

Table 36. Results of the drip irrigated Roundup Ready Flex test at the AG-CARES Farm, Lamesa, TX, 2005.

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10-16-05	Storm Resistance
		Lint	Seed	Picked	Pulled						
Beltwide Cotton Genetics 4630 B2RF	2006	27.3	45.4	37.9	28.4	5.0	9.5	6.1	30.9	80	2.5
Beltwide Cotton Genetics 4630 B2RF (Tested as X-9124)	1888	25.1	43.0	36.6	27.5	5.1	10.0	6.0	31.2	75	2.5
Beltwide Cotton Genetics X-1004	1873	26.5	46.2	36.1	26.0	4.1	8.7	5.2	28.4	81	2.5
All-Tex Apex B2RF (Tested as 55033 B2/RF)	1859	26.9	44.8	37.9	28.7	5.1	9.2	5.8	33.0	74	2.6
Dyna-Gro 2100 B2RF	1830	27.1	43.2	37.3	27.9	5.2	9.7	6.3	31.3	78	2.5
Beltwide Cotton Genetics X-4021	1794	25.5	47.5	35.6	25.4	4.7	9.6	5.5	29.7	76	2.6
Croplan Genetics 4020 B2RF	1762	25.5	44.9	38.3	27.8	4.6	9.2	5.9	30.2	74	2.5
Stoneville 5599 BR	1702	28.0	45.3	38.8	29.9	5.1	9.8	6.4	30.8	73	2.5
Beltwide Cotton Genetics X-8391	1692	23.5	47.1	34.2	24.5	4.6	10.1	5.5	28.3	73	2.3
Deltapine 494 RR	1689	29.5	45.0	39.7	30.7	5.4	9.5	6.5	32.5	55	2.8
Deltapine 143 B2RF (Tested as x04X419DF)	1686	28.6	44.5	39.4	30.4	4.9	8.7	5.9	32.3	60	2.6
Croplan Genetics 3520 B2RF	1685	25.7	46.2	36.2	26.5	4.1	9.4	5.8	25.8	79	2.6
Stoneville 4554 B2RF	1680	27.2	45.0	38.7	28.7	4.9	9.4	6.2	30.6	68	2.4
Stoneville 4357 B2RF (Tested as x0509 B2F)	1671	25.4	44.0	36.8	26.9	4.9	9.2	5.7	32.3	73	2.5
Deltapine 444 BG/RR	1664	26.7	40.1	38.6	29.9	4.9	9.7	6.4	29.5	67	2.2
AFD 5819 B2RF	1663	24.9	44.6	35.9	26.0	4.7	9.0	5.2	32.5	77	2.7
Beltwide Cotton Genetics 3255 B2RF (Tested as X-4575)	1659	23.9	44.3	35.4	27.0	5.4	9.8	5.6	34.0	77	2.6
Stoneville 4664 RF	1656	28.2	44.3	41.2	30.2	5.1	9.5	6.8	31.0	49	2.5
Dyna-Gro 2520 B2RF	1653	26.1	44.9	37.1	28.0	4.8	9.2	5.6	31.5	69	2.6
Dyna-Gro 2242 B2RF	1634	25.2	43.5	37.1	27.0	4.2	9.0	5.6	27.6	77	2.5
Deltapine 555 BG/RR	1605	29.6	42.4	40.1	31.9	4.7	7.8	5.5	34.3	58	2.6
PhytoGen 485 WRF	1602	26.1	45.0	38.2	27.2	3.8	8.5	5.5	26.6	66	2.5
AFD 5820 B2RF	1596	24.2	45.9	36.3	26.1	4.7	9.5	5.6	30.4	82	2.6
Croplan Genetics 3020 B2RF	1584	24.2	42.9	36.2	26.9	5.3	10.0	6.0	32.1	75	2.6
All-Tex 55066 B2/RF	1583	24.8	44.7	36.2	27.6	4.5	9.5	5.6	28.6	70	2.5

