

2010 PIMA SJVCB VARIETY TRIALS

HVI DATA - USDA - Visalia Classing Office

University of California / San Joaquin Valley Cotton Board

2/9/2011

Year 2 & Year 3 ENTRY TRIALS plus UCCE entries and check varieties

Questions?	Cooperative Project by:
Contact: Bob Hutmacher (Univ. CA)	San Joaquin Valley Cotton Board / University of California / Various Seed Companies
cell #: (559) 260-8957	California Department of Food and Agriculture / Supima Association
e-mail: rbhutmacher@ucdavis.edu	Cooperators: Hutmacher, Wright, Munk, Marsh, Keeley, Delgado, Banuelos, Wroble

** Averages for 3 Locations where HA-195 was included in entries tested*

LOCATION: SJV (3 LOC.)

VARIETY	MIKE	LENGTH	STREN	UI	MANUAL CLASSING		HVI TRASH	COLOR	
					LEAF GRADE	HVI COLOR		RD	+B
DP-360	3.52	1.38	40.6	85.7	3.3	2.7	1.00	68.6	11.3
PHY-802 RF	3.29	1.44	41.3	86.2	3.3	2.3	1.21	69.6	10.9
PHY-804 RF	3.46	1.41	41.3	85.9	3.3	2.6	1.06	69.2	11.3
PHY-805RF	3.44	1.40	41.4	85.7	2.9	2.4	0.93	69.6	11.1
PHY-800	3.45	1.41	40.6	85.9	3.5	2.7	1.38	68.5	11.2
COBALT	3.57	1.37	40.3	85.3	2.3	2.4	0.53	67.5	12.5
DP-357	3.72	1.37	39.2	85.6	2.6	2.3	0.73	69.1	11.4
HA-195	3.63	1.36	37.2	85.1	3.7	2.4	0.93	71.1	9.8
MEAN	3.51	1.39	40.2	85.7	3.1	2.5	0.97	69.2	11.2
LSD 0.05	0.11	0.01	0.9	0.5	0.3	NS	0.21	0.5	0.2
%CV	3.8	1.1	2.6	0.6	11.4	17.9	25.2	0.9	2.5
P	0.000	0.000	0.000	0.003	0.000	0.355	0.000	0.000	0.000
Variety by Location Interaction (VAR*LOC)									
LSD 0.05	0.21	0.03	1.4	NS	0.5	NS	NS	NS	0.3
%CV	4.2	1.4	2.5	0.9	12.0	20.6	30.6	1.4	1.8
P	0.035	0.029	0.000	0.287	0.015	0.556	0.551	0.498	0.000

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VARIETY	MICRONAIRE			AVERAGE
	SHAFTER	WSREC	MENDOTA	MICRONAIRE ACROSS SITES
DP-360	3.70	3.55	3.30	3.52
PHY-802 RF	3.43	3.28	3.18	3.30
PHY-804 RF	3.55	3.38	3.45	3.46
PHY-805RF	3.55	3.35	3.43	3.44
PHY-800	3.63	3.45	3.28	3.45
COBALT	3.90	3.53	3.28	3.57
DP-357	3.85	3.80	3.50	3.72
HA-195	3.79	3.73	3.38	3.63
MEAN	3.68	3.51	3.35	3.51
LSD 0.05	0.26	0.20	0.15	0.11
CV%	4.7	3.9	3.1	3.8
P	0.011	0.000	0.004	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	0.21
			%CV	4.2
			P	0.035

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VARIETY	LENGTH (inches)			AVERAGE
	SHAFTER	WSREC	MENDOTA	LENGTH (in.) ACROSS SITES
DP-360	1.39	1.40	1.35	1.38
PHY-802 RF	1.44	1.44	1.44	1.44
PHY-804 RF	1.41	1.41	1.41	1.41
PHY-805RF	1.40	1.40	1.41	1.40
PHY-800	1.41	1.41	1.41	1.41
COBALT	1.38	1.39	1.34	1.37
DP-357	1.37	1.38	1.35	1.37
HA-195	1.36	1.36	1.36	1.36
MEAN	1.40	1.40	1.38	1.39
LSD 0.05	0.03	0.02	0.02	0.01
CV%	1.3	1.2	0.9	1.1
P	0.000	0.000	0.000	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	0.03
			%CV	1.4
			P	0.029

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** Averages for 3 Locations where HA-195 was included in entries tested*

VARIETY	STRENGTH (g/Tex)			AVERAGE
	SHAFTER	WSREC	MENDOTA	STRENGTH (g/Tex) ACROSS SITES
DP-360	41.5	40.6	39.6	40.6
PHY-802 RF	41.6	41.2	41.1	41.3
PHY-804 RF	41.9	40.6	41.5	41.3
PHY-805RF	40.7	40.7	42.7	41.4
PHY-800	41.8	39.4	40.7	40.6
COBALT	40.3	40.4	40.3	40.3
DP-357	40.5	39.9	37.0	39.1
HA-195	37.7	37.1	36.7	37.2
MEAN	40.8	40.0	40.0	40.2
LSD 0.05	1.5	1.2	1.7	0.9
CV%	2.6	2.0	2.8	2.6
P	0.000	0.000	0.000	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	1.4
			%CV	2.5
			P	0.000

