

2012 PIMA UC / SJVCB VARIETY TRIALS - HVI DATA - VISALIA CLASSING OFFICE

4 location average

Questions?	<u>Cooperative Project by:</u>
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
or e-mail: rbhutmacher@ucdavis.edu	Cooperators: Hutmacher, Wright, Munk, Marsh, Keeley, Delgado, Banuelos, Wroble, Weir

HVI DATA - Visalia Classing Office

averages shown across all locations - except Corcoran

VARIETY	MIC	(inches) LENGTH	(g/Tex) STREN	UI	MANUAL CLASSING		HVI		COLOR	
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B	
PHY-800	3.73	1.40	42.8	86.4	3.19	1.69	0.74	71.7	11.0	
DP-360	3.76	1.36	42.8	85.8	2.69	1.31	0.58	71.9	11.1	
DP-357	3.91	1.36	40.9	86.2	2.25	1.25	0.51	71.8	11.4	
11R158R2P (released as DP-358RF)	3.63	1.40	43.3	87.0	2.88	1.44	0.69	72.1	11.0	
11R130R2P	3.98	1.39	42.4	87.0	2.44	1.19	0.52	73.2	11.0	
PHY-802RF	3.63	1.43	43.5	86.9	3.19	1.63	0.82	71.6	10.9	
PHY-805RF	3.84	1.41	44.6	86.4	3.00	1.25	0.74	72.3	11.0	
PX8262RF (released as Phy-811RF)	3.73	1.40	43.2	86.7	3.44	1.56	0.89	71.4	11.1	
MEAN	3.78	1.39	42.9	86.6	2.88	1.41	0.69	72.0	11.1	
LSD 0.05	0.12	0.02	1.7	0.4	0.43	0.35	0.15	0.8	0.2	
%CV	4.3	1.6	5.3	0.6	20.3	33.8	28.8	1.5	2.1	
P	0.000	0.000	0.014	0.000	0.000	0.044	0.000	0.005	0.000	

Var. by Loc. Difference

LSD 0.05	NS	NS	NS	NS	NS	NS	NS	NS	
LSD 0.10									0.3
%CV	4.2	1.7	4.3	0.9	22.6	34.4	32.2	1.6	1.8
P	0.220	0.758	0.316	0.850	0.905	0.229	0.537	0.231	0.010

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5 locations / 4 replications average (CORCORAN)

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Average of 4 Locations (San Joaquin Valley)

MICRONAIRE						
VARIETY	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. MICRONAIRE
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	3.73	3.88	3.83	3.50		3.73
DP-360	3.60	3.93	3.83	3.68		3.76
DP-357	3.63	4.18	4.10	3.73		3.91
11R158R2P (released as DP-358RF)	3.53	3.85	3.68	3.45	4.05	3.63
11R130R2P	3.88	4.15	4.18	3.73	4.33	3.98
PHY-802RF	3.53	3.80	3.65	3.53	4.03	3.63
PHY-805RF	3.78	4.08	3.83	3.70	4.20	3.84
PX8262RF (released as Phy-811RF)	3.58	4.10	3.68	3.58	4.08	3.73
MEAN	3.66	4.00	3.85	3.61	4.14	3.78
LSD 0.05	0.18	NS	0.14	0.14	0.17	0.12
CV%	3.4	6.4	2.4	2.7	2.6	4.3
P	0.005	0.278	0.000	0.002	0.011	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	4.2
P	0.220

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Average of 4 Locations (San Joaquin Valley)

