

2-location average (Shafter & West Side REC)

Questions?

Contact - Bob Hutmacher (Univ. CA)
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Cooperative Project by:

University of California / Various Seed Companies
Cotton Incorporated State Support Committee support
Cooperators: Hutmacher, Wright, Keeley, Delgado, Banuelos

2-location average (Shafter & West Side REC)

VARIETY	AVERAGE MICRONAIRE	AVERAGE LENGTH (in.)	STRENGTH (g/Tex)	UNIFORMITY INDEX	MANUAL CLASSING		COLOR		
					LEAF GRADE	HVI TRASH	RD	+B	
PHY-72	4.51	1.24	36.5	84.2	2.4	0.25	77.8	8.61	
09R555 B2R2	4.63	1.20	33.3	84.5	2.5	0.26	78.6	8.80	
09R619 B2R2	4.45	1.15	31.1	83.7	1.8	0.20	79.2	8.83	
10R030 B2R2	4.13	1.23	32.0	83.9	2.0	0.19	79.2	8.88	
10R051 B2R2	4.38	1.20	31.6	84.2	1.9	0.20	79.1	8.85	
10R052 B2R2	4.49	1.19	31.4	83.9	2.1	0.20	78.4	9.06	
FM 1740 B2F	4.61	1.16	32.8	83.3	2.1	0.20	80.3	8.00	
FM 9160 B2F	3.94	1.19	33.2	83.5	2.5	0.25	80.4	8.16	
FM 9170 B2F	4.01	1.21	33.4	82.5	2.1	0.25	81.3	7.73	
ST 4288 B2F	4.40	1.20	32.5	83.0	2.6	0.29	79.0	8.45	
BCSX 1010 B2F	4.26	1.20	32.4	83.1	2.0	0.19	79.9	8.35	
BCSX 1030 B2F	4.24	1.17	30.4	82.9	1.6	0.19	80.8	8.33	
BCSX 1040 B2F	4.48	1.28	34.2	84.4	3.4	0.44	78.6	7.86	
FM 1773 LLB2	4.51	1.22	34.5	82.7	2.5	0.28	80.0	7.98	
FM 1845 LLB2	4.41	1.24	35.2	83.9	2.6	0.26	80.0	8.03	
PHY 367 WRF	4.20	1.20	33.7	83.3	2.5	0.26	78.0	8.59	
PHY 375 WRF	4.20	1.16	31.3	82.5	2.5	0.21	79.3	8.56	
PHY 499 WRF	4.30	1.20	34.2	83.9	3.0	0.46	77.3	8.54	
*SJ-10U03B	4.16	1.24	36.4	83.2	3.1	0.41	77.8	8.25	
*SJ-10U20	4.05	1.27	36.3	84.5	2.8	0.29	77.3	7.75	
*SJ-10U21	3.96	1.29	34.6	83.6	2.9	0.35	79.2	7.60	
*SJ-10U22	4.05	1.27	36.2	83.0	2.9	0.34	78.5	7.74	
MEAN	4.29	1.21	33.5	83.5	2.4	0.27	79.1	8.32	
LSD 0.05	0.18	0.02	0.8	0.6	0.4	0.08	1.0	0.28	
%CV	4.2	1.4	2.4	0.7	17.8	27.9	1.3	3.4	
P	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
VAR*LOC	<i>variety by location</i>								
LSD 0.05	<i>interaction</i>		0.03	NS	NS	0.5	0.11	1.9	NS
LSD 0.10	0.23								
%CV	4.5	1.5	2.4	0.7	15.9	27.6	1.7	3.2	
P	0.083	0.006	0.142	0.192	0.001	0.000	0.046	0.151	

* experimental entries from USDA-ARS Shafter program (Ulloa et al)

