2016 University of California PIMA COTTON VARIETY TRIALS

February 13, 2017 update

HVI fiber quality summary - based on samples collected using mini-gin (no cleaner) for ginning

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

2016 (UC PIMA VARIETY TRIAL - 30")

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **Corcoran** (Hansen)

					MANUAL CLASSING				
					LEAF	HVI	HVI	COLOR	
VARIETY	MIC	LENGTH	STREN	UI	GRADE	COLOR	TRASH	RD	+B
PHY 805RF	4.65	1.48	47.4	87.4	7.00	5.00	3.03	61.3	10.8
PX 8188RF	4.68	1.49	46.7	87.7	7.00	5.00	3.23	60.9	11.1
PHY 841RF	4.90	1.48	47.2	87.7	7.00	5.25	3.00	61.2	11.1
PHY 881RF	4.78	1.48	45.9	87.4	7.00	5.50	3.00	60.1	10.9
DP 348RF	4.80	1.47	47.5	87.9	7.00	5.50	3.00	61.2	10.9
DP 358RF	4.53	1.47	47.8	88.5	7.00	5.50	2.78	61.6	10.8
DP/OA-EXP. 38	4.73	1.47	46.9	87.5	7.00	5.50	3.45	61.0	10.9
DP/OA-EXP. 48	4.80	1.46	47.2	88.2	7.00	5.75	3.25	60.2	11.0
MEAN	4.73	1.48	47.1	87.8	7.00	5.38	3.09	60.9	10.9
LSD 0.05		NS	NS	NS	--	NS	NS	NS	
LSD 0.10	0.19				--				0.2
%CV	3.3	1.3	3.4	0.9	--	8.1	10.7	1.8	1.7
P	0.085	0.360	0.796	0.453	--	0.221	0.198	0.528	0.075

** samples were machine-picked, but were ginned using mini-gin (with no lint cleaners) - result is that leaf grades (and to some extent HVI Trash numbers will be high and not particularly relevant for cultivar comparisons*

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2016 (UC PIMA VARIETY TRIAL - 30")

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: CORCORAN (HANSEN)

MICRONAIRE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	4.7	4.6	4.6	4.7	4.7	0.1
2	4.7	4.8	4.6	4.6	4.7	0.1
3	4.8	5.1	5.0	4.7	4.9	0.2
4	5.1	4.6	4.5	4.9	4.8	0.3
5	4.7	4.9	4.8	4.8	4.8	0.1
6	4.5	4.6	4.5	4.5	4.5	0.0
7	4.9	4.6	4.6	4.8	4.7	0.2
8	4.9	4.7	5.0	4.6	4.8	0.2
MEAN	4.8	4.7	4.7	4.7	4.7	

LENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.49	1.47	1.50	1.46	1.48	0.02
2	1.47	1.49	1.52	1.48	1.49	0.02
3	1.47	1.48	1.49	1.46	1.48	0.01
4	1.48	1.44	1.52	1.49	1.48	0.03
5	1.46	1.43	1.50	1.50	1.47	0.03
6	1.47	1.47	1.48	1.47	1.47	0.01
7	1.46	1.48	1.48	1.47	1.47	0.01
8	1.47	1.46	1.44	1.45	1.46	0.01
MEAN	1.47	1.47	1.49	1.47	1.48	

STRENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	48.6	46.6	46.6	47.6	47.4	1.0
2	46.0	48.6	48.2	43.8	46.1	2.2
3	46.4	49.3	46.5	46.5	47.2	1.4
4	46.7	45.7	46.4	44.7	45.9	0.9
5	46.6	50.0	46.2	47.1	47.5	1.7
6	49.8	45.5	47.2	48.5	47.8	1.8
7	45.8	47.4	45.8	48.7	46.9	1.4
8	49.5	47.2	45.9	46.3	47.2	1.6
MEAN	47.4	47.5	46.6	46.7	47.1	

