2019 University of Califo	rnia PIMA COTTON VAR	RIETY TRIALS					February 13, 2020 update
Seed cotton yields, mini-g	in calculated lint percent a	and gin turnout,	calculated lint	yield average	S		
Questions?		Cooperative P					
contact: Bob Hutmacher (Univ.	. CA)		•	,	v. CA Davis Plant Sci Dept. / Univ.		
Cell: (559) 260-8957 email: rbhutmacher@ucdavis.e	٠				, CA Cotton Alliance, UC-ANR/UC Marsh, Lynn Sosnoskie, Bill Weir		
emaii. Ibhulmachei @ucdavis.e	du	_			rative Extension Tulare, Kings, Fre	•	
		San Joaquin Qua	itios,				
			,				
LOCATION: WEST SIDE	RESEARCH CENTER - F	ive Points area	- Fresno Co	unty		HARVEST DATE: 1	0/28
row spacing = 40 inches	* moderate to high early se	ason lygus pressu	ıre				
PLANTING DATE: 4/19					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) d	Phy-881 RF Yield) <sup>d</sup>
DP 341 RF	Monsanto / DPL	4417	41.5	40.9	1807	104	108
DP 348 RF	Monsanto / DPL	4020	42.2	41.4	1665	96	98
DP 359 RF	Monsanto / DPL	3712	42.8	42.0	1559	90	91
PHY PX8504 RF	Phytogen	3914	43.4	42.9	1677	97	96
PHY 881 RF	Phytogen	4092	42.8	42.4	1733	100	100
PHY 888 RF	Phytogen	4090	42.4	41.8	1711	99	100
HA 1432	Hazera	5940	38.9	38.7	2303	133	145
PHY 841 RF	Phytogen	4047	43.2	42.8	1732	100	99
MEAN	y.ogo	4279	42.2	41.6	1773		
LSD 0.05 <sup>a</sup>		528	0.8	0.7	213		
%CV <sup>b</sup>		8.4	1.4	1.1	8.2		
P °		0.000	0.000	0.000	0.000		
I		0.000	0.000	0.000	0.000		
					UCCE methods in prior years (mir		
					ming and ginning timing, and basic erations, so gin turnout and lint pe		
					alue shown are significantly differe		t relative variety unferences.
C.V. = coefficient of variation	-		29 1		and the state of t	,	
	n is 0.05 or less, there is great	•			,		
= PHY 881 RF used for comp	arison since it was the Pima v	ariety with the large	est commercial a	creage planted in	the San Joaquin Valley in 2019		

	rnia PIMA COTTON VAF						February 13, 2020 update		
Seed cotton yields, mini-g	in calculated lint percent	and gin turnout,	calculated lint	yield average	es				
Questions?		Cooperative P					T		
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, UC-ANR/UCCE, UC Davis Plant Sci. Dept.  Cooperators: multiple growers, Dan Munk, Brian Marsh, Lynn Sosnoskie, Bill Weir, Mark Keeley, Raul Delgado, Jorge Angeles,								
email: rbhutmacher@ucdavis.e	du	_							
					rative Extension Tulare, Kings, Fre fter Research Station; Various See		nties;		
		San Joaquin Qua	anty Cotton Grow	Vers AssocSna	Research Station, Various See	u Companies			
OCATION: HANSEN RAI	NCHES - Corcoran area	- Kings Count	у			HARVEST DATE: 11/15			
ow spacing = 30 inches	*some early season hail da	mage to field							
PLANTING DATE: 4/17	·				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) d	Phy-881 RF Yield) <sup>d</sup>		
DP 341 RF	Monsanto / DPL	4953	40.4	39.6	1959	95	96		
DP 348 RF	Monsanto / DPL	5120	39.4	38.7	1982	96	99		
DP 359 RF	Monsanto / DPL	5174	41.3	40.5	2093	102	100		
PHY PX8504 RF	Phytogen	5104	41.3	40.5	2068	101	99		
PHY 881 RF	Phytogen	5164	40.4	39.8	2057	100	100		
PHY 888 RF	Phytogen	5011	40.2	39.5	1977	96	97		
MEAN		5088	40.5	39.8	2023				
LSD 0.05 <sup>a</sup>			0.7	0.8	80				
LSD 0.10 <sup>a</sup>		132							
%CV <sup>b</sup>		2.1	1.2	1.4	2.6				
P <sup>c</sup>		0.061	0.001	0.002	0.010				
					UCCE methods in prior years (mir				
					ming and ginning timing, and basic perations, so gin turnout and lint pe				
					es in mean values shown that differ				
C.V. = coefficient of variation	across replications					-			
P = probability (if value showr					netween mean values shown) nthe San Joaquin Valley in 2019				

2019 University of Califo							February 13, 2020 update
Seed cotton yields, mini-g	in calculated lint percent a	and gin turnout,	calculated lint	yield average	S		
Questions?		Cooperative P					
contact: Bob Hutmacher (Univ.	. CA)			· · · · · · · · · · · · · · · · · · ·	v. CA Davis Plant Sci Dept. / Univ.		<b>D</b> .
