

University of California / San Joaquin Valley Cotton Board

Questions? Contact - Bob Hutmacher (Univ. CA) cell # (559) 260-8957 or e-mail: rbhutmacher@ucdavis.edu	<u>Cooperative Project by:</u> 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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LOCATION: SJV (5 LOC.)

VARIETY	MICRONAIRE	LENGTH (inches)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.65	1.43	42.1	87.0	3.55	1.85	0.98	70.8	11.3
DP-340	3.83	1.39	39.8	86.7	2.60	1.55	0.62	71.0	11.6
DP-357	3.84	1.39	39.6	86.8	2.50	1.50	0.59	71.0	11.6
COBALT	3.75	1.39	42.0	86.4	1.93	1.93	0.42	68.9	12.5
PHY-802RF	3.49	1.45	42.4	87.1	3.64	1.82	0.96	71.0	11.2
PHY-805RF	3.68	1.43	43.5	86.7	2.95	1.45	0.70	71.4	11.4
PO6X8188	3.84	1.43	41.2	86.8	2.90	1.50	0.71	71.9	11.2
PO7X8227	3.83	1.40	41.8	86.8	3.08	2.02	0.80	70.0	11.5
MEAN	3.74	1.41	41.6	86.8	2.89	1.70	0.72	70.8	11.5
LSD 0.05	0.10	0.01	1.0	0.3	0.39	0.33	0.14	0.5	0.1
%CV	4.1	1.1	3.6	0.6	20.4	29.1	28.6	1.1	1.9
P	0.000	0.000	0.000	0.018	0.000	0.005	0.000	0.000	0.000

Variety by Location Differences

NS = not significantly different

LSD 0.05	NS	NS	NS	0.9	0.82	NS	0.29	NS	NS
%CV	4.4	1.5	3.7	0.7	20.2	24.7	28.4	1.1	2.2
P	0.173	0.120	0.213	0.023	0.028	0.860	0.013	0.225	0.525

2011 PIMA UC/SJVCB VARIETY TRIALS

Micronaire

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HVI Data - from USDA Visalia Classing Office

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE MICRONAIRE
PHY-800	3.70	3.78	3.88	3.58	3.33	3.65
DP-340	3.88	3.85	4.20	3.70	3.53	3.83
DP-357	4.05	3.98	4.08	3.70	3.40	3.84
COBALT	4.05	4.03	3.79	3.50	3.35	3.75
PHY-802RF	3.60	3.63	3.72	3.25	3.23	3.49
PHY-805RF	3.90	3.80	3.78	3.43	3.48	3.68
PO6X8188	4.00	4.05	4.03	3.65	3.45	3.84
PO7X8227	3.90	4.05	4.04	3.70	3.45	3.83
MEAN	3.89	3.90	3.94	3.56	3.40	3.74
LSD 0.05	0.23	0.29	0.19	0.16	NS	0.10
CV%	4.0	5.0	3.3	3.0	4.2	4.1
P	0.004	0.049	0.001	0.000	0.140	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	4.4
P	0.173

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Length

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE LENGTH (inches)
PHY-800	1.43	1.45	1.45	1.43	1.41	1.43
DP-340	1.39	1.39	1.43	1.40	1.37	1.39
DP-357	1.39	1.38	1.41	1.38	1.37	1.39
COBALT	1.39	1.40	1.44	1.37	1.37	1.39
PHY-802RF	1.44	1.46	1.49	1.48	1.40	1.45
PHY-805RF	1.42	1.42	1.46	1.44	1.39	1.43
PO6X8188	1.43	1.41	1.47	1.43	1.41	1.43
PO7X8227	1.40	1.40	1.41	1.41	1.36	1.40
MEAN	1.41	1.41	1.45	1.42	1.39	1.41
LSD 0.05	0.03	0.02	0.03	0.02		0.01
LSD 0.10					0.03	
CV%	1.5	1.1	1.3	0.9	1.9	1.1
P	0.005	0.000	0.000	0.000	0.085	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	1.5
P	0.120

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Strength

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE STRENGTH (g/Tex)
PHY-800	39.6	43.9	42.4	42.8	41.9	42.1
DP-340	39.7	40.8	41.3	39.6	37.5	39.8
DP-357	38.9	40.8	40.1	39.8	38.6	39.6
COBALT	41.3	42.9	43.8	42.2	40.1	42.0
PHY-802RF	42.0	43.2	42.3	44.0	40.3	42.4
PHY-805RF	43.9	44.2	42.6	43.8	43.0	43.5
PO6X8188	41.5	41.2	40.7	41.8	40.6	41.2
PO7X8227	40.7	43.6	42.2	42.5	40.1	41.8
MEAN	41.0	42.6	41.9	42.1	40.3	41.6
LSD 0.05	2.4	2.1	1.8	2.1	2.6	1.0
CV%	3.9	3.4	2.8	3.3	4.4	3.6
P	0.007	0.009	0.008	0.001	0.009	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	3.7
P	0.213

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Uniformity Index

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE UNIFORMITY INDEX
PHY-800	87.0	87.6	86.8	87.2	86.4	87.0
DP-340	87.1	86.8	87.4	86.3	86.0	86.7
DP-357	86.8	86.9	86.8	86.7	86.7	86.8
COBALT	86.2	86.8	87.6	86.1	85.5	86.4
PHY-802RF	87.3	87.6	87.6	87.3	86.0	87.1
PHY-805RF	87.3	86.9	86.6	86.6	86.3	86.7
PO6X8188	86.7	86.8	87.0	87.0	86.5	86.8
PO7X8227	87.2	86.8	86.3	87.5	86.1	86.8
MEAN	87.0	87.0	87.0	86.8	86.2	86.8
LSD 0.05	NS	NS	0.8		NS	0.3
LSD 0.10				0.8		
CV%	0.7	0.6	0.6	0.7	0.7	0.6
P	0.316	0.109	0.022	0.061	0.164	0.018

