2021 University of California - PIMA VARIETY TRIAL - Length *averages across multiple sites*

February 20, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?
contact: Bob Hutmacher (Univ. CA)
Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

Cooperative Project by:
University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers & Ginners Association, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

Length *values - 2021 trials*

VARIETY	SEED COMPANY	*Buttonwillow area* KERN COUNTY Length (in)	*Corcoran area* KINGS COUNTY Length (in)	*Huron area* FRESNO COUNTY Length (in)	*Los Banos* MERCED COUNTY Length (in)	*West Side REC* FRESNO COUNTY Length (in)	*AVERAGE* across all sites
PHY 881 RF	Phytogen	1.46	1.49	1.47	1.48	1.51	1.48
PHY 807 RF	Phytogen	1.43	1.47	1.46	1.42	1.43	1.44
PHY 1180-A101 RF	Phytogen	1.44	1.48	1.50	1.47	1.45	1.47
PHY 1180-A103 RF	Phytogen	1.45	1.49	1.49	1.48	1.48	1.48
PHY 1180-A105 RF	Phytogen	1.47	1.49	1.51	1.51	1.47	1.49
DP 347 RF	Bayer / DeltaPine	1.44	1.45	1.45	1.43	1.45	1.44
DP 359 RF	Bayer / DeltaPine	1.43	1.48	1.44	1.41	1.42	1.44
DP 20R022 R2P	Bayer / DeltaPine	1.43	1.44	1.44	1.42	1.46	1.44
HA 1432 *	Gowan / Hazera					1.34	
MEAN		1.44	1.47	1.47	1.45	1.45	1.46
LSD 0.05 [a]		NS	0.03	0.03	0.04	0.05	
LSD 0.10 [a]							
%CV [b]		1.5	1.4	1.6	2.0	2.3	
P [c]		0.142	0.027	0.001	0.000	0.000	

** this variety was only grown at the UC West Side REC location - growers at other sites only wanted to include transgenic herbicide resistant entries in the trials*

*** NOTE: GINNING** was done using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).

Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of the mini-gin.

All samples were handled in an identical manner in terms of mini-gin operations, so gin turnout and lint percent numbers represent relative variety differences.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance)

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIAL - Strength *averages across multiple sites* *February 20, 2022 update*

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?
contact: Bob Hutmacher (Univ. CA)
Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

Cooperative Project by:
University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers & Ginners Association, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

Strength *values - 2021 trials*

VARIETY	SEED COMPANY	*Buttonwillow area* KERN COUNTY Strength (g/Tex)	*Corcoran area* KINGS COUNTY Strength (g/Tex)	*Huron area* FRESNO COUNTY Strength (g/Tex)	*Los Banos* MERCED COUNTY Strength (g/Tex)	*West Side REC* FRESNO COUNTY Strength (g/Tex)	*AVERAGE* across all sites
PHY 881 RF	Phytogen	46.0	46.7	47.6	47.2	47.6	47.0
PHY 807 RF	Phytogen	48.0	49.0	48.6	48.7	49.0	48.7
PHY 1180-A101 RF	Phytogen	46.4	45.5	49.2	49.0	45.3	47.1
PHY 1180-A103 RF	Phytogen	48.1	44.6	47.9	48.5	46.3	47.1
PHY 1180-A105 RF	Phytogen	46.8	44.8	48.1	47.3	47.3	46.9
DP 347 RF	Bayer / DeltaPine	45.3	43.6	46.8	46.9	46.5	45.8
DP 359 RF	Bayer / DeltaPine	45.2	45.7	47.2	47.8	45.5	46.3
DP 20R022 R2P	Bayer / DeltaPine	48.2	45.8	47.9	49.9	48.7	48.1
HA 1432 *	Gowan / Hazera					41.8	
MEAN		46.8	45.7	47.9	48.2	46.4	47.0
LSD 0.05 [a]		1.9	2.7	NS	NS	2.7	
LSD 0.10 [a]							
%CV [b]		2.7	4.1	2.9	3.6	4.0	
P [c]		0.009	0.023	0.324	0.244	0.001	

** this variety was only grown at the UC West Side REC location - growers at other sites only wanted to include transgenic herbicide resistant entries in the trials*

*** NOTE: GINNING** was done using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).

Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of the mini-gin.

