

Table 1. 12 WCVT-I. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 2012. (Irrigated)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)	Work to Break
PHY 499 WRF	2847	45.6	5.2	1.11	29.0	83.7	6.5	187
DP 1032 B2RF	2727	45.1	4.9	1.18	29.7	81.8	4.9	144
SSG AU 222	2718	42.8	4.9	1.21	29.2	83.7	6.5	190
DP 1133 B2RF	2694	45.6	4.9	1.18	31.2	83.6	5.6	175
DP 1048 B2RF	2640	44.9	5.0	1.16	27.9	83.1	6.4	179
ALL-TEX 7A21	2636	45.2	5.2	1.19	29.5	83.8	5.7	167
PHY 4339-blend	2631	44.0	4.5	1.17	28.6	82.5	5.7	161
PHY 4339-6	2623	44.2	5.0	1.16	28.8	82.9	5.7	164
DP 1050 B2RF	2617	45.5	4.8	1.15	27.6	83.4	6.1	168
PHY 4339-15	2598	43.2	4.8	1.17	28.7	83.3	5.6	161
MON 11R159B2RF	2593	42.7	5.0	1.19	31.1	82.8	4.7	144
ALL-TEX LA 122	2561	42.1	4.6	1.15	28.6	83.5	5.9	167
PHY 367 WRF	2541	44.9	5.3	1.11	27.1	82.7	6.3	169
SSG HQ210CT	2520	41.8	5.4	1.12	29.4	82.6	5.2	153
AM 1511 B2RF	2515	45.0	5.1	1.14	29.5	83.5	6.5	191
All-Tex Epic RF	2506	45.2	4.9	1.11	28.1	82.7	6.6	184
DP 1252 B2RF	2464	46.3	5.1	1.14	27.0	82.9	6.7	180
MON 11R136B2RF	2448	41.7	4.8	1.25	30.4	84.9	6.1	184
DP 0935 B2RF	2444	43.3	4.8	1.13	28.6	82.7	5.6	159
MON 11R112B2RF	2436	41.5	5.2	1.16	29.9	83.6	6.8	203
DP 1219 B2RF	2419	42.4	4.7	1.19	31.7	82.4	5.3	168
DP 1044 B2RF	2354	40.6	4.9	1.12	28.0	82.5	6.4	179
PHY 565 WRF	2352	41.6	4.9	1.15	30.0	83.3	6.6	197
PHY 375WRF	2332	42.9	4.7	1.11	26.9	81.9	5.1	136
Tam 07 WD-57	2331	40.9	4.0	1.17	28.9	82.0	6.0	173
PHY 5322-11	2329	40.4	4.8	1.19	28.7	83.4	5.9	169
DP 0912B2RF	2326	41.2	5.4	1.08	26.5	83.3	5.7	150
Tam 07 X-08	2305	39.9	4.7	1.19	30.1	82.9	5.5	164
ALL-TEX NITRO 44 B2R	2294	39.9	4.2	1.21	32.5	83.8	6.2	200
ATX 9CR253B2RF	2260	44.0	5.5	1.10	28.6	82.2	5.8	164
AM 1550 B2RF	2246	41.7	4.8	1.13	27.5	83.4	5.9	162
FM 1740B2F	2222	42.0	4.9	1.10	27.8	82.3	5.5	151
TAM 06 C-79	2222	40.7	4.7	1.15	30.8	82.6	5.6	171
Tam 07 V-45	2200	40.7	4.8	1.14	28.8	82.3	5.2	148
PHY 5263-11	2166	41.3	4.9	1.13	28.9	83.0	5.9	169
Tamcot 73	2163	39.3	4.5	1.15	31.0	83.2	5.3	164
ATX 91139 B2RF	2092	43.2	4.3	1.16	27.8	83.5	5.8	161
Tam 07 U-08	2047	38.2	4.8	1.23	32.1	84.8	5.6	178
SSG AU 103	2016	41.6	4.6	1.19	29.9	83.8	5.8	173
Tam 07 WC-18	2009	37.6	4.6	1.20	30.3	83.3	4.5	136

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)	Work to Break
ATX 981221501 B2RF	2006	42.4	4.8	1.20	30.9	83.8	5.1	156
PHY 725RF	1986	39.4	4.9	1.22	32.7	83.6	5.5	180
Tam 07 WA-18	1986	38.1	4.5	1.24	32.8	85.0	4.7	152
PHY 755 WRF	1510	30.2	4.5	1.29	33.0	84.9	5.7	186
LSD (k=100) ¹	195	5.5	0.5	0.03	1.5	1.6	0.5	16.8
%CV	6.4	5.7	4.5	1.50	2.7	0.8	4.5	5.1
Mean	2362	42.1	4.8	1.16	29.4	83.2	5.7	169

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.