

Table 5. Results of the irrigated cotton variety test at the Donald Love Farm, Lamesa, TX, 2002.

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 9-25-02	Storm Resistance
		Lint	Seed	Picked	Pulled						
AFD 2070	1843	28.0	44.7	38.2	29.7	5.4	10.2	6.6	31.3	79	2.9
Stoneville 5599BR	1811	29.0	42.4	39.7	32.0	5.6	10.2	7.1	31.4	60	2.3
Stoneville 4892BR	1803	29.2	41.0	39.5	29.3	4.7	10.5	7.4	25.1	62	2.3
Deltapine 491	1771	28.0	41.1	40.0	31.7	5.2	9.0	6.3	33.1	54	2.3
Stoneville 4793R	1745	27.5	40.6	40.0	30.9	4.8	10.2	7.2	26.9	60	2.3
Stoneville 457	1715	27.3	39.9	39.9	30.2	5.0	9.5	6.7	30.1	62	2.0
Deltapine 458 B/RR	1705	27.1	42.5	37.9	29.6	4.6	8.5	5.5	32.2	58	2.4
Syngenta 2108ss	1692	28.6	42.4	38.8	29.8	5.0	9.6	6.4	29.8	74	2.5
FiberMax 989 R	1684	28.3	41.0	40.4	31.6	5.5	10.1	7.1	31.1	62	2.5
FiberMax 989 BR	1660	27.4	41.6	38.7	29.6	5.2	10.2	6.8	29.6	71	2.4
FiberMax 989	1655	26.3	39.9	40.4	31.0	5.3	9.4	6.6	32.5	50	2.5
SureGrow 215 BG/RR	1655	28.1	42.0	38.3	29.7	5.1	10.1	6.6	29.7	73	2.2
FiberMax 958	1629	27.4	39.3	39.1	30.4	5.2	10.3	7.0	29.0	57	3.0
Phytogen 98M-2983	1615	27.2	39.0	41.1	30.9	5.0	9.5	7.0	29.6	77	1.9
Syngenta 2165	1615	29.4	43.1	39.1	30.5	5.5	10.1	6.8	31.1	75	2.7
Stoneville 474	1584	27.0	38.0	39.3	29.5	4.9	9.9	6.8	28.2	75	2.0
Phytogen 355	1579	25.4	38.7	38.7	28.2	4.5	9.5	6.4	27.2	78	2.1
Syngenta NX 2429	1575	25.7	40.2	38.0	27.5	4.4	9.6	6.3	26.3	71	2.2
AFD 2424	1560	27.6	43.4	39.8	31.4	5.1	9.5	6.5	31.3	81	2.1
Deltapine 449 BG/RR	1535	28.5	43.1	39.2	30.4	4.2	8.3	5.6	29.5	71	2.0
Stoneville 5303 R	1528	28.7	41.5	39.1	29.8	4.9	9.5	6.4	29.5	65	2.3
FiberMax 5017	1518	26.0	43.0	36.6	28.0	6.0	11.8	7.1	31.3	50	3.0
Deltapine 237 B	1507	25.6	44.9	34.6	26.6	5.2	10.7	6.0	30.4	70	3.1
Stoneville 580	1505	27.7	41.4	40.2	30.4	4.8	9.3	6.4	29.7	56	2.1
AFD 2219	1503	29.1	41.7	39.7	31.0	5.0	9.9	6.9	29.0	74	2.3

Table 5. Cont.

