

2016 University of California UPLAND / ACALA COTTON VARIETY TRIAL

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) Cell: (559) 260-8957 email: rbhutmacher@ucdavis.edu	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, Cotton Incorporated, UC-ANR/UCCE, UC Davis Plant Sci. Dept. 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

SWEN 7 2016 (UC ACALA/UPLAND VARIETY TRIAL - 40" row spacing)

HVI DATA - Visalia Classing Office

LOCATION: **Shafter Research Stn**

sandy loam soil

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY 725RF	4.75	1.27	38.7	84.4	6.50	1.68	70.0	7.98
PHY 764WRF	4.62	1.24	38.6	84.8	6.39	1.75	70.4	7.71
DAYTONA RF	4.68	1.27	39.5	84.0	7.50	2.10	68.9	7.95
FM 1830GLT	4.90	1.22	36.6	84.0	6.00	1.48	72.5	6.70
FM 1900GLT	4.75	1.28	37.6	85.9	7.50	1.80	70.4	7.00
FM 1911GLT	4.70	1.23	35.3	83.5	5.75	1.38	73.3	6.90
FM 2007GLT	4.60	1.24	34.9	81.1	7.00	1.83	70.9	6.80
FM 2334GLT	4.88	1.25	35.7	84.3	5.50	1.18	73.6	6.85
DP 1614B2XF	5.05	1.23	34.4	83.6	7.00	1.80	69.9	7.70
DP 1555B2RF	4.68	1.22	35.2	84.2	5.00	1.08	74.1	7.48
DP 1646B2XF	4.50	1.27	35.0	83.4	5.50	1.30	73.3	7.30
DP 1639B2XF	4.85	1.20	36.0	84.0	6.00	1.43	73.3	7.93
BX 1739GLT	4.95	1.23	34.9	82.8	5.75	1.40	72.9	6.60
MEAN	4.76	1.24	36.3	83.8	6.26	1.55	71.8	7.30
LSD 0.05	NS	0.04	2.5	NS	1.00	0.47	2.5	0.37
%CV	5.4	2.5	4.8	2.7	11.4	21.1	2.5	3.5
P	0.189	0.027	0.001	0.457	0.000	0.003	0.001	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

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SWEN 7 2016 (UC ACALA/UPLAND VARIETY TRIAL - 40" row spacing)

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MICRONAIRE						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	4.9	4.6	4.7	4.8	4.8	0.1
2	4.6	4.8	m	4.5	4.6	0.2
3	4.5	4.8	4.8	4.6	4.7	0.2
4	5.1	5.0	4.9	4.6	4.9	0.2
5	4.9	4.8	4.5	4.8	4.8	0.2
6	4.9	4.7	4.6	4.6	4.7	0.1
7	4.5	4.8	4.5	4.6	4.6	0.1
8	5.0	5.0	4.8	4.7	4.9	0.2
9	5.3	4.8	5.0	5.1	5.1	0.2
10	4.3	5.1	4.2	5.1	4.7	0.5
11	4.4	4.4	4.5	4.7	4.5	0.1
12	4.8	5.2	5.1	4.3	4.9	0.4
13	5.2	4.4	5.2	5.0	5.0	0.4
MEAN	4.8	4.8	4.7	4.7	4.8	

LENGTH						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.25	1.32	1.24	1.27	1.27	0.04
2	1.25	1.23	m	1.25	1.24	0.01
3	1.25	1.25	1.26	1.30	1.27	0.02
4	1.23	1.21	1.25	1.19	1.22	0.03
5	1.29	1.30	1.23	1.29	1.28	0.03
6	1.21	1.24	1.24	1.21	1.23	0.02
7	1.26	1.21	1.29	1.19	1.24	0.05
8	1.28	1.20	1.28	1.24	1.25	0.04
9	1.23	1.25	1.26	1.18	1.23	0.04
10	1.23	1.19	1.24	1.21	1.22	0.02
11	1.25	1.28	1.25	1.28	1.27	0.02
12	1.18	1.22	1.20	1.20	1.20	0.02
13	1.18	1.25	1.20	1.27	1.23	0.04
MEAN	1.24	1.24	1.25	1.24	1.24	