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MICRONAIRE

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE MICRONAIRE
PHY-72	4.73	4.30	4.51
09R555 B2R2	4.65	4.60	4.63
09R619 B2R2	4.45	4.45	4.45
10R030 B2R2	4.10	4.15	4.13
10R051 B2R2	4.35	4.40	4.38
10R052 B2R2	4.53	4.45	4.49
FM 1740 B2F	4.63	4.60	4.61
FM 9160 B2F	3.98	3.90	3.94
FM 9170 B2F	4.13	3.90	4.01
ST 4288 B2F	4.43	4.38	4.4
BCSX 1010 B2F	4.30	4.23	4.26
BCSX 1030 B2F	4.30	4.18	4.24
BCSX 1040 B2F	4.58	4.38	4.48
FM 1773 LLB2	4.43	4.60	4.51
FM 1845 LLB2	4.50	4.33	4.41
PHY 367 WRF	4.20	4.20	4.2
PHY 375 WRF	4.38	4.03	4.2
PHY 499 WRF	4.38	4.23	4.3
*SJ-10U03B	4.15	4.18	4.16
*SJ-10U20	4.23	3.88	4.05
*SJ-10U21	3.80	4.13	3.96
*SJ-10U22	4.13	3.98	4.05
MEAN	4.33	4.25	4.29
LSD 0.05	0.30	0.21	0.18
CV%	4.9	3.5	4.2
P	0.000	0.000	0.000

<i>variety by location</i>	VAR * LOC	
<i>interaction</i>	LSD 0.10	0.23
	%CV	4.5
	P	0.083

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LENGTH (inches)

VARIETY	SHAFTER	WESTSIDE REC	AVG. LENGTH
PHY-72	1.23	1.25	1.24
09R555 B2R2	1.18	1.23	1.20
09R619 B2R2	1.13	1.18	1.15
10R030 B2R2	1.21	1.26	1.23
10R051 B2R2	1.17	1.23	1.20
10R052 B2R2	1.17	1.20	1.19
FM 1740 B2F	1.15	1.16	1.16
FM 9160 B2F	1.18	1.20	1.19
FM 9170 B2F	1.19	1.22	1.21
ST 4288 B2F	1.16	1.23	1.20
BCSX 1010 B2F	1.20	1.21	1.20
BCSX 1030 B2F	1.15	1.18	1.17
BCSX 1040 B2F	1.27	1.29	1.28
FM 1773 LLB2	1.22	1.22	1.22
FM 1845 LLB2	1.24	1.25	1.24
PHY 367 WRF	1.18	1.21	1.20
PHY 375 WRF	1.15	1.18	1.16
PHY 499 WRF	1.18	1.22	1.20
*SJ-10U03B	1.23	1.24	1.24
*SJ-10U20	1.25	1.30	1.27
*SJ-10U21	1.27	1.31	1.29
*SJ-10U22	1.25	1.30	1.27
MEAN	1.20	1.23	1.21
LSD 0.05	0.02	0.02	0.02
CV%	1.4	1.4	1.4
P	0.000	0.000	0.000

variety by location

VAR * LOC

interaction

LSD 0.05

0.03

%CV

1.5

P

0.006

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STRENGTH (g/Tex)

VARIETY	SHAFTER	WESTSIDE REC	AVG. STRENGTH
PHY-72	37.5	35.6	36.5
09R555 B2R2	33.6	33.0	33.3
09R619 B2R2	31.1	31.2	31.1
10R030 B2R2	32.6	31.5	32.0
10R051 B2R2	32.0	31.3	31.6
10R052 B2R2	31.9	30.9	31.4
FM 1740 B2F	33.0	32.7	32.8
FM 9160 B2F	33.5	32.9	33.2
FM 9170 B2F	33.4	33.4	33.4
ST 4288 B2F	32.2	32.9	32.5
BCSX 1010 B2F	32.6	32.1	32.4
BCSX 1030 B2F	30.8	30.1	30.4
BCSX 1040 B2F	34.5	33.9	34.2
FM 1773 LLB2	34.7	34.2	34.5
FM 1845 LLB2	35.6	34.9	35.2
PHY 367 WRF	34.1	33.2	33.7
PHY 375 WRF	31.6	31.1	31.3
PHY 499 WRF	34.8	33.6	34.2
*SJ-10U03B	36.5	36.3	36.4
*SJ-10U20	37.1	35.6	36.3
*SJ-10U21	35.8	33.5	34.6
*SJ-10U22	36.3	36.0	36.2
MEAN	33.9	33.2	33.5
LSD 0.05	1.2	1.1	0.8
CV%	2.5	2.3	2.4
P	0.000	0.000	0.000