Table 36. Cont

Designation	Yield	Agronomic Properties								% Open	
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll	Bolls 10-18-05	Storm Resistance
		Lint	Seed	Picked	Pulled						
FiberMax 958	1559	26.9	43.3	38.5	28.7	4.9	10.2	6.6	28.8	74	3.0
Beltwide Cotton Genetics X-0105	1552	25.5	48.5	34.9	26.4	5.4	9.5	5.3	35.6	70	2.8
Stoneville 6611 B2RF	1543	25.9	45.7	34.9	27.3	4.8	8.9	5.0	33.3	61	2.5
Stoneville x0414 B2RF	1542	25.7	46.0	34.4	26.0	4.6	9.0	4.9	31.9	68	2.4
Deltapine 164 B2RF (Tested as x04T126DF)	1538	26.1	44.7	36.6	27.2	4.8	8.5	5.2	34.8	60	2.7
Deltapine 117 B2RF (Tested as x04Z600DF)	1536	25.5	43.3	38.2	27.9	4.5	8.7	5.7	30.2	75	2.8
PhytoGen 415 RF	1535	26.3	43.2	38.8	27.8	4.2	9.4	6.2	26.5	74	2.4
Deltapine 113 B2RF (Tested as x04Z503DF)	1532	24.6	42.6	36.9	27.9	5.3	10.1	6.2	31.2	79	2.8
Deltapine 147 RF (Tested as x04X462F)	1530	26.6	44.8	37.4	27.2	5.0	9.4	5.9	31.5	68	2.7
Beltwide Cotton Genetics X-0405	1507	24.8	45.0	33.3	24.0	5.8	11.7	6.1	31.6	63	2.7
All-Tex 55055 B2/RF	1502	23.7	46.2	32.4	23.5	4.7	9.7	4.9	31.2	72	2.5
Beltwide Cotton Genetics X-1505	1497	24.8	45.6	36.8	27.4	5.8	10.8	6.5	32.9	67	2.9
PhytoGen 475 WRF	1489	25.5	42.5	36.9	27.2	4.7	9.2	5.7	29.9	77	2.5
Stoneville 5007 B2RF (Tested as x0510 B2F)	1488	23.7	47.7	31.0	21.9	4.8	9.7	4.6	31.8	76	2.5
All-Tex 45039 B2/RF	1472	24.9	51.8	30.6	23.2	4.7	9.4	4.4	32.5	75	3.2
Deltapine 432 RR	1467	24.4	42.2	36.9	26.6	4.7	9.1	5.6	30.2	68	2.7
FiberMax 5017	1467	25.0	43.1	35.3	25.5	6.2	12.0	6.9	31.7	58	3.0
Deltapine 152 RF (Tested as x04X495F)	1464	26.8	46.2	33.4	25.2	5.0	9.6	5.2	32.2	69	2.7
Dyna-Gro 2215 B2RF	1445	23.0	44.2	36.1	25.4	4.3	8.9	5.2	29.8	75	2.6
Deltapine 108 RF (Tested as x04Z602F)	1436	25.5	40.7	37.7	28.6	5.1	9.2	6.0	31.9	63	2.7
Stoneville NG2448R	1424	23.6	43.0	36.6	25.8	4.5	10.2	6.1	27.1	66	3.1
Concho 287	1422	24.6	47.8	33.9	24.7	5.8	10.3	5.3	34.5	65	3.1
Stoneville 474	1420	26.8	41.9	41.0	29.5	4.6	9.1	6.5	29.0	56	2.7
Stoneville x5885 B2RF	1411	23.7	44.4	34.2	24.5	4.0	8.3	4.6	29.9	61	2.7
Stoneville 6622 RF	1385	25.9	44.8	38.7	28.0	4.6	8.9	5.7	31.0	60	2.4

