

University of California / San Joaquin Valley Cotton Board

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

AVERAGE ACROSS FIVE LOCATIONS: SJV (5 LOC.)

VARIETY	MIKE	(inches) LENGTH	(g/Tex) STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
DP-360	3.61	1.38	40.4	85.7	3.0	2.3	0.78	69.8	11.2
PHY-802 RF	3.42	1.44	41.6	86.4	3.1	2.0	0.99	70.7	10.9
PHY-804 RF	3.54	1.41	41.8	86.0	2.9	2.1	0.88	70.3	11.2
PHY-805RF	3.55	1.41	41.5	85.8	2.7	2.1	0.77	70.4	11.1
PHY-800	3.57	1.41	40.6	86.1	3.2	2.3	1.05	69.8	11.1
COBALT	3.70	1.37	40.5	85.6	2.1	2.2	0.44	68.4	12.4
DP-357	3.81	1.38	38.9	85.9	2.3	1.8	0.57	70.3	11.4
MEAN	3.60	1.40	40.8	85.9	2.8	2.1	0.78	70.0	11.3
LSD 0.05	0.08	0.01	0.7	0.4	0.3		0.14	0.4	0.2
LSD 0.10						0.3			
%CV	3.5	1.0	2.5	0.7	13.9	22.9	26.5	0.8	2.2
P	0.000	0.000	0.000	0.009	0.000	0.068	0.000	0.000	0.000
Variety by Location Interaction (VAR*LOC)									
LSD 0.05	NS	0.02	1.5		NS	NS	NS	NS	NS
LSD 0.10				0.7					
%CV	3.8	1.1	2.6	0.7	17.1	23.3	35.7	1.3	1.8
P	0.101	0.005	0.002	0.083	0.969	0.662	0.410	0.921	0.107

**2010 PIMA SJVCB VARIETY TRIALS**

**HVI DATA - USDA - Visalia Classing Office**

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	MICRONAIRE					AVERAGE MICRONAIRE ACROSS SITES
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	
DP-360	3.70	3.55	3.50	3.98	3.30	3.61
PHY-802 RF	3.43	3.28	3.40	3.83	3.18	3.42
PHY-804 RF	3.55	3.38	3.53	3.80	3.45	3.54
PHY-805RF	3.55	3.35	3.54	3.88	3.43	3.55
PHY-800	3.63	3.45	3.53	3.98	3.28	3.57
COBALT	3.90	3.53	3.73	4.05	3.28	3.70
DP-357	3.85	3.80	3.78	4.13	3.50	3.81
MEAN	3.66	3.48	3.57	3.95	3.35	3.60
LSD 0.05	0.26	0.19	0.21	0.17	0.15	0.08
CV%	4.8	3.7	3.9	2.9	3.0	3.5
P	0.012	0.001	0.018	0.008	0.003	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

3.8

P

0.101

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	LENGTH (inches)					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	LENGTH (in.) ACROSS SITES
DP-360	1.39	1.40	1.37	1.38	1.35	1.38
PHY-802 RF	1.44	1.44	1.45	1.44	1.44	1.44
PHY-804 RF	1.41	1.41	1.42	1.41	1.41	1.41
PHY-805RF	1.40	1.40	1.41	1.42	1.41	1.41
PHY-800	1.41	1.41	1.43	1.41	1.41	1.41
COBALT	1.38	1.39	1.38	1.39	1.34	1.38
DP-357	1.37	1.38	1.38	1.40	1.35	1.38
MEAN	1.40	1.40	1.41	1.41	1.39	1.40
LSD 0.05	0.02	0.03	0.02	0.02	0.02	0.01
CV%	1.1	1.2	0.9	0.9	0.9	1.0
P	0.000	0.005	0.000	0.000	0.000	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05      0.02

%CV      1.1

P      0.005

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	STRENGTH (g/Text)					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	STRENGTH ACROSS SITES
DP-360	41.5	40.6	39.1	41.4	39.6	40.4
PHY-802 RF	41.6	41.2	41.2	42.9	41.1	41.6
PHY-804 RF	41.9	40.6	42.0	43.3	41.5	41.9
PHY-805RF	40.7	40.7	40.8	42.7	42.7	41.5
PHY-800	41.8	39.4	40.2	40.9	40.7	40.6
COBALT	40.3	40.4	40.0	41.5	40.3	40.5
DP-357	40.5	39.9	37.9	39.4	37.0	38.9
MEAN	41.2	40.4	40.2	41.7	40.4	40.8
LSD 0.05	NS	NS	1.7	2.0	1.5	0.7
CV%	2.7	2.1	2.8	3.3	2.5	2.5
P	0.241	0.169	0.003	0.009	0.000	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05	1.5
%CV	2.6
P	0.002

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	UNIFORMITY INDEX					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	UNIFORMITY ACROSS SITES
DP-360	86.5	86.0	85.4	86.0	84.5	85.7
PHY-802 RF	86.4	86.1	86.6	86.8	86.0	86.4
PHY-804 RF	86.5	85.4	85.9	86.5	85.7	86.0
PHY-805RF	85.9	85.3	85.5	86.5	85.9	85.8
PHY-800	86.4	85.8	86.1	86.6	85.6	86.1
COBALT	86.0	85.5	85.8	86.3	84.4	85.6
DP-357	85.7	85.8	85.7	87.0	85.2	85.9
MEAN	86.2	85.7	85.9	86.5	85.3	85.9
LSD 0.05	NS	NS	NS	NS	0.8	0.4
CV%	0.5	0.8	0.7	0.6	0.6	0.7
P	0.142	0.621	0.165	0.248	0.001	0.009

