

2020 University of California - UPLAND / ACALA and National Standards Variety Trials - West Side REC site								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					Cotton Incorporated State Support Committee				
Cooperators: multiple growers, UC West Side REC staff, Dan Munk, Brian Marsh, Jose Dias, Nicholas Clark, 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									
LOCATION: West Side REC area - Fresno County - 2020									
row spacing = 40 inches									
PLANTING DATE: 4/24/2020									
MANUAL CLASSING									
		MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI TRASH	COLOR RD	+B
PHY 764 WRF	Phytogen	4.13	1.17	37.0	83.5	7.00	1.40	68.1	8.63
PHY 350 W3FE	Phytogen	4.47	1.20	33.4	83.4	5.33	1.03	71.2	7.93
PHY 400 W3FE	Phytogen	4.33	1.17	33.9	82.8	6.33	1.40	69.7	7.80
PHY 580 W3FE	Phytogen	4.47	1.13	32.2	83.0	6.67	1.50	70.3	8.30
FM 1621 GL	BASF / Fibermax	4.73	1.15	33.6	83.1	7.33	1.90	67.1	7.60
FM 2202 GL	BASF / Fibermax	4.23	1.15	35.2	83.2	7.33	1.73	66.7	8.10
ST 4550 GLTP	BASF / Stoneville	4.43	1.15	33.5	83.2	6.67	1.37	70.3	8.30
ST 4990 B3XF	BASF / Stoneville	4.43	1.23	32.9	83.2	5.67	1.23	72.1	7.83
ST 5707 B2XF	BASF / Stoneville	4.67	1.19	35.7	83.8	6.33	1.23	67.7	8.80
DP 2044 B3XF	Bayer / Deltapine	3.73	1.26	35.3	82.3	8.00	1.77	67.1	8.30
DG 3555 B3XF	Dyna Gro	4.07	1.24	34.3	83.9	6.67	1.43	68.1	8.33
DG 3402 B3XF	Dyna Gro	4.17	1.20	32.6	83.6	6.33	1.30	71.5	8.20
DG 3421 B3XF	Dyna Gro	5.07	1.16	32.2	83.5	5.00	1.07	72.1	8.37
DG 3615 B3XF	Dyna Gro	4.50	1.17	33.6	82.9	5.33	1.03	71.1	8.47
DG H959 B3XF	Dyna Gro	4.63	1.19	33.7	82.8	6.00	1.20	69.5	8.57
DP 1646 B2XF	Bayer / Deltapine	4.30	1.23	31.4	82.0	5.67	1.20	72.1	7.47
DP 1840 B3XF	Bayer / Deltapine	4.27	1.22	33.1	82.7	5.67	1.17	71.1	8.53
DP 1845 B3XF	Bayer / Deltapine	4.07	1.25	34.3	83.6	7.33	1.80	69.1	7.47
DP 2012 B3XF	Bayer / Deltapine	4.37	1.17	31.6	82.9	5.33	0.90	73.4	8.10
DG 3520 B3XF	Dyna Gro	3.80	1.27	32.7	84.2	7.33	1.67	67.6	7.97
FM 1830 GLT	BASF / Fibermax	4.43	1.20	34.4	82.4	6.00	1.20	70.8	7.87
NG 4936 B3XF	Americot	4.50	1.21	31.5	83.3	6.33	1.33	70.7	7.80
MEAN		4.35	1.20	33.55	83.15	6.35	1.36	69.88	8.12
LSD 0.05 <sup>a</sup>		0.31	0.04	1.5	1.0	1.17	0.49	2.6	0.45
%CV <sup>b</sup>		4.3	2.0	2.7	0.7	11.10	21.80	2.3	3.4
P <sup>c</sup>		0.000	0.000	0.000	0.008	0.000	0.005	0.000	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.									
<sup>a</sup> 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)									
<sup>b</sup> C.V. = coefficient of variation across replications									
<sup>c</sup> 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 - UPLAND ADVANCED STRAINS Variety Trial - West Side REC site								February 12, 2021 update	
fiber quality (hvi data summary)									
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		San Joaquin Quality Cotton Growers Assoc.-Shafter Research Station; Various Seed Companies							
LOCATION: West Side REC area - Fresno County - 2020						HARVEST DATE: 10/22-23/2020			
row spacing = 40 inches									
PLANTING DATE: 4/21/2020						MANUAL CLASSING			
		MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	COLOR	
VARIETY	SEED COMPANY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	TRASH	RD	+B
BX 2116 GLTP	BASF	4.17	1.18	33.3	83.3	6.00	1.10	71.4	7.97
BX 2141 GLTP	BASF	4.30	1.22	34.9	84.0	6.33	1.37	69.9	7.53
BX 2151 GLTP	BASF	4.93	1.18	32.1	83.1	6.00	1.30	72.3	7.93
BX 2191 B3XF	BASF	4.30	1.14	29.7	81.8	5.00	0.97	72.9	8.23
BX 2192 B3XF	BASF	4.43	1.22	32.0	82.4	5.00	0.87	72.7	7.73
BX 2193 B3XF	BASF	4.97	1.15	34.3	84.2	4.67	0.70	74.2	8.23
BX 2194 B3XF	BASF	3.93	1.20	32.8	82.2	6.67	1.53	71.2	7.13
ST 4990 B3XF	BASF / Stoneville	4.53	1.19	33.0	84.1	5.67	1.20	72.4	7.60
ST 4480 B3XF	BASF / Stoneville	4.10	1.18	32.1	82.6	6.00	1.27	72.3	7.00
ST 5610 B3XF	BASF / Stoneville	4.63	1.16	32.3	82.7	5.33	1.10	72.7	8.23
ST 5600 B2XF	BASF / Stoneville	5.03	1.18	33.4	83.5	6.67	1.43	69.1	8.50
DGX 19003 B3XF	Dyna Gro	4.80	1.13	30.4	82.9	6.33	1.43	71.9	7.90
DGX 19008 B3XF	Dyna Gro	4.43	1.16	30.8	82.3	6.33	1.40	69.5	7.83
DGX 19010 B3XF	Dyna Gro	4.17	1.17	30.6	82.2	7.00	1.77	69.2	7.47
DGX 19052 B3XF	Dyna Gro	4.33	1.16	32.9	82.9	5.33	1.03	72.9	8.17
DGX 19731 GLTP	Dyna Gro	4.33	1.19	32.4	82.5	6.00	1.27	70.7	8.03
DGX 197312 GLTP	Dyna Gro	4.20	1.13	30.7	80.5	6.33	1.50	71.8	7.40
PHY 764 WRF	Phytogen	4.00	1.15	36.6	83.6	6.67	1.47	69.1	8.50
MEAN		4.42	1.17	32.46	82.82	5.96	1.26	71.46	7.85
LSD 0.05 <sup>a</sup>		0.35	0.04	1.7	1.3	1.11	0.42	2.0	0.39
%CV <sup>b</sup>		4.7	1.8	3.1	0.9	11.20	20.20	1.7	3.0
P <sup>c</sup>		0.000	0.000	0.000	0.000	0.004	0.002	0.000	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.									
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