

2020 University of California - PIMA VARIETY TRIAL - <u>Length</u> averages across multiple sites						February 12, 2021 update	
fiber quality (hvi data summary)							
Questions?		Cooperative Project by:					
contact: Bob Hutmacher (Univ. CA)		University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC					
Cell: (559) 260-8957		Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.					
email: rbhutmacher@ucdavis.edu		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 - 2020 trials							
		<i>Buttonwillow area</i>	<i>Corcoran area</i>	<i>Huron area</i>	<i>Los Banos</i>	<i>West Side REC</i>	<i>AVERAGE</i>
		KERN COUNTY	KINGS COUNTY	FRESNO COUNTY	MERCED COUNTY	FRESNO COUNTY	across all sites
VARIETY	SEED COMPANY	Length (in)	Length (in)	Length (in)	Length (in)	Length (in)	
PHY 881 RF	Phytogen	1.49	1.46	1.46	1.53	1.46	1.48
PHY 854207 RF	Phytogen	1.46	1.42	1.44	1.48	1.43	1.45
PHY 852901 RF	Phytogen	1.52	1.50	1.48	1.52	1.51	1.51
DP 341 RF	Bayer / DeltaPine	1.49	1.42	1.47	1.49	1.42	1.46
DP 359 RF	Bayer / DeltaPine	1.48	1.41	1.44	1.48	1.42	1.45
DP 347 RF	Bayer / DeltaPine	1.47	1.42	1.44	1.47	1.44	1.45
HA 1432 *	Gowan / Hazera					1.33	1.33
MEAN		1.49	1.44	1.46	1.50	1.43	1.46
LSD 0.05 ^a		0.04	0.03	NS	0.04	0.04	
%CV ^b		1.70	1.60	1.90	1.90	2.00	
P ^c		0.035	0.001	0.148	0.044	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: LINT YIELD VALUES shown were calculated 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)							

2020 University of California - PIMA VARIETY TRIAL - Strength averages across multiple sites February 12, 2021 update

fiber quality (hvi data summary)

Questions? Cooperative Project by:
 contact: Bob Hutmacher (Univ. CA) University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC
 Cell: (559) 260-8957 **Funding by:** CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.
 email: rbhutmacher@ucdavis.edu **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 - 2020 trials

		Buttonwillow area	Corcoran area	Huron area	Los Banos	West Side REC	AVERAGE
		KERN COUNTY	KINGS COUNTY	FRESNO COUNTY	MERCED COUNTY	FRESNO COUNTY	across all sites
VARIETY	SEED COMPANY	Strength (g/Tex)	Strength (g/Tex)	Strength (g/Tex)	Strength (g/Tex)	Strength (g/Tex)	
PHY 881 RF	Phytogen	47.9	47.3	45.6	48.5	48.0	47.5
PHY 854207 RF	Phytogen	49.4	48.3	47.8	46.6	49.7	48.4
PHY 852901 RF	Phytogen	48.4	46.4	45.6	46.1	49.7	47.2
DP 341 RF	Bayer / DeltaPine	48.3	47.6	44.9	46.3	48.0	47.0
DP 359 RF	Bayer / DeltaPine	48.0	46.9	45.3	44.7	47.5	46.5
DP 347 RF	Bayer / DeltaPine	45.6	44.3	43.1	44.4	46.4	44.8
HA 1432 *	Gowan / Hazera					41.7	41.7
MEAN		47.93	46.80	45.38	46.10	47.29	46.70
LSD 0.05 ^a		1.40	NS	1.90	NS	2.10	
%CV ^b		1.90	5.90	2.70	4.90	3.00	
P ^c		0.001	0.458	0.004	0.211	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: LINT YIELD VALUES** shown were calculated 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)

2020 University of California - PIMA VARIETY TRIAL - Micronaire averages across multiple sites February 12, 2021 update

fiber quality (hvi data summary)

Questions? Cooperative Project by:
 contact: Bob Hutmacher (Univ. CA) University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC
 Cell: (559) 260-8957 **Funding by:** CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.
 email: rbhutmacher@ucdavis.edu **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 - 2020 trials

		<i>Buttonwillow area</i>	<i>Corcoran area</i>	<i>Huron area</i>	<i>Los Banos</i>	<i>West Side REC</i>	<i>AVERAGE</i>
		KERN COUNTY	KINGS COUNTY	FRESNO COUNTY	MERCED COUNTY	FRESNO COUNTY	across all sites
VARIETY	SEED COMPANY	micronaire	micronaire	micronaire	micronaire	micronaire	
PHY 881 RF	Phytogen	4.78	5.28	4.85	4.85	4.70	4.89
PHY 854207 RF	Phytogen	4.68	5.10	4.93	4.68	4.73	4.82
PHY 852901 RF	Phytogen	4.55	5.08	5.03	4.98	4.68	4.86
DP 341 RF	Bayer / DeltaPine	4.33	4.98	4.87	4.90	4.50	4.72
DP 359 RF	Bayer / DeltaPine	4.63	5.28	4.78	5.03	4.80	4.90
DP 347 RF	Bayer / DeltaPine	4.40	5.13	4.83	4.83	4.53	4.74
HA 1432 *	Gowan / Hazera					4.30	4.30
MEAN		4.56	5.14	4.88	4.88	4.61	4.81
LSD 0.05 ^a		0.26	NS	NS	NS	0.25	
%CV ^b		3.80	5.10	4.20	5.50	3.60	
P ^c		0.018	0.561	0.615	0.540	0.007	