VARIETY	LENGTH					AVG. LENGTH
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	1.40	1.39	1.41	1.40		1.40
DP-360	1.37	1.38	1.37	1.33		1.36
DP-357	1.36	1.36	1.38	1.34		1.36
11R158R2P (released as DP-358RF)	1.41	1.41	1.40	1.40	1.37	1.40
11R130R2P	1.40	1.38	1.40	1.37	1.35	1.39
PHY-802RF	1.44	1.41	1.44	1.42	1.39	1.43
PHY-805RF	1.41	1.42	1.41	1.40	1.37	1.41
PX8262RF (released as Phy-811RF)	1.41	1.39	1.40	1.39	1.37	1.40
MEAN	1.40	1.39	1.40	1.38	1.37	1.39
LSD 0.05	0.03	NS	0.03	0.02	0.03	0.02
CV%	1.4	2.6	1.2	1.1	1.3	1.6
P	0.000	0.396	0.001	0.000	0.047	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	1.7
P	0.758

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5 locations / 4 replications average (CORCORAN)

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Average of 4 Locations (San Joaquin Valley)

VARIETY	STRENGTH					AVG. STRENGTH
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	43.2	43.8	41.9	42.2		42.8
DP-360	41.6	44.8	42.9	41.8		42.8
DP-357	37.7	43.8	40.6	41.6		40.9
11R158R2P (released as DP-358RF)	42.0	45.2	42.6	43.2	43.7	43.3
11R130R2P	40.3	44.5	41.9	43.1	43.4	42.4
PHY-802RF	40.4	45.9	42.7	44.8	46.5	43.5
PHY-805RF	41.4	48.0	44.6	44.6	46.4	44.6
PX8262RF (released as Phy-811RF)	41.8	44.9	42.0	44.1	44.4	43.2
MEAN	41.1	45.1	42.4	43.2	44.9	42.9
LSD 0.05	2.5	NS	1.8	NS	2.0	1.7
CV%	4.1	6.6	2.9	4.0	2.9	5.3
P	0.009	0.552	0.013	0.102	0.014	0.014

Variety by Location Difference

LSD 0.05	NS
%CV	4.3
P	0.316

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Average of 4 Locations (San Joaquin Valley)

UNIFORMITY						
VARIETY	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. UNIFORMITY
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	86.2	86.4	86.9	86.3		86.4
DP-360	85.6	86.4	86.1	85.3		85.8
DP-357	85.7	86.4	86.6	86.1		86.2
11R158R2P (released as DP-358RF)	86.8	87.6	86.6	87.0	86.5	87.0
11R130R2P	87.3	87.1	87.0	86.6	86.1	87.0
PHY-802RF	86.9	86.8	87.0	87.0	86.8	86.9
PHY-805RF	86.3	87.1	86.3	86.0	86.2	86.4
PX8262RF (released as Phy-811RF)	87.0	86.8	86.8	86.3	86.2	86.7
MEAN	86.5	86.8	86.7	86.3	86.4	86.6
LSD 0.05	0.9	NS	NS		NS	0.4
LSD 0.10				0.9		
CV%	0.7	1.2	0.7	0.8	1.0	0.6
P	0.005	0.687	0.335	0.061	0.808	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	0.9
P	0.850

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Average of 4 Locations (San Joaquin Valley)

VARIETY	LEAF GRADE					AVG. GRADE
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	3.00	3.25	3.00	3.50		3.19
DP-360	2.75	2.50	2.75	2.75		2.69
DP-357	2.75	2.00	2.00	2.25		2.25
11R158R2P (released as DP-358RF)	3.25	2.75	2.75	2.75	3.50	2.88
11R130R2P	3.00	2.25	2.25	2.25	2.00	2.44
PHY-802RF	3.75	2.75	3.25	3.00	3.75	3.19
PHY-805RF	3.50	2.75	3.00	2.75	3.50	3.00
PX8262RF (released as Phy-811RF)	3.75	2.75	3.75	3.50	4.25	3.44
MEAN	3.22	2.63	2.84	2.84	3.40	2.88
LSD 0.05	NS	NS	0.83	0.71	0.92	0.43
CV%	19.1	29.4	19.8	17.0	17.6	20.3
P	0.142	0.484	0.008	0.007	0.002	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	22.6
P	0.905

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Average of 4 Locations (San Joaquin Valley)