UNIFORMITY

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	88.8	86.4	86.7	87.8	87.4	1.1
2	86.3	88.2	88.8	87.3	87.7	1.1
3	87.4	87.3	88.5	87.7	87.7	0.5
4	87.9	85.8	87.8	88.0	87.4	1.1
5	87.6	87.7	88.2	88.0	87.9	0.3
6	88.9	88.3	88.1	88.5	88.5	0.3
7	86.8	86.9	88.3	87.9	87.5	0.7
8	88.2	88.2	87.5	88.9	88.2	0.6
MEAN	87.7	87.4	88.0	88.0	87.8	

LEAF GRADE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	7	7	7	7	7.0	0.0
2	7	7	7	7	7.0	0.0
3	7	7	7	7	7.0	0.0
4	7	7	7	7	7.0	0.0
5	7	7	7	7	7.0	0.0
6	7	7	7	7	7.0	0.0
7	7	7	7	7	7.0	0.0
8	7	7	7	7	7.0	0.0
MEAN	7.0	7.0	7.0	7.0	7.0	

HVI COLOR

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	5	5	5	5	5.0	0.0
2	5	5	5	5	5.0	0.0
3	5	5	5	6	5.3	0.5
4	5	6	5	6	5.5	0.6
5	5	6	5	6	5.5	0.6
6	6	5	5	6	5.5	0.6
7	5	5	6	6	5.5	0.6
8	6	5	6	6	5.8	0.5
MEAN	5.3	5.3	5.3	5.8	5.4	

HVI TRASH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	3.0	3.1	3.6	2.4	3.0	0.5
2	3.1	2.9	3.6	3.3	3.2	0.3
3	2.7	2.7	3.4	3.2	3.0	0.4
4	2.4	3.2	3.1	3.3	3.0	0.4
5	2.9	3.1	3.1	2.9	3.0	0.1
6	2.5	2.2	2.9	3.5	2.8	0.6
7	3.0	3.4	3.9	3.5	3.5	0.4
8	3.5	2.9	3.3	3.3	3.3	0.3
MEAN	2.9	2.9	3.4	3.2	3.1	

RD

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	61.4	61.0	62.0	60.7	61.3	0.6
2	60.5	60.8	61.8	60.4	60.9	0.6
3	61.6	61.9	62.3	58.8	61.2	1.6
4	61.4	57.8	61.5	59.7	60.1	1.7
5	60.7	60.4	63.7	60.0	61.2	1.7
6	60.4	62.9	63.0	59.9	61.6	1.6
7	62.9	60.5	60.2	60.4	61.0	1.3
8	60.0	60.8	60.3	59.5	60.2	0.5
MEAN	61.1	60.8	61.9	59.9	60.9	

+B

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	10.8	10.7	10.9	10.6	10.8	0.1
2	11.4	10.9	10.9	11.3	11.1	0.3
3	11.3	10.9	10.8	11.3	11.1	0.3
4	10.8	11.1	10.5	11.1	10.9	0.3
5	10.9	11.1	10.8	10.9	10.9	0.1
6	11.0	10.6	10.5	10.9	10.8	0.2
7	10.9	10.9	10.8	10.9	10.9	0.0
8	10.8	11.1	10.8	11.2	11.0	0.2
MEAN	11.0	10.9	10.8	11.0	10.9	

VARIETY	TRT #
PHY 805RF	1
PX 8188RF	2
PHY 841RF	3
PHY 881RF	4
DP 348RF	5
DP 358RF	6
DP/OA-EXP. 38	7
DP/OA-EXP. 48	8

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2016 (UC PIMA VARIETY TRIAL - 30" row spacing) HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **Los Banos** (Bowles Farms)