<i>variety by location</i>	VAR * LOC	
<i>interaction</i>	LSD 0.05	NS
	%CV	2.4
	P	0.142

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UNIFORMITY

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE UNIFORMITY
PHY-72	84.4	84.1	84.2
09R555 B2R2	83.9	85.0	84.5
09R619 B2R2	83.1	84.2	83.7
10R030 B2R2	83.5	84.3	83.9
10R051 B2R2	83.4	85.1	84.2
10R052 B2R2	83.7	84.2	83.9
FM 1740 B2F	83.1	83.6	83.3
FM 9160 B2F	83.6	83.4	83.5
FM 9170 B2F	82.0	83.0	82.5
ST 4288 B2F	82.5	83.4	83.0
BCSX 1010 B2F	83.0	83.3	83.1
BCSX 1030 B2F	82.9	82.9	82.9
BCSX 1040 B2F	84.2	84.6	84.4
FM 1773 LLB2	82.5	83.0	82.7
FM 1845 LLB2	83.5	84.3	83.9
PHY 367 WRF	83.0	83.6	83.3
PHY 375 WRF	82.4	82.6	82.5
PHY 499 WRF	83.6	84.2	83.9
*SJ-10U03B	82.9	83.5	83.2
*SJ-10U20	84.3	84.6	84.5
*SJ-10U21	83.2	84.0	83.6
*SJ-10U22	82.3	83.7	83.0
MEAN	83.2	83.8	83.5
LSD 0.05	0.9	0.8	0.6
CV%	0.7	0.7	0.7
P	0.000	0.000	0.000

<i>variety by location</i>	VAR * LOC	
<i>interaction</i>	LSD 0.05	NS
	%CV	0.7
	P	0.192

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LEAF GRADE - Manual Classing

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE LEAF GRADE
PHY-72	2.8	2.0	2.4
09R555 B2R2	2.5	2.5	2.5
09R619 B2R2	1.8	1.8	1.8
10R030 B2R2	2.0	2.0	2.0
10R051 B2R2	2.0	1.8	1.9
10R052 B2R2	2.0	2.3	2.1
FM 1740 B2F	2.8	1.5	2.1
FM 9160 B2F	3.0	2.0	2.5
FM 9170 B2F	2.5	1.8	2.1
ST 4288 B2F	3.0	2.3	2.6
BCSX 1010 B2F	2.5	1.5	2.0
BCSX 1030 B2F	2.0	1.3	1.6
BCSX 1040 B2F	3.8	3.0	3.4
FM 1773 LLB2	3.0	2.0	2.5
FM 1845 LLB2	3.0	2.3	2.6
PHY 367 WRF	3.0	2.0	2.5
PHY 375 WRF	3.3	1.8	2.5
PHY 499 WRF	3.3	2.8	3.0
*SJ-10U03B	3.5	2.8	3.1
*SJ-10U20	3.0	2.5	2.8
*SJ-10U21	3.0	2.8	2.9
*SJ-10U22	3.0	2.8	2.9
MEAN	2.8	2.2	2.4
LSD 0.05	0.5	0.6	0.4
CV%	13.2	19.5	17.8
P	0.000	0.000	0.000

<i>variety by location</i>	VAR * LOC	
<i>interaction</i>	LSD 0.05	0.5
	%CV	15.9
	P	0.001