STRENGTH						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	38.2	38.7	38.5	39.4	38.7	0.5
2	40.4	38.8	m	36.8	38.7	1.8
3	39.4	37.6	38.4	42.6	39.5	2.2
4	36.3	36.0	39.0	34.9	36.6	1.7
5	39.1	37.3	36.7	37.1	37.6	1.1
6	34.3	36.3	35.2	35.4	35.3	0.8
7	36.1	33.7	33.9	36.0	34.9	1.3
8	36.3	36.8	34.1	35.4	35.7	1.2
9	34.4	31.1	36.4	35.5	34.4	2.3
10	33.7	35.7	34.1	37.2	35.2	1.6
11	39.7	32.0	34.7	33.5	35.0	3.3
12	35.3	36.5	36.3	35.8	36.0	0.5
13	36.0	32.9	33.1	37.4	34.9	2.2
MEAN	36.9	35.6	35.9	36.7	36.3	

UNIFORMITY						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	86.2	85.2	80.3	85.8	84.4	2.7
2	86.4	82.1	m	85.5	84.7	2.3
3	82.1	81.8	85.1	86.9	84.0	2.5
4	83.3	84.1	84.2	84.5	84.0	0.5
5	85.3	85.7	86.2	86.5	85.9	0.5
6	83.9	83.2	85.5	81.4	83.5	1.7
7	79.2	81.0	84.9	79.2	81.1	2.7
8	86.6	81.9	86.8	81.7	84.3	2.8
9	85.0	84.5	86.2	78.7	83.6	3.3
10	84.5	83.4	84.5	84.4	84.2	0.5
11	86.0	81.0	81.0	85.6	83.4	2.8
12	81.5	85.9	84.9	83.6	84.0	1.9
13	82.7	83.2	81.0	84.2	82.8	1.3
MEAN	84.1	83.3	84.2	83.7	83.8	

LEAF GRADE						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	5	7	7	7	6.5	1.0
2	6	6	m	7	6.3	0.6
3	7	7	8	8	7.5	0.6
4	5	6	7	6	6.0	0.8
5	8	7	8	7	7.5	0.6
6	5	6	7	5	5.8	1.0
7	8	7	6	7	7.0	0.8
8	5	6	6	5	5.5	0.6
9	7	6	7	8	7.0	0.8
10	5	5	5	5	5.0	0.0
11	6	6	4	6	5.5	1.0
12	6	6	6	6	6.0	0.0
13	5	6	6	6	5.8	0.5
MEAN	6.0	6.2	6.4	6.4	6.3	

HVI TRASH						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	1.1	2.2	1.6	1.8	1.7	0.5
2	1.6	1.6	m	2.0	1.7	0.2
3	1.9	1.9	2.4	2.2	2.1	0.2
4	1.3	1.4	1.9	1.3	1.5	0.3
5	2.0	1.7	1.7	1.8	1.8	0.1
6	0.9	1.3	2.1	1.2	1.4	0.5
7	2.0	2.0	1.4	1.9	1.8	0.3
8	1.0	1.4	1.3	1.0	1.2	0.2
9	1.8	1.2	1.5	2.7	1.8	0.6
10	1.1	1.0	1.1	1.1	1.1	0.1
11	1.4	1.6	0.9	1.3	1.3	0.3
12	1.3	1.5	1.6	1.3	1.4	0.2
13	1.2	1.5	1.4	1.5	1.4	0.1
MEAN	1.4	1.6	1.6	1.6	1.5	