All samples were handled in an identical manner in terms of mini-gin operations, so gin turnout and lint percent numbers represent relative variety differences.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance)

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIAL - Micronaire *averages across multiple sites* *February 20, 2022 update*

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

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contact: Bob Hutmacher (Univ. CA)
Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

Cooperative Project by:
University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers & Ginners Association, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

Micronaire *values - 2021 trials*

VARIETY	SEED COMPANY	*Buttonwillow area* KERN COUNTY Micronaire	*Corcoran area* KINGS COUNTY Micronaire	*Huron area* FRESNO COUNTY Micronaire	*Los Banos* MERCED COUNTY Micronaire	*West Side REC* FRESNO COUNTY Micronaire	*AVERAGE* across all sites
PHY 881 RF	Phytogen	4.60	4.19	4.50	4.45	4.10	4.37
PHY 807 RF	Phytogen	4.37	4.45	4.45	4.58	4.28	4.43
PHY 1180-A101 RF	Phytogen	4.65	4.15	4.30	4.33	3.80	4.25
PHY 1180-A103 RF	Phytogen	4.45	4.18	4.25	4.33	4.03	4.25
PHY 1180-A105 RF	Phytogen	4.30	4.18	4.38	4.55	4.10	4.30
DP 347 RF	Bayer / DeltaPine	4.32	4.33	4.50	4.48	4.05	4.34
DP 359 RF	Bayer / DeltaPine	4.40	4.45	4.45	4.48	4.15	4.39
DP 20R022 R2P	Bayer / DeltaPine	4.48	4.23	4.40	4.23	4.38	4.34
HA 1432 *	Gowan / Hazera					3.75	
MEAN		4.45	4.27	4.40	4.43	4.07	4.32
LSD 0.05 [a]		0.2	NS	NS	NS	0.3	
LSD 0.10 [a]							
%CV [b]		3.3	4.1	3.7	5.5	4.7	
P [c]		0.030	0.102	0.327	0.455	0.002	

** this variety was only grown at the UC West Side REC location - growers at other sites only wanted to include transgenic herbicide resistant entries in the trials*

*** NOTE: GINNING** was done using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).

Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of the mini-gin.

All samples were handled in an identical manner in terms of mini-gin operations, so gin turnout and lint percent numbers represent relative variety differences.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance)

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIAL - Uniformity *averages across multiple sites*

February 20, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?
contact: Bob Hutmacher (Univ. CA)
Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

Cooperative Project by:
University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers & Ginners Association, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

Uniformity *values - 2021 trials*

VARIETY	SEED COMPANY	*Buttonwillow area* KERN COUNTY Uniformity Index (UI)	*Corcoran area* KINGS COUNTY Uniformity Index (UI)	*Huron area* FRESNO COUNTY Uniformity Index (UI)	*Los Banos* MERCED COUNTY Uniformity Index (UI)	*West Side REC* FRESNO COUNTY Uniformity Index (UI)	*AVERAGE* across all sites
PHY 881 RF	Phytogen	88.0	87.4	88.4	87.2	88.2	87.8
PHY 807 RF	Phytogen	88.0	88.0	87.9	86.8	87.6	87.7
PHY 1180-A101 RF	Phytogen	87.3	86.4	88.2	87.6	87.1	87.3
PHY 1180-A103 RF	Phytogen	87.7	86.5	87.5	88.0	87.3	87.4
PHY 1180-A105 RF	Phytogen	87.9	86.9	87.7	87.0	87.7	87.4
DP 347 RF	Bayer / DeltaPine	87.9	87.9	87.6	87.4	87.6	87.7
DP 359 RF	Bayer / DeltaPine	87.2	87.4	87.8	88.3	86.3	87.4
DP 20R022 R2P	Bayer / DeltaPine	88.6	87.2	88.0	88.0	88.7	88.1
HA 1432 *	Gowan / Hazera					85.7	
MEAN		87.8	87.2	87.9	87.5	87.4	87.6
LSD 0.05 [a]		NS	1.1	NS	NS	1.2	
LSD 0.10 [a]							
%CV [b]		0.8	0.8	0.9	1.1	1.0	
P [c]		0.238	0.034	0.780	0.348	0.002	

