



**Replicated Dryland Cotton Systems Variety Demonstration,
Plains, TX - 2005**

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Summary:

Significant differences were noted for most characteristics measured (Tables 1 and 2). Lint turnout ranged from a low of 29.4% (AFD 3511R) to a high of 37.2% (Deltapine 445BG/RR). Lint yields varied from a low of 564 lb/acre (FM 989) to a high of 797 lb/acre (Deltapine 445BG/RR). Lint loan values varied from a low of \$0.5140/lb (FiberMax 960RR) to a high of \$0.5663/lb (Deltapine 393). After adding lint and seed value, total value/acre for varieties ranged from a low of \$339.69 (FM 989) to a high of \$486.77 (Deltapine 445BG/RR). When subtracting ginning and systems costs, the net value/acre among varieties ranged from a high of \$390.28 (Beltwide Cotton Genetics 295) to a low of \$277.78, (FM 989) a difference of \$112.50. Micronaire ranged from a low of 3.1 units (FiberMax 960RR and FiberMax 989) to a high of 3.8 units (Deltapine 393, FiberMax 958, Deltapine 432RR, All-Tex Atlas and Paymaster 2266RR). Staple ranged from a low of 33.1 (Americot 262R) to a high of 35.9 (All-Tex Toppick). These data indicate that substantial differences can be obtained in terms of net value/acre due to variety and technology selection.

Objective:

The objective of this project was to compare yields, gin turnout, fiber quality, and economics of conventional and transgenic varieties in under dryland production systems.

Materials and Methods:

Varieties:	AFD 3602R, AFD 3511R, All-Tex Magnum RR, All-Tex Patriot RR, All-Tex Warrior RR, All-Tex Atlas, All-Tex Toppick, Americot 262R, Americot 821R, Americot 8120, Beltwide Cotton Genetics 24R, Beltwide Cotton Genetics 245, Beltwide Cotton Genetics 295, Deltapine 432RR, Deltapine 434RR, Deltapine 445BG/RR, Deltapine 488BG/RR, Deltapine 494RR, Deltapine 393, FiberMax 960B2R, FiberMax 960RR, FiberMax 989B2R, FiberMax 989RR, FiberMax 958, FiberMax 989, Paymaster 2266RR, Paymaster 2280BG/RR, Stoneville 55599BR, Stoneville NexGen 2448R, and Stoneville NexGen 3969R
Experimental design:	Randomized complete block with 3 replications
Seeding rate:	3.3 seed per row-ft in 40-inch row spacings (John Deere Max Emerge vacuum planter)
Plot size:	6 rows by 1355 ft long
Planting date:	8-June
Weed management:	Trifluralin was applied preplant incorporated at 1 pt/acre across all varieties on 15-March. A banded application of trifluralin at 4.0 oz/acre and prometryn at 6.0 oz/acre was made at planting. Roundup Original MAX herbicide was applied broadcast to Roundup Ready varieties on 5-July at 22 oz/acre. Conventional varieties were hoed at a cost of \$5.27/acre. All varieties were cultivated on 20-July, and 15-August.
Rainfall:	Based on the West Texas Mesonet rainfall data for Plains, amounts (in inches) were as follows: May: 4.04, June: 0.07, July: 2.04, August: 4.24, and September: 0.06. This is a total rainfall for May-September of 10.45 inches.
Insecticides:	Temik was applied at planting at 2 lbs/acre. No other insecticides were applied at this site. This location is in an active boll weevil eradication zone, but no applications were made by the Texas Boll Weevil Eradication Program.
Fertilizer management:	10-34-0 dry fertilizer was applied pre-plant at 60 lbs/acre on 15-March followed by 32-0-0 liquid fertilizer sidedressed at 100 lbs/acre on 20-July.
Harvest aids:	Prep at 1.5 pt/acre was applied on 27-October.
Harvest:	Plots were harvested on 29-December using two commercial John Deere 7455 strippers equipped with field cleaner. Harvested material was dumped into a weigh wagon with integral digital scales to determine individual plot weights. Plot yields were adjusted to lb/acre.

Gin turnout:	Grab samples were taken by plot and ginned at the Texas A&M University Research and Extension Center at Lubbock to determine gin turnouts.
Fiber analysis:	Lint samples were submitted to the International Textile Center (ITC) at Texas Tech University for HVI analysis, and USDA loan values were determined for each variety by plot.
Ginning costs and seed values:	Ginning costs are based on \$2.45 per cwt. of bur cotton and seed values are based on \$100/ton. Ginning costs do not include checkoff.
Systems costs:	Systems cost was determined by variety per acre using manufacturer's suggested retail price for seed and appropriate technology fee for Bollgard, Bollgard II, and/or Roundup Ready based on 3.3 seed per row-ft.

