

UNIVERSITY OF CALIFORNIA - 2016

UPLAND ADVANCED STRAINS TRIAL - variety evaluations

summary: 2/13/2017 update

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

Conducted at Univ. CA West Side REC

PI on project: Hutmacher, Bob

Questions? contact: Bob Hutmacher (Univ. CA) Cell: (559) 260-8957 email: rbhutmacher@ucdavis.edu	Cooperative Project by: 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, Brian Marsh, Mark Keeley, Raul Delgado, TariLee Frigulti, SJV Quality Cotton Growers Assoc.-Shafter, Univ CA Cooperative Extension Tulare and Kings Counties, Univ. CA West Side Research and Extension Center
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SWEN 4 2016 (UPLAND ADVANCED STRAINS TRIAL - 40" row spacing)

HVI DATA - Visalia Classing Office

LOCATION: WSREC (FIELD 16)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR	
					LEAF GRADE	HVI TRASH	RD	+B
PHY 725RF	4.43	1.22	38.6	84.9	6.75	1.33	68.7	8.78
BX 1733GLT	4.53	1.21	33.2	83.3	6.00	1.48	71.5	8.23
BX 1737GLT	4.30	1.20	32.2	83.0	7.25	1.75	71.5	7.70
BX 1738GLT	4.85	1.22	34.9	84.9	7.50	2.13	66.7	7.98
BX 1739GLT	4.65	1.19	32.4	82.8	5.75	1.20	72.8	7.53
BX 1773GLTP	4.33	1.21	34.5	84.0	6.00	1.25	74.4	7.15
BX 1775GLTP	4.10	1.22	31.1	83.1	6.00	1.43	73.0	8.10
BX 1736GLT	4.05	1.24	35.3	84.5	7.00	1.60	68.8	8.03
BX 1776GLTP	4.28	1.18	31.1	82.9	6.50	1.43	72.0	8.20
MON 15R513B2XF	4.85	1.19	33.6	83.8	7.00	1.53	69.2	8.15
MON 15R535B2XF	4.98	1.16	31.6	82.9	5.25	1.03	73.6	8.00
MON 15R556B2XF	4.08	1.19	33.4	83.2	7.25	1.83	71.7	7.55
MON 16R229B2XF	4.78	1.14	32.7	84.3	7.00	1.68	71.8	7.30
MON 16R247NRB2XF	4.63	1.17	33.4	83.5	7.25	1.85	69.4	8.18
MON 16R251NRB2XF	4.50	1.22	33.2	83.3	7.00	1.60	69.2	8.48
DP 1646B2XF	4.45	1.25	32.5	83.7	6.00	1.33	72.5	7.88
DG 3445B2XF	4.95	1.21	35.8	85.7	5.25	1.05	73.6	7.38
DG 3526B2XF	4.68	1.15	32.1	84.9	6.50	1.58	70.7	8.40
CPS CT15574B2RF	4.60	1.20	35.6	83.7	7.25	1.70	69.7	8.18
MEAN	4.53	1.20	33.5	83.8	6.55	1.51	71.1	7.96
LSD 0.05	0.26	0.03	1.4	1.3	0.95	0.44	1.9	0.32
%CV	4.1	1.7	3.0	1.1	10.2	20.6	1.9	2.8
P	0.000	0.000	0.000	0.000	0.000	0.000	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 4 2016 (UPLAND ADVANCED STRAINS TRIAL - 40" row spacing)
 SWEN 4 2016 (ADVANCED STRAINS TRIAL - 40")

HVI DATA - Visalia Classing Office

LOCATION: WSREC (FIELD 16)

TRT. #	MICRONAIRE				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	4.3	4.5	4.4	4.5	4.4	0.1
2	4.5	4.6	4.5	4.5	4.5	0.0
3	4.4	4.1	4.3	4.4	4.3	0.1
4	4.8	4.6	4.6	5.4	4.9	0.4
5	4.6	4.4	4.7	4.9	4.7	0.2
6	4.4	4.1	4.3	4.5	4.3	0.2
7	4.1	4.0	3.9	4.0	4.1	0.2
8	4.0	4.0	3.9	4.3	4.1	0.2
9	4.3	4.2	4.4	4.2	4.3	0.1
10	4.6	4.9	4.7	5.2	4.9	0.3
11	5.0	5.0	4.8	5.1	5.0	0.1
12	4.1	3.7	4.1	4.4	4.1	0.3
13	4.9	4.6	4.7	4.9	4.8	0.2
14	4.7	4.5	4.8	4.5	4.6	0.2
15	4.8	4.2	4.5	4.5	4.5	0.2
16	4.3	4.4	4.7	4.4	4.5	0.2
17	5.0	4.7	5.0	5.1	5.0	0.2
18	4.9	4.4	4.7	4.7	4.7	0.2
19	4.4	4.3	4.5	5.2	4.6	0.4
MEAN	4.5	4.4	4.5	4.7	4.5	

