

Table 5. Results of the irrigated cotton variety test at the Texas Agricultural Experiment Station, Halfway, TX, 2004.

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10-31-04	Storm Resistance
		Lint	Seed	Picked	Pulled						
Stoneville NG2448 R	1073	24.6	41.6	35.7	27.5	4.7	9.9	5.8	29.3	92	3.4
FiberMax 5045 RR	1069	26.1	43.0	37.5	29.5	5.6	10.3	6.5	32.5	68	2.9
FiberMax x2031 LL	1061	27.8	42.7	38.2	30.9	5.4	10.5	6.8	30.4	76	2.8
FiberMax 960 BR	1036	26.6	42.1	39.1	31.3	5.5	10.1	6.8	31.3	72	2.0
Deltapine 434 RR	1033	29.6	45.6	39.7	33.3	4.9	9.8	6.7	29.0	70	2.4
Stoneville x3636 B2R	1026	26.4	43.7	37.5	30.2	5.1	10.2	6.4	29.9	62	2.3
FiberMax 958 LL	1002	26.3	40.1	40.1	31.4	5.3	10.7	7.5	28.4	73	2.3
FiberMax 960 RR	990	27.6	41.4	39.2	31.1	5.0	10.8	7.3	26.5	64	2.8
Beltwide Cotton Genetics 50 R	972	25.3	46.4	35.0	27.9	5.7	11.1	6.2	32.1	86	2.9
Stoneville 4892 BR	971	27.1	38.9	41.2	32.2	4.4	10.0	7.4	24.3	73	1.9
Paymaster 2168 RR	967	25.2	43.5	36.8	29.6	5.1	10.2	6.2	30.0	81	3.4
Stoneville 4646 B2R	966	24.7	41.8	36.1	29.0	5.2	10.3	6.1	30.1	68	2.2
Stoneville 3664 R	962	27.4	43.1	38.2	30.9	4.9	10.4	6.9	27.0	84	3.5
Paymaster 145	953	24.2	46.2	34.0	28.0	5.2	11.5	6.2	28.7	86	3.4
FiberMax 5035 LL	950	22.7	46.9	34.1	25.7	4.7	10.5	5.7	28.1	90	2.4
Stoneville 5303 R	947	27.3	39.4	40.2	31.5	4.9	10.0	7.0	28.1	71	2.4
AFD 3602 RR	943	23.6	40.6	38.2	30.8	5.6	11.8	7.4	29.2	71	2.8
Stoneville 5242 BR	940	27.1	39.5	40.6	32.2	5.3	11.2	8.1	26.8	71	1.1
Beltwide Cotton Genetics 24 R	917	24.5	39.2	38.2	31.3	4.7	9.3	6.0	29.5	59	2.6
AFD 2485	914	26.2	41.6	38.7	29.3	4.8	10.1	6.6	28.1	80	2.7
Stoneville 5599 BR	903	25.6	41.5	37.8	29.7	4.8	10.0	6.3	28.8	85	1.7
Stoneville 1553 R	899	23.4	43.4	33.6	27.0	4.9	10.1	5.4	30.6	93	3.0
FiberMax 5044 RR	896	23.9	40.8	35.5	29.3	5.8	11.5	6.6	31.2	85	2.9
Beltwide Cotton Genetics 520 RR	883	22.8	44.9	33.6	26.8	5.9	11.9	6.4	31.2	77	2.8
FiberMax 958	880	24.7	38.6	38.5	30.1	4.8	10.4	6.9	26.7	62	2.7