					MANUAL CLASSING				
					LEAF	HVI	HVI	COLOR	
VARIETY	MIC	LENGTH	STREN	UI	GRADE	COLOR	TRASH	RD	+B
PHY 805RF	4.73	1.44	47.5	87.3	6.75	4.75	1.90	63.7	11.1
PX 8188RF	4.70	1.49	44.5	87.1	6.00	4.50	1.48	64.1	11.3
PHY 841RF	4.93	1.46	46.7	87.1	6.00	4.50	1.60	63.8	11.3
PHY 881RF	4.83	1.47	47.5	87.0	6.00	4.25	1.50	64.3	11.1
DP 348RF	4.48	1.43	47.9	87.1	6.50	4.25	1.95	63.6	11.2
DP 358RF	4.38	1.41	44.7	86.6	6.75	4.00	1.75	64.5	11.2
DP/OA-EXP. 38	4.55	1.42	47.1	87.2	6.50	4.75	1.65	63.5	11.4
DP/OA-EXP. 48	4.58	1.42	46.2	86.4	5.78	4.00	1.48	64.1	11.3
MEAN	4.65	1.44	46.5	87.0	6.29	4.38	1.66	64.0	11.2
LSD 0.05	0.26	0.03	1.8	NS	NS	NS	NS	NS	NS
%CV	3.8	1.6	2.7	1.4	9.6	10.0	16.7	1.3	1.8
P	0.004	0.001	0.005	0.969	0.175	0.125	0.135	0.603	0.514

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2016 (UC PIMA VARIETY TRIAL - 30" row spacing)

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **Los Banos** (Bowles Farms)

MICRONAIRE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	4.8	4.9	4.6	4.6	4.7	0.2
2	4.4	5.0	4.8	4.6	4.7	0.3
3	5.0	4.9	4.9	4.9	4.9	0.0
4	4.7	5.0	4.7	4.9	4.8	0.2
5	4.1	4.5	4.7	4.6	4.5	0.3
6	4.2	4.5	4.5	4.3	4.4	0.2
7	4.3	4.3	4.9	4.7	4.6	0.3
8	4.4	4.7	4.7	4.5	4.6	0.2
MEAN	4.5	4.7	4.7	4.6	4.6	

LENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.44	1.42	1.48	1.43	1.44	0.03
2	1.52	1.49	1.48	1.45	1.49	0.03
3	1.46	1.45	1.45	1.49	1.46	0.02
4	1.46	1.48	1.46	1.46	1.47	0.01
5	1.44	1.45	1.44	1.40	1.43	0.02
6	1.42	1.43	1.40	1.40	1.41	0.02
7	1.45	1.38	1.43	1.41	1.42	0.03
8	1.39	1.45	1.42	1.41	1.42	0.03
MEAN	1.45	1.44	1.45	1.43	1.44	

STRENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	45.6	47.7	47.4	49.2	47.5	1.5
2	43.5	46.0	44.0	44.3	44.5	1.1
3	43.6	48.1	46.3	48.9	46.7	2.4
4	44.8	48.6	48.6	47.9	47.5	1.8
5	48.0	48.4	46.7	48.3	47.9	0.8
6	43.1	45.6	45.7	44.4	44.7	1.2
7	46.0	47.1	46.8	48.5	47.1	1.0
8	47.3	45.4	43.9	48.1	46.2	1.9
MEAN	45.2	47.1	46.2	47.5	46.5	

UNIFORMITY

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	86.9	86.3	88.2	87.7	87.3	0.8
2	87.0	88.1	86.8	86.5	87.1	0.7
3	87.0	87.5	86.1	87.9	87.1	0.8
4	86.6	87.7	85.8	87.7	87.0	0.9
5	87.1	88.3	87.8	85.3	87.1	1.3
6	86.3	86.9	84.6	88.7	86.6	1.7
7	88.8	86.6	88.1	85.1	87.2	1.6
8	85.9	87.5	85.5	86.8	86.4	0.9
MEAN	87.0	87.4	86.6	87.0	87.0	

LEAF GRADE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	7	7	6	7	6.8	0.5
2	5	6	6	7	6.0	0.8
3	7	6	5	6	6.0	0.8
4	5	7	6	6	6.0	0.8
5	6	7	6	7	6.5	0.6
6	6	7	7	7	6.8	0.5
7	6	7	6	7	6.5	0.6
8	6	5	6	6	5.8	0.5
MEAN	6.0	6.5	6.0	6.6	6.3	

HVI COLOR

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	5	4	5	5	4.8	0.5
2	4	5	4	5	4.5	0.6
3	5	5	4	4	4.5	0.6
4	4	4	4	5	4.3	0.5
5	4	4	4	5	4.3	0.5
6	4	4	4	4	4.0	0.0
7	5	5	4	5	4.8	0.5
8	4	4	4	4	4.0	0.0
MEAN	4.4	4.4	4.1	4.6	4.4	

