

University of California / San Joaquin Valley Cotton Board

Questions? Contact - Bob Hutmacher (Univ. CA) cell # (559) 260-8957 or e-mail: rbhutmacher@ucdavis.edu	Cooperative Project by: San Joaquin Valley Cotton Board / University of California / Various Seed Companies California Department of Food and Agriculture / Supima Association Cooperators: Hutmacher, Wright, Munk, Marsh, Weir, Keeley, Delgado, Banuelos, Wroble
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* note that these are the trial locations where we had ten entries included in the trials

Hazera hybrid entries were included at locations shown in this table

LOCATION: SJV (4 LOCATIONS)

VARIETY	MICRONAIRE	LENGTH (inches)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.62	1.43	41.7	86.8	3.69	1.94	1.06	70.5	11.3
DP-340	3.83	1.40	39.5	86.7	2.69	1.56	0.66	71.0	11.6
DP-357	3.81	1.39	39.3	86.8	2.81	1.50	0.67	70.9	11.6
COBALT	3.68	1.39	41.8	86.3	2.18	2.04	0.48	68.7	12.5
HA-195	3.69	1.37	36.6	86.2	3.50	1.63	0.93	72.9	9.9
HA-222	3.76	1.42	36.1	85.9	4.16	2.46	1.21	70.5	10.3
PHY-802RF	3.45	1.45	42.2	87.0	3.91	1.90	1.06	70.7	11.2
PHY-805RF	3.64	1.43	43.3	86.7	3.19	1.56	0.79	71.1	11.5
PO6X8188	3.78	1.44	41.2	86.8	3.06	1.63	0.79	71.6	11.3
PO7X8227	3.78	1.40	41.4	86.8	3.34	2.08	0.89	69.8	11.5
MEAN	3.70	1.41	40.3	86.6	3.25	1.83	0.85	70.8	11.3
LSD 0.05	0.11	0.01	1.0	0.4	0.53	0.31	0.18	0.6	0.2
%CV	4.1	1.3	3.5	0.6	22.5	23.0	29.5	1.1	2.0
P	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

* the Shafter, West Side REC, Mendota and Dos Palos locations are also included in the 5-location comparison with 8 entries shown in separate tables, but only these 4 locations include the Hazera entries, for a total of 10 entries.

Variety by Location Differences

LSD 0.05		NS	NS	0.8	NS	NS		NS	NS
LSD 0.10	0.20						0.29		
%CV	4.5	1.5	3.7	0.7	19.5	24.0	29.1	1.3	2.5
P	0.055	0.174	0.120	0.005	0.119	0.584	0.066	0.734	0.125

2011 PIMA UC/SJVCB VARIETY TRIALS

Micronaire

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HVI Data from Visalia USDA Classing Office

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LOCATION: SJV (4 LOCATIONS)

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE MICRONAIRE
PHY-800	3.70	3.88	3.58	3.33	3.62
DP-340	3.88	4.20	3.70	3.53	3.83
DP-357	4.05	4.08	3.70	3.40	3.81
COBALT	4.05	3.80	3.50	3.35	3.68
HA-195	3.95	3.85	3.63	3.35	3.69
HA-222	4.10	3.91	3.80	3.25	3.76
PHY-802RF	3.60	3.72	3.25	3.23	3.45
PHY-805RF	3.90	3.78	3.43	3.48	3.64
PO6X8188	4.00	4.03	3.65	3.45	3.78
PO7X8227	3.90	4.04	3.70	3.45	3.78
MEAN	3.91	3.93	3.59	3.38	3.70
LSD 0.05	0.23	0.19	0.21	NS	0.11
CV%	4.1	3.2	4.1	4.5	4.1
P	0.003	0.000	0.001	0.151	0.000

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Variety by Location Differences

LSD 0.10	0.20
%CV	4.5
P	0.055

2011 PIMA UC/SJVCB VARIETY TRIALS

Length

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LOCATION: SJV (4 LOCATIONS)

AVERAGE
 LENGTH
 (inches)