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9-25-02	Resistance
Acala w1218	1494	24.9	40.4	36.1	27.8	5.5	10.6	6.5	30.9	63	2.5
Paymaster 2200 RR	1488	25.9	43.7	36.4	27.9	5.6	10.5	6.3	32.7	57	2.9
Stoneville 2454R	1486	27.6	39.8	39.6	30.4	5.4	10.2	7.1	29.9	71	2.3
Paymaster 2167 RR	1482	25.5	40.4	38.6	29.9	5.1	9.5	6.3	31.7	71	3.2
Stoneville BXN 49B	1481	26.5	40.2	39.0	29.7	5.1	10.3	7.0	28.4	66	2.4
Deltapine 444BG/RR	1463	28.6	40.3	40.6	31.0	4.8	9.3	6.7	28.9	80	2.1
FiberMax 832	1455	26.6	43.0	37.4	28.8	5.2	10.1	6.3	30.9	47	2.3
Tamcot Spinx	1451	25.2	42.1	37.1	28.7	5.0	10.2	6.4	28.6	67	2.5
All-Tex Atlas	1446	24.4	42.3	35.4	26.7	5.5	10.8	6.3	30.7	64	3.1
FiberMax 819	1446	26.2	39.3	38.3	29.3	3.9	8.8	5.9	25.4	71	2.5
NM 970123	1445	25.9	38.2	40.3	29.1	5.2	10.2	7.3	28.7	58	2.3
Acala 1517-95	1441	23.8	40.3	35.1	25.5	4.9	10.7	6.4	27.1	71	2.2
FiberMax 5015	1441	24.7	40.6	36.7	28.1	5.3	10.3	6.3	31.1	76	2.8
Deltapine 555 BG/RR	1430	29.9	39.3	42.6	31.9	3.7	7.0	5.4	29.2	45	2.3
TTU Hol 338	1391	23.6	41.8	36.3	25.7	5.8	11.5	6.8	31.0	66	2.7
Paymaster 2379 RR	1387	26.8	42.3	36.8	28.3	5.0	10.2	6.2	30.0	67	3.3
Acala 1517-99	1384	24.7	40.6	34.5	25.0	4.9	10.5	6.1	27.5	60	2.0
Phytogen 72 Acala	1381	23.8	38.9	37.4	28.0	5.0	10.2	6.4	28.9	68	2.0
Paymaster 2266 RR	1337	23.7	42.4	35.1	27.3	6.1	11.7	6.7	31.8	74	3.1
Paymaster 2326 RR	1332	25.1	42.6	36.9	28.3	4.7	9.8	6.1	28.8	75	3.1
Paymaster 2280 BG/RR	1330	26.8	43.4	37.7	29.0	5.2	9.2	5.8	34.1	88	2.7
FiberMax 5024 BXN	1320	24.9	43.3	36.0	26.1	4.5	10.0	5.9	27.9	59	3.2
TTU Sphinx 9	1316	25.0	42.4	37.2	28.6	5.4	10.5	6.6	30.5	80	2.5
All-Tex Atlas RR	1302	24.6	43.6	36.2	28.2	5.3	10.3	6.2	31.5	72	3.1
FiberMax 5013	1292	23.5	40.0	36.7	27.4	4.9	9.9	6.2	29.2	66	3.0

Table 5. Cont.

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	9-25-02	Resistance
Tamcot Luxor	1275	25.4	37.6	38.1	27.8	5.5	9.8	6.7	31.2	82	2.4
NM 970513	1274	22.1	39.6	34.2	25.1	5.0	11.2	6.2	27.5	71	1.9
AFD 3511 RR	1261	24.7	44.7	35.9	27.7	5.2	10.6	6.2	30.1	80	3.1
Paymaster 2344 BG/RR	1235	23.6	42.3	34.0	26.3	5.6	12.1	6.7	28.5	69	3.0
Stoneville 3539BR	1130	23.7	36.1	38.6	29.1	4.7	9.1	6.1	29.6	79	2.6
Mean	1498	26.3	41.2	38.0	28.9	5.1	10.0	6.5	29.7	68	2.5
C.V.%	11.8	4.2	3.4	2.4	3.0	5.5	4.0	4.6	4.3	15.9	6.5
LSD 0.05	207	1.8	2.3	1.5	1.4	0.5	0.7	0.5	2.1	13	0.2

Table 5A. Results of the irrigated cotton variety test at the Donald Love Farm, Lamesa, TX, 2002.