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	10-31-04	Resistance
Deltapine 432 RR	876	24.0	40.1	37.7	29.0	3.9	8.9	5.7	26.0	83	1.6
Bronco 141	858	23.2	47.5	34.2	26.3	5.4	10.9	6.0	30.9	87	3.5
Beltwide Cotton Genetics 30 R	850	23.5	42.8	34.4	27.6	4.5	9.5	5.2	30.0	75	2.6
Stoneville 4575 BR	842	26.2	39.8	41.1	33.2	4.8	9.5	7.0	28.2	56	2.0
FiberMax 989 RR	828	23.0	36.0	40.2	32.1	5.0	9.5	6.7	29.8	51	2.5
Stoneville 4793 R	824	25.8	37.1	39.5	30.6	4.3	10.3	7.1	24.0	75	1.7
AFD 3511 RR	809	22.8	49.3	31.0	25.3	5.5	11.4	5.3	32.1	82	3.3
Stoneville 4686 R	795	23.4	38.4	38.3	31.3	4.9	9.9	6.4	29.1	60	1.9
FiberMax 819 RR	793	25.6	37.6	41.8	32.7	4.0	8.7	6.6	25.1	76	0.9
Beltwide Cotton Genetics 28 R	790	23.9	40.3	36.8	29.7	4.2	9.0	5.5	28.2	81	1.7
TTU Tejas 94-6-6-4	790	23.0	43.6	35.4	27.8	5.1	10.2	5.9	30.9	83	2.8
All-Tex Warrior RR	781	22.3	41.9	34.4	27.9	4.3	8.9	5.0	29.7	77	2.4
Stoneville NG3969 R	778	21.3	39.0	36.5	28.4	4.2	9.3	5.7	27.1	66	3.4
All-Tex 306 RR	774	24.7	42.6	37.6	28.7	4.2	9.4	5.8	27.0	77	1.9
Deltapine 444 BG/RR	767	23.1	36.1	40.4	33.7	4.9	9.9	6.9	28.7	85	1.0
PhytoGen 410 R	763	25.0	40.1	38.5	30.0	3.9	9.8	6.4	23.6	78	1.3
All-Tex 304 RR	726	25.4	42.6	38.4	30.3	4.8	9.3	6.1	30.2	78	2.0
All-Tex Patriot RR	715	20.8	40.2	35.4	28.2	4.9	10.4	6.0	29.3	66	3.0
TTU Hol 1093-61	638	25.6	41.6	36.4	27.8	5.4	10.7	6.5	30.7	84	2.6
TTU Hol 338-276-6-4-1	611	20.0	38.1	35.3	25.6	6.2	12.8	7.3	30.2	56	2.8
Mean	883	24.7	41.6	37.3	29.6	4.9	10.2	6.4	28.8	79	2.4
C.V.%	9.5	4.2	4.7	2.7	3.9	6.1	5.0	6.6	5.5	14.5	13.9
LSD 0.05	98	1.8	3.2	1.7	1.9	0.5	0.9	0.7	2.6	13	0.4

Table 5A. Results of the irrigated cotton variety test at the Texas Agricultural Experiment Station, Halfway, TX, 2004.

Designation	Micro-		Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}	Loan Value	Gross Loan Value per Acre	
	naire	Length									\$	Rank
Stoneville NG2448 R	3.8	1.06	81.8	28.1	7.7	3	73.8	8.2	41-1,41-3	0.5253	563.65	2
FiberMax 5045 RR	3.7	1.03	82.0	27.7	6.6	2	72.5	9.5	41-3,32-2	0.4975	531.83	3
FiberMax x2031 LL	4.0	1.10	82.3	28.5	4.8	3	72.7	7.9	41-2,41-3	0.5358	568.48	1
FiberMax 960 BR	3.7	1.06	82.0	29.4	5.2	2	72.3	8.9	41-1,42-1	0.5113	529.71	4
Deltapine 434 RR	3.7	1.08	80.9	25.1	7.1	2	72.7	8.7	41-2,42-1	0.5050	521.66	6
Stoneville x3636 B2R	4.0	1.07	81.1	26.9	5.7	3	70.8	9.1	41-442-1,	0.5105	523.77	5
FiberMax 958 LL	4.0	1.09	82.2	29.3	4.9	3	71.9	7.3	41-2,51-1	0.5200	521.04	7
FiberMax 960 RR	3.6	1.07	80.8	28.6	4.8	3	72.9	8.6	41-1,42-1	0.5113	506.19	8
Beltwide Cotton Genetics 50 R	3.8	1.05	80.7	27.5	6.3	2	72.8	8.6	41-3,41-4	0.5138	499.41	9
Stoneville 4892 BR	4.2	1.01	81.4	25.9	7.3	2	70.7	10.1	33-2,42-1	0.4728	459.09	19
Paymaster 2168 RR	4.2	1.00	80.4	26.3	6.6	3	70.7	9.0	41-4,42-1	0.4780	462.23	17
Stoneville 4646 B2R	4.1	1.05	81.4	26.5	6.9	2	71.8	9.0	41-3	0.5133	495.85	10
Stoneville 3664 R	3.9	0.99	80.7	25.5	6.3	4	72.9	8.2	41-3	0.4825	464.16	15
Paymaster 145	3.6	1.01	80.1	26.3	5.6	4	69.5	7.5	51-1,51-3	0.4708	448.67	22
FiberMax 5035 LL	3.2	1.05	81.4	25.9	7.7	5	69.9	7.4	51-1	0.4405	418.48	29
Stoneville 5303 R	4.1	1.03	83.0	27.6	6.9	2	74.3	8.2	41-1,41-3	0.5033	476.63	13
AFD 3602 RR	3.7	1.07	81.4	28.2	5.2	2	71.8	9.5	41-3,42-1	0.5163	486.87	11
Stoneville 5242 BR	4.0	1.02	81.6	25.4	7.3	3	73.1	8.3	41-1,41-3	0.4885	459.19	18
Beltwide Cotton Genetics 24 R	4.0	1.04	81.5	26.8	7.4	2	74.3	8.6	31-4,41-3	0.5058	463.82	16
AFD 2485	3.6	1.10	81.9	29.2	4.9	3	73.2	8.2	41-1,41-3	0.5288	483.32	12
Stoneville 5599 BR	3.7	1.06	79.9	28.0	5.7	3	70.7	8.6	42-1,51-1	0.4910	443.37	25
Stoneville NG1553 R	3.2	1.09	82.4	27.9	6.6	3	75.1	7.7	41-1	0.4935	443.66	24
FiberMax 5044 RR	3.7	1.06	81.5	26.3	7.0	3	72.6	8.5	41-3	0.5118	458.57	20
Beltwide Cotton Genetics 520 RR	4.0	1.08	82.1	27.9	6.2	3	72.2	9.2	32-2,41-3	0.5278	466.05	14
FiberMax 958	3.7	1.07	80.5	29.2	4.5	2	72.2	9.4	31-4,42-1	0.5178	455.66	21