HVI TRASH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.9	2.3	1.6	1.8	1.9	0.3
2	1.3	1.5	1.4	1.7	1.5	0.2
3	2.2	1.6	1.3	1.3	1.6	0.4
4	1.2	1.7	1.6	1.5	1.5	0.2
5	1.7	1.9	1.6	2.6	2.0	0.5
6	1.8	1.8	1.7	1.7	1.8	0.1
7	1.5	1.6	1.7	1.8	1.7	0.1
8	1.6	1.2	1.4	1.7	1.5	0.2
MEAN	1.7	1.7	1.5	1.8	1.7	

RD

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	63.3	64.1	64.0	63.2	63.7	0.5
2	65.3	64.1	64.6	62.4	64.1	1.2
3	62.8	62.8	65.0	64.7	63.8	1.2
4	64.9	64.5	64.8	63.1	64.3	0.8
5	64.3	63.5	63.8	62.6	63.6	0.7
6	65.4	63.7	64.1	64.8	64.5	0.8
7	62.7	62.8	65.0	63.3	63.5	1.1
8	63.8	64.9	64.1	63.6	64.1	0.6
MEAN	64.1	63.8	64.4	63.5	63.9	

+B

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	11.1	11.2	10.9	11.1	11.1	0.1
2	11.4	10.9	11.6	11.4	11.3	0.3
3	11.3	11.0	11.3	11.5	11.3	0.2
4	11.0	11.1	11.3	11.1	11.1	0.1
5	11.5	11.0	11.0	11.3	11.2	0.2
6	11.2	11.3	11.2	11.2	11.2	0.1
7	11.3	11.6	11.1	11.4	11.4	0.2
8	11.3	11.0	11.5	11.3	11.3	0.2
MEAN	11.3	11.1	11.2	11.3	11.2	

VARIETY	TRT #
PHY 805RF	1
PX 8188RF	2
PHY 841RF	3
PHY 881RF	4
DP 348RF	5
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2016 (UC PIMA VARIETY TRIAL - 40" row spacing) HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **West Side REC** (Fresno County)

West Side REC (FIELD 16)

					MANUAL CLASSING			COLOR	
VARIETY	MIC	LENGTH	STREN	UI	LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY 805RF	4.70	1.47	46.8	87.1	7.00	5.25	3.43	60.4	11.5
PX 8188RF	4.50	1.52	46.8	88.6	7.00	5.25	3.60	58.9	12.1
PHY 841RF	4.95	1.53	46.5	88.6	7.00	5.25	3.23	59.5	12.2
PHY 881RF	4.78	1.50	47.7	88.2	7.00	5.00	3.18	60.9	11.8
DP 348RF	4.65	1.49	46.1	88.7	7.00	5.25	3.35	59.0	12.3
DP 358RF	4.60	1.48	46.2	88.2	7.00	5.00	3.05	61.3	11.5
DP/OA-EXP. 38	4.70	1.47	46.7	88.1	7.00	5.75	3.45	58.4	12.2
DP/OA-EXP. 48	4.83	1.47	45.7	88.2	7.00	5.25	3.68	59.4	11.9
HA-1432	4.75	1.39	40.8	86.7	7.00	6.00	4.25	58.7	11.5
HA-690	4.40	1.42	40.8	86.9	7.00	5.25	3.88	60.9	11.3
HA-701	4.55	1.44	38.8	86.7	7.00	5.25	3.85	62.0	10.7
PHY 802RF	4.40	1.53	46.0	88.7	7.00	5.50	3.83	60.2	11.7
PHY 811RF	4.70	1.46	45.7	87.9	7.00	5.00	3.43	58.8	12.1
MEAN	4.65	1.47	45.0	87.9	7.00	5.31	3.55	59.9	11.8
LSD 0.05	0.29	0.04	2.4	1.5	--		NS	2.3	0.4
LSD 0.10					--	0.51			
%CV	4.3	2.0	3.7	1.2	--	8.0	14.4	2.7	2.5
P	0.013	0.000	0.000	0.037	--	0.073	0.103	0.046	0.000