Table 36. Cont

Designation	Yield	Agronomic Properties								% Open Bolls 10-18-05	Storm Resistance
		% Turnout		% Lint		Boll Size	Seed Index	Lint Index	Seed Per Boll		
		Lint	Seed	Picked	Pulled						
Stoneville NG3550 RF	1380	24.4	46.2	36.4	27.4	5.3	10.2	6.1	31.7	67	2.9
Deltapine 110 RF (Tested as x04Z603F)	1377	25.3	40.7	39.7	27.8	4.9	9.0	6.3	31.1	54	2.8
All-Tex Atlas	1327	23.8	46.3	34.3	24.7	5.8	11.8	6.5	30.8	71	3.1
PhytoGen 425 RF	1318	23.7	42.4	36.9	28.0	4.9	9.6	6.0	30.6	63	2.6
Deltapine 156 B2RF (Tested as x04X436DF)	1315	24.1	45.6	35.0	27.3	5.0	9.0	5.0	34.6	68	2.8
Beltwide Cotton Genetics X-0205	1295	23.4	44.4	34.1	25.3	5.5	10.6	5.7	33.2	64	2.8
Deltapine 167 RF (Tested as x04T159F)	1282	23.8	44.8	35.2	26.1	5.0	9.3	5.4	32.6	51	2.7
PhytoGen 125 RF	1241	22.8	46.1	33.3	23.8	5.6	10.4	5.5	33.8	51	3.0
FiberMax 5013	1164	23.9	44.0	34.3	24.6	4.6	10.1	5.7	27.6	57	3.1
All-Tex 45041 RF	1150	23.5	43.2	34.6	24.7	6.1	11.4	6.4	32.9	55	3.0
Mean	1545	25.4	44.6	36.4	26.9	4.9	9.6	5.7	31.1	68	2.7
C.V.%	8.7	6.8	4.8	3.1	5.5	10.1	5.8	6.8	8.6	14.2	4.6
LSD 0.05	158	2.9	3.6	1.9	2.5	0.8	0.9	0.7	4.5	11	0.1

Table 36A. Results of the irrigated Roundup Ready Flex test at the AG-CARES Farm, Lamesa, TX, 2005

Designation	Micro-		Uni-		Elon- gation	Leaf Index		Rd	+b	Color Grade ^{1/}	Loan Value	Gross Loan Value per Acre	
	naire Length		formity Strength									\$	Rank
Beltwide Cotton Genetics 4630 B2RF	3.3	1.14	80.1	25.5	8.1	2	75.5	7.5	41-1	0.5188	1040.71	1	
Beltwide Cotton Genetics 4630 B2RF (Tested as X-9124)	3.0	1.14	79.4	25.2	7.2	2	77.6	7.7	31-1,31-2	0.5055	954.38	3	
Beltwide Cotton Genetics X-1004	3.3	1.14	79.9	25.4	8.1	3	75.0	7.1	41-1,41-2	0.5120	958.98	2	
All-Tex Apex B2RF (Tested as 55033 B2/RF)	3.2	1.15	79.4	25.5	7.0	2	77.3	7.3	31-2,41-1	0.5123	952.37	4	
Dyna-Gro 2100 B2RF	3.2	1.10	80.5	24.7	8.2	2	78.3	7.5	31-1,31-2	0.5120	936.96	5	
Beltwide Cotton Genetics X-4021	3.1	1.13	80.0	24.4	7.8	2	78.1	7.2	31-2,41-1	0.4930	884.44	12	
Croplan Genetics 4020 B2RF	3.0	1.15	79.3	24.7	7.1	3	78.0	7.4	31-2	0.5168	910.60	8	
Stoneville 5599 BR	3.6	1.09	80.3	26.6	6.4	3	75.3	8.0	31-2,41-1	0.5305	902.91	9	
Beltwide Cotton Genetics X-8391	3.1	1.18	81.4	26.8	7.7	3	77.0	7.0	41-1	0.5068	857.51	15	
Deltapine 494 RR	3.6	1.14	81.4	29.2	6.5	3	76.9	7.8	31-1,41-1	0.5518	931.99	6	
Deltapine 143 B2RF (Tested as x04X419DF)	3.4	1.11	81.2	26.7	6.3	2	77.6	7.3	31-2,41-1	0.5350	902.01	10	
Croplan Genetics 3520 B2RF	3.1	1.13	80.4	24.4	8.0	4	76.7	7.2	31-2,41-1	0.4965	836.60	19	
Stoneville 4554 B2RF	3.2	1.12	80.6	27.1	9.4	2	76.2	7.9	31-2,41-1	0.5240	880.32	13	
Stoneville 4357 B2RF (Tested as x0509 B2F)	3.2	1.15	79.6	24.5	7.3	2	78.1	7.5	31-1,41-1	0.5150	860.56	14	
Deltapine 444 BG/RR	3.2	1.11	79.8	26.4	7.2	2	77.5	7.6	31-2	0.5345	889.41	11	
AFD 5819 B2RF	3.0	1.10	80.3	24.4	7.5	2	78.3	7.2	31-2	0.4975	827.34	21	
Beltwide Cotton Genetics 3255 B2RF (Tested as X-4575)	3.0	1.10	80.8	24.7	8.2	2	77.5	7.6	31-2	0.4985	827.01	23	
Stoneville 4664 RF	3.8	1.13	82.0	26.1	10.5	3	74.6	8.3	31-2,41-3	0.5520	914.11	7	
Dyna-Gro 2520 B2RF	3.3	1.16	79.7	24.5	7.9	3	76.4	7.8	31-2,41-1	0.5145	850.47	17	
Dyna-Gro 2242 B2RF	3.0	1.13	80.3	24.3	8.6	3	76.0	7.2	41-1	0.4795	783.50	35	
Deltapine 555 BG/RR	3.3	1.10	79.7	27.0	5.8	2	78.9	6.9	31-2,41-1	0.5235	840.22	18	
PhytoGen 485 WRF	3.5	1.12	81.5	27.0	8.2	5	73.6	7.8	41-1,41-2	0.5115	819.42	25	
AFD 5820 B2RF	2.7	1.09	79.4	24.1	8.0	2	78.6	7.3	31-2	0.4588	732.24	47	
Croplan Genetics 3020 B2RF	2.9	1.10	80.6	23.9	8.2	2	77.8	7.5	31-2	0.4965	786.46	34	
All-Tex 55066 B2/RF	2.9	1.12	78.8	25.1	7.8	3	76.0	7.2	41-1,41-2	0.4755	752.72	42	