Designation	Micro-		Uni-		Elon- gation	Leaf		Color Grade ^L	Loan Value	Gross Loan Value per Acre		
	naire	Length	formity	Strength		Rd	+b			\$	Rank	
AFD 2070	4.6	1.06	82.5	29.0	6.6	2	73.4	7.3	41-2	0.5068	821.70	18
Stoneville 5599BR	4.6	1.08	81.4	28.3	5.2	3	74.4	7.6	41-1,41-2	0.5270	935.43	6
Stoneville 4892BR	5.0	1.08	83.2	27.6	6.1	2	70.6	8.0	41-4,51-1	0.4923	1015.10	1
Deltapine 491	4.3	1.19	82.6	30.9	5.0	3	73.1	7.4	41-2	0.5420	937.09	5
Stoneville 4793R	4.9	1.06	82.8	27.8	6.7	2	73.6	7.9	41-1,41-2	0.4870	837.66	14
Stoneville 457	4.7	1.12	82.6	28.5	8.4	3	73.4	8.2	41-1,41-3	0.5348	960.94	4
Deltapine 458 B/RR	4.5	1.12	82.0	29.7	6.2	2	72.5	7.2	41-2,51-1	0.5178	877.43	8
Syngenta 2108ss	4.5	1.07	82.6	28.2	6.5	2	73.6	7.7	41-2,41-3	0.5280	968.80	3
FiberMax 989 R	4.5	1.09	82.3	30.2	5.4	2	73.9	7.4	41-2	0.5373	872.66	9
FiberMax 989 BR	4.6	1.08	81.2	28.6	5.1	3	76.2	7.0	41-1	0.5278	853.40	10
FiberMax 989	4.5	1.13	82.1	31.2	4.9	2	73.2	7.4	41-2	0.5400	894.79	7
SureGrow 215 BG/RR	4.8	1.06	82.1	25.7	7.5	3	72.1	7.9	41-2,41-4	0.5175	827.43	16
FiberMax 958	4.8	1.14	82.6	30.8	4.4	2	73.3	7.2	41-2	0.5413	972.11	2
Phytogen 98M-2983	4.8	1.09	82.6	28.1	6.5	3	73.2	7.3	41-1,51-1	0.5120	783.94	26
Syngenta 2165	4.6	1.04	81.7	27.7	6.3	1	73.8	7.8	41-1,41-3	0.4925	785.30	25
Stoneville 474	5.3	1.08	83.3	28.1	6.3	3	71.4	7.2	41-2,51-1	0.4635	684.18	43
Phytogen 355	5.1	1.10	83.5	28.3	8.1	3	71.2	7.5	41-2,51-1	0.4770	766.90	31
Syngenta NX 2429	4.9	1.11	83.9	28.9	7.1	4	68.3	7.4	51-2,51-3	0.4903	847.77	11
AFD 2424	4.3	1.06	81.5	26.7	7.2	2	75.4	7.0	41-1,41-2	0.5218	839.16	13
Deltapine 449 BG/RR	4.6	1.09	82.2	28.8	5.7	2	75.4	7.0	41-1,41-2	0.5343	846.17	12
Stoneville 5303 R	5.2	1.06	83.6	30.8	5.7	2	73.4	8.0	41-1	0.4905	782.12	27
FiberMax 5017	4.8	1.06	83.1	30.0	6.6	3	76.2	7.7	31-2,41-1	0.5310	802.74	20
Deltapine 237 B	4.8	1.08	82.9	28.0	7.8	2	74.3	7.4	41-1,41-2	0.5280	786.06	24
Stoneville 580	4.9	1.08	81.9	28.4	6.4	1	72.5	8.2	41-2,41-3	0.5070	789.09	23
AFD 2219	4.5	1.06	81.1	26.6	6.0	2	73.3	7.3	41-2	0.5125	764.63	32

Table 5A. Cont.