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE LENGTH (inches)
PHY-800	1.43	1.45	1.43	1.41	1.43
DP-340	1.39	1.43	1.40	1.37	1.40
DP-357	1.39	1.41	1.38	1.37	1.39
COBALT	1.39	1.43	1.37	1.37	1.39
HA-195	1.37	1.41	1.37	1.35	1.37
HA-222	1.40	1.45	1.41	1.40	1.42
PHY-802RF	1.44	1.49	1.48	1.40	1.45
PHY-805RF	1.42	1.46	1.44	1.39	1.43
PO6X8188	1.43	1.47	1.43	1.41	1.44
PO7X8227	1.40	1.41	1.41	1.36	1.40
MEAN	1.41	1.44	1.41	1.38	1.41
LSD 0.05	0.03	0.03	0.02	0.04	0.01
CV%	1.4	1.3	0.9	1.8	1.3
P	0.000	0.000	0.000	0.010	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	1.5
P	0.174

2011 PIMA UC/SJVCB VARIETY TRIALS

Strength

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LOCATIONS: SJV (4 LOCATIONS)

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE STRENGTH (g/Tex)
PHY-800	39.6	42.4	42.8	41.9	41.7
DP-340	39.7	41.3	39.6	37.5	39.5
DP-357	38.9	40.1	39.8	38.6	39.3
COBALT	41.3	43.7	42.2	40.1	41.8
HA-195	35.9	38.4	36.7	35.5	36.6
HA-222	34.8	37.7	37.6	34.3	36.1
PHY-802RF	42.0	42.4	44.0	40.3	42.2
PHY-805RF	43.9	42.6	43.8	43.0	43.3
PO6X8188	41.5	40.7	41.8	40.6	41.2
PO7X8227	40.7	42.2	42.5	40.1	41.4
MEAN	39.8	41.2	41.1	39.2	40.3
LSD 0.05	2.2	1.7	2.2	2.4	1.0
CV%	3.7	2.8	3.7	4.2	3.5
P	0.000	0.000	0.000	0.000	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	3.7
P	0.120

2011 PIMA UC/SJVCB VARIETY TRIALS

Uniformity Index

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LOCATIONS: SJV (4 LOCATIONS)

AVERAGE
UNIFORMITY

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	INDEX
PHY-800	87.0	86.8	87.2	86.4	86.8
DP-340	87.1	87.4	86.3	86.0	86.7
DP-357	86.8	86.8	86.7	86.7	86.8
COBALT	86.2	87.5	86.1	85.5	86.3
HA-195	86.8	86.2	85.7	85.9	86.2
HA-222	86.3	86.0	86.1	85.3	85.9
PHY-802RF	87.3	87.6	87.3	86.0	87.0
PHY-805RF	87.3	86.6	86.6	86.3	86.7
PO6X8188	86.7	87.0	87.0	86.5	86.8
PO7X8227	87.2	86.3	87.5	86.1	86.8
MEAN	86.9	86.8	86.7	86.1	86.6
LSD 0.05	NS	0.7	0.9	0.8	0.4
CV%	0.7	0.6	0.7	0.6	0.6
P	0.216	0.001	0.003	0.032	0.000

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Variety by Location Differences

LSD 0.05	0.8
%CV	0.7
P	0.005

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LOCATION: SJV (4 LOCATIONS)

AVERAGE

LEAF

GRADE

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE LEAF GRADE
PHY-800	4.25	2.75	3.00	4.75	3.69
DP-340	2.50	2.25	2.00	4.00	2.69
DP-357	2.75	1.75	2.50	4.25	2.81
COBALT	1.75	1.70	2.25	3.00	2.18
HA-195	3.50	2.50	3.00	5.00	3.50
HA-222	4.50	3.66	3.25	5.25	4.16
PHY-802RF	4.25	3.62	3.25	4.50	3.91
PHY-805RF	2.75	3.00	2.75	4.25	3.19
PO6X8188	2.75	2.25	2.50	4.75	3.06
PO7X8227	3.25	2.35	2.75	5.00	3.34
MEAN	3.23	2.58	2.73	4.48	3.25
LSD 0.05	0.96	0.88	0.73	1.21	0.53
CV%	20.5	23.4	18.5	18.7	22.5
P	0.000	0.001	0.021	0.037	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	19.5
P	0.119

2011 PIMA UC/SJVCB VARIETY TRIALS

HVI Color

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HVI Data from Visalia USDA Classing Office

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LOCATION: SJV (4 LOCATIONS)