** samples were machine-picked, but were ginned using mini-gin (with no lint cleaners) - result is that leaf grades (and to some extent HVI Trash numbers will be high and not particularly relevant for cultivar comparisons*

2016 University of California PIMA COTTON VARIETY TRIALS

February 13, 2017 update

HVI fiber quality summary - based on samples collected using mini-gin (no cleaner) for ginning

Questions?	Cooperative Project by:
contact: Bob Hutmacher (Univ. C	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

2016 (UC PIMA VARIETY TRIAL - 40" row spacing)

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **West Side REC** (Fresno County)

West Side REC (FIELD 16)

MICRONAIRE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	4.9	4.6	4.5	4.8	4.7	0.2
2	4.8	4.5	4.1	4.6	4.5	0.3
3	4.9	5.2	4.8	4.9	5.0	0.2
4	5.0	4.9	4.6	4.6	4.8	0.2
5	5.0	4.7	4.3	4.6	4.7	0.3
6	4.5	4.3	4.8	4.8	4.6	0.2
7	4.9	4.5	4.5	4.9	4.7	0.2
8	4.7	4.9	4.9	4.8	4.8	0.1
9	4.6	4.7	4.8	4.9	4.8	0.1
10	4.4	4.3	4.4	4.5	4.4	0.1
11	4.6	4.5	4.4	4.7	4.6	0.1
12	4.8	4.3	4.0	4.5	4.4	0.3
13	4.6	5.0	4.7	4.5	4.7	0.2
MEAN	4.7	4.6	4.5	4.7	4.7	

LENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.40	1.47	1.50	1.51	1.47	0.05
2	1.51	1.51	1.51	1.53	1.52	0.01
3	1.50	1.59	1.54	1.49	1.53	0.05
4	1.44	1.53	1.53	1.51	1.50	0.04
5	1.45	1.49	1.52	1.50	1.49	0.03
6	1.44	1.49	1.47	1.52	1.48	0.03
7	1.45	1.52	1.49	1.43	1.47	0.04
8	1.43	1.45	1.48	1.53	1.47	0.04
9	1.38	1.39	1.42	1.36	1.39	0.02
10	1.44	1.42	1.43	1.40	1.42	0.02
11	1.41	1.44	1.46	1.43	1.44	0.02
12	1.50	1.56	1.51	1.53	1.53	0.03
13	1.46	1.46	1.41	1.49	1.46	0.03
MEAN	1.45	1.49	1.48	1.48	1.47	

STRENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	48.5	48.9	42.7	47.1	46.8	2.8
2	48.1	45.8	46.0	47.2	46.8	1.1
3	46.7	48.2	44.0	46.9	46.5	1.8
4	49.3	49.3	45.9	46.3	47.7	1.9
5	46.5	45.9	45.0	47.1	46.1	0.9
6	49.9	44.5	45.6	44.8	46.2	2.5
7	49.6	43.0	48.8	45.5	46.7	3.1
8	47.7	45.2	45.3	44.6	45.7	1.4
9	39.3	43.0	40.0	40.8	40.8	1.6
10	40.1	41.7	40.2	41.2	40.8	0.8
11	39.4	38.2	40.4	37.1	38.8	1.4
12	46.3	46.0	45.5	46.3	46.0	0.4
13	47.0	45.0	46.4	44.5	45.7	1.2
MEAN	46.0	45.0	44.3	44.6	45.0	

UNIFORMITY

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	85.4	88.0	86.9	88.2	87.1	1.3
2	88.5	88.9	88.5	88.4	88.6	0.2
3	89.4	88.3	88.6	88.2	88.6	0.5
4	85.7	89.0	89.0	89.1	88.2	1.7
5	88.4	89.2	89.2	87.8	88.7	0.7
6	87.5	88.5	88.1	88.7	88.2	0.5
7	87.7	89.4	88.5	86.9	88.1	1.1
8	87.3	87.3	88.5	89.8	88.2	1.2
9	87.2	86.4	87.3	86.0	86.7	0.6
10	87.5	88.2	85.5	86.5	86.9	1.2
11	85.1	87.0	86.6	88.2	86.7	1.3
12	89.5	88.7	87.0	89.6	88.7	1.2
13	89.0	87.3	88.1	87.3	87.9	0.8
MEAN	87.6	88.2	87.8	88.1	87.9	