VARIETY	HVI COLOR					AVG. COLOR
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	1.25	1.50	2.00	2.00		1.69
DP-360	1.50	1.25	1.50	1.00		1.31
DP-357	1.75	1.25	1.00	1.00		1.25
11R158R2P (released as DP-358RF)	1.25	1.50	1.75	1.25	2.00	1.44
11R130R2P	1.25	1.25	1.25	1.00	1.50	1.19
PHY-802RF	2.00	1.25	2.00	1.25	2.00	1.63
PHY-805RF	1.25	1.00	1.75	1.00	2.00	1.25
PX8262RF (released as Phy-811RF)	1.50	1.25	2.00	1.50	2.25	1.56
MEAN	1.47	1.28	1.66	1.25	1.95	1.41
LSD 0.05	NS	NS	0.47	0.64	NS	0.35
CV%	34.5	45.6	19.3	34.9	18.7	33.8
P	0.330	0.945	0.001	0.041	0.124	0.044

Variety by Location Difference

LSD 0.05	NS
%CV	34.4
P	0.229

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Average of 4 Locations (San Joaquin Valley)

HVI TRASH

VARIETY	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	AVG. TRASH
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	0.68	0.70	0.68	0.93		0.74
DP-360	0.68	0.48	0.65	0.53		0.58
DP-357	0.68	0.48	0.45	0.45		0.51
11R158R2P (released as DP-358RF)	0.85	0.60	0.63	0.70	0.93	0.69
11R130R2P	0.73	0.40	0.53	0.43	0.48	0.52
PHY-802RF	1.08	0.73	0.80	0.68	0.95	0.82
PHY-805RF	1.08	0.55	0.73	0.63	1.00	0.74
PX8262RF (released as Phy-811RF)	1.10	0.60	0.93	0.93	1.20	0.89
MEAN	0.86	0.57	0.68	0.66	0.91	0.69
LSD 0.05	0.29	NS	0.26	0.26	0.33	0.15
CV%	23.2	42.8	26.5	26.6	23.7	28.8
P	0.007	0.541	0.031	0.002	0.007	0.000

Variety by Location Difference

LSD 0.05	NS
%CV	32.2
P	0.537

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5 locations / 4 replications average (CORCORAN)

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Average of 4 Locations (San Joaquin Valley)

VARIETY	RD					AVG. RD
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	72.5	72.4	71.1	70.9		71.7
DP-360	71.5	72.3	71.3	72.7		71.9
DP-357	70.5	72.7	72.2	72.0		71.8
11R158R2P (released as DP-358RF)	72.6	71.7	71.8	72.4	72.2	72.1
11R130R2P	72.6	73.4	73.1	73.8	73.1	73.2
PHY-802RF	70.5	72.1	71.0	72.6	71.3	71.6
PHY-805RF	71.8	73.0	71.4	73.0	71.6	72.3
PX8262RF (released as Phy-811RF)	71.3	72.1	70.5	71.6	71.5	71.4
MEAN	71.7	72.5	71.6	72.4	71.9	72.0
LSD 0.05		NS	1.2	1.0	1.1	0.8
LSD 0.10	1.4					
CV%	1.6	2.0	1.1	1.0	1.0	1.5
P	0.087	0.776	0.006	0.000	0.023	0.005

Variety by Location Difference

LSD 0.05	NS
%CV	1.6
P	0.231

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Average of 4 Locations (San Joaquin Valley)

VARIETY	+B					AVG. +B
	38" ROWS	30" ROWS	40" ROWS	30" ROWS	40" ROWS	
	BUTTONWILLOW	RIVERDALE	WSREC	FIREBAUGH	CORCORAN	
PHY-800	11.1	10.9	11.1	11.2		11.0
DP-360	11.1	10.9	11.2	11.2		11.1
DP-357	11.7	11.1	11.3	11.7		11.4
11R158R2P (released as DP-358RF)	10.9	11.0	11.0	11.1	10.4	11.0
11R130R2P	11.1	11.0	10.8	11.1	10.4	11.0
PHY-802RF	11.0	11.1	10.9	10.8	10.3	10.9
PHY-805RF	11.1	11.0	11.1	11.0	10.6	11.0
PX8262RF (released as Phy-811RF)	11.1	11.2	11.0	11.0	10.2	11.1
MEAN	11.1	11.0	11.1	11.1	10.4	11.1
LSD 0.05	0.3	NS		0.3	0.2	0.2
LSD 0.10			0.3			
CV%	1.8	2.1	2.0	1.6	1.5	2.1
P	0.001	0.424	0.057	0.000	0.022	0.000