RD						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	72.4	70.4	68.3	68.8	70.0	1.8
2	70.8	69.0	m	71.7	70.5	1.4
3	72.3	68.6	66.2	68.6	68.9	2.5
4	74.9	73.5	72.3	69.1	72.5	2.5
5	70.5	71.3	68.5	71.2	70.4	1.3
6	75.9	70.9	71.9	74.4	73.3	2.3
7	69.4	70.6	72.4	71.1	70.9	1.2
8	74.1	72.5	74.2	73.5	73.6	0.8
9	71.2	68.3	71.0	69.0	69.9	1.4
10	75.4	74.5	73.0	73.4	74.1	1.1
11	72.3	73.8	77.1	70.1	73.3	2.9
12	74.1	73.4	71.1	74.7	73.3	1.6
13	74.1	72.5	74.2	70.7	72.9	1.6
MEAN	72.9	71.5	71.7	71.3	71.8	

+ B						
TRT. #	REP 1	REP 2	REP 3	REP 4	AVG.	STD. DEV.
1	8.1	8.1	7.9	7.8	8.0	0.2
2	7.6	8.0	m	7.6	7.7	0.2
3	8.0	7.9	8.0	7.9	8.0	0.1
4	7.1	6.6	7.0	6.1	6.7	0.5
5	7.4	7.2	6.5	6.9	7.0	0.4
6	6.7	6.9	7.0	7.0	6.9	0.1
7	6.8	6.8	6.6	7.0	6.8	0.2
8	6.9	6.5	6.9	7.1	6.9	0.3
9	7.6	7.7	7.7	7.8	7.7	0.1
10	7.7	7.6	7.2	7.4	7.5	0.2
11	7.9	7.0	7.2	7.1	7.3	0.4
12	8.0	8.1	7.6	8.0	7.9	0.2
13	7.0	6.5	6.7	6.2	6.6	0.3
MEAN	7.4	7.3	7.2	7.2	7.3	

TRT. #	VARIETY
1	PHY 725RF
2	PHY 764WRF
3	DAYTONA RF
4	FM 1830GLT
5	FM 1900GLT
6	FM 1911GLT
7	FM 2007GLT
8	FM 2334GLT
9	DP 1614B2XF
10	DP 1555B2RF
11	DP 1646B2XF
12	DP 1639B2XF
13	BX 1739GLT

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SWEN 3 2016 (UC ACALA/UPLAND VARIETY TRIAL - 40") HVI DATA - Visalia Classing Office

LOCATION: **West Side REC** (FIELD 16)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY 725RF	4.43	1.25	39.2	85.1	6.00	1.40	69.4	8.53
PHY 764WRF	4.68	1.19	37.2	83.8	6.33	1.43	70.7	8.10
DAYTONA RF	4.63	1.21	39.5	85.2	6.50	1.38	70.2	8.20
FM 1830GLT	4.80	1.23	36.5	84.4	5.75	1.13	74.0	7.55
FM 1900GLT	4.58	1.23	36.2	84.8	6.75	1.65	70.1	7.73
FM 1911GLT	4.70	1.19	33.4	83.8	6.00	1.30	72.8	7.50
FM 2007GLT	4.45	1.21	34.4	83.8	6.75	1.63	71.6	7.38
FM 2334GLT	4.75	1.23	35.5	84.9	5.25	1.08	74.4	7.78
DP 1614B2XF	5.23	1.18	33.9	83.7	7.00	1.65	69.6	8.53
DP 1555B2RF	4.93	1.20	35.8	83.4	5.00	0.95	73.7	8.25
DP 1646B2XF	4.75	1.25	34.8	84.6	5.50	1.23	73.6	7.68
DP 1639B2XF	5.23	1.16	35.0	85.0	6.25	1.38	71.1	8.40
BX 1739GLT	4.88	1.18	34.3	83.2	5.50	1.25	72.9	7.78
MEAN	4.77	1.21	35.8	84.3	6.04	1.34	71.9	7.95
LSD 0.05	0.28	0.04	2.2	NS	1.15	0.43	2.3	0.44
%CV	4.2	2.0	4.3	1.8	13.3	22.4	2.2	3.8
P	0.000	0.000	0.000	0.290	0.022	0.040	0.000	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