** this variety was only grown at the UC West Side REC location - growers at other sites only wanted to include transgenic herbicide resistant entries in the trials*

*** NOTE: GINNING** was done using a mini-gin. This simple ginning method differs from UCCE methods in years when the SJV Cotton Board trials were run (mini-gin does not have commercial gin style cleaners and sample sizes are smaller).

Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of the mini-gin.

All samples were handled in an identical manner in terms of mini-gin operations, so gin turnout and lint percent numbers represent relative variety differences.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance)

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIALS - Buttonwillow area - Kern County - Bone Farms

February 21, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?
contact: Bob Hutmacher (Univ. CA)
Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

Cooperative Project by:

University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; UC West Side REC staff

San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **Buttonwillow area - Kern County - Bone Farms - 2021**

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF	Phytogen	4.60	1.46	46.0	88.0	7.00	5.50	2.44	60.9	10.1
PHY 807 RF	Phytogen	4.37	1.43	48.0	88.0	7.00	5.67	2.96	60.3	10.6
PHY 1180-A101 RF	Phytogen	4.65	1.44	46.4	87.3	7.00	5.75	3.28	60.2	10.3
PHY 1180-A103 RF	Phytogen	4.45	1.45	48.1	87.7	7.00	5.75	2.93	61.7	10.1
PHY 1180-A105 RF	Phytogen	4.30	1.47	46.8	87.9	7.00	5.50	2.68	61.8	10.2
DP 347 RF	Bayer / Deltapine	4.32	1.44	45.3	87.9	7.00	5.87	2.95	60.5	10.2
DP 359 RF	Bayer / Deltapine	4.40	1.43	45.2	87.2	7.00	5.75	3.20	60.6	10.4
DP 20R022 R2P	Bayer / Deltapine	4.48	1.43	48.2	88.6	7.00	5.75	3.33	60.8	9.9
MEAN		4.45	1.44	46.8	87.8	7.00	5.69	2.97	60.9	10.2
LSD 0.05 [a]		0.22	NS	1.9	NS	NS	NS		NS	0.3
LSD 0.10 [a]								0.52		
%CV [b]		3.3	1.5	2.7	0.8		8.00	14.30	1.8	2.0
P [c]		0.030	0.142	0.009	0.238		0.929	0.094	0.352	0.006

*** NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES** were separated from seed using a mini-gin. This ginning method differs from UCCE methods used prior to 2017 (mini-gin does not have commercial gin style cleaners). Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of a table top style of mini-gin. All samples were handled in an identical manner in terms of mini-gin operations.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIALS - Corcoran area - Kings County - Hansen Ranch

February 21, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

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Cell: (559) 260-8957
email: rbhutmacher@ucdavis.edu

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University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.

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San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **Corcoran area - Kings County - Hansen Ranch - 2021**

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF	Phytogen	4.19	1.49	46.7	87.4	6.75	4.30	1.86	64.7	10.7
PHY 807 RF	Phytogen	4.45	1.47	49.0	88.0	6.75	4.75	1.88	63.5	10.8
PHY 1180-A101 RF	Phytogen	4.15	1.48	45.5	86.4	6.25	4.25	1.40	64.7	11.0
PHY 1180-A103 RF	Phytogen	4.18	1.49	44.6	86.5	5.75	4.00	1.25	64.6	10.9
PHY 1180-A105 RF	Phytogen	4.18	1.49	44.8	86.9	6.50	4.25	1.63	64.5	11.1
DP 347 RF	Bayer / Deltapine	4.33	1.45	43.6	87.9	6.50	4.50	1.60	64.0	10.9
DP 359 RF	Bayer / Deltapine	4.45	1.48	45.7	87.4	7.00	4.50	1.73	64.3	10.9
DP 20R022 R2P	Bayer / Deltapine	4.23	1.44	45.8	87.2	6.50	4.50	1.53	64.4	10.4
MEAN		4.27	1.47	45.7	87.2	6.50	4.38	1.61	64.3	10.8
LSD 0.05 [a]		NS	0.03	2.7	1.1	NS	NS	NS	NS	0.3
LSD 0.10 [a]										
%CV [b]		4.1	1.4	4.1	0.8	10.30	11.70	23.60	1.9	2.0
P [c]		0.102	0.027	0.023	0.034	0.314	0.598	0.299	0.849	0.012

*** NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES** were separated from seed using a mini-gin. This ginning method differs from UCCE methods used prior to 2017 (mini-gin does not have commercial gin style cleaners). Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of a table top style of mini-gin. All samples were handled in an identical manner in terms of mini-gin operations.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIALS - Huron area - Fresno County - Sheely / AZCAL

February 21, 2022 update

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San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **Huron area - Fresno County - Sheely / AZCAL - 2021**

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF	Phytogen	4.50	1.47	47.6	88.4	6.25	3.00	1.73	67.9	10.9
PHY 807 RF	Phytogen	4.45	1.46	48.6	87.9	7.00	3.75	2.00	66.0	11.0
PHY 1180-A101 RF	Phytogen	4.30	1.50	49.2	88.2	7.00	3.50	2.10	66.5	11.2
PHY 1180-A103 RF	Phytogen	4.25	1.49	47.9	87.5	7.00	4.25	2.65	64.3	11.2
PHY 1180-A105 RF	Phytogen	4.38	1.51	48.1	87.7	7.00	4.25	2.40	65.0	10.9
DP 347 RF	Bayer / Deltapine	4.50	1.45	46.8	87.6	7.00	3.75	2.15	65.7	11.2
DP 359 RF	Bayer / Deltapine	4.45	1.44	47.2	87.8	6.75	3.75	1.78	65.9	11.1
DP 20R022 R2P	Bayer / Deltapine	4.40	1.44	47.9	88.0	7.00	3.99	2.52	65.2	10.7
MEAN		4.40	1.47	47.9	87.9	6.88	3.78	2.17	65.8	11.0
LSD 0.05 [a]		NS	0.03	NS	NS	NS	NS	0.60		0.3
LSD 0.10 [a]									1.8	
%CV [b]		3.7	1.6	2.9	0.9	5.90	20.20	18.80	2.3	1.8
P [c]		0.327	0.001	0.324	0.780	0.152	0.372	0.042	0.100	0.029

* **NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES** were separated from seed using a mini-gin. This ginning method differs from UCCE methods used prior to 2017 (mini-gin does not have commercial gin style cleaners). Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of a table top style of mini-gin. All samples were handled in an identical manner in terms of mini-gin operations.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIALS - Five Points area - Fresno County - West Side REC

February 21, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?

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Cell: (559) 260-8957

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Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; UC West Side REC staff

San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **Five Points area - Fresno County - University of CA West Side REC - 2021**

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF	Phytogen	4.10	1.51	47.6	88.2	7.00	5.00	2.80	61.1	12.0
PHY 807 RF	Phytogen	4.28	1.43	49.0	87.6	7.00	4.50	2.60	62.3	12.0
PHY 1180-A101 RF	Phytogen	3.80	1.45	45.3	87.1	7.00	4.50	2.33	61.7	12.7
PHY 1180-A103 RF	Phytogen	4.03	1.48	46.3	87.3	7.00	4.25	2.65	62.3	12.2
PHY 1180-A105 RF	Phytogen	4.10	1.47	47.3	87.7	7.00	4.50	2.63	62.2	12.1
DP 347 RF	Bayer / Deltapine	4.05	1.45	46.5	87.6	7.00	5.00	2.93	60.6	12.3
DP 359 RF	Bayer / Deltapine	4.15	1.42	45.5	86.3	7.00	4.75	2.45	60.9	12.0
DP 20R022 R2P	Bayer / Deltapine	4.38	1.46	48.7	88.7	7.00	5.00	2.85	61.5	11.7
HA 1432	Gowan / Hazera	3.75	1.34	41.8	85.7	7.00	4.00	2.10	64.7	11.2
MEAN		4.07	1.45	46.4	87.4	7.00	4.61	2.59	61.9	12.0
LSD 0.05 [a]		0.28	0.05	2.7	1.2	NS		NS	1.7	0.5
LSD 0.10 [a]							0.58			
%CV [b]		4.7	2.3	4.0	1.0		10.40	15.80	1.8	2.6
P [c]		0.002	0.000	0.001	0.002		0.063	0.157	0.002	0.000