AVERAGE

HVI

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	COLOR
PHY-800	2.00	1.25	1.50	3.00	1.94
DP-340	1.75	1.00	1.00	2.50	1.56
DP-357	1.25	1.00	1.25	2.50	1.50
COBALT	2.00	1.69	1.75	2.75	2.04
HA-195	2.00	1.00	1.25	2.25	1.63
HA-222	2.75	2.07	2.25	2.75	2.46
PHY-802RF	2.00	1.60	1.25	2.75	1.90
PHY-805RF	1.75	1.00	1.00	2.50	1.56
PO6X8188	1.75	1.25	1.00	2.50	1.63
PO7X8227	2.25	1.30	1.75	3.00	2.08
MEAN	1.95	1.32	1.40	2.65	1.83
LSD 0.05	0.50	0.66	0.54	NS	0.31
CV%	17.7	34.5	26.4	18.5	23.0
P	0.001	0.032	0.001	0.486	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	24.0
P	0.584

2011 PIMA UC/SJVCB VARIETY TRIALS

HVI Trash

University of California / San Joaquin Valley Cotton Board

HVI Data from Visalia USDA Classing Office

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LOCATION: SJV (4 LOCATIONS)

AVERAGE

HVI

TRASH

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	TRASH
PHY-800	1.30	0.60	0.78	1.55	1.06
DP-340	0.58	0.45	0.35	1.25	0.66
DP-357	0.63	0.38	0.50	1.18	0.67
COBALT	0.35	0.35	0.48	0.75	0.48
HA-195	0.80	0.55	0.75	1.60	0.93
HA-222	1.40	0.95	0.75	1.73	1.21
PHY-802RF	1.23	0.99	0.70	1.33	1.06
PHY-805RF	0.75	0.63	0.55	1.23	0.79
PO6X8188	0.70	0.48	0.58	1.43	0.79
PO7X8227	0.98	0.48	0.63	1.50	0.89
MEAN	0.87	0.59	0.61	1.36	0.85
LSD 0.05	0.32	0.28	0.25	0.50	0.18
CV%	25.6	32.7	28.5	25.6	29.5
P	0.000	0.001	0.024	0.029	0.000

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Variety by Location Differences

LSD 0.10	0.29
%CV	29.1
P	0.066

2011 PIMA UC/SJVCB VARIETY TRIALS

COLOR (RD)

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HVI Data from Visalia USDA Classing Office

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LOCATION: SJV (4 LOCATIONS)

AVERAGE
COLOR

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	(RD)
PHY-800	70.4	72.2	71.9	67.6	70.5
DP-340	71.4	71.8	72.2	68.5	71.0
DP-357	71.7	71.6	72.0	68.3	70.9
COBALT	69.1	69.8	69.1	66.6	68.7
HA-195	72.4	74.5	74.0	70.8	72.9
HA-222	70.1	71.5	71.9	68.4	70.5
PHY-802RF	71.0	71.4	72.1	68.4	70.7
PHY-805RF	71.4	71.9	72.4	68.7	71.1
PO6X8188	72.1	72.7	72.7	68.8	71.6
PO7X8227	69.5	71.5	71.2	67.0	69.8
MEAN	70.9	71.9	72.0	68.3	70.8
LSD 0.05	0.8	1.4	1.1	1.6	0.6
CV%	0.8	1.4	1.1	1.6	1.1
P	0.000	0.000	0.000	0.001	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	1.3
P	0.734

2011 PIMA UC/SJVCB VARIETY TRIALS

COLOR (+B)

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LOCATION: SJV (4 LOCATIONS)

AVERAGE
COLOR

VARIETY	SHAFTER	WEST SIDE REC	MENDOTA	DOS PALOS	(+B)
PHY-800	11.2	11.4	11.2	11.4	11.3
DP-340	11.6	11.6	11.5	11.8	11.6
DP-357	11.2	12.0	11.5	11.8	11.6
COBALT	12.4	12.5	12.5	12.7	12.5
HA-195	9.3	10.2	10.2	9.9	9.9
HA-222	9.9	10.5	10.3	10.6	10.3
PHY-802RF	11.1	11.1	11.1	11.4	11.2
PHY-805RF	11.3	11.7	11.4	11.4	11.5
PO6X8188	10.8	11.5	11.2	11.5	11.3
PO7X8227	11.3	11.6	11.4	11.7	11.5
MEAN	11.0	11.4	11.2	11.4	11.3
LSD 0.05	0.4	0.3	0.4	0.4	0.2
CV%	2.5	2.0	2.4	2.3	2.0
P	0.000	0.000	0.000	0.000	0.000

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Variety by Location Differences

LSD 0.05	NS
%CV	2.5
P	0.125