

2020 - University of California - PIMA COTTON VARIETY TRIALS						February 6, 2021 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, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, 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: <b>BONE FARMS - Buttonwillow area - Kern County</b>						HARVEST DATE:	10/30/2020	
row spacing:	38 inches							
PLANTING DATE:	4/21/2020							
		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>	
PHY 881 RF	Phytogen	4227	42.1	40.4	1705	100	100	
PX 854207 RF	Phytogen	4683	43.5	42	1967	115	111	
PX 852901 RF	Phytogen	4173	42.2	40.5	1691	99	99	
DP 341 RF	Bayer / DPL	4323	41.0	39.5	1708	100	102	
DP 359 RF	Bayer / DPL	4287	43.2	41.4	1777	104	101	
DP 347 RF	Bayer / DPL	4088	44.4	42.5	1738	102	97	
MEAN		4297	42.7	41.1	1764			
LSD 0.05 <sup>a</sup>		NS	1.2	1.3	NS			
%CV <sup>b</sup>		6.9	1.9	2.0	8.1			
P <sup>c</sup>		0.148	0.000	0.001	0.122			
* NOTE: LINT YIELD VALUES shown were calculated using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).								
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 NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance)								
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 881 RF used for comparison since it was the Pima variety with the largest commercial acreage planted in the San Joaquin Valley in 2020								

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LOCATION: <b>BOWLES FARMS - Dos Palos / Los Banos area - Merced County</b>						HARVEST DATE:	11/13/2020	
row spacing:	30 inches							
PLANTING DATE:	4/18/2020							
		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>	
PHY 881 RF	Phytogen	3073	40.8	39	1200	100	100	
PX 854207 RF	Phytogen	3402	42.2	40.7	1383	115	111	
PX 852901 RF	Phytogen	3134	41.9	40.2	1259	105	102	
DP 341 RF	Bayer / DPL	3566	41.1	39.5	1410	118	116	
DP 359 RF	Bayer / DPL	2832	42.9	40.5	1144	95	92	
DP 347 RF	Bayer / DPL	3134	45.4	43.6	1368	114	102	
MEAN		3190	42.4	40.6	1294			
LSD 0.05 <sup>a</sup>		420	0.8	1.0	169			
%CV <sup>b</sup>		8.7	1.3	1.6	8.7			
P <sup>c</sup>		0.028	0.000	0.000	0.021			
<b>* NOTE: LINT YIELD VALUES</b> shown were calculated using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).								
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LOCATION: <b>HANSEN RANCHES - Corcoran area - Kings County</b>						HARVEST DATE: 11/19/2020	
row spacing:	30 inches						
PLANTING DATE:	4/22/2020						
		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>
PHY 881 RF	Phytogen	5996	42.2	40.1	2404	100	100
PX 854207 RF	Phytogen	6106	42.5	40.1	2449	102	102
PX 852901 RF	Phytogen	6245	41.4	39.1	2442	102	104
DP 341 RF	Bayer / DPL	5641	41.7	39.6	2232	93	94
DP 359 RF	Bayer / DPL	6275	41.9	39.7	2491	104	105
DP 347 RF	Bayer / DPL	5745	44.2	41.8	2403	100	96
MEAN		6001	42.3	40.1	2404		
LSD 0.05 <sup>a</sup>		263	1.0	1.0	129		
%CV <sup>b</sup>		2.9	1.6	1.6	3.6		
P <sup>c</sup>		0.000	0.001	0.001	0.011		
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LOCATION: <b>SHEELY FARMS - AZCAL RANCH - Huron area - Fresno County</b>						HARVEST DATE:		11/4/2020		
row spacing:	40 inches									
PLANTING DATE:	4/17/2020									
		SEED		Mini-Gin	LINT YIELD*					
		COTTON	Mini-Gin	GIN	(calculated as seed cotton yield	LINT YIELD	SEEDCOTTON YIELD			
		LBS/A	LINT %	T.O. %	times mini-gin turnout)	(calculated as a % of	(calculated as a % of			
VARIETY	SEED COMPANY				LBS/A	Phy-881 RF Yield) <sup>d</sup>	Phy-881 RF Yield) <sup>d</sup>			
PHY 881 RF	Phytogen	4914	43.1	41.3	2029	100	100			
PX 854207 RF	Phytogen	5334	43.2	41.4	2207	109	109			
PX 852901 RF	Phytogen	5430	43.4	41.4	2244	111	111			
DP 341 RF	Bayer / DPL	4736	42.7	40.5	1917	94	96			
DP 359 RF	Bayer / DPL	5233	42.9	41.0	2146	106	106			
DP 347 RF	Bayer / DPL	5048	45.8	43.7	2206	109	103			
MEAN		5116	43.5	41.6	2125					
LSD 0.05 <sup>a</sup>		414	0.9	0.8	171					
%CV <sup>b</sup>		5.3	1.3	1.3	5.4					
P <sup>c</sup>		0.023	0.000	0.000	0.007					
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LOCATION: <b>WEST SIDE REC - Five Points area - Fresno County</b>						HARVEST DATE:		10/30/2020		
row spacing:	40 inches									
PLANTING DATE:	4/20/2020									
		SEED		Mini-Gin	LINT YIELD*					
		COTTON	Mini-Gin	GIN	(calculated as seed cotton yield	LINT YIELD	SEEDCOTTON YIELD			
		LBS/A	LINT %	T.O. %	times mini-gin turnout)	(calculated as a % of	(calculated as a % of			
VARIETY	SEED COMPANY				LBS/A	Phy-881 RF Yield) <sup>d</sup>	Phy-881 RF Yield) <sup>d</sup>			
PHY 881 RF	Phytogen	4168	44.8	41.8	1742	100	100			
PX 854207 RF	Phytogen	4403	45.5	42.2	1858	107	106			
PX 852901 RF	Phytogen	3781	44	41.5	1570	90	91			
DP 341 RF	Bayer / DPL	4400	42.9	40.3	1773	102	106			
DP 359 RF	Bayer / DPL	3878	44.0	41.4	1607	92	93			
DP 347 RF	Bayer / DPL	4071	47.0	44.4	1807	104	98			
HA 1432	Gowan / Hazera	5308	39.9	37.4	1988	114	127			
MEAN		4287	44.0	41.3	1764					
LSD 0.05 <sup>a</sup>		374	0.8	1.2	165					
%CV <sup>b</sup>		5.9	1.3	1.9	6.3					
P <sup>c</sup>		0.000	0.000	0.000	0.001					
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