

2021 University of California - UPLAND / ACALA and National Standards Variety Trials - West Side REC site February 18, 2022 update

HVI fiber quality (hvi data summary) - Visalia USDA Classing Office

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, 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 - 2021** HARVEST DATE: 11/02/2021

row spacing = 40 inches

PLANTING DATE: 4/19/2021 MANUAL CLASSING

VARIETY	SEED COMPANY	MICRO-NAIRE	LENGTH (in)	STRENGTH (g/Tex)	UNIFORMITY INDEX	LEAF GRADE	HVI TRASH	COLOR RD	+B
PHY 764 WRF	Phytogen / Corteva	3.98	1.20	38.8	83.7	6.50	1.68	70.6	8.83
PHY 332 W3FE	Phytogen / Corteva	3.88	1.23	33.7	83.3	6.25	1.83	70.1	8.93
PHY 350 W3FE	Phytogen / Corteva	3.68	1.21	32.8	83.1	6.75	1.75	70.2	8.33
PHY 400 W3FE	Phytogen / Corteva	4.40	1.19	33.8	82.7	6.50	1.63	71.2	8.53
PHY 443 W3FE	Phytogen / Corteva	3.95	1.17	35.3	83.5	5.75	1.38	70.4	9.20
PHY 480 W3FE	Phytogen / Corteva	3.88	1.19	33.3	83.9	7.00	1.68	69.8	8.73
PHY 580 W3FE	Phytogen / Corteva	3.88	1.18	32.8	82.7	5.50	1.33	72.7	8.48
DP 1646 B2XF	Bayer / Deltapine	3.88	1.29	31.0	82.5	5.75	1.40	73.4	8.63
DP 2020 B3XF	Bayer / Deltapine	3.80	1.24	32.1	83.4	6.00	1.50	72.0	8.50
DP 2012 B3XF	Bayer / Deltapine	4.05	1.21	32.1	82.7	5.25	1.05	72.5	8.78
DP 2055 B3XF	Bayer / Deltapine	3.95	1.27	33.1	83.7	6.00	1.40	72.8	8.58
DP 2141NR B3XF	Bayer / Deltapine	4.15	1.23	34.0	82.6	5.25	1.18	72.6	8.85
DP 2143NR B3XF	Bayer / Deltapine	3.98	1.23	34.2	84.1	6.75	1.73	71.5	7.98
ST 5091 B3XF	Stoneville / BASF	4.20	1.22	32.0	82.5	5.50	1.18	72.4	8.38
ST 4993 B3XF	Stoneville / BASF	3.95	1.23	35.5	84.3	5.00	1.03	73.5	8.63
ST 4990 B3XF	Stoneville / BASF	3.70	1.25	33.3	84.2	5.25	1.23	73.6	8.05
FM 1730 GLTP	Fibermax / BASF	3.98	1.20	34.5	83.8	6.00	1.30	72.6	7.73
FM 2398 GLTP	Fibermax / BASF	4.03	1.21	33.8	83.7	5.75	1.48	71.2	8.40
ST 5600 B2XF	Stoneville / BASF	3.90	1.23	33.9	82.7	6.25	1.58	70.7	8.55
ST 5707 B2XF	Stoneville / BASF	3.45	1.24	34.7	84.2	5.75	1.28	71.7	9.45
DG 3520 B3XF	Dyna-Gro	3.10	1.28	34.4	84.2	6.75	1.83	70.0	8.33
FM 1830 GLT	Fibermax / BASF	3.45	1.26	33.9	83.7	5.50	1.15	74.6	7.90
NG 4936 B3XF	Americot	3.60	1.27	32.6	84.1	5.75	1.25	73.5	8.15
ST 4550 GLTP	Stoneville / BASF	4.25	1.19	35.2	83.8	6.50	1.50	70.9	8.88
MEAN		3.88	1.22	33.78	83.45	5.97	1.43	71.84	8.53
LSD 0.05 ^a			0.04	1.5	1.3	NS	NS	NS	0.53
LSD 0.10 ^a		0.51							
%CV ^b		11.2	2.2	3.1	1.1	18.50	32.30	3.1	4.4
P ^c		0.053	0.000	0.000	0.021	0.428	0.375	0.116	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

^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 - UPLAND ADVANCED STRAINS Variety Trial - West Side REC site							February 19, 2022 update			
HVI fiber quality (hvi data summary) - Visalia USDA Classing Office										
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, 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 - 2021							HARVEST DATE: 11/09/2021			
row spacing = 40 inches										
PLANTING DATE: 4/21/2021		MANUAL CLASSING								
		MICRO-	LENGTH	STRENGTH	UNIFORMITY	LEAF	HVI	COLOR		
VARIETY	SEED COMPANY	NAIRE	(in)	(g/Tex)	INDEX	GRADE	TRASH	RD	+B	
DG 3387 B3XF	Dyna-Gro	3.90	1.23	33.3	83.5	6.75	1.75	70.5	8.33	
DG 3422 B3XF	Dyna-Gro	3.70	1.23	34.0	83.3	5.25	1.23	73.7	8.83	
DG 3799 B3XF	Dyna-Gro	4.43	1.23	34.1	83.1	5.50	1.18	71.9	9.08	
DG 3469 B3XF	Dyna-Gro	4.18	1.19	33.9	83.8	5.50	1.38	72.4	8.70	
DG H929 B3XF	Dyna-Gro	3.68	1.21	37.1	84.8	6.00	1.50	69.8	9.33	
DG H959 B3XF	Dyna-Gro	4.20	1.21	34.2	83.3	5.25	1.03	71.3	9.35	
DG 1464 GLTP	Dyna-Gro	4.68	1.25	34.4	83.5	5.75	1.33	70.9	8.88	
PHY 764 WRF	Phytogen / Corteva	4.10	1.23	40.0	84.5	5.75	1.50	70.8	9.40	
PX 4B08 W3FE	Phytogen / Corteva	4.63	1.14	34.9	83.0	6.00	1.55	71.2	8.45	
BX 2295 B3XF	BASF	4.25	1.25	33.2	83.7	6.00	1.40	71.1	8.55	
BX 2296 B3XF	BASF	4.05	1.21	33.3	83.8	5.00	1.13	72.3	8.80	
BX 2297 B3XF	BASF	4.15	1.24	31.7	83.7	5.75	1.50	69.8	8.78	
BX 2298 B3XF	BASF	4.08	1.16	33.1	83.5	4.50	0.80	73.7	9.23	
FM 1621 GL	Fibermax / BASF	4.70	1.20	35.7	82.7	6.25	1.40	70.0	8.18	
FM 2202 GL	Fibermax / BASF	4.45	1.16	37.5	84.0	5.75	1.40	70.4	8.73	
ST 4550 GLTP	Stoneville / BASF	4.13	1.21	35.9	84.3	5.00	1.03	71.8	9.28	
FM 2498 GLT	Fibermax / BASF	4.70	1.23	34.7	83.8	5.00	1.03	72.8	8.73	
MEAN		4.23	1.21	34.75	83.65	5.59	1.30	71.42	8.86	
LSD 0.05 ^a		0.48	0.03	2.1	1.1	NS			0.42	
LSD 0.10 ^a							0.44	2.2		
%CV ^b		7.9	1.6	4.3	0.9	16.10	28.50	2.6	3.3	
P ^c		0.000	0.000	0.000	0.029	0.138	0.072	0.065	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										
^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)										