* 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: LINT YIELD VALUES** shown were calculated 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)

2020 University of California - PIMA VARIETY TRIALS - Buttonwillow area - Kern County - Bone Farms							February 12, 2021 update				
fiber quality (hvi data summary)											
Questions? Cooperative Project by:											
contact: Bob Hutmacher (Univ. CA) University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC											
Cell: (559) 260-8957 Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.											
email: rbhutmacher@ucdavis.edu 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 - 2020							HARVEST DATE: 10/30/2020				
row spacing = 38 inches											
PLANTING DATE: 4/21/2020											
						MANUAL					
						CLASSING					
VARIETY		SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF		Phytogen	4.78	1.49	47.9	88.1	6.00	5.75	1.45	59.8	11.0
PHY 854207 RF		Phytogen	4.68	1.46	49.4	88.3	6.50	6.25	1.65	58.1	11.1
PHY 852901 RF		Phytogen	4.55	1.52	48.4	88.4	6.50	6.25	1.55	57.9	11.3
DP 341 RF		Bayer / Deltapine	4.33	1.49	48.3	88.1	6.00	6.00	1.35	58.4	11.0
DP 359 RF		Bayer / Deltapine	4.63	1.48	48.0	88.4	6.25	6.00	1.35	58.0	11.2
DP 347 RF		Bayer / Deltapine	4.40	1.47	45.6	88.0	6.50	6.50	1.55	56.7	11.5
MEAN			4.56	1.49	47.9	88.2	6.29	6.13	1.48	58.2	11.2
LSD 0.05 ^a			0.26	0.04	1.4	NS	NS	NS	NS	1.6	0.3
LSD 0.10 ^a											
%CV ^b			3.8	1.7	1.9	1.0	12.50	6.60	24.50	1.9	1.7
P ^c			0.018	0.035	0.001	0.967	0.848	0.201	0.810	0.027	0.019
* 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.											
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^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)											

2020 University of California - PIMA VARIETY TRIALS - Corcoran area - Kings County - Hansen Farms							February 12, 2021 update				
fiber quality (hvi data summary)											
Questions?											
Cooperative Project by:											
contact: Bob Hutmacher (Univ. CA)											
University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC											
Cell: (559) 260-8957											
Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.											
email: rbhutmacher@ucdavis.edu											
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: Corcoran area - Kings County - Hansen Farms - 2020											
							HARVEST DATE: 11/19/2020				
row spacing = 30 inches											
PLANTING DATE: 4/22/2020											
						MANUAL					
						CLASSING					
VARIETY		SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF		Phytogen	5.28	1.46	47.3	88.2	7.00	7.00	3.98	55.9	10.4
PHY 854207 RF		Phytogen	5.10	1.42	48.3	87.7	7.00	7.00	4.38	53.5	10.7
PHY 852901 RF		Phytogen	5.08	1.50	46.4	88.5	7.00	7.00	4.28	53.7	10.9
DP 341 RF		Bayer / Deltapine	4.98	1.42	47.6	87.4	7.00	6.75	4.48	54.7	10.4
DP 359 RF		Bayer / Deltapine	5.28	1.41	46.9	88.1	7.00	6.75	4.18	55.5	10.8
DP 347 RF		Bayer / Deltapine	5.13	1.42	44.3	87.9	7.00	7.00	3.95	54.4	10.4
MEAN			5.14	1.44	46.8	88.0	7.00	6.92	4.21	54.6	10.6
LSD 0.05 ^a			NS	0.03	NS	NS	NS	NS	NS	1.6	0.3
LSD 0.10 ^a											
%CV ^b			5.1	1.6	5.9	0.7		3.70	8.20	2.0	2.1
P ^c			0.561	0.001	0.458	0.241		0.451	0.238	0.034	0.007
* 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.											
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^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)											