Variety by location interaction

VAR \* LOC

LSD 0.10 0.7

%CV 0.7

P 0.083

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	LEAF GRADE - HVI					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	LEAF GRADE ACROSS SITES
DP-360	2.8	2.8	2.5	2.5	4.3	3.0
PHY-802 RF	3.0	2.5	2.5	2.8	4.5	3.1
PHY-804 RF	3.0	2.8	2.5	2.3	4.0	2.9
PHY-805RF	2.8	2.3	2.4	2.3	3.8	2.7
PHY-800	3.0	2.8	2.8	2.5	4.8	3.2
COBALT	2.0	1.8	2.0	1.5	3.3	2.1
DP-357	2.3	2.0	2.0	1.8	3.5	2.3
MEAN	2.7	2.4	2.4	2.2	4.0	2.8
LSD 0.05	0.5	0.6	NS	0.8	0.6	0.3
CV%	12.0	16.9	20.2	24.5	10.2	13.9
P	0.001	0.010	0.286	0.049	0.001	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

17.1

P

0.969

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	AVERAGE HVI COLOR					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	HVI COLOR
						ACROSS SITES
DP-360	3.0	2.0	1.8	1.5	3.0	2.3
PHY-802 RF	2.8	1.5	1.5	1.3	2.8	2.0
PHY-804 RF	2.8	2.3	1.5	1.3	2.8	2.1
PHY-805RF	3.0	1.8	2.0	1.3	2.5	2.1
PHY-800	3.0	2.0	1.5	1.8	3.0	2.3
COBALT	2.8	2.0	2.0	1.8	2.5	2.2
DP-357	2.8	1.5	1.0	1.0	2.8	1.8
MEAN	2.9	1.9	1.6	1.4	2.8	2.1
LSD 0.05	NS	NS			NS	
LSD 0.10			0.6	0.5		0.3
CV%	17.9	22.8	28.8	27.5	16.8	22.9
P	0.943	0.156	0.089	0.092	0.598	0.068

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

23.3

P

0.662

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	AVERAGE HVI TRASH					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	HVI TRASH
DP-360	0.98	0.68	0.48	0.40	1.35	0.78
PHY-802 RF	1.33	0.68	0.73	0.60	1.63	0.99
PHY-804 RF	0.98	0.60	0.70	0.53	1.60	0.88
PHY-805RF	1.13	0.43	0.62	0.43	1.23	0.77
PHY-800	1.40	0.88	0.65	0.45	1.85	1.05
COBALT	0.48	0.35	0.43	0.18	0.78	0.44
DP-357	0.85	0.30	0.35	0.30	1.02	0.56
MEAN	1.02	0.56	0.57	0.41	1.35	0.78
LSD 0.05	0.46	0.33		0.23	0.38	0.14
LSD 0.10			0.23			
CV%	30.1	39.5	32.5	38.3	18.7	26.5
P	0.009	0.017	0.061	0.026	0.000	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

35.7

P

0.410



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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	RD - HVI					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	RD ACROSS SITES
DP-360	68.1	70.1	71.9	71.5	67.7	69.9
PHY-802 RF	68.7	71.3	72.3	72.3	68.7	70.7
PHY-804 RF	68.8	70.4	72.1	71.9	68.2	70.3
PHY-805RF	68.9	70.8	71.6	71.7	69.2	70.4
PHY-800	68.1	70.3	72.1	71.5	67.2	69.8
COBALT	67.2	68.6	69.6	70.0	66.8	68.4
DP-357	68.6	70.7	72.4	71.7	68.1	70.3
MEAN	68.3	70.3	71.7	71.5	68.0	70.0
LSD 0.05	NS	0.9	1.1	0.8	0.5	0.4
CV%	1.5	0.8	1.0	0.8	0.5	0.8
P	0.291	0.000	0.001	0.001	0.000	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

1.3

P

0.921

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**AVERAGE FOR EACH OF 5 SJV LOCATIONS**

VARIETY	+B - HVI					AVERAGE
	SHAFTER	WSREC	CORCORAN	HURON	MENDOTA	+B ACROSS SITES
DP-360	10.7	11.8	11.0	11.4	11.4	11.3
PHY-802 RF	10.7	11.2	10.7	10.9	10.9	10.9
PHY-804 RF	10.8	11.9	10.9	11.3	11.2	11.2
PHY-805RF	10.6	11.7	10.8	11.3	11.1	11.1
PHY-800	10.9	11.6	10.8	11.3	11.3	11.2
COBALT	12.1	12.9	11.9	12.3	12.6	12.4
DP-357	10.8	11.8	11.1	11.5	11.6	11.4
MEAN	10.9	11.8	11.0	11.4	11.4	11.3
LSD 0.05	0.3	0.4	0.2	0.2	0.3	0.2
CV%	2.1	2.3	1.5	1.1	1.9	2.2
P	0.000	0.000	0.000	0.000	0.000	0.000

Variety by location interaction

VAR \* LOC

LSD 0.05

NS

%CV

1.8

P

0.107