Variety by Location Difference

LSD 0.05	0.9
%CV	0.7
P	0.023

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Leaf Grade

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE LEAF GRADE
PHY-800	4.25	3.00	2.75	3.00	4.75	3.55
DP-340	2.50	2.25	2.25	2.00	4.00	2.60
DP-357	2.75	1.25	1.75	2.50	4.25	2.50
COBALT	1.75	1.00	1.62	2.25	3.00	1.93
PHY-802RF	4.25	2.50	3.67	3.25	4.50	3.64
PHY-805RF	2.75	2.00	3.00	2.75	4.25	2.95
PO6X8188	2.75	2.14	2.25	2.50	4.75	2.90
PO7X8227	3.25	2.00	2.37	2.75	5.00	3.08
MEAN	3.03	2.02	2.46	2.63	4.31	2.89
LSD 0.05	0.86	0.72	0.76	0.62	1.15	0.39
CV%	19.3	24.2	21.0	16.1	18.2	20.4
P	0.000	0.000	0.001	0.011	0.047	0.000

Variety by Location Difference

LSD 0.05	0.82
%CV	20.2
P	0.028

2011 PIMA UC/SJVCB VARIETY TRIALS

HVI Color

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE HVI COLOR
PHY-800	2.00	1.50	1.25	1.50	3.00	1.85
DP-340	1.75	1.50	1.00	1.00	2.50	1.55
DP-357	1.25	1.50	1.00	1.25	2.50	1.50
COBALT	2.00	1.50	1.65	1.75	2.75	1.93
PHY-802RF	2.00	1.50	1.60	1.25	2.75	1.82
PHY-805RF	1.75	1.00	1.00	1.00	2.50	1.45
PO6X8188	1.75	1.04	1.25	1.00	2.50	1.50
PO7X8227	2.25	1.75	1.35	1.75	3.00	2.02
MEAN	1.84	1.41	1.26	1.31	2.69	1.70
LSD 0.05	0.52	NS	NS	0.49	NS	0.33
CV%	19.3	36.8	30.7	25.6	18.4	29.1
P	0.032	0.470	0.150	0.010	0.593	0.005

Variety by Location Difference

LSD 0.05	NS
%CV	24.7
P	0.860

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HVI Trash

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VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE HVI TRASH
PHY-800	1.30	0.65	0.60	0.78	1.55	0.98
DP-340	0.58	0.45	0.45	0.35	1.25	0.62
DP-357	0.63	0.28	0.38	0.50	1.18	0.59
COBALT	0.35	0.18	0.32	0.48	0.75	0.42
PHY-802RF	1.23	0.53	1.01	0.70	1.33	0.96
PHY-805RF	0.75	0.35	0.63	0.55	1.23	0.70
PO6X8188	0.70	0.36	0.48	0.58	1.43	0.71
PO7X8227	0.98	0.40	0.48	0.63	1.50	0.80
MEAN	0.82	0.40	0.54	0.57	1.28	0.72
LSD 0.05	0.30	0.17	0.20	0.19		0.14
LSD 0.10					0.39	
CV%	25.2	28.9	24.8	23.1	25.0	28.6
P	0.000	0.000	0.000	0.005	0.051	0.000

Variety by Location Difference

LSD 0.05	0.29
%CV	28.4
P	0.013

2011 PIMA UC/SJVCB VARIETY TRIALS

Color (Rd)

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE COLOR (Rd)
PHY-800	70.4	72.0	72.2	71.9	67.6	70.8
DP-340	71.4	71.1	71.8	72.2	68.5	71.0
DP-357	71.7	71.5	71.6	72.0	68.3	71.0
COBALT	69.1	69.8	69.9	69.1	66.6	68.9
PHY-802RF	71.0	72.1	71.3	72.1	68.4	71.0
PHY-805RF	71.4	72.8	71.9	72.4	68.7	71.4
PO6X8188	72.1	73.3	72.7	72.7	68.8	71.9
PO7X8227	69.5	71.1	71.4	71.2	67.0	70.0
MEAN	70.8	71.7	71.6	71.7	68.0	70.8
LSD 0.05	0.8	0.8	1.1	1.0	1.5	0.5
CV%	0.8	0.8	1.1	0.9	1.5	1.1
P	0.000	0.000	0.006	0.000	0.049	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	1.1
P	0.225

2011 PIMA UC/SJVCB VARIETY TRIALS

Color (+B)

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LOCATION: SJV (5 LOC.)

VARIETY	SHAFTER	CORCORAN	WEST SIDE REC	MENDOTA	DOS PALOS	AVERAGE COLOR (+B)
PHY-800	11.2	11.1	11.4	11.2	11.4	11.3
DP-340	11.6	11.7	11.6	11.5	11.8	11.6
DP-357	11.2	11.5	12.0	11.5	11.8	11.6
COBALT	12.4	12.3	12.5	12.5	12.7	12.5
PHY-802RF	11.1	11.1	11.1	11.1	11.4	11.2
PHY-805RF	11.3	11.3	11.7	11.4	11.4	11.4
PO6X8188	10.8	10.9	11.5	11.2	11.5	11.2
PO7X8227	11.3	11.5	11.6	11.4	11.7	11.5
MEAN	11.4	11.4	11.7	11.5	11.7	11.5
LSD 0.05	0.4	0.2	0.3	0.4	0.4	0.1
CV%	2.3	1.3	2.0	2.4	2.4	1.9
P	0.000	0.000	0.000	0.000	0.000	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	2.2
P	0.525