Cell: (559) 260-8957 email: rbhutmacher@ucdavis.e	٠				, CA Cotton Alliance, UC-ANR/UC Marsh, Lynn Sosnoskie, Bill Weir,	· · · · · · · · · · · · · · · · · · ·	•
emaii: ronutmacher@ucdavis.e	du				ative Extension Tulare, Kings, Fre	•	
		San Joaquin Qua	illes,				
		Jan Jaqani Qa	<u>, co c.o</u>				
OCATION: FARMING D	- Five Points area - Fre	sno County				HARVEST DATE: 1	10/31
row spacing = 33 inches							
PLANTING DATE: 4/09					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 341 RF	Monsanto / DPL	5755	41.8	40.7	2340	105	108
DP 348 RF	Monsanto / DPL	5326	41.8	40.9	2179	98	100
DP 359 RF	Monsanto / DPL	5167	42.4	41.5	2143	97	97
PHY PX8504 RF	Phytogen	5168	42.6	41.7	2154	97	97
PHY 881 RF	Phytogen	5345	42.6	41.6	2220	100	100
PHY 888 RF	Phytogen	5425	42.3	41.1	2228	100	101
MEAN		5364	42.3	41.3	2211		
LSD 0.05 <sup>a</sup>		NS	0.6	0.5	NS		
%CV <sup>b</sup>		6.1	0.9	0.9	6.2		
P <sup>c</sup>		0.180	0.017	0.007	0.406		
NOTE: LINT YIELD VALUES	shown were calculated using	a mini-gin. This sir	mple ginning me	thod differs from	UCCE methods in prior years (mir	 ni-gin does not have con	nmercial gin style cleaners.
	Corrections were calculated for	or moisture loss/gai	in between field I	harvest weight tir	ning and ginning timing, and basic	gin loss estimates are t	ypically lower with use of
	mini-gin. All samples were ha	andled in an identica	al manner in tern	ns of mini-gin ope	erations, so gin turnout and lint per	rcent numbers represen	t relative variety differences.
		D=least significant d	lifference at 10%	level (difference	s in mean values shown that differ	by more than LSD valu	e shown are significantly differ
C.V. = coefficient of variation	across replications  n is 0.05 or less, there is great	or than a OEV arch	ability of significa	ant differences by	otugan maan yaluga ahayes)		
					the San Joaquin Valley in 2019		

2019 University of Califo							February 13, 2020 upda	ite			
Seed cotton yields, mini-g	in calculated lint percent a	and gin turnout,	calculated lint	yield averages	3						
Questions?		Cooperative F	Project by:								
contact: Bob Hutmacher (Univ.	CA)			(LIC-ANR) / Liniv	CA Davis Plant Sci Dent / Univ	CA West Side REC					
Cell: (559) 260-8957		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, UC-ANR/UCCE, UC Davis Plant Sci. Dept.									
