

# 2013 PIMA UC VARIETY TRIALS - HVI DATA - VISALIA CLASSING OFFICE

4 locations / 4 replications 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

Average of 4 Locations (San Joaquin Valley)

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## MICRONAIRE

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. MICRONAIRE
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	4.18	4.00	4.03	4.01	4.05
DP-358RF	3.88	3.78	3.78	3.69	3.78
DP-12R254R2P	4.13	4.13	3.83	4.00	4.02
DP-13R348R2P	4.08	4.00	3.90	3.78	3.94
PHY-802RF	3.88	3.88	3.70	3.65	3.78
PHY-805RF	4.03	4.03	4.00	3.88	3.98
PHY-811RF	3.98	3.70	4.00	3.68	3.84
ALLTEX P-203	4.05	4.10	3.95	3.85	3.99
MEAN	4.03	3.95	3.90	3.82	3.92
LSD 0.05	0.13	0.19	0.15	0.25	0.09
CV%	2.1	3.3	2.6	4.4	3.1
P	0.000	0.001	0.001	0.033	0.000

### Variety by Location Difference

LSD 0.05	0.17
%CV	3.0
P	0.014

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## LENGTH

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. LENGTH
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	1.41	1.38	1.35	1.39	1.38
DP-358RF	1.46	1.44	1.43	1.45	1.45
DP-12R254R2P	1.41	1.39	1.37	1.39	1.39
DP-13R348R2P	1.45	1.42	1.38	1.43	1.42
PHY-802RF	1.49	1.48	1.45	1.49	1.47
PHY-805RF	1.44	1.44	1.42	1.43	1.43
PHY-811RF	1.46	1.43	1.41	1.44	1.43
ALLTEX P-203	1.40	1.38	1.36	1.38	1.38
MEAN	1.44	1.42	1.40	1.43	1.42
LSD 0.05	0.02	0.04	0.03	0.02	0.01
CV%	1.1	1.8	1.3	1.1	1.3
P	0.000	0.000	0.000	0.000	0.000

### Variety by Location Difference

LSD 0.05	NS
%CV	1.5
P	0.848

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## STRENGTH

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. STRENGTH
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	40.8	37.4	37.9	37.7	38.4
DP-358RF	44.3	41.4	40.9	42.0	42.2
DP-12R254R2P	43.5	41.9	41.8	41.8	42.2
DP-13R348R2P	45.6	43.2	42.1	42.1	43.2
PHY-802RF	44.9	41.0	41.2	42.8	42.5
PHY-805RF	44.9	41.4	42.0	43.4	42.9
PHY-811RF	43.3	41.2	41.6	41.5	41.9
ALLTEX P-203	41.6	39.2	39.5	38.7	39.8
MEAN	43.6	40.8	40.9	41.3	41.6
LSD 0.05	1.7	1.7	1.2	2.4	0.9
CV%	2.6	2.7	2.0	3.9	3.0
P	0.000	0.000	0.000	0.001	0.000

### Variety by Location Difference

LSD 0.05	NS
%CV	2.8
P	0.480

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## UNIFORMITY

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. UNIFORMITY
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	87.0	86.2	85.9	86.7	86.4
DP-358RF	87.1	86.8	86.5	86.6	86.8
DP-12R254R2P	86.8	85.9	86.2	85.9	86.2
DP-13R348R2P	86.9	87.2	86.7	87.2	87.0
PHY-802RF	87.4	87.0	86.6	87.4	87.1
PHY-805RF	87.0	86.8	87.0	86.9	86.9
PHY-811RF	86.8	87.3	87.3	87.0	87.1
ALLTEX P-203	86.4	86.5	85.7	86.6	86.3
MEAN	86.9	86.7	86.5	86.8	86.7
LSD 0.05	NS	0.7	0.6	0.7	0.4
CV%	0.7	0.5	0.4	0.5	0.6
P	0.542	0.006	0.000	0.007	0.000

### Variety by Location Difference

LSD 0.10	0.6
%CV	0.6
P	0.086

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## LEAF GRADE

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. GRADE
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	1.75	1.75	1.50	2.02	1.75
DP-358RF	2.00	2.25	1.75	2.32	2.06
DP-12R254R2P	2.00	2.00	2.00	2.25	2.06
DP-13R348R2P	2.25	2.50	2.00	2.00	2.19
PHY-802RF	2.00	2.50	2.50	2.25	2.31
PHY-805RF	1.75	2.25	2.25	2.25	2.13
PHY-811RF	2.50	2.75	2.00	2.50	2.44
ALLTEX P-203	2.00	2.00	2.25	2.00	2.06
MEAN	2.03	2.25	2.03	2.20	2.13
LSD 0.05	NS	NS	NS	NS	0.32
CV%	23.2	23.3	26.7	20.4	20.4
P	0.395	0.200	0.288	0.720	0.012