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SWEN 3 2016 (UC ACALA/UPLAND VARIETY TRIAL - 40")

HVI DATA - Visalia Classing Office

LOCATION: **West Side REC** (FIELD 16)

TRT. #	MICRONAIRE				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	4.5	4.5	4.4	4.3	4.4	0.1
2	4.4	m	4.5	4.9	4.6	0.3
3	4.7	4.7	4.6	4.5	4.6	0.1
4	5.1	4.6	4.8	4.7	4.8	0.2
5	4.2	4.9	4.6	4.6	4.6	0.3
6	4.5	5.0	4.5	4.8	4.7	0.2
7	4.4	4.4	4.4	4.6	4.5	0.1
8	4.4	4.7	4.7	5.2	4.8	0.3
9	5.2	5.2	5.1	5.4	5.2	0.1
10	4.9	4.8	4.8	5.2	4.9	0.2
11	4.9	4.7	4.6	4.8	4.8	0.1
12	5.0	5.3	5.3	5.3	5.2	0.2
13	5.0	4.5	5.0	5.0	4.9	0.3
MEAN	4.7	4.8	4.7	4.9	4.8	

TRT. #	LENGTH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	1.27	1.23	1.25	1.25	1.25	0.02
2	1.17	m	1.19	1.21	1.19	0.02
3	1.23	1.21	1.22	1.19	1.21	0.02
4	1.22	1.17	1.24	1.27	1.23	0.04
5	1.23	1.23	1.20	1.25	1.23	0.02
6	1.16	1.17	1.21	1.20	1.19	0.02
7	1.20	1.23	1.21	1.18	1.21	0.02
8	1.23	1.25	1.24	1.20	1.23	0.02
9	1.19	1.17	1.19	1.18	1.18	0.01
10	1.17	1.20	1.22	1.20	1.20	0.02
11	1.23	1.26	1.25	1.25	1.25	0.01
12	1.16	1.14	1.18	1.17	1.16	0.02
13	1.13	1.23	1.17	1.19	1.18	0.04
MEAN	1.20	1.21	1.21	1.21	1.21	

TRT. #	STRENGTH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	39.9	38.6	38.7	39.7	39.2	0.7
2	37.3	m	40.0	34.2	37.2	2.9
3	40.8	37.6	38.3	41.2	39.5	1.8
4	35.4	34.4	39.2	36.8	36.5	2.1
5	35.5	36.1	35.4	37.6	36.2	1.0
6	31.4	32.0	35.5	34.7	33.4	2.0
7	34.6	36.1	33.0	33.8	34.4	1.3
8	35.8	35.4	35.8	34.8	35.5	0.5
9	33.3	32.8	34.6	35.0	33.9	1.0
10	34.5	34.4	37.5	36.9	35.8	1.6
11	36.0	33.8	34.5	34.8	34.8	0.9
12	35.5	35.3	34.9	34.1	35.0	0.6
13	33.0	35.0	32.5	36.7	34.3	1.9
MEAN	35.6	35.1	36.1	36.2	35.8	

TRT. #	UNIFORMITY				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	86.1	83.4	86.0	84.8	85.1	1.3
2	83.4	m	84.6	83.5	83.8	0.7
3	85.5	84.6	84.3	86.2	85.2	0.9
4	83.8	82.7	85.4	85.6	84.4	1.4
5	84.4	85.1	85.1	84.7	84.8	0.3
6	83.4	83.1	83.4	85.2	83.8	1.0
7	83.7	84.9	84.0	82.6	83.8	0.9
8	84.3	85.9	84.6	84.8	84.9	0.7
9	80.5	84.4	85.6	84.4	83.7	2.2
10	79.8	83.8	85.2	84.6	83.4	2.4
11	84.5	84.9	84.0	84.9	84.6	0.4
12	84.7	84.5	85.7	85.2	85.0	0.5
13	79.6	84.0	82.4	86.6	83.2	2.9
MEAN	83.4	84.3	84.6	84.9	84.3	