TRT. #	LENGTH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	1.20	1.21	1.24	1.23	1.22	0.02
2	1.21	1.20	1.25	1.18	1.21	0.03
3	1.20	1.16	1.25	1.17	1.20	0.04
4	1.23	1.23	1.21	1.21	1.22	0.01
5	1.17	1.20	1.22	1.17	1.19	0.02
6	1.21	1.22	1.21	1.19	1.21	0.01
7	1.20	1.24	1.22	1.20	1.22	0.02
8	1.24	1.23	1.26	1.24	1.24	0.01
9	1.17	1.15	1.19	1.22	1.18	0.03
10	1.15	1.18	1.20	1.22	1.19	0.03
11	1.13	1.14	1.20	1.16	1.16	0.03
12	1.16	1.20	1.23	1.18	1.19	0.03
13	1.13	1.15	1.16	1.13	1.14	0.02
14	1.19	1.17	1.15	1.17	1.17	0.02
15	1.19	1.24	1.21	1.24	1.22	0.02
16	1.26	1.27	1.24	1.24	1.25	0.02
17	1.19	1.22	1.21	1.20	1.21	0.01
18	1.13	1.16	1.18	1.14	1.15	0.02
19	1.19	1.20	1.20	1.20	1.20	0.01
MEAN	1.19	1.20	1.21	1.19	1.20	

TRT. #	STRENGTH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	37.0	39.8	38.6	38.8	38.6	1.2
2	32.8	32.4	34.2	33.2	33.2	0.8
3	32.9	31.6	33.6	30.8	32.2	1.3
4	34.3	35.2	35.1	35.0	34.9	0.4
5	32.6	32.0	33.9	30.9	32.4	1.3
6	35.6	34.1	34.8	33.6	34.5	0.9
7	31.3	31.4	29.9	31.9	31.1	0.9
8	34.7	35.7	35.5	35.1	35.3	0.4
9	30.7	31.0	32.0	30.8	31.1	0.6
10	31.1	33.9	33.8	35.7	33.6	1.9
11	29.9	30.7	32.4	33.2	31.6	1.5
12	33.5	34.0	33.8	32.4	33.4	0.7
13	32.7	33.8	32.0	32.4	32.7	0.8
14	33.3	34.5	33.4	32.5	33.4	0.8
15	32.9	33.7	31.3	35.0	33.2	1.5
16	31.6	31.8	33.0	33.6	32.5	1.0
17	36.0	35.6	35.4	36.3	35.8	0.4
18	33.0	31.4	32.7	31.2	32.1	0.9
19	35.8	35.5	35.3	35.8	35.6	0.2
MEAN	33.2	33.6	33.7	33.6	33.5	

TRT. #	UNIFORMITY				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	84.2	86.0	84.4	84.8	84.9	0.8
2	83.3	83.7	83.6	82.5	83.3	0.5
3	83.4	82.6	82.9	83.2	83.0	0.4
4	84.7	86.4	83.4	84.9	84.9	1.2
5	81.2	82.9	84.1	83.0	82.8	1.2
6	84.4	83.6	83.6	84.2	84.0	0.4
7	82.9	82.2	83.1	84.0	83.1	0.7
8	83.4	84.6	85.2	84.7	84.5	0.8
9	82.9	82.9	82.4	83.5	82.9	0.4
10	82.2	85.6	84.7	84.7	83.8	1.2
11	80.3	82.8	83.9	84.7	82.9	1.9
12	81.6	83.8	83.6	83.7	83.2	1.1
13	84.2	83.6	85.0	84.5	84.3	0.6
14	83.9	83.4	83.5	83.0	83.5	0.4
15	82.2	83.0	82.8	85.2	83.3	1.3
16	83.8	84.9	83.7	82.3	83.7	1.1
17	84.4	85.6	86.3	86.3	85.7	0.9
18	84.6	85.2	86.1	83.5	84.9	1.1
19	82.4	83.4	84.2	84.9	83.7	1.1
MEAN	83.2	83.9	84.0	84.1	83.8	

TRT. #	LEAF GRADE				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	7	7	6	7	6.8	0.5
2	6	5	6	7	6.0	0.8
3	7	7	8	7	7.3	0.5
4	8	8	8	6	7.5	1.0
5	6	7	6	4	5.8	1.3
6	6	6	6	6	6.0	0.0
7	6	6	6	6	6.0	0.0
8	7	7	7	7	7.0	0.0
9	6	6	7	7	6.5	0.6
10	7	6	8	7	7.0	0.8
11	5	5	6	5	5.3	0.5
12	7	8	7	7	7.3	0.5
13	6	8	7	7	7.0	0.8
14	6	8	8	7	7.3	1.0
15	7	7	7	7	7.0	0.0
16	6	6	7	5	6.0	0.8
17	6	5	5	5	5.3	0.5
18	7	6	7	6	6.5	0.6
19	8	6	8	7	7.3	1.0
MEAN	6.5	6.5	6.8	6.3	6.6	