Table 36A. Cont.

Designation	Micro-	Uni-	Elon-	Leaf	Color	Loan	Gross Loan Value per Acre					
	naire	Length	formity	Strength			gation	Index	Rd	+b	Grade ^{1/}	Value
FiberMax 958	3.7	1.17	81.8	29.1	5.4	2	76.5	7.7	31-2,41-1	0.5483	854.80	16
Beltwide Cotton Genetics X-0105	3.1	1.14	80.2	27.1	6.2	3	77.6	7.5	31-2	0.5305	823.34	24
Stoneville 6611 B2RF	3.2	1.13	80.0	27.9	6.1	2	77.9	7.5	31-2	0.5300	817.79	27
Stoneville x0414 B2RF	3.1	1.16	81.3	27.9	6.2	2	79.2	7.6	31-1,31-2	0.5185	799.53	30
Deltapine 164 B2RF (Tested as x04T126DF)	3.1	1.15	79.1	28.1	6.2	2	78.4	7.4	31-2	0.5310	816.68	28
Deltapine 117 B2RF (Tested as x04Z600DF)	3.2	1.15	79.8	29.4	5.6	5	71.9	6.9	51-1	0.4473	687.05	53
PhytoGen 415 RF	3.8	1.09	81.9	25.9	8.5	3	74.2	7.9	41-1	0.5330	818.16	26
Deltapine 113 B2RF (Tested as x04Z503DF)	2.8	1.11	79.9	28.1	5.4	4	73.9	7.4	41-2	0.4710	721.57	50
Deltapine 147 RF (Tested as x04X462F)	3.2	1.15	79.4	26.5	5.7	3	78.4	7.3	31-2	0.5285	808.60	29
Beltwide Cotton Genetics X-0405	3.4	1.17	81.5	27.6	6.8	4	73.9	7.4	41-1,51-1	0.5013	755.46	39
All-Tex 55055 B2/RF	2.9	1.18	80.5	25.1	7.5	3	76.6	6.9	41-1	0.4813	722.91	48
Beltwide Cotton Genetics X-1505	3.6	1.13	82.0	27.9	6.3	2	76.9	7.7	31-2,41-1	0.5555	831.58	20
PhytoGen 475 WRF	3.3	1.11	82.3	26.5	8.5	3	74.6	7.8	41-1	0.5150	766.84	37
Stoneville 5007 B2RF (Tested as x0510 B2F)	3.0	1.19	80.3	26.1	7.6	3	77.3	6.9	41-1	0.4923	732.54	45
All-Tex 45039 B2/RF	3.3	1.11	81.2	25.8	7.1	3	76.8	7.2	41-1	0.5090	749.25	43
Deltapine 432 RR	3.7	1.09	82.2	26.9	8.8	3	75.4	8.1	31-2,41-1	0.5415	794.38	31
FiberMax 5017	4.1	1.08	82.1	29.4	7.9	2	76.9	8.0	31-2	0.5638	827.09	22
Deltapine 152 RF (Tested as x04X495F)	3.3	1.13	79.7	27.2	6.2	2	79.5	7.1	31-1,31-2	0.5405	791.29	32
Dyna-Gro 2215 B2RF	2.8	1.13	79.5	24.3	7.9	3	78.0	7.1	31-2,41-1	0.4738	684.64	54
Deltapine 108 RF (Tested as x04Z602F)	3.3	1.10	79.6	27.5	6.1	4	73.0	7.2	41-2	0.5025	721.59	49
Stoneville NG2448R	3.6	1.13	82.3	28.5	7.2	3	75.6	7.8	41-1	0.5323	758.00	38
Concho 287	3.9	1.08	82.6	27.8	7.8	3	75.6	7.7	41-1	0.5420	770.72	36
Stoneville 474	3.8	1.08	81.0	25.7	7.0	3	75.2	8.4	31-2,31-4	0.5565	790.23	33
Stoneville x5885 B2RF	3.2	1.17	80.0	27.4	7.8	2	77.8	7.8	31-1,31-2	0.5340	753.47	40
Stoneville 6622 RF	3.5	1.15	82.1	27.9	6.1	3	74.9	7.8	41-1	0.5440	753.44	41