TRT. #	LEAF GRADE				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	6	7	5	6	6.0	0.8
2	6	m	7	6	6.33	0.6
3	7	7	6	6	6.5	0.6
4	5	6	6	6	5.8	0.5
5	7	8	6	6	6.8	1.0
6	7	7	4	6	6.0	1.4
7	6	8	6	7	6.8	1.0
8	5	6	6	4	5.3	1.0
9	8	7	7	6	7.0	0.8
10	6	5	5	4	5.0	0.8
11	6	5	5	6	5.5	0.6
12	7	6	6	6	6.3	0.5
13	4	6	6	6	5.5	1.0
MEAN	6.2	6.5	5.8	5.8	6.0	

TRT. #	HVI TRASH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	1.5	1.7	1.1	1.3	1.4	0.3
2	1.4	m	1.5	1.4	1.43	0.1
3	1.6	1.6	1.1	1.2	1.4	0.3
4	1.0	1.2	1.1	1.2	1.1	0.1
5	2.0	2.0	1.1	1.5	1.7	0.4
6	1.7	1.6	0.8	1.1	1.3	0.4
7	1.2	1.9	1.5	1.9	1.6	0.3
8	1.0	1.2	1.4	0.7	1.1	0.3
9	2.1	1.7	1.5	1.3	1.7	0.3
10	1.2	1.1	0.9	0.6	1.0	0.3
11	1.5	1.1	0.9	1.4	1.2	0.3
12	1.8	1.1	1.4	1.2	1.4	0.3
13	0.7	1.3	1.5	1.5	1.3	0.4
MEAN	1.4	1.5	1.2	1.3	1.3	

TRT. #	RD				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	68.0	69.2	71.4	69.0	69.4	1.4
2	69.8	m	68.4	73.9	70.7	2.9
3	67.5	71.1	70.3	71.9	70.2	1.9
4	74.3	74.0	74.7	72.8	74.0	0.8
5	71.4	67.3	72.6	69.0	70.1	2.4
6	72.3	71.4	73.4	73.9	72.8	1.1
7	71.8	69.8	74.0	70.6	71.6	1.8
8	73.7	72.8	73.9	77.0	74.4	1.8
9	68.3	69.2	70.2	70.6	69.6	1.0
10	71.8	73.9	74.1	74.8	73.7	1.3
11	73.9	73.1	75.5	71.8	73.6	1.5
12	70.4	72.9	71.6	69.2	71.0	1.6
13	74.7	71.7	72.7	72.3	72.9	1.3
MEAN	71.4	71.4	72.5	72.1	71.8	

TRT. #	+B				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	8.5	8.6	8.6	8.4	8.5	0.1
2	8.4	m	8.7	7.1	8.1	0.9
3	8.3	8.0	8.1	8.4	8.2	0.2
4	8.0	7.3	7.5	7.4	7.6	0.3
5	7.9	7.9	7.6	7.5	7.7	0.2
6	7.4	7.2	7.5	7.9	7.5	0.3
7	7.5	7.3	7.2	7.5	7.4	0.2
8	7.6	8.0	7.5	8.0	7.8	0.3
9	8.3	8.6	8.4	8.8	8.5	0.2
10	8.3	8.0	8.5	8.2	8.3	0.2
11	7.7	7.9	7.6	7.5	7.7	0.2
12	8.5	8.4	8.2	8.5	8.4	0.1
13	7.4	7.7	7.7	8.3	7.8	0.4
MEAN	8.0	7.9	7.9	8.0	7.9	

TRT. #	VARIETY
1	PHY 725RF
2	PHY 764WRF
3	DAYTONA RF
4	FM 1830GLT
5	FM 1900GLT
6	FM 1911GLT
7	FM 2007GLT
8	FM 2334GLT
9	DP 1614B2XF
10	DP 1555B2RF
11	DP 1646B2XF
12	DP 1639B2XF
13	BX 1739GLT