email: rbhutmacher@ucdavis.edu		Cooperators: multiple growers, Dan Munk, Brian Marsh, Lynn Sosnoskie, Bill Weir, Mark Keeley, Raul Delgado, Jorge Angeles,									
		_			tive Extension Tulare, Kings, Fre		nties;				
		San Joaquin Qua	ality Cotton Grow	ers AssocShafte	er Research Station; Various See	d Companies					
LOCATION: BUTTONWIL	LOW AREA - Kern Cour	nty				HARVEST DATE:	10/31				
ow spacing = 38 inches	* moderate to high early se	ason lygus pressi	ure								
PLANTING DATE: 4/15	Ţ,				LINT YIELD*						
		SEED		Mini-Gin	(calculated as seed cotton yield	LINT YIELD	SEEDCOTTON YIE	LD			
		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 341 RF	Monsanto / DPL	2864	42.8	41.7	1194	98	99				
DP 348 RF	Monsanto / DPL	2225	42.2	40.9	911	75	77				
DP 359 RF	Monsanto / DPL	2462	42.6	41.7	1026	84	85				
PHY PX8504 RF	Phytogen	2981	43.6	42.9	1280	105	103				
PHY 881 RF	Phytogen	2881	43.1	42.2	1215	100	100				
PHY 888 RF	Phytogen	2551	42.8	41.7	1064	88	89				
MEAN		2661	42.9	41.9	1115						
LSD 0.05 <sup>a</sup>		288	0.8	0.7	120						
%CV <sup>b</sup>		7.2	1.2	1.1	7.1						
P <sup>c</sup>		0.000	0.021	0.001	0.000						
NOTE: LINT YIELD VALUES					JCCE methods in prior years (mi			s.			
					ing and ginning timing, and basic rations, so gin turnout and lint pe						
					lue shown are significantly different	-	troiative variety difference	,3.			
C.V. = coefficient of variation	across replications				<u> </u>	,					
	n is 0.05 or less, there is great	•			tween mean values shown) the San Joaquin Valley in 2019						

2019 University of Californ	rnia PIMA COTTON VAR	RIETY TRIALS					February 13, 2020 update	
Seed cotton yields, mini-g	in calculated lint percent a	and gin turnout,	calculated lint	yield average	S			
Questions?		Cooperative P						
contact: Bob Hutmacher (Univ.	CA)		•	, ,	v. CA Davis Plant Sci Dept. / Univ.			
Cell: (559) 260-8957					, CA Cotton Alliance, UC-ANR/UC			
email: rbhutmacher@ucdavis.e	du				Marsh, Lynn Sosnoskie, Bill Weir	•		
		Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Coun San Joaquin Quality Cotton Growers AssocShafter Research Station; Various Seed Companies						
		San Joaquin Qua	inty Cotton Grow	lers AssocShart	Research Station, Various See	u Companies		
OCATION: BOWLES FA	RMS - Los Banos area -	Merced Count	у			HARVEST DATE: 1	1/04	
ow spacing = 30 inches								
PLANTING DATE: 4/10					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) d	Phy-881 RF Yield) <sup>d</sup>	
DP 341 RF	Monsanto / DPL	3132	40.9	40.2	1259	114	115	
DP 348 RF	Monsanto / DPL	2900	41.3	40.4	1171	106	106	
DP 359 RF	Monsanto / DPL	2362	41.7	40.9	967	88	87	
PHY PX8504 RF	Phytogen	2911	42.0	41.4	1204	109	107	
PHY 881 RF	Phytogen	2730	41.3	40.4	1101	100	100	
PHY 888 RF	Phytogen	3116	42.0	41.2	1283	117	114	
HA 1432	Hazera	4478	38.4	37.8	1695	154	164	
PHY 841 RF	Phytogen	2782	41.8	41.2	1147	104	102	
MEAN	, ,	3051	41.2	40.4	1228			
LSD 0.05 <sup>a</sup>		301	0.8	0.8	127			
%CV <sup>b</sup>		6.7	1.3	1.3	7.0			
P <sup>c</sup>		0.000	0.000	0.000	0.000			
NOTE: LINT YIELD VALUES	shown were calculated using	a mini-gin. This sir	nple ainnina me	thod differs from	UCCE methods in prior years (mir	ni-gin does not have com	nmercial gin style cleaners.	
	Corrections were calculated for	or moisture loss/gai	n between field l	harvest weight tin	ning and ginning timing, and basic	gin loss estimates are t	ypically lower with use of	
					erations, so gin turnout and lint per	-	-	
<del>_</del>		)=least significant d	itterence at 10%	level (difference	s in mean values shown that differ	r by more than LSD valu	e shown are significantly differer	
C.V. = coefficient of variation P = probability (if value shown		er than a 95% prob	ahility of significa	ant differences by	etween mean values shown)			
					the San Joaquin Valley in 2019			