### Variety by Location Difference

LSD 0.05	NS
%CV	23.6
P	0.822

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### HVI COLOR

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. COLOR
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	1.25	1.25	1.00	1.65	1.31
DP-358RF	1.00	1.00	1.00	1.00	1.00
DP-12R254R2P	1.00	1.00	1.00	1.00	1.00
DP-13R348R2P	1.50	1.25	1.00	1.00	1.19
PHY-802RF	1.00	1.25	1.00	1.50	1.19
PHY-805RF	1.00	1.00	1.00	1.00	1.00
PHY-811RF	1.25	1.25	1.00	1.00	1.13
ALLTEX P-203	1.75	1.25	1.00	1.75	1.44
MEAN	1.22	1.16	1.00	1.24	1.16
LSD 0.05		NS	NS	0.50	0.24
LSD 0.10	0.47				
CV%	31.8	36.1	--	27.2	28.7
P	0.088	0.901	--	0.008	0.009

### Variety by Location Difference

LSD 0.10	0.37
%CV	27.0
P	0.068

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### HVI TRASH

VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. TRASH
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	0.30	0.38	0.30	0.44	0.36
DP-358RF	0.33	0.50	0.30	0.50	0.41
DP-12R254R2P	0.38	0.40	0.35	0.45	0.39
DP-13R348R2P	0.53	0.58	0.43	0.38	0.48
PHY-802RF	0.45	0.60	0.50	0.43	0.49
PHY-805RF	0.33	0.50	0.50	0.48	0.45
PHY-811RF	0.55	0.70	0.43	0.45	0.53
ALLTEX P-203	0.35	0.40	0.43	0.33	0.38
MEAN	0.40	0.51	0.41	0.43	0.44
LSD 0.05		0.16	NS	NS	0.11
LSD 0.10	0.16				
CV%	31.9	21.1	37.5	28.5	33.8
P	0.068	0.003	0.393	0.580	0.030

### Variety by Location Difference

LSD 0.05	NS
%CV	30.2
P	0.226

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RD					
VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. RD
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	71.7	73.4	72.8	71.6	72.4
DP-358RF	72.7	74.4	73.9	73.0	73.5
DP-12R254R2P	73.0	74.9	74.1	73.0	73.7
DP-13R348R2P	71.6	73.6	73.5	72.2	72.7
PHY-802RF	72.9	73.6	73.5	72.6	73.1
PHY-805RF	72.9	73.5	73.1	72.7	73.0
PHY-811RF	72.0	73.2	73.2	72.7	72.8
ALLTEX P-203	70.7	72.8	71.4	71.0	71.5
MEAN	72.2	73.7	73.2	72.4	72.8
LSD 0.05	1.0		1.1	0.7	0.6
LSD 0.10		1.1			
CV%	0.9	1.2	1.1	0.6	1.2
P	0.001	0.086	0.002	0.000	0.000

Variety by Location Difference	
LSD 0.05	NS
%CV	0.9
P	0.575



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+B					
VARIETY	40" ROWS	38" ROWS	30" ROWS	30" ROWS	AVG. +B
	WSREC	KERN CO.	FRESNO CO.	MERCED CO.	
DP-340	11.5	10.9	11.3	11.5	11.3
DP-358RF	11.1	10.5	11.0	11.0	10.9
DP-12R254R2P	11.2	10.5	10.9	11.2	10.9
DP-13R348R2P	11.3	10.7	11.0	11.3	11.1
PHY-802RF	11.2	10.4	10.8	10.8	10.8
PHY-805RF	11.1	10.6	11.1	11.1	11.0
PHY-811RF	11.1	10.6	11.1	10.9	10.9
ALLTEX P-203	11.8	11.2	11.8	11.5	11.5
MEAN	11.3	10.7	11.1	11.2	11.1
LSD 0.05	0.3	0.2	0.3	0.2	0.1
CV%	1.6	1.5	1.6	1.3	1.7
P	0.000	0.000	0.000	0.000	0.000

### Variety by Location Difference

LSD 0.10	0.2
%CV	1.4
P	0.087