

Table 27. Results of the dryland regional cotton variety test at the AG-CARES Farm, Lamesa, TX, 2005.

Designation	Yield	Agronomic Properties								% Open Bolls 10-16-05	Storm Resistance
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll		
		Lint	Seed	Picked	Pulled						
Deltapine 445 BG/RR	608	31.1	39.1	43.7	32.2	4.0	7.8	6.1	28.1	57	2.7
Deltapine 555 BR	548	33.0	39.6	43.3	34.0	3.7	6.5	5.7	28.6	63	2.8
Stoneville 4892 BR	539	31.9	42.9	40.3	30.6	4.3	8.7	6.4	26.6	66	2.8
Stoneville 5599 BR	526	30.2	41.1	41.9	32.6	4.4	9.1	6.8	27.2	57	2.8
PhytoGen 470 WR	525	30.5	41.8	40.9	30.0	3.5	8.3	6.0	23.7	74	2.8
Deltapine 454 BG/RR	507	33.3	39.9	43.4	32.6	3.3	6.9	5.5	25.8	73	2.2
FiberMax 960 B2R	503	32.3	45.5	39.0	29.2	4.0	8.6	5.9	26.3	48	2.9
Deltapine 455 BG/RR	494	31.1	40.0	43.8	33.0	3.6	7.2	5.6	28.1	62	2.8
Stoneville 5242 BR	491	30.9	44.5	43.3	32.2	4.3	9.0	7.2	26.3	64	2.4
Deltapine 488 BG/RR	461	30.3	42.4	41.2	31.3	4.3	7.6	5.6	31.3	71	2.8
PhytoGen 480 WR	457	28.5	42.8	38.8	29.0	3.6	8.1	5.4	25.7	76	2.6
Stoneville 6636 BR	452	28.1	44.3	39.8	29.4	3.7	8.0	5.5	26.9	56	2.3
PhytoGen 440 W	439	27.8	38.4	40.6	29.4	3.5	8.3	6.1	23.3	73	2.6
FiberMax 960 RR	414	29.7	42.9	41.0	30.8	4.7	9.3	6.7	28.7	55	3.2
All-Tex Magnum RR	412	30.2	41.9	40.0	30.9	3.7	7.8	5.5	27.2	69	3.0
PhytoGen 370 WR	410	27.8	38.3	40.6	29.9	4.2	8.1	5.9	28.8	53	2.8
Stoneville 5303 R	410	30.4	40.5	41.2	30.3	4.1	8.3	6.0	28.1	56	2.9
AFD 3602 RR	368	28.4	44.8	38.2	28.3	5.4	9.9	6.4	32.3	65	3.0
Beltwide Cotton Genetics 24R	364	28.8	41.6	40.1	28.9	3.8	7.6	5.4	28.0	40	3.1
Deltapine 434 RR	364	28.5	39.7	41.7	30.2	4.1	8.4	6.1	27.7	43	3.0
Deltapine 494 RR	356	31.9	42.2	41.8	31.1	4.1	7.8	6.0	28.4	62	2.8
FiberMax 958	347	29.8	41.1	41.3	29.9	4.2	8.5	6.3	27.4	55	3.0
Stoneville NG2448 R	344	28.3	45.0	38.0	26.7	4.1	9.5	6.0	25.4	62	3.1
All-Tex Warrior RR	338	26.0	43.1	34.5	25.0	3.7	8.4	4.7	27.0	57	3.0
PhytoGen 310 R	330	29.0	38.2	41.6	30.8	4.0	8.3	6.3	26.5	68	2.6