2020 University of California - PIMA VARIETY TRIALS - Huron area - Fresno County - Sheely Farms							February 12, 2021 update				
fiber quality (hvi data summary)											
Questions? Cooperative Project by:											
contact: Bob Hutmacher (Univ. CA) University of CA Coop. Extension (UC-ANR) / Univ. CA Davis Plant Sci Dept. / Univ. CA West Side REC											
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San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies											
LOCATION: Huron area - Fresno County - Sheely Farms - 2020							HARVEST DATE: 11/04/2020				
row spacing = 40 inches											
PLANTING DATE: 4/17/2020											
						MANUAL					
						CLASSING					
VARIETY		SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF		Phytogen	4.85	1.46	45.6	87.6	6.50	5.75	1.60	59.0	11.4
PHY 854207 RF		Phytogen	4.93	1.44	47.8	87.5	7.00	5.50	1.45	59.2	11.9
PHY 852901 RF		Phytogen	5.03	1.48	45.6	88.0	6.75	5.25	1.55	60.0	12.1
DP 341 RF		Bayer / Deltapine	4.87	1.47	44.9	88.0	6.38	6.40	1.59	57.5	11.8
DP 359 RF		Bayer / Deltapine	4.78	1.44	45.3	87.4	7.00	5.75	1.60	58.1	11.9
DP 347 RF		Bayer / Deltapine	4.83	1.44	43.1	87.7	7.00	5.75	2.10	58.1	11.9
MEAN			4.88	1.46	45.4	87.7	6.77	5.73	1.65	58.7	11.8
LSD 0.05 ^a		NS	NS	NS	1.9	NS	NS	NS	NS	NS	0.3
LSD 0.10 ^a								0.61			
%CV ^b			4.2	1.9	2.7	0.8	6.60	8.60	19.80	2.5	1.8
P ^c			0.615	0.148	0.004	0.683	0.248	0.089	0.149	0.250	0.010
* 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.											
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2020 University of California - PIMA VARIETY TRIALS - Los Banos area - Merced Co. - Bowles Farms							February 12, 2021 update				
fiber quality (hvi data summary)											
Questions?											
Cooperative Project by:											
contact: Bob Hutmacher (Univ. CA)											
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San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies											
LOCATION: Los Banos area - Merced County - Bowles Farms - 2020											
							HARVEST DATE: 11/13/2020				
row spacing = 30 inches											
PLANTING DATE: 4/18/2020											
						MANUAL					
						CLASSING					
VARIETY		SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B
PHY 881 RF		Phytogen	4.85	1.53	48.5	88.9	7.00	5.75	3.43	60.0	11.2
PHY 854207 RF		Phytogen	4.68	1.48	46.6	88.8	7.00	5.75	3.30	59.2	11.4
PHY 852901 RF		Phytogen	4.98	1.52	46.1	89.1	7.00	6.25	3.05	57.1	11.5
DP 341 RF		Bayer / Deltapine	4.90	1.49	46.3	88.5	7.00	5.75	3.03	58.9	11.0
DP 359 RF		Bayer / Deltapine	5.03	1.48	44.7	87.5	7.00	6.75	3.65	53.4	11.7
DP 347 RF		Bayer / Deltapine	4.83	1.47	44.4	88.5	7.00	6.75	2.93	56.3	11.5
MEAN			4.88	1.50	46.1	88.6	7.00	6.17	3.23	57.5	11.4
LSD 0.05 ^a			NS	0.04	NS		NS	0.76	NS	2.8	0.3
LSD 0.10 ^a						0.8					
%CV ^b			5.5	1.9	4.9	0.7		8.20	24.60	3.2	1.9
P ^c			0.540	0.044	0.211	0.051		0.020	0.779	0.002	0.004
* 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.											
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Cell: (559) 260-8957						Funding by: CA Cotton Growers&Ginners Assoc, CA Cotton Alliance, UC-ANR/UCCE, UC Davis Plant Sci. Dept.					
email: rbhutmacher@ucdavis.edu						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: West Side Research and Extension Center - Univ. of California - Five Points area - Fresno County						HARVEST DATE: 10/30/2020					
row spacing = 40 inches											
PLANTING DATE: 4/20/2020						MANUAL CLASSING					
		MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI COLOR	HVI TRASH	COLOR RD	+B	
VARIETY	SEED COMPANY										
PHY 881 RF	Phytogen	4.70	1.46	48.0	87.6	5.50	5.75	1.15	57.5	12.6	
PHY 854207 RF	Phytogen	4.73	1.43	49.7	87.4	6.50	5.75	1.43	57.1	12.6	
PHY 852901 RF	Phytogen	4.68	1.51	49.7	88.8	6.25	5.75	1.40	56.9	12.6	
DP 341 RF	Bayer / Deltapine	4.50	1.42	48.0	87.2	5.75	5.75	1.25	58.3	12.3	
DP 359 RF	Bayer / Deltapine	4.80	1.42	47.5	87.0	5.00	5.25	1.00	57.9	12.7	
DP 347 RF	Bayer / Deltapine	4.53	1.44	46.4	87.6	5.75	5.50	1.18	58.1	12.6	
HA 1432	Gowan / Hazera	4.30	1.33	41.7	86.1	5.00	5.25	1.08	61.8	11.1	
MEAN		4.61	1.43	47.3	87.4	5.68	5.57	1.21	58.2	12.4	
LSD 0.05 ^a		0.25	0.04	2.1	0.9	NS	NS	NS	2.0	0.4	
%CV ^b		3.6	2.0	3.0	0.7	15.00	9.10	19.80	2.3	2.0	
P ^c		0.007	0.000	0.000	0.0	0.15	0.53	0.17	0.0	0.0	
* 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)											