* **NOTE: SAMPLES SUBMITTED FOR HVI ANALYSES** were separated from seed using a mini-gin. This ginning method differs from UCCE methods used prior to 2017 (mini-gin does not have commercial gin style cleaners). Corrections were calculated for moisture loss/gain between field harvest weight timing and ginning timing, and basic gin loss estimates are typically lower with use of a table top style of mini-gin. All samples were handled in an identical manner in terms of mini-gin operations.

[a] LSD 0.05= least significant difference at 5% level; LSD 0.10=least significant difference at 10% level (differences in mean values shown that differ by more than LSD value shown are significantly different)

[b] C.V. = coefficient of variation across replications

NS = no significant statistical difference between entries in this measured value (at the LSD 0.05 level of significance

[c] P = probability (if value shown is 0.05 or less, there is greater than a 95% probability of significant differences between mean values shown)

2021 University of California - PIMA VARIETY TRIALS - Los Banos area - Merced County - Bowles Farm

February 21, 2022 update

fiber quality (hvi data summary) - from evaluations done at USDA Visalia Classing Office

Questions?

contact: Bob Hutmacher (Univ. CA)

Cell: (559) 260-8957

email: rbhutmacher@ucdavis.edu

Cooperative Project by:

University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC

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Cooperators: multiple growers, Dan Munk, Brian Marsh, Jose Dias, Bill Weir, Mark Keeley, Jorge Angeles, Tarilee Frigulti-Schramm, Univ. CA ANR - Cooperative Extension Tulare, Kings, Fresno, Kern, Merced Counties; UC West Side REC staff

San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies

LOCATION: **Los Banos area - Merced County - Bowles Farms - 2021**

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF	Phytogen	4.45	1.48	47.2	87.2	6.25	4.25	2.28	64.5	11.2
PHY 807 RF	Phytogen	4.58	1.42	48.7	86.8	7.00	4.75	3.03	62.8	11.3
PHY 1180-A101 RF	Phytogen	4.33	1.47	49.0	87.6	7.00	4.50	2.53	64.0	11.1
PHY 1180-A103 RF	Phytogen	4.33	1.48	48.5	88.0	7.00	5.00	2.98	61.9	11.4
PHY 1180-A105 RF	Phytogen	4.55	1.51	47.3	87.0	7.00	4.25	2.30	63.8	11.2
DP 347 RF	Bayer / Deltapine	4.48	1.43	46.9	87.4	6.50	4.00	2.28	64.4	11.5
DP 359 RF	Bayer / Deltapine	4.48	1.41	47.8	88.3	7.00	5.00	2.65	63.1	11.1
DP 20R022 R2P	Bayer / Deltapine	4.23	1.42	49.9	88.0	7.00	4.75	2.75	63.9	10.8
MEAN		4.43	1.45	48.2	87.5	6.84	4.56	2.60	63.6	11.2
LSD 0.05 [a]		NS	0.04	NS	NS			NS		
LSD 0.10 [a]						0.49	0.63		1.4	0.4
%CV [b]		5.5	2.0	3.6	1.1	5.90	11.30	18.80	1.8	2.6
P [c]		0.455	0.000	0.244	0.348	0.080	0.094	0.200	0.054	0.058

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