Table 27 Cont

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Bolls	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	10-18-05	Resistance
Stoneville 3664 R	330	29.1	42.7	40.4	30.7	3.9	9.0	6.4	24.4	53	3.2
All-Tex Excess RR	329	26.1	45.3	36.6	27.3	3.9	10.1	6.1	23.5	58	3.1
Stoneville 4686 R	327	29.8	40.7	40.7	30.9	4.1	8.6	6.2	26.5	45	2.5
FiberMax 989 RR	325	30.7	42.8	40.5	29.5	4.2	8.7	6.2	27.3	26	2.8
PhytoGen 410 R	323	27.6	39.8	39.1	28.4	3.7	8.5	5.9	24.5	54	2.5
FiberMax 958 LL	304	28.0	40.1	39.6	28.3	4.0	8.8	6.1	26.2	50	2.9
FiberMax 966 LL	304	27.9	40.0	39.7	29.0	4.9	9.5	6.6	29.4	54	2.9
Paymaster 2266RR	298	26.8	44.2	35.1	25.7	4.3	10.1	5.9	25.9	51	3.1
Stoneville 6848 R	296	27.9	43.6	37.9	27.2	3.7	8.1	5.2	26.4	25	2.5
AFD 3511 RR	294	24.9	44.6	34.4	25.8	4.2	10.3	5.8	24.8	59	3.1
FiberMax 5044 RR	293	27.9	44.5	36.9	27.7	4.1	10.1	6.2	24.6	62	3.2
Stoneville NG3969 R	293	26.3	43.4	37.4	26.5	3.3	7.9	5.0	25.0	57	3.0
All-Tex Top-Pick	292	25.2	39.1	37.4	27.1	4.8	8.6	5.4	33.5	54	2.8
All-Tex Atlas RR	280	26.3	44.3	36.9	25.8	3.7	9.9	6.1	22.3	53	3.2
Stoneville NG1553 R	280	25.5	44.0	37.5	29.2	4.1	9.3	5.9	26.1	72	2.9
Paymaster 2167 RR	270	26.9	42.7	39.5	29.6	4.0	7.4	6.3	26.9	60	3.2
PhytoGen 72	260	26.6	38.5	37.9	26.3	3.5	8.2	5.4	24.7	78	2.1
Paymaster 2326 RR	259	26.7	43.4	36.8	26.8	4.1	9.4	5.8	26.2	53	3.2
FiberMax 981 LL	248	26.6	41.0	38.4	27.2	4.1	8.9	5.9	26.8	22	2.8
All-Tex Atlas	194	25.7	40.4	35.7	24.2	3.4	9.3	5.5	21.8	66	3.0
Mean	373	28.6	41.9	39.5	29.1	4.0	8.6	5.9	26.7	57	2.8
C.V.%	21.5	6.0	6.4	2.0	3.9	10.7	6.5	9.3	13.1	31.2	4.1
LSD 0.05	94	2.9	4.5	1.2	1.9	0.7	0.9	0.9	5.9	21	0.1

Table 27A. Results of the dryland regional cotton variety test at the AG-CARES Farm, Lamesa, TX, 2005.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}	Loan Value	Gross Loan Value per Acre	
											\$	Rank
Deltapine 445 BG/RR	4.0	1.07	80.4	27.5	7.9	2	78.7	7.4	31-2	0.5523	335.80	1
Deltapine 555 BR	3.8	1.00	76.4	24.0	5.0	1	79.7	7.1	31-1,31-2	0.4813	263.75	3
Stoneville 4892 BR	4.2	1.01	79.1	25.1	6.0	2	75.2	8.3	31-4,41-1	0.4868	262.39	4
Stoneville 5599 BR	4.0	1.02	78.5	24.7	4.6	2	76.9	7.9	31-2	0.4938	259.74	5
PhytoGen 470 WR	3.9	1.04	80.5	26.5	7.2	2	76.7	7.9	31-2	0.5308	278.67	2
Deltapine 454 BG/RR	3.6	0.99	78.4	23.7	5.7	2	77.3	6.8	41-1	0.4630	234.74	11
FiberMax 960 B2R	3.7	1.03	79.2	25.2	4.3	1	79.6	7.2	31-1,31-2	0.4993	251.15	7
Deltapine 455 BG/RR	3.8	1.04	79.3	26.6	5.3	2	79.0	8.3	21-2,31-1	0.5188	256.29	6
Stoneville 5242 BR	3.9	1.02	80.2	24.2	6.7	1	76.5	7.8	31-2,41-1	0.4883	239.76	10
Deltapine 488 BG/RR	3.8	1.02	79.1	25.2	5.6	1	79.9	7.4	31-1	0.5045	232.57	12
PhytoGen 480 WR	3.9	1.06	81.0	26.6	7.1	1	76.7	7.8	31-2,41-1	0.5300	242.21	9
Stoneville 6636 BR	3.9	1.08	81.3	27.1	5.0	2	76.8	7.7	31-2,41-1	0.5463	246.93	8
PhytoGen 440 W	3.9	1.06	80.8	25.8	7.0	2	76.7	7.5	41-1	0.5183	227.53	13
FiberMax 960 RR	3.6	1.06	79.5	27.2	3.8	1	80.2	7.6	21-2,31-1	0.5275	218.38	14
All-Tex Magnum RR	4.1	1.05	79.5	26.5	6.9	1	78.6	7.7	31-1,31-2	0.5288	217.87	15
PhytoGen 370 WR	3.8	1.01	80.3	25.9	6.4	2	78.5	7.4	31-1,31-2	0.4998	204.92	16
Stoneville 5303 R	4.4	1.01	81.0	26.6	5.4	1	76.2	8.3	31-2	0.4985	204.38	17
AFD 3602 RR	3.8	1.05	79.0	27.4	5.4	2	79.8	7.4	31-1	0.5228	192.39	18
Beltwide Cotton Genetics 24R	4.2	1.02	80.2	25.4	6.6	1	78.4	7.8	31-1	0.5048	183.75	21
Deltapine 434 RR	4.0	1.06	80.1	25.7	6.8	2	80.2	7.5	31-1	0.5253	191.21	20
Deltapine 494 RR	4.3	1.06	80.1	27.1	6.1	1	78.1	8.1	31-1	0.5395	192.06	19
FiberMax 958	4.1	1.01	78.1	24.8	4.5	1	78.9	8.0	31-1	0.4920	170.72	24
Stoneville NG2448 R	3.9	1.05	81.3	28.1	6.3	2	76.9	8.2	31-2	0.5295	182.15	22
All-Tex Warrior RR	3.6	1.06	78.1	27.0	5.8	2	77.6	7.7	31-2	0.5378	181.78	23
PhytoGen 310 R	4.3	1.02	81.2	26.0	6.3	2	76.8	7.6	31-2,41-1	0.5110	168.63	26