Results and Discussion:

Significant differences were noted for most characteristics measured (Tables 1 and 2). Lint turnout ranged from a low of 29.4% (AFD 3511R) to a high of 37.2% (Deltapine 445BG/RR). Lint yields varied from a low of 564 lb/acre (FM 989) to a high of 797 lb/acre (Deltapine 445BG/RR). Lint loan values varied from a low of \$0.5140/lb (FiberMax 960RR) to a high of \$0.5663/lb (Deltapine 393). After adding lint and seed value, total value/acre for varieties ranged from a low of \$339.69 (FM 989) to a high of \$486.77 (Deltapine 445BG/RR). When subtracting ginning and systems costs, the net value/acre among varieties ranged from a high of \$390.28 (Beltwide Cotton Genetics 295) to a low of \$277.78, (FM 989) a difference of \$112.50. Micronaire ranged from a low of 3.1 units (FiberMax 960RR and FiberMax 989) to a high of 3.8 units (Deltapine 393, FiberMax 958, Deltapine 432RR, All-Tex Atlas and Paymaster 2266RR). Staple ranged from a low of 33.1 (Americot 262R) to a high of 35.9 (All-Tex Toppick). Strength had an average of 27.8 with a low of 25.1 (Americot 8120 and Deltapine 434RR) to a high of 30.5 (FiberMax 989B2R). Significant differences were observed for uniformity, elongation, reflectance (Rd) and yellowness (+b). These data indicate that substantial differences can be obtained in terms of net value/acre due to variety and technology selection. No inclement weather was encountered at this location to cause significant preharvest lint losses from looser picker type varieties. Additional multi-site and multi-year applied research is needed to evaluate varieties and technologies across a series of dryland environments.

Acknowledgments: Appreciation is expressed to Ricky Bearden for the use of his land, equipment and labor for this project.

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Table 1. Harvest results from the dryland large plot replicated systems variety trial, Ricky Bearden Farm, Plains, TX, 2005.