Table 5A. Cont.

Designation	Micro-		Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}	Loan Value	Gross Loan Value per Acre	
	naire	Length									\$	Rank
Deltapine 432 RR	3.6	1.06	82.0	25.1	8.3	3	70.1	9.2	41-3,42-2	0.4833	423.37	27
Bronco 141	3.2	1.06	80.6	27.8	4.9	3	70.8	8.4	41-4	0.4925	422.56	28
Beltwide Cotton Genetics 30 R	3.6	1.08	81.1	26.1	6.2	1	74.9	8.7	31-4,41-3	0.5265	447.52	23
Stoneville 4575 BR	4.0	1.05	81.7	25.9	9.4	3	68.7	11.5	33-3,43-1	0.4753	400.20	33
FiberMax 989 RR	3.6	1.06	81.5	28.5	6.0	3	73.0	8.8	41-3	0.5228	432.88	26
Stoneville 4793 R	4.4	1.01	81.8	25.8	7.0	2	69.7	10.4	33-4,41-3	0.4785	394.28	36
AFD 3511 RR	3.5	1.06	80.3	28.5	5.9	3	70.1	9.1	41-4,42-2	0.4925	398.43	34
Stoneville 4686 R	3.4	1.05	79.9	26.0	6.9	3	70.2	9.4	41-2,43-1	0.4535	360.53	41
FiberMax 819 RR	3.7	1.06	81.1	25.5	6.5	3	72.5	6.6	51-1	0.4805	381.04	39
Beltwide Cotton Genetics 28 R	3.7	1.08	80.5	26.4	5.4	3	71.9	8.7	41-3,42-1	0.5123	404.72	32
TTU Tejas 94-6-6-4	3.6	1.11	82.0	29.6	5.8	4	71.7	8.3	41-2,41-3	0.5185	409.62	31
All-Tex Warrior RR	3.6	1.07	81.2	26.9	6.2	4	72.7	7.7	41-2,41-4	0.5265	411.20	30
Stoneville NG3969 R	3.4	1.09	81.7	27.8	6.7	3	73.1	9.4	32-2,41-3	0.5113	397.79	35
All-Tex 306 RR	3.7	1.08	81.0	26.0	6.9	3	71.3	9.0	41-1,42-2	0.4965	384.29	38
Deltapine 444 BG/RR	3.2	1.08	81.7	26.8	5.8	3	71.5	8.4	41-2,42-2	0.4840	371.23	40
PhytoGen 410 R	4.0	1.08	82.3	26.8	7.5	3	69.3	8.6	41-4,51-3	0.5120	390.66	37
All-Tex 304 RR	3.8	1.05	81.3	26.9	5.5	2	69.6	10.7	33-4,42-1	0.4925	357.56	42
All-Tex Patriot RR	3.3	1.11	81.1	26.2	6.5	2	70.8	10.1	42-1	0.4820	344.63	43
TTU Hol 1093-61	3.9	1.04	80.5	26.3	5.9	3	70.9	9.1	41-3,42-2	0.4918	313.77	45
TTU Hol 338-276-6-4-1	3.5	1.19	82.0	32.6	4.4	3	72.4	9.3	32-2,41-3	0.5295	323.52	44
Mean	3.7	1.06	81.3	27.2	6.3	3	71.8	8.8		0.5010		
C.V.%	4.6	1.6	0.8	2.5	6.6	26.2	2.0	9.6		3.3		
LSD 0.05	0.3	0.03	1.1	1.1	0.7	1	2.4	1.4		0.0280		

^{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.