Table 27A. Cont.

Designation	Micro- naire	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}	Loan Value	Gross Loan Value per Acre	
											\$	Rank
Stoneville 3664 R	3.9	0.99	79.7	26.2	6.3	2	78.0	8.2	31-1,31-2	0.4983	164.44	31
All-Tex Excess RR	3.8	1.03	81.0	27.1	6.6	2	77.2	7.4	31-2,41-1	0.5023	165.26	29
Stoneville 4686 R	4.1	1.03	80.6	27.4	7.8	2	76.1	7.9	31-2,41-1	0.5133	167.85	28
FiberMax 989 RR	3.6	1.04	80.3	27.8	4.7	1	79.1	7.5	31-1	0.5183	168.45	27
PhytoGen 410 R	3.9	1.05	81.7	26.7	6.7	1	76.3	7.9	31-2,41-1	0.5235	169.09	25
FiberMax 958 LL	4.3	1.06	81.1	28.7	4.8	2	78.5	7.4	31-2	0.5420	164.77	30
FiberMax 966 LL	3.8	1.05	79.8	28.0	3.7	2	76.8	7.5	31-2,41-1	0.5215	158.54	34
Paymaster 2266RR	4.0	1.00	80.0	26.4	6.8	2	75.8	8.1	31-2,41-1	0.4953	147.60	38
Stoneville 6848 R	4.2	1.08	82.2	29.3	4.8	2	76.6	7.6	31-2,41-1	0.5413	160.22	32
AFD 3511 RR	4.2	1.03	79.7	26.6	5.9	1	75.4	8.4	31-4,41-1	0.5028	147.82	37
FiberMax 5044 RR	3.4	1.04	80.3	25.7	7.5	1	77.6	8.1	31-1,31-2	0.5048	147.91	36
Stoneville NG3969 R	3.4	1.05	80.4	27.3	6.2	1	77.9	7.9	31-1,31-2	0.5073	148.64	35
All-Tex Top-Pick	3.9	1.07	79.2	27.0	6.4	2	78.7	7.5	31-1,41-1	0.5430	158.56	33
All-Tex Atlas RR	3.9	1.00	79.7	25.5	6.2	2	76.5	8.2	31-2,31-4	0.4938	138.26	41
Stoneville NG1553 R	3.3	1.08	79.9	26.3	6.3	2	76.8	7.7	31-2,41-1	0.5130	143.64	39
Paymaster 2167 RR	4.4	0.97	80.2	25.1	6.6	2	76.5	7.9	31-2	0.4873	131.57	42
PhytoGen 72	3.9	1.07	80.8	28.3	5.8	2	76.8	7.8	31-2,41-1	0.5413	140.74	40
Paymaster 2326 RR	4.2	0.99	79.5	26.7	5.9	2	77.1	7.7	31-2,41-1	0.4930	127.69	43
FiberMax 981 LL	3.6	1.03	78.4	26.3	4.9	2	78.8	7.3	31-2	0.5138	127.42	44
All-Tex Atlas	4.2	1.03	79.7	27.7	6.2	2	77.6	7.5	31-2	0.5070	98.36	45
Mean	3.9	1.03	79.9	26.4	5.9	1	77.6	7.7		0.5130		
C.V. %	4.8	1.7	0.9	3.0	4.7	37.1	1.1	3.2		2.6		
LSD 0.05	0.3	0.03	1.2	1.3	0.5	1	1.5	0.4		0.0221		

^{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.