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hvi - TRASH

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE
			HVI TRASH
PHY-72	0.28	0.23	0.25
09R555 B2R2	0.30	0.23	0.26
09R619 B2R2	0.23	0.18	0.20
10R030 B2R2	0.23	0.15	0.19
10R051 B2R2	0.18	0.23	0.20
10R052 B2R2	0.18	0.23	0.20
FM 1740 B2F	0.30	0.10	0.20
FM 9160 B2F	0.35	0.15	0.25
FM 9170 B2F	0.30	0.20	0.25
ST 4288 B2F	0.35	0.23	0.29
BCSX 1010 B2F	0.25	0.13	0.19
BCSX 1030 B2F	0.25	0.13	0.19
BCSX 1040 B2F	0.55	0.33	0.44
FM 1773 LLB2	0.40	0.15	0.28
FM 1845 LLB2	0.38	0.15	0.26
PHY 367 WRF	0.35	0.18	0.26
PHY 375 WRF	0.30	0.13	0.21
PHY 499 WRF	0.55	0.38	0.46
*SJ-10U03B	0.58	0.25	0.41
*SJ-10U20	0.30	0.28	0.29
*SJ-10U21	0.43	0.28	0.35
*SJ-10U22	0.28	0.40	0.34
MEAN	0.33	0.21	0.27
LSD 0.05	0.12	0.08	0.08
CV%	26.5	25.9	27.9
P	0.000	0.000	0.000
	<i>variety by location</i>	VAR * LOC	
	<i>interaction</i>	LSD 0.05	0.11
		%CV	27.6
		P	0.000

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RD - color

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE RD
PHY-72	75.8	79.7	77.8
09R555 B2R2	77.5	79.6	78.6
09R619 B2R2	77.9	80.5	79.2
10R030 B2R2	77.6	80.8	79.2
10R051 B2R2	77.8	80.4	79.1
10R052 B2R2	77.7	79.2	78.4
FM 1740 B2F	77.7	83.0	80.3
FM 9160 B2F	78.5	82.4	80.4
FM 9170 B2F	79.0	83.6	81.3
ST 4288 B2F	77.3	80.7	79.0
BCSX 1010 B2F	77.5	82.3	79.9
BCSX 1030 B2F	77.9	83.8	80.8
BCSX 1040 B2F	76.7	80.5	78.6
FM 1773 LLB2	78.4	81.6	80.0
FM 1845 LLB2	77.9	82.1	80.0
PHY 367 WRF	75.6	80.5	78.0
PHY 375 WRF	76.6	81.9	79.3
PHY 499 WRF	75.6	79.0	77.3
*SJ-10U03B	74.8	80.8	77.8
*SJ-10U20	75.4	79.2	77.3
*SJ-10U21	77.6	80.9	79.2
*SJ-10U22	77.6	79.4	78.5
MEAN	77.2	81.0	79.1
LSD 0.05	1.3	1.6	1.0
CV%	1.2	1.4	1.3
P	0.000	0.000	0.000

variety by location

VAR * LOC

interaction

LSD 0.05

1.9

%CV

1.7

P

0.046

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+ B - color

VARIETY	SHAFTER	WESTSIDE REC	AVERAGE
			+B
PHY-72	8.03	9.20	8.61
09R555 B2R2	7.85	9.75	8.80
09R619 B2R2	8.10	9.55	8.83
10R030 B2R2	8.08	9.68	8.88
10R051 B2R2	8.20	9.50	8.85
10R052 B2R2	8.30	9.83	9.06
FM 1740 B2F	7.35	8.65	8.00
FM 9160 B2F	7.23	9.10	8.16
FM 9170 B2F	6.90	8.55	7.73
ST 4288 B2F	7.78	9.13	8.45
BCSX 1010 B2F	7.48	9.23	8.35
BCSX 1030 B2F	7.60	9.05	8.33
BCSX 1040 B2F	7.00	8.73	7.86
FM 1773 LLB2	7.10	8.85	7.98
FM 1845 LLB2	7.23	8.83	8.03
PHY 367 WRF	7.68	9.50	8.59
PHY 375 WRF	7.65	9.48	8.56
PHY 499 WRF	7.65	9.43	8.54
*SJ-10U03B	7.50	9.00	8.25
*SJ-10U20	7.00	8.50	7.75
*SJ-10U21	6.78	8.43	7.60
*SJ-10U22	7.15	8.33	7.74
MEAN	7.53	9.10	8.32
LSD 0.05	0.37	0.40	0.28
CV%	3.5	3.1	3.4
P	0.000	0.000	0.000

<i>variety by location</i>	VAR * LOC	
<i>interaction</i>	LSD 0.05	NS
	%CV	3.2
	P	0.151