Variety by Location Difference

LSD 0.10	0.3
%CV	1.8
P	0.010

2011 UC/SJVCB PIMA VARIETY TRIAL - 38"

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LOCATION: BUTTONWILLOW (BONE)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.73	1.40	43.2	86.2	3.00	1.25	0.68	72.5	11.1
DP-360	3.60	1.37	41.6	85.6	2.75	1.50	0.68	71.5	11.1
DP-357	3.63	1.36	37.7	85.7	2.75	1.75	0.68	70.5	11.7
11R158R2P	3.53	1.41	42.0	86.8	3.25	1.25	0.85	72.6	10.9
11R130R2P	3.88	1.40	40.3	87.3	3.00	1.25	0.73	72.6	11.1
PHY-802RF	3.53	1.44	40.4	86.9	3.75	2.00	1.08	70.5	11.0
PHY-805RF	3.78	1.41	41.4	86.3	3.50	1.25	1.08	71.8	11.1
PX8262RF	3.58	1.41	41.8	87.0	3.75	1.50	1.10	71.3	11.1
MEAN	3.66	1.40	41.1	86.5	3.22	1.47	0.86	71.7	11.1
LSD 0.05	0.18	0.03	2.5	0.9	NS	NS	0.29		0.3
LSD 0.10								1.4	
%CV	3.4	1.4	4.1	0.7	19.1	34.5	23.2	1.6	1.8
P	0.005	0.000	0.009	0.005	0.142	0.330	0.007	0.087	0.001

2012 (UC/SJVCB PIMA VARIETY TRIAL - 30")

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LOCATION: CORCORAN (HANSEN RANCHES)

VARIETY	MIKE	LENGTH	STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
11R158R2P	4.05	1.37	43.7	86.5	3.50	2.00	0.93	72.2	10.4
11R130R2P	4.33	1.35	43.4	86.1	2.00	1.50	0.48	73.1	10.4
PHY-802RF	4.03	1.39	46.5	86.8	3.75	2.00	0.95	71.3	10.3
PHY-805RF	4.20	1.37	46.4	86.2	3.50	2.00	1.00	71.6	10.6
PX8262RF	4.08	1.37	44.4	86.2	4.25	2.25	1.20	71.5	10.2
MEAN	4.14	1.37	44.9	86.4	3.40	1.95	0.91	71.9	10.4
LSD 0.05	0.17	0.03	2.0	NS	0.92	NS	0.33	1.1	0.2
%CV	2.6	1.3	2.9	1.0	17.6	18.7	23.7	1.0	1.5
P	0.011	0.047	0.014	0.808	0.002	0.124	0.007	0.023	0.022

* conventional varieties not included in analysis (at this location only) due to glyphosate overspray issues

2012 (UC/SJVCB PIMA VARIETY TRIAL - 30")

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LOCATION: FRESNO CO. (FIREBAUGH)