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VARIETY	UNIFORMITY			AVERAGE
	SHAFTER	WSREC	MENDOTA	UNIFORMITY ACROSS SITES
DP-360	86.5	86.0	84.5	85.7
PHY-802 RF	86.4	86.1	86.0	86.2
PHY-804 RF	86.5	85.4	85.7	85.9
PHY-805RF	85.9	85.3	85.9	85.7
PHY-800	86.4	85.8	85.6	85.9
COBALT	86.0	85.5	84.4	85.3
DP-357	85.7	85.8	85.2	85.6
HA-195	85.3	85.3	84.9	85.2
MEAN	86.1	85.7	85.3	85.7
LSD 0.05	0.7	NS	1.0	0.5
CV%	0.6	0.9	0.8	0.6
P	0.021	0.737	0.011	0.003
Variety by location interaction			VAR * LOC	
			LSD 0.05	NS
			%CV	0.9
			P	0.287

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VARIETY	LEAF GRADE			AVERAGE
	SHAFTER	WSREC	MENDOTA	LEAF GRADE
				ACROSS SITES
DP-360	2.8	2.8	4.3	3.3
PHY-802 RF	3.0	2.5	4.5	3.3
PHY-804 RF	3.0	2.8	4.0	3.3
PHY-805RF	2.8	2.3	3.8	3.0
PHY-800	3.0	2.8	4.8	3.5
COBALT	2.0	1.8	3.3	2.4
DP-357	2.3	2.0	3.5	2.6
HA-195	4.0	3.0	4.0	3.7
MEAN	2.9	2.5	4.0	3.1
LSD 0.05	0.5	0.6	0.6	0.3
CV%	10.8	15.7	9.8	11.4
P	0.000	0.002	0.000	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	0.5
			%CV	12.0
			P	0.015

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VARIETY	HVI COLOR			AVERAGE
	SHAFTER	WSREC	MENDOTA	HVI COLOR ACROSS SITES
DP-360	3.0	2.0	3.0	2.7
PHY-802 RF	2.8	1.5	2.8	2.3
PHY-804 RF	2.8	2.3	2.8	2.6
PHY-805RF	3.0	1.8	2.5	2.4
PHY-800	3.0	2.0	3.0	2.7
COBALT	2.8	2.0	2.5	2.4
DP-357	2.8	1.5	2.8	2.3
HA-195	3.1	1.3	3.0	2.4
MEAN	2.9	1.8	2.8	2.5
LSD 0.05	NS		NS	NS
LSD 0.10		0.5		
CV%	17.7	25.0	15.5	17.9
P	0.944	0.064	0.500	0.355
Variety by location interaction			VAR * LOC	
			LSD 0.05	NS
			%CV	20.6
			P	0.556

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VARIETY	HVI TRASH			AVERAGE
	SHAFTER	WSREC	MENDOTA	HVI TRASH
DP-360	0.98	0.68	1.35	1.00
PHY-802 RF	1.33	0.68	1.63	1.21
PHY-804 RF	0.98	0.60	1.60	1.06
PHY-805RF	1.13	0.43	1.23	0.93
PHY-800	1.40	0.88	1.85	1.38
COBALT	0.48	0.35	0.78	0.54
DP-357	0.85	0.30	1.02	0.72
HA-195	1.08	0.60	1.10	0.93
MEAN	1.03	0.57	1.32	0.97
LSD 0.05	0.44	0.32	0.39	0.21
CV%	28.8	38.2	20.4	25.2
P	0.009	0.018	0.000	0.000

Variety by location interaction	VAR * LOC	
	LSD 0.05	NS
	%CV	30.6
	P	0.551

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VARIETY	RD			AVERAGE
	SHAFTER	WSREC	MENDOTA	RD ACROSS SITES
DP-360	68.1	70.1	67.7	68.6
PHY-802 RF	68.7	71.3	68.7	69.6
PHY-804 RF	68.8	70.4	68.2	69.1
PHY-805RF	68.9	70.8	69.2	69.6
PHY-800	68.1	70.3	67.2	68.5
COBALT	67.2	68.6	66.8	67.5
DP-357	68.6	70.7	68.1	69.1
HA-195	69.9	73.9	69.6	71.1
MEAN	68.5	70.8	68.2	69.2
LSD 0.05		0.9	0.6	0.5
LSD 0.10	1.2			
CV%	1.5	0.9	0.6	0.9
P	0.054	0.000	0.000	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	NS
			%CV	1.4
			P	0.498

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VARIETY	+B			AVERAGE '+B
	SHAFTER	WSREC	MENDOTA	ACROSS SITES
DP-360	10.7	11.8	11.4	11.3
PHY-802 RF	10.7	11.2	10.9	10.9
PHY-804 RF	10.8	11.9	11.2	11.3
PHY-805RF	10.6	11.7	11.1	11.1
PHY-800	10.9	11.6	11.3	11.3
COBALT	12.1	12.9	12.6	12.5
DP-357	10.8	11.8	11.6	11.4
HA-195	9.2	10.0	10.4	9.9
MEAN	10.7	11.6	11.3	11.2
LSD 0.05	0.4	0.4	0.3	0.2
CV%	2.2	2.1	1.9	2.5
P	0.000	0.000	0.000	0.000
Variety by location interaction			VAR * LOC	
			LSD 0.05	0.3
			%CV	1.8
			P	0.000