LEAF GRADE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	7	7	7	7	7.0	0.0
2	7	7	7	7	7.0	0.0
3	7	7	7	7	7.0	0.0
4	7	7	7	7	7.0	0.0
5	7	7	7	7	7.0	0.0
6	7	7	7	7	7.0	0.0
7	7	7	7	7	7.0	0.0
8	7	7	7	7	7.0	0.0
9	7	7	7	7	7.0	0.0
10	7	7	7	7	7.0	0.0
11	7	7	7	7	7.0	0.0
12	7	7	7	7	7.0	0.0
13	7	7	7	7	7.0	0.0
MEAN	7.0	7.0	7.0	7.0	7.0	

HVI COLOR

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	5	5	6	5	5.3	0.5
2	5	5	6	5	5.3	0.5
3	5	5	6	5	5.3	0.5
4	5	5	5	5	5.0	0.0
5	6	5	5	5	5.3	0.5
6	5	5	5	5	5.0	0.0
7	6	6	5	6	5.8	0.5
8	5	5	6	5	5.3	0.5
9	6	6	6	6	6.0	0.0
10	5	6	5	5	5.3	0.5
11	5	5	6	5	5.3	0.5
12	6	5	5	6	5.5	0.6
13	5	5	5	5	5.0	0.0
MEAN	5.3	5.2	5.5	5.2	5.3	

HVI TRASH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	3.6	3.3	3.4	3.4	3.4	0.1
2	4.2	3.7	3.5	3.0	3.6	0.5
3	3.1	3.0	4.0	2.8	3.2	0.5
4	2.6	3.1	3.8	3.2	3.2	0.5
5	3.2	3.5	3.3	3.4	3.4	0.1
6	3.3	3.4	2.1	3.4	3.1	0.6
7	2.7	4.0	3.3	3.8	3.5	0.6
8	3.4	3.9	3.7	3.7	3.7	0.2
9	4.6	4.0	4.1	4.3	4.3	0.3
10	3.3	4.6	3.4	4.2	3.9	0.6
11	3.1	3.7	4.7	3.9	3.9	0.7
12	4.2	2.7	3.7	4.7	3.8	0.9
13	3.3	3.6	3.2	3.6	3.4	0.2
MEAN	3.4	3.6	3.6	3.6	3.6	

RD

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	62.1	60.8	58.0	60.7	60.4	1.7
2	59.5	59.3	57.1	59.8	58.9	1.2
3	61.6	58.9	56.1	61.2	59.5	2.5
4	62.0	61.3	60.5	59.9	60.9	0.9
5	57.1	60.3	60.2	58.5	59.0	1.5
6	62.9	60.4	61.3	60.5	61.3	1.2
7	57.0	57.4	61.5	57.5	58.4	2.1
8	62.1	58.9	57.9	58.8	59.4	1.8
9	60.0	57.6	58.2	59.0	58.7	1.0
10	62.9	58.3	61.9	60.6	60.9	2.0
11	62.8	63.0	60.2	62.0	62.0	1.3
12	58.9	62.6	61.1	58.1	60.2	2.1
13	59.1	58.8	58.8	58.6	58.8	0.2
MEAN	60.6	59.8	59.4	59.6	59.9	

+B

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	11.2	11.7	11.7	11.3	11.5	0.3
2	12.3	12.2	12.1	11.9	12.1	0.2
3	11.9	12.4	12.5	11.8	12.2	0.4
4	12.0	11.5	12.0	11.7	11.8	0.2
5	12.2	11.9	12.4	12.5	12.3	0.3
6	11.1	11.4	11.5	11.8	11.5	0.3
7	12.5	12.2	11.9	12.2	12.2	0.2
8	11.5	12.1	11.9	12.0	11.9	0.3
9	11.2	12.0	11.5	11.4	11.5	0.3
10	11.2	11.7	11.3	11.0	11.3	0.3
11	10.9	10.4	11.0	10.6	10.7	0.3
12	11.8	11.5	11.2	12.3	11.7	0.5
13	12.0	12.0	12.3	12.0	12.1	0.2
MEAN	11.7	11.8	11.8	11.7	11.7	

