
DP 1555B2RF	Monsanto / Delta Pine	5888	48.5	46.2		
DP 1646B2XF	Monsanto / Delta Pine	6452	48.7	47.1		
DP 1639B2XF	Monsanto / Delta Pine	6055	49.3	47.8		
BX 1739GLT	Bayer	5079	47.7	46.4		
MEAN		5771	46.7	45.3	* if values not shown, not in 2015 trials	

** Shafter Research Gin is a smaller scale, commercial type gin with lint cleaners
The lint yields shown on the SUMMARY PAGE for this site were determined using the mini-gin turnout % data, which tends to be significantly higher than a more standard type of gin (such as the "Shafter Research Gin" which incorporates lint cleaners.
2015 trial gin turnouts determined using the "Shafter Research Gin" are provided for information only. Since they were determined using different fields in a different year, there is no expectation that the same gin turnouts would apply for 2016 field sites.

2017 University of California UPLAND / ACALA COTTON VARIETY TRIAL

January 23, 2018 update

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

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LOCATION: **Shafter Research Station (SJV Quality Cotton Grower station)** **Field 15** HARVEST DATE: 11/10

row spacing = 40 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-725RF yield)	SEEDCOTTON YIELD (as % of Phy-725 RF yield)
PHY 725RF	Phytogen	3851	41.0	39.0	1503	100	100.0
PHY 764WRF	Phytogen	3648	42.5	40.7	1482	99	94.7
DAYTONA RF	Bayer	3017	45.4	43.5	1312	87	78.3
FM 1830GLT	Bayer	3665	45.2	43.3	1590	106	95.2
FM 1888 GL	Bayer	3464	44.2	42.7	1478	98	90.0
FM 1953 GLTP	Bayer	3650	42.0	40.4	1477	98	94.8
ST 5020 GLT	Bayer	4218	44.7	43.3	1826	121	109.5
DP 1646 B2XF	Monsanto / Delta Pine	3897	45.9	43.9	1718	114	101.2
DP 1639 B2XF	Monsanto / Delta Pine	3577	46.3	44.4	1592	106	92.9
DP 1522 B2XF	Monsanto / Delta Pine	3559	43.8	42.1	1501	100	92.4
DP 1725 B2XF	Monsanto / Delta Pine	3982	47.6	45.9	1830	122	103.4
DP 1555 B2XF	Monsanto / Delta Pine	4181	45.5	43.6	1822	121	108.6
MEAN		3726	44.5	42.7	1594		
[a] LSD 0.05			1.4	1.6			
[a] LSD 0.10		593			281		
[b] %CV		13.3	2.1	2.6	14.8		
[c] P		0.100	0.000	0.000	0.054		

*** 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.

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