

2017 University of California PIMA COTTON VARIETY TRIALS						5-Mar-18 update						
Fiber quality - hvi results: Ginned at Shafter Station, analyzed at the USDA-AMS Classing Office, Visalia, CA												
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, 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: Univ CA West Side REC - Fresno County												
					MANUAL							
					CLASSING							
	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B			
DP 348RF	4.18	1.40	43.3	86.4	7.00	5.25	2.65	60.8	11.9			
DP 358RF	4.03	1.39	44.2	86.5	7.00	5.00	2.63	61.2	11.7			
MON 16R330R2P	3.88	1.39	45.1	86.7	7.00	5.00	2.68	60.7	12.0			
MON 16R341R2P	4.08	1.39	45.0	85.8	7.00	5.00	2.55	60.3	11.9			
OA EXP. 16-84	4.18	1.38	45.4	86.9	7.00	5.00	2.78	61.4	11.9			
PHY 841RF	4.30	1.41	45.9	86.9	7.00	4.75	2.58	61.8	11.9			
PHY 881RF	4.35	1.43	43.2	87.1	7.00	4.75	2.40	61.6	12.2			
PHY 888RF	4.20	1.44	43.4	86.7	7.00	5.00	3.00	60.0	12.2			
HA 1432	4.28	1.34	37.2	85.1	7.00	5.00	2.85	62.5	11.0			
HA 690	3.95	1.34	36.7	85.5	7.00	4.75	2.70	64.2	10.7			
PHY 805RF	4.13	1.39	45.8	86.7	7.00	5.00	2.53	60.4	12.2			
PHY 802RF	3.90	1.43	44.8	87.2	7.00	5.00	2.83	61.5	11.8			
MEAN	4.12	1.39	43.3	86.5	7.00	4.96	2.68	61.4	11.8			
LSD 0.05	0.25	0.03	2.5	0.9	NS	NS	NS	1.7	0.3			
%CV	4.20	1.70	4.0	0.7	--	7.20	17.80	2.0	1.9			
P	0.01	0.00	0.0	0.0	--	0.78	0.91	0.0	0.0			
* NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES were separated from seed using a mini-gin. This 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.												
a LSD = least significant difference at 5% or 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)												
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Location: Riverdale area (McKean Farms) - Fresno County									
					MANUAL				
					CLASSING				
	MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	HVI	COLOR	
VARIETY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	COLOR	TRASH	RD	+B
DP 348RF	4.38	1.47	46.6	88.6	7.00	6.00	3.03	58.5	11.4
DP 358RF	4.10	1.43	41.4	87.7	7.00	6.50	3.85	57.2	11.3
MON 16R330R2P	3.95	1.45	42.4	87.9	7.00	6.00	2.90	59.2	11.1
MON 16R341R2P	4.30	1.45	43.0	87.3	7.00	6.75	3.20	55.8	11.3
OA EXP. 16-48	4.28	1.46	43.5	87.7	7.00	6.00	3.18	58.7	11.3
PHY 841RF	4.25	1.46	43.7	87.7	7.00	5.75	2.90	59.3	11.0
PHY 881RF	4.38	1.48	41.9	87.6	7.00	6.25	2.85	58.3	11.3
PHY 888RF	4.18	1.48	42.0	87.6	7.00	6.00	2.65	58.0	11.5
MEAN	4.23	1.46	43.1	87.8	7.00	6.16	3.07	58.1	11.3
LSD 0.05		NS	NS	NS	NS		NS	1.7	
LSD 0.10	0.24					0.54			0.3
%CV	4.60	1.80	5.7	0.7	--	7.20	18.80	2.0	1.9
P	0.08	0.16	0.1	0.1	--	0.08	0.19	0.0	0.1
* NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES were separated from seed using a mini-gin. This 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.									