VARIETY	MIKE	LENGTH	STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.50	1.40	42.2	86.3	3.50	2.00	0.93	70.9	11.2
DP-360	3.68	1.33	41.8	85.3	2.75	1.00	0.53	72.7	11.2
DP-357	3.73	1.34	41.6	86.1	2.25	1.00	0.45	72.0	11.7
11R158R2P	3.45	1.40	43.2	87.0	2.75	1.25	0.70	72.4	11.1
11R130R2P	3.73	1.37	43.1	86.6	2.25	1.00	0.43	73.8	11.1
PHY-802RF	3.53	1.42	44.8	87.0	3.00	1.25	0.68	72.6	10.8
PHY-805RF	3.70	1.40	44.6	86.0	2.75	1.00	0.63	73.0	11.0
PX8262RF	3.58	1.39	44.1	86.3	3.50	1.50	0.93	71.6	11.0
MEAN	3.61	1.38	43.2	86.3	2.84	1.25	0.66	72.4	11.1
LSD 0.05	0.14	0.02	NS		0.71	0.64	0.26	1.0	0.3
LSD 0.10				0.9					
%CV	2.7	1.1	4.0	0.8	17.0	34.9	26.6	1.0	1.6
P	0.002	0.000	0.102	0.061	0.007	0.041	0.002	0.000	0.000

2012 (UC/SJVCB PIMA VARIETY TRIAL - 30")

Questions?	Cooperative Project by:
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or e-mail: rbhutmacher@ucdavis.edu	Cooperators: Hutmacher, Wright, Munk, Marsh, Keeley, Delgado, Banuelos, Wroble, Weir

LOCATION: FRESNO CO. (RIVERDALE)

VARIETY	MIC	LENGTH	STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.88	1.39	43.8	86.4	3.25	1.50	0.70	72.4	10.9
DP-360	3.93	1.38	44.8	86.4	2.50	1.25	0.48	72.3	10.9
DP-357	4.18	1.36	43.8	86.4	2.00	1.25	0.48	72.7	11.1
11R158R2P	3.85	1.41	45.2	87.6	2.75	1.50	0.60	71.7	11.0
11R130R2P	4.15	1.38	44.5	87.1	2.25	1.25	0.40	73.4	11.0
PHY-802RF	3.80	1.41	45.9	86.8	2.75	1.25	0.73	72.1	11.1
PHY-805RF	4.08	1.42	48.0	87.1	2.75	1.00	0.55	73.0	11.0
PX8262RF	4.10	1.39	44.9	86.8	2.75	1.25	0.60	72.1	11.2
MEAN	4.00	1.39	45.1	86.8	2.63	1.28	0.57	72.5	11.0
LSD 0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS
%CV	6.4	2.6	6.6	1.2	29.4	45.6	42.8	2.0	2.1
P	0.278	0.396	0.552	0.687	0.484	0.945	0.541	0.776	0.424

SWEN 4 2012 (UC/SJVCB PIMA VARIETY TRIAL - 40")

Questions?	Cooperative Project by:
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LOCATION: WSREC (FIELD 12)

VARIETY	MIKE	LENGTH	STREN	UI	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI COLOR	HVI TRASH	RD	+B
PHY-800	3.83	1.41	41.9	86.9	3.00	2.00	0.68	71.1	11.1
DP-360	3.83	1.37	42.9	86.1	2.75	1.50	0.65	71.3	11.2
DP-357	4.10	1.38	40.6	86.6	2.00	1.00	0.45	72.2	11.3
11R158R2P	3.68	1.40	42.6	86.6	2.75	1.75	0.63	71.8	11.0
11R130R2P	4.18	1.40	41.9	87.0	2.25	1.25	0.53	73.1	10.8
PHY-802RF	3.65	1.44	42.7	87.0	3.25	2.00	0.80	71.0	10.9
PHY-805RF	3.83	1.41	44.6	86.3	3.00	1.75	0.73	71.4	11.1
PX8262RF	3.68	1.40	42.0	86.8	3.75	2.00	0.93	70.5	11.0
MEAN	3.85	1.40	42.4	86.7	2.84	1.66	0.68	71.6	11.1
LSD 0.05	0.14	0.03	1.8	NS	0.83	0.47	0.26	1.2	
LSD 0.10									0.3
%CV	2.4	1.2	2.9	0.7	19.8	19.3	26.5	1.1	2.0
P	0.000	0.001	0.013	0.335	0.008	0.001	0.031	0.006	0.057