TRT. #	HVI TRASH				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	1.4	1.4	1.0	1.5	1.3	0.2
2	1.5	1.0	1.5	1.9	1.5	0.4
3	1.5	1.9	2.1	1.5	1.8	0.3
4	3.1	2.0	2.1	1.3	2.1	0.7
5	1.3	1.7	1.2	0.6	1.2	0.5
6	1.3	1.3	1.2	1.2	1.3	0.1
7	1.6	1.4	1.5	1.2	1.4	0.2
8	1.5	1.6	1.5	1.8	1.6	0.1
9	1.4	1.1	1.7	1.5	1.4	0.2
10	1.8	1.2	1.8	1.3	1.5	0.3
11	0.9	0.8	1.3	1.1	1.0	0.2
12	1.8	1.9	1.9	1.7	1.8	0.1
13	1.4	1.9	1.6	1.8	1.7	0.2
14	1.3	2.4	2.0	1.7	1.9	0.5
15	1.7	1.5	1.6	1.6	1.6	0.1
16	1.5	1.3	1.6	0.9	1.3	0.3
17	1.1	1.0	0.9	1.2	1.1	0.1
18	1.7	1.3	1.9	1.4	1.6	0.3
19	2.0	1.3	2.0	1.5	1.7	0.4
MEAN	1.6	1.5	1.6	1.4	1.5	

TRT. #	RD				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	68.3	69.0	68.1	69.3	68.7	0.6
2	71.7	71.2	72.4	70.6	71.5	0.8
3	71.6	72.7	70.0	71.8	71.5	1.1
4	63.1	67.9	66.5	69.1	66.7	2.6
5	72.8	71.6	72.8	73.8	72.8	0.9
6	74.2	73.7	74.8	75.0	74.4	0.6
7	73.7	71.2	73.7	73.5	73.0	1.2
8	68.7	68.8	71.9	65.6	68.8	2.6
9	70.3	72.1	73.6	71.9	72.0	1.4
10	68.2	69.9	70.1	68.5	69.2	1.0
11	74.3	74.3	73.1	72.7	73.6	0.8
12	71.6	71.1	72.5	73.5	71.7	0.6
13	72.5	69.4	72.2	73.1	71.8	1.6
14	70.2	67.8	68.3	71.1	69.4	1.6
15	68.3	69.5	70.7	68.4	69.2	1.1
16	73.6	71.6	70.8	73.8	72.5	1.5
17	72.1	72.2	74.9	75.2	73.6	1.7
18	69.8	71.4	70.2	71.4	70.7	0.8
19	68.9	70.0	70.0	69.7	69.7	0.5
MEAN	70.7	70.8	71.4	71.4	71.1	

TRT. #	+B				AVG.	STD. DEV.
	REP 1	REP 2	REP 3	REP 4		
1	8.7	8.8	8.9	8.7	8.8	0.1
2	8.3	8.0	8.3	8.3	8.2	0.2
3	7.8	7.6	7.4	8.0	7.7	0.3
4	7.8	8.2	7.7	8.2	8.0	0.3
5	7.4	7.3	7.6	7.8	7.5	0.2
6	7.3	7.0	7.2	7.1	7.2	0.1
7	8.2	7.9	8.1	8.2	8.1	0.1
8	8.4	8.0	7.6	8.1	8.0	0.3
9	8.7	8.0	8.2	7.9	8.2	0.4
10	8.3	8.3	7.9	8.1	8.2	0.2
11	8.1	7.9	7.9	8.1	8.0	0.1
12	7.5	7.7	7.5	7.5	7.6	0.1
13	7.3	7.2	7.7	7.0	7.3	0.3
14	8.7	8.1	7.9	8.0	8.2	0.4
15	8.4	8.7	8.1	8.7	8.5	0.3
16	7.9	8.3	7.5	7.8	7.9	0.3
17	7.3	7.5	7.4	7.3	7.4	0.1
18	8.5	8.3	8.4	8.4	8.4	0.1
19	8.2	8.0	8.0	8.5	8.2	0.2
MEAN	8.0	7.9	7.9	8.0	8.0	

TRT #	VARIETY
1	PHY 725RF
2	BX 1733GLT
3	BX 1737GLT
4	BX 1738GLT
5	BX 1739GLT
6	BX 1773GLT
7	BX 1775GLT
8	BX 1736GLT
9	BX 1776GLT
10	MON 15R513B2XF
11	MON 15R535B2XF
12	MON 15R556B2XF
13	MON 16R229B2XF
14	MON 16R247NRB2XF
15	MON 16R251NRB2XF
16	DP 1646B2XF
17	DG 3445B2XF
18	DG 3526B2XF
19	CPS CT15574B2RF