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Location: Los Banos area (Bowles Farms) - Merced County											
					MANUAL						
					CLASSING						
	MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	HVI	COLOR			
VARIETY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	COLOR	TRASH	RD	+B		
DP 348RF	4.45	1.41	43.6	87.2	7.00	5.25	2.60	61.1	11.4		
DP 358RF	4.00	1.43	43.0	86.9	7.00	4.75	2.63	62.0	10.9		
MON 16R330R2P	4.03	1.41	42.3	86.5	7.00	4.50	2.35	62.5	11.4		
MON 16R341R2P	4.25	1.44	41.8	86.7	7.00	5.50	2.78	60.4	11.2		
OA EXP. 16-48	4.20	1.41	41.6	86.7	7.00	4.50	2.88	62.5	11.3		
PHY 841RF	4.55	1.43	42.9	87.2	7.00	5.00	2.50	62.3	11.3		
PHY 881RF	4.35	1.46	43.3	87.4	7.00	4.50	2.35	63.2	11.0		
PHY 888RF	4.10	1.47	41.7	87.1	7.00	5.25	2.88	60.4	11.5		
HA 1432	4.23	1.33	36.4	84.7	7.00	4.75	2.23	63.6	10.4		
HA 690	3.95	1.38	36.2	86.0	6.75	4.25	1.80	65.8	10.3		
MEAN	4.21	1.42	41.3	86.6	6.98	4.83	2.50	62.4	11.1		
LSD 0.05	0.35	0.04	3.2	1.3	NS	0.74		2.3	0.4		
LSD 0.10							0.56				
%CV	5.7	2.0	5.4	1.1	2.3	10.6	18.7	2.5	2.4		
P	0.022	0.000	0.000	0.014	0.464	0.029	0.077	0.002	0.000		
* NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES were separated from seed using a mini-gin. This 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.											
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Location: Corcoran area (Hansen Ranches) - Kings County													
						MANUAL							
						CLASSING							
	MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	HVI	COLOR					
VARIETY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	COLOR	TRASH	RD	+B				
DP 348RF	4.35	1.39	42.1	86.5	7.00	6.75	4.33	54.5	11.2				
DP 358RF	4.75	1.41	41.0	86.7	7.00	7.00	4.55	51.9	11.4				
MON 16R330R2P	4.75	1.40	43.4	85.5	7.00	6.50	3.70	56.3	11.2				
MON 16R341R2P	4.68	1.42	43.3	86.8	7.00	6.75	4.45	55.0	11.0				
OA EXP. 16-48	4.75	1.39	42.1	86.5	7.00	7.00	4.65	54.7	11.0				
PHY 841RF	4.70	1.44	41.9	86.6	7.00	7.00	4.18	55.8	10.6				
PHY 881RF	4.50	1.43	42.6	86.8	7.00	6.73	4.56	56.5	10.6				
PHY 888RF	4.48	1.42	42.8	87.2	7.00	6.75	4.55	54.7	11.1				
MEAN	4.62	1.41	42.4	86.6	7.00	6.81	4.37	54.9	11.0				
LSD 0.05	0.24	NS	NS	NS	NS	NS	NS	NS	NS				
%CV	3.60	2.00	5.8	1.0	--	6.00	12.00	4.3	0.4				
P	0.01	0.16	0.9	0.3	--	0.63	0.26	0.2	0.0				
* NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES were separated from seed using a mini-gin. This 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.													
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Location: Buttonwillow area (Bone Farm) - Kern County											
					MANUAL						
					CLASSING						
	MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	HVI	COLOR			
VARIETY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	COLOR	TRASH	RD	+B		
DP 348RF	4.35	1.44	46.6	87.7	7.00	5.25	2.03	60.6	11.4		
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MON 16R330R2P	4.10	1.44	45.5	87.4	7.00	5.25	2.70	60.7	11.2		
MON 16R341R2P	4.30	1.46	46.6	87.4	7.00	5.00	2.30	61.4	11.2		
OA EXP. 16-48	4.43	1.44	45.4	87.6	7.00	4.75	2.40	62.3	11.2		
PHY 841RF	4.58	1.48	44.6	87.5	6.50	4.75	1.60	62.7	11.2		
PHY 881RF	4.53	1.50	47.8	88.1	6.50	4.50	1.70	64.0	11.2		
PHY 888RF	4.33	1.50	44.7	88.4	7.00	5.75	2.33	60.6	11.2		
MEAN	4.34	1.46	45.8	87.8	6.88	5.03	2.16	61.8	11.2		
LSD 0.05	0.25	0.03	1.9	NS	NS	NS	0.42	2.0	NS		
%CV	3.9	1.5	2.8	0.7	5.7	11.0	13.2	2.2	2.1		
P	0.006	0.001	0.030	0.314	0.263	0.108	0.000	0.012	0.820		
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