Table 36A. Cont.

Micro-	Uni-	Elon-	Leaf	Color	Loan	Gross Loan Value per Acre
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Designation	naire	Length	formity	Strength	gation	Index	Rd	+b	Grade ^{1/}	Value	\$	Rank
Stoneville NG3550 RF	3.6	1.12	81.1	27.1	7.4	3	76.0	7.7	41-1	0.5318	733.88	44
Deltapine 110 RF (Tested as x04Z603F)	3.4	1.16	82.4	31.0	7.7	4	72.1	7.6	41-2	0.5318	732.29	46
All-Tex Atlas	3.8	1.09	82.3	28.2	7.8	3	76.1	7.6	41-1	0.5408	717.64	52
PhytoGen 425 RF	3.7	1.13	82.1	26.7	9.2	3	74.0	8.3	41-3	0.5463	720.02	51
Deltapine 156 B2RF (Tested as x04X436DF)	2.8	1.13	78.5	26.3	5.9	2	79.7	6.8	31-2	0.4985	655.53	56
Beltwide Cotton Genetics X-0205	3.0	1.15	80.9	28.1	5.3	3	78.1	6.8	31-2,41-1	0.5040	652.68	58
Deltapine 167 RF (Tested as x04T159F)	3.2	1.17	80.2	28.1	6.2	2	77.1	7.4	31-2,41-1	0.5208	667.67	55
PhytoGen 125 RF	3.5	1.12	82.8	28.3	8.1	4	75.4	7.3	41-1	0.5278	655.00	57
FiberMax 5013	4.0	1.08	82.1	28.5	7.7	3	75.0	7.0	41-1,41-2	0.5365	624.49	59
All-Tex 45041 RF	3.6	1.10	82.7	28.6	7.4	5	72.4	7.1	41-2,51-1	0.5093	585.70	60
Mean	3.3	1.13	80.7	26.6	7.3	3	76.4	7.5		0.5170		
C.V.%	5.0	1.6	0.7	2.5	6.3	23.7	1.2	3.2		3.1		
LSD 0.05	0.3	0.03	1.0	1.1	0.8	1	1.6	0.4		0.0267		

^{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.