VARIETY	TRT #
PHY 805RF	1
PX 8188RF	2
PHY 841RF	3
PHY 881RF	4
DP 348RF	5
DP 358RF	6
DP/OA-EXP. 38	7
DP/OA-EXP. 48	8
HA-1432	9
HA-690	10
HA-701	11
PHY 802RF	12
PHY 811RF	13

2016 University of California PIMA COTTON VARIETY TRIALS

February 13, 2017 update

HVI fiber quality summary - based on samples collected using mini-gin (no cleaner) for ginning

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

2016 (UC PIMA VARIETY TRIAL - 30" row spacing)

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **Mendota** (Pikalok Farms)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	COLOR +B
PHY 805RF	4.65	1.51	46.9	88.7	7.00	6.25	4.03	58.5	10.9
PX 8188RF	4.53	1.55	46.1	88.2	7.00	6.00	3.60	59.2	11.3
PHY 841RF	4.65	1.53	46.4	88.8	7.00	6.00	4.15	58.8	11.1
PHY 881RF	4.63	1.54	46.6	88.9	7.00	5.50	3.23	60.1	11.1
DP 348RF	4.53	1.51	47.2	89.2	7.00	6.25	4.58	57.5	11.5
DP 358RF	4.63	1.51	46.1	88.7	7.00	6.00	4.08	58.9	10.9
DP/OA-EXP. 38	4.68	1.50	45.8	88.6	7.00	6.50	4.13	57.2	11.2
DP/OA-EXP. 48	4.55	1.49	46.0	88.6	7.00	6.25	4.00	57.4	11.3
MEAN	4.61	1.52	46.4	88.7	7.00	6.09	3.98	58.5	11.2
LSD 0.05	NS	0.02	NS	NS	--	NS	0.58		0.3
LSD 0.10					--			1.6	
%CV	3.0	0.9	4.1	0.6	--	8.5	9.9	2.2	2.0
P	0.738	0.000	0.725	0.715	--	0.294	0.004	0.055	0.022

** samples were machine-picked, but were ginned using mini-gin (with no lint cleaners) - result is that leaf grades (and to some extent HVI Trash numbers will be high and not particularly relevant for cultivar comparisons*

2016 University of California PIMA COTTON VARIETY TRIALS

February 13, 2017 update

HVI fiber quality summary - based on samples collected using mini-gin (no cleaner) for ginning

Questions?	Cooperative Project by:
contact: Bob Hutmacher (Univ. C	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

2016 (UC PIMA VARIETY TRIAL - 30" row spacing)

HVI Data - USDA Classing Office, Visalia, CA

LOCATION: **Mendota** (Pikalok Farms)

MICRONAIRE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	4.6	4.6	4.5	4.9	4.7	0.2
2	4.6	4.4	m	4.6	4.53	0.1
3	4.6	4.6	4.6	4.8	4.7	0.1
4	4.6	4.6	4.8	4.5	4.6	0.1
5	4.7	4.5	4.2	4.7	4.5	0.2
6	4.6	4.7	4.6	4.6	4.6	0.1
7	4.6	4.6	4.7	4.8	4.7	0.1
8	4.5	4.4	4.7	4.6	4.6	0.1
MEAN	4.6	4.6	4.6	4.7	4.6	

LENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.49	1.51	1.52	1.52	1.51	0.01
2	1.53	1.55	m	1.56	1.55	0.02
3	1.53	1.52	1.54	1.52	1.53	0.01
4	1.51	1.56	1.54	1.53	1.54	0.02
5	1.48	1.51	1.54	1.50	1.51	0.03
6	1.49	1.52	1.52	1.50	1.51	0.02
7	1.49	1.50	1.49	1.52	1.50	0.01
8	1.46	1.49	1.49	1.51	1.49	0.02
MEAN	1.50	1.52	1.52	1.52	1.51	

