

2018 University of California PIMA COTTON VARIETY TRIALS							February 2, 2019 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		<b>Funding by:</b> CA Cotton Growers&Ginners Assoc., CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.								
email: rbhutmacher@ucdavis.edu		<b>Cooperators:</b> multiple growers, Steve Wright, Dan Munk, Brian Marsh, Lynn Sosnoskie, Bill Weir, Mark Keeley, Raul Delgado, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station								
<b>LOCATION: LOS BANOS area - Merced County (Bowles Farms)</b>							HARVEST DATE: 10/29			
row spacing = 30 inches										
					LINT YIELD*					
		SEED COTTON	Mini-Gin	GIN	(calculated as seed cotton yield times mini-gin turnout)	LINT YIELD	SEEDCOTTON YIELD			
VARIETY	SEED COMPANY	LBS/A	LINT %	T.O. %	LBS/A	(calculated as a % of Phy-881 RF Yield) <sup>d</sup>	(calculated as a % of Phy-881 RF Yield) <sup>d</sup>			
DP 341RF	Monsanto / DPL	4503	42.6	41.0	1844	89	89			
DP 348RF	Monsanto / DPL	5132	42.3	40.5	2076	100	101			
PHY 841RF	Phytogen	5102	43.0	41.3	2109	102	101			
PHY 881RF	Phytogen	5071	42.6	40.8	2069	100	100			
PHY 888RF	Phytogen	5017	42.0	40.4	2024	98	99			
HA 1432	Hazera	7676	39.3	38.0	2916	141	151			
MEAN		5417	42.0	40.3	2173					
LSD 0.05 <sup>a</sup>		539	0.9	0.8	214					
%CV <sup>b</sup>		6.6	1.5	1.3	6.5					
P <sup>c</sup>		0.000	0.000	0.000	0.000					
<b>* NOTE: LINT YIELD VALUES</b> 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.										
<sup>a</sup> LSD = least significant difference at 5% level (differences in mean values shown that differ by more than LSD value shown are significantly different)										
<sup>b</sup> C.V. = coefficient of variation across replications										
<sup>c</sup> 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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<b>LOCATION: CORCORAN area - Kings County (Hansen Ranches)</b>							Harvest Date: 10/27	
row spacing = 30 inches								
					LINT YIELD*			
		SEED COTTON	Mini-Gin	GIN	(calculated as seed cotton yield times mini-gin turnout)	LINT YIELD	SEEDCOTTON YIELD	
VARIETY	SEED COMPANY	LBS/A	LINT %	T.O. %	LBS/A	(calculated as a % of Phy-881 RF Yield) <sup>d</sup>	(calculated as a % of Phy-881 RF Yield) <sup>d</sup>	
DP 341RF	Monsanto / DPL	5834	41.4	40.0	2332	91	94	
DP 348RF	Monsanto / DPL	5985	42.1	40.9	2446	95	97	
PHY 841RF	Phytogen	5923	42.8	41.3	2448	95	96	
PHY 881RF	Phytogen	6185	42.7	41.6	2572	100	100	
PHY 888RF	Phytogen	5837	42.3	40.9	2389	93	94	
DP 358RF	Monsanto / DPL	6045	41.6	40.3	2438	95	98	
MEAN		5968	42.2	40.8	2438			
LSD 0.05 <sup>a</sup>			0.9	0.8	124			
LSD 0.10 <sup>a</sup>		203						
%CV <sup>b</sup>		2.7	1.4	1.3	3.4			
P <sup>c</sup>		0.062	0.015	0.010	0.021			
<b>* NOTE: LINT YIELD VALUES</b> 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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<b>LOCATION: STRATFORD / HURON area - Fresno County (AZCAL Mgmt - Sheely Farms)</b>							HARVEST DATE: 10/30	
row spacing = 40 inches								
					LINT YIELD*			
		SEED		Mini-Gin	(calculated as seed cotton yield	LINT YIELD	SEEDCOTTON YIELD	
		COTTON	Mini-Gin	GIN	times mini-gin turnout)	(calculated as a % of	(calculated as a % of	
VARIETY	SEED COMPANY	LBS/A	LINT %	T.O. %	LBS/A	Phy-881 RF Yield) <sup>d</sup>	Phy-881 RF Yield) <sup>d</sup>	
DP 341RF	Monsanto / DPL	6928	42.1	39.9	2768	96	103	
DP 348RF	Monsanto / DPL	7055	42.9	41.3	2917	101	105	
PHY 841RF	Phytogen	7064	44.3	42.5	3004	104	105	
PHY 881RF	Phytogen	6746	44.4	42.8	2887	100	100	
PHY 888RF	Phytogen	6932	43.1	41.4	2868	99	103	
PHY 802 RF	Phytogen	6907	42.7	41.0	2828	98	102	
MEAN		6939	43.3	41.5	2879			
LSD 0.05 <sup>a</sup>		NS	1.4	1.2	NS			
%CV <sup>b</sup>		3.4	1.8	1.6	3.2			
P <sup>c</sup>		0.612	0.026	0.003	0.122			
<b>* NOTE: LINT YIELD VALUES</b> 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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<b>LOCATION: WEST SIDE RESEARCH CENTER - Five Points area - Fresno County</b>							<b>HARVEST DATE: 11/05</b>			
row spacing = 40 inches		* very high early season lygus pressure								
					LINT YIELD*					
		SEED		Mini-Gin	(calculated as seed cotton yield	LINT YIELD	SEEDCOTTON YIELD			
		COTTON	Mini-Gin	GIN	times mini-gin turnout)	(calculated as a % of	(calculated as a % of			
VARIETY	SEED COMPANY	LBS/A	LINT %	T.O. %	LBS/A	Phy-881 RF Yield) <sup>d</sup>	Phy-881 RF Yield) <sup>d</sup>			
DP 341RF	Monsanto / DPL	4323	41.1	39.6	1711	132	133			
DP 348RF	Monsanto / DPL	3838	42.4	40.8	1557	120	118			
PHY 841RF	Phytogen	3231	41.8	40.1	1294	100	100			
PHY 881RF	Phytogen	3245	41.8	40.0	1296	100	100			
PHY 888RF	Phytogen	3715	42.3	40.7	1510	117	114			
HA 1432	Hazera	5467	37.6	36.4	1993	154	168			
PHY 802RF	Phytogen	3660	41.8	39.7	1451	112	113			
DP 358RF	Monsanto / DPL	3074	41.4	40.0	1228	95	95			
PHY 805RF	Phytogen	2932	42.9	41.2	1209	93	90			
MEAN		3721	41.5	39.8	1472					
LSD 0.05 <sup>a</sup>		729	1.7	1.6	265					
%CV <sup>b</sup>		13.4	2.8	2.7	12.3					
P <sup>c</sup>		0.000	0.000	0.000	0.000					
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