Designation	Micro-		Uni-		Elon-	Leaf		Color		Loan	Gross Loan Value per Acre	
	naire	Length	formity	Strength		gation	Index	Rd	+b		Grade ^L	Value
Acala w1218	4.3	1.18	83.1	31.7	5.8	5	70.9	6.3	51-1,51-2	0.4873	742.29	37
Paymaster 2200 RR	4.5	1.10	82.8	28.5	6.0	1	76.0	7.8	41-1	0.5338	804.43	19
Stoneville 2454R	4.9	1.05	82.9	28.0	6.2	3	72.2	7.2	41-2,51-1	0.4915	693.02	41
Paymaster 2167 RR	5.0	1.02	82.8	27.5	6.5	3	71.2	7.5	41-2,51-1	0.4540	685.21	42
Stoneville BXN 49B	4.6	1.08	81.9	27.1	6.1	3	70.9	8.1	41-4,51-3	0.5140	767.95	30
Deltapine 444 BG/RR	4.3	1.07	82.9	27.5	6.3	2	73.3	7.3	41-2	0.5230	764.62	33
FiberMax 832	4.3	1.16	83.2	31.2	5.2	2	76.4	6.7	41-1	0.5433	801.53	21
Tamcot Spinx	4.9	1.08	83.2	30.4	5.0	2	71.5	7.9	41-4,51-3	0.4970	710.29	39
All-Tex Atlas	4.8	1.06	83.4	28.3	6.8	3	72.7	7.6	41-2	0.5083	723.99	38
FiberMax 819	4.4	1.12	82.3	31.3	5.0	3	73.7	6.8	41-2	0.5405	742.65	36
NM 970123	4.4	1.18	84.3	34.3	4.8	3	75.1	6.6	41-2	0.5460	833.47	15
Acala 1517-95	4.4	1.14	83.4	32.3	5.3	4	71.4	7.0	41-2,51-1	0.5235	797.74	22
FiberMax 5015	4.9	1.07	83.6	30.7	7.4	2	74.4	7.6	41-1,41-2	0.5295	774.92	29
Deltapine 555 BG/RR	4.3	1.06	80.7	27.1	5.9	2	76.2	6.7	41-1,41-2	0.5133	744.73	35
TTU Hol 338	4.4	1.16	83.0	34.3	4.4	3	72.7	7.6	41-2	0.5440	825.38	17
Paymaster 2379 RR	4.9	1.04	82.8	29.0	7.1	2	74.0	7.5	41-1,41-2	0.4758	595.85	54
Acala 1517-99	4.3	1.17	83.5	31.6	5.1	2	70.4	7.5	51-1,51-3	0.5060	681.79	44
Phytogen 72 Acala	4.5	1.15	83.4	33.0	6.4	3	72.4	7.8	41-2,41-4	0.5450	775.91	28
Paymaster 2266 RR	4.5	1.07	82.1	29.5	7.6	2	74.1	7.2	41-2	0.5245	634.65	51
Paymaster 2326 RR	4.9	1.07	84.1	28.5	6.6	3	72.8	7.6	41-2	0.5080	761.48	34
Paymaster 2280 BG/RR	4.5	1.08	82.3	29.2	6.1	2	75.1	7.4	41-1,41-2	0.5325	703.17	40
FiberMax 5024 BXN	4.7	1.05	82.7	28.6	6.5	3	73.8	8.0	41-2,41-3	0.5058	665.28	46
TTU Sphinx 9	5.1	1.09	82.9	31.7	5.4	4	70.3	7.9	41-4,51-3	0.4970	664.17	47
All-Tex Atlas RR	4.7	1.04	83.2	27.9	6.3	4	70.6	7.8	41-4,51-3	0.4893	647.02	50
FiberMax 5013	4.6	1.05	82.5	27.6	6.4	4	69.3	7.7	41-4,51-4	0.4910	663.43	48

Table 5A. Cont.

Designation	Micro-		Uni-		Elon-	Leaf		Color	Loan	Gross Loan Value per Acre		
	naire	Length	formity	Strength		gation	Index			Rd	+b	Grade ^{1/}
Tamcot Luxor	4.7	1.07	83.6	28.4	6.0	3	70.5	6.9	51-1	0.4915	623.23	52
NM 970513	4.2	1.15	83.5	34.9	4.9	4	72.1	7.0	41-2,51-1	0.5233	655.98	49
AFD 3511 RR	4.5	1.08	81.3	29.2	5.7	3	71.8	8.2	41-4	0.5283	665.43	45
Paymaster 2344 BG/RR	4.7	1.08	82.5	29.9	6.5	3	70.9	7.0	41-2,51-1	0.5110	618.12	53
Stoneville 3539BR	4.8	1.01	81.6	27.8	5.9	3	73.3	7.4	41-2	0.4818	530.98	55
Mean	4.6	1.09	82.6	29.3	6.1	2	72.9	7.4		0.5130	773.60	
C.V.%	3.7	1.7	0.6	2.4	5.2	28.3	1.7	4.8		3.9	11.2	
LSD 0.05	0.3	0.03	0.9	1.2	0.5	1	2.0	0.6		0.0337	144.82	

^{1/} Fiber quality determinations are made on samples from two reps. If the color grades from these two samples are identical, only one color grade is reported. If they are different, both are reported.