STRENGTH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	47.1	46.6	47.2	46.7	46.9	0.3
2	48.6	48.5	m	41.2	46.1	4.2
3	46.7	43.8	47.5	47.7	46.4	1.8
4	48.3	45.9	47.2	45.0	46.6	1.4
5	49.4	48.1	45.8	45.5	47.2	1.9
6	47.8	47.0	43.6	46.0	46.1	1.8
7	48.9	47.2	44.3	42.8	45.8	2.8
8	48.0	45.4	44.2	46.2	46.0	1.6
MEAN	48.1	46.6	45.7	45.1	46.4	

UNIFORMITY

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	87.6	88.8	88.9	89.6	88.7	0.8
2	88.3	88.8	m	87.4	88.2	0.7
3	88.7	87.9	89.1	89.4	88.8	0.6
4	88.3	88.7	89.2	89.2	88.9	0.4
5	89.0	88.7	89.7	89.5	89.2	0.5
6	88.6	88.7	88.5	88.8	88.7	0.1
7	89.0	88.6	88.5	88.3	88.6	0.3
8	88.6	88.0	89.2	88.7	88.6	0.5
MEAN	88.5	88.5	89.0	88.9	88.7	

LEAF GRADE

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	7	7	7	7	7.0	0.0
2	7	7	m	7	7.0	0.0
3	7	7	7	7	7.0	0.0
4	7	7	7	7	7.0	0.0
5	7	7	7	7	7.0	0.0
6	7	7	7	7	7.0	0.0
7	7	7	7	7	7.0	0.0
8	7	7	7	7	7.0	0.0
MEAN	7.0	7.0	7.0	7.0	7.0	

HVI COLOR

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	5	7	6	7	6.3	1.0
2	5	6	m	7	6.0	1.0
3	6	6	6	6	6.0	0.0
4	5	6	5	6	5.5	0.6
5	5	7	6	7	6.3	1.0
6	6	6	6	6	6.0	0.0
7	6	6	7	7	6.5	0.6
8	5	6	7	7	6.3	1.0
MEAN	5.4	6.3	6.1	6.6	6.1	

HVI TRASH

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	2.9	4.4	4.6	4.2	4.0	0.8
2	2.9	3.9	m	4.0	3.6	0.6
3	4.1	4.0	4.1	4.4	4.2	0.2
4	2.9	3.5	3.3	3.2	3.2	0.3
5	4.0	4.9	4.6	4.8	4.6	0.4
6	3.9	4.3	4.1	4.0	4.1	0.2
7	4.0	3.9	4.1	4.5	4.1	0.3
8	2.6	4.0	4.8	4.6	4.0	1.0
MEAN	3.4	4.1	4.2	4.2	4.0	

RD

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	62.7	57.0	58.1	56.0	58.5	3.0
2	62.8	58.7	m	56.2	59.2	3.3
3	59.5	59.1	58.0	58.5	58.8	0.7
4	62.1	60.2	59.9	58.3	60.1	1.6
5	61.3	55.7	56.7	56.3	57.5	2.6
6	60.4	58.4	58.3	58.3	58.9	1.0
7	60.4	57.6	55.7	55.1	57.2	2.4
8	63.2	56.9	54.4	55.0	57.4	4.0
MEAN	61.6	58.0	57.3	56.7	58.4	

+B

TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	10.9	10.6	10.9	11.2	10.9	0.2
2	11.3	11.3	m	11.4	11.3	0.1
3	11.0	11.2	11.0	11.2	11.1	0.1
4	11.2	10.9	11.5	10.9	11.1	0.3
5	11.4	11.4	11.3	11.7	11.5	0.2
6	10.9	11.1	10.6	10.8	10.9	0.2
7	11.1	10.9	11.0	11.8	11.2	0.4
8	11.2	11.2	11.4	11.2	11.3	0.1
MEAN	11.1	11.1	11.1	11.3	11.1	

VARIETY	TRT #
PHY 805RF	1
PX 8188RF	2
PHY 841RF	3
PHY 881RF	4
DP 348RF	5
DP 358RF	6
DP/OA-EXP. 38	7
DP/OA-EXP. 48	8