Variety	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Systems cost	Net value
	%	%	lb/acre	lb/acre	lb/acre	\$/lb	\$/acre	\$/acre	\$/acre	\$/acre	\$/acre	\$/acre
Beltwide Cotton Genetics 295	34.4	52.9	2056	707	1087	0.5645	399.33	54.35	453.68	50.37	13.03	390.28 a
Deltapine 393	33.0	48.4	2203	727	1066	0.5663	411.75	53.29	465.03	53.96	22.51	388.56 a
Deltapine 445BG/RR	37.2	48.2	2142	797	1033	0.5460	435.13	51.63	486.77	52.48	49.49	384.80 a
FbierMax 958	34.9	49.6	2015	703	999	0.5658	397.97	49.98	447.95	49.36	20.30	378.29 ab
Deltapine 434RR	34.9	49.8	2218	775	1104	0.5323	412.72	55.22	467.94	54.34	41.71	371.89 abc
Deltapine 494RR	35.6	50.0	2053	731	1026	0.5588	408.52	51.32	459.84	50.30	41.71	367.83 abcd
AFD 3602R	33.1	54.1	2149	712	1161	0.5397	384.38	58.07	442.45	52.64	34.57	355.24 bcde
Stoneville 5599BR	35.8	49.5	2157	773	1067	0.5213	402.83	53.33	456.17	52.85	49.49	353.83 bcde
All-Tex Toppick	32.2	53.0	1988	640	1053	0.5633	360.99	52.67	413.66	48.70	12.07	352.89 bcde
FiberMax 960B2R	33.5	50.1	2162	724	1084	0.5487	396.89	54.20	451.09	52.98	47.02	351.09 cde
Deltapine 432RR	34.2	50.7	2169	741	1099	0.5257	389.93	54.96	444.89	53.14	41.71	350.04 cdef
Paymaster 2280BG/RR	30.3	54.1	2367	718	1279	0.5353	384.37	63.97	448.35	57.99	41.21	349.14 cdefg
Americot 821R	34.8	53.2	1954	679	1040	0.5455	370.59	52.02	422.61	47.88	28.07	346.66 cdefgh
Deltapine 488BG/RR	33.3	50.8	2186	728	1112	0.5373	391.29	55.60	446.88	53.56	48.62	344.70 defgh
All-Tex Magnum RR	33.8	49.5	2093	708	1035	0.5330	376.61	51.75	428.36	51.27	35.71	341.37 efghi
FiberMax 989B2R	32.4	51.9	2188	708	1137	0.5393	381.34	56.84	438.18	53.61	46.00	338.57 efghi
Stoneville NexGen 2448R	31.6	52.2	2100	663	1096	0.5565	368.98	54.80	423.78	51.44	34.23	338.11 efghi
Americot 8120	31.7	51.4	2020	639	1038	0.5393	345.39	51.90	397.29	49.49	10.10	337.70 efghi
FiberMax 960RR	36.4	53.2	1956	711	1041	0.5140	365.77	52.03	417.81	47.92	39.78	330.11 efghi
All-Tex Atlas	31.2	53.5	2045	637	1095	0.5278	336.19	54.74	390.94	50.11	11.27	329.56 efghi
Beltwide Cotton Genetics 245	33.4	50.0	1871	624	935	0.5392	336.79	46.75	383.53	45.84	13.03	324.66 fghij
Americot 262R	34.9	51.7	1936	676	1000	0.5203	351.85	50.01	401.86	47.44	31.26	323.16 ghij
FiberMax 989RR	35.2	50.4	1929	680	973	0.5303	360.13	48.62	408.75	47.27	39.12	322.36 hij
Beltwide Cotton Genetics 24R	34.3	50.8	1972	675	1001	0.5277	356.07	50.04	406.11	48.31	36.08	321.73 hij
Paymaster 2266RR	31.0	53.7	2073	643	1113	0.5413	348.34	55.67	404.00	50.80	31.98	321.22 hij
All-Tex Patriot RR	31.4	52.0	2052	644	1068	0.5352	344.69	53.40	398.08	50.28	30.72	317.09 ijk
Stoneville NexGen 3969R	32.0	53.1	1948	623	1034	0.5345	333.20	51.67	384.88	47.73	34.23	302.92 jkl
AFD 3511R	29.4	53.7	2086	613	1121	0.5362	328.85	56.04	384.89	51.10	31.94	301.85 jkl
All-Tex Warrior RR	30.6	52.9	2044	625	1081	0.5178	323.09	54.06	377.15	50.07	35.71	291.37 kl
FiberMax 989	32.9	50.2	1717	564	861	0.5262	296.63	43.06	339.69	42.06	19.85	277.78 l
Test average	33.3	51.5	2062	686	1061	0.5390	370.02	53.07	423.09	50.51	32.42	340.16
CV, %	4.1	4.5	3.3	3.2	3.3	3.2	4.3	3.3	4.0	3.3	---	4.7
OSL	<0.0001	0.0386	<0.0001	<0.0001	<0.0001	0.0060	<0.0001	<0.0001	<0.0001	<0.0001	---	<0.0001
LSD 0.05	2.2	3.8	110	36	56	0.0280	25.94	2.82	27.98	2.69	---	26.03

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$2.45/cwt ginning cost.

\$100/ton for seed.

Value for lint based on CCC loan value from grab samples and ITC HVI results.

Table 2. HVI fiber property results from the dryland large plot replicated systems variety trial, Ricky Bearden Farm, Plains, TX, 2005.

Variety	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inches	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Beltwide Cotton Genetics 295	3.6	35.5	81.2	27.9	5.0	1.0	80.4	7.7	2.3	1.0
Deltapine 393	3.8	35.2	81.0	26.8	7.6	1.0	80.1	7.8	2.7	1.0
Deltapine 445BG/RR	3.6	34.2	80.9	28.0	7.1	1.0	80.6	7.8	2.0	1.0
FbierMax 958	3.8	35.2	80.3	27.7	4.5	1.0	80.0	7.6	2.7	1.0
Deltapine 434RR	3.5	34.4	79.1	25.1	7.5	1.0	81.2	7.5	2.0	1.0
Deltapine 494RR	3.6	34.7	80.1	29.4	6.1	1.0	79.8	7.8	2.7	1.0
AFD 3602R	3.5	34.0	80.8	27.8	5.2	1.0	80.1	7.6	3.0	1.0
Stoneville 5599BR	3.7	33.4	78.8	27.0	5.8	1.0	78.5	8.2	3.0	1.0
All-Tex Toppick	3.6	35.9	80.7	27.4	6.8	1.0	80.2	7.4	3.0	1.0
FiberMax 960B2R	3.5	34.7	78.7	28.3	4.0	1.0	81.4	7.6	2.0	1.0
Deltapine 432RR	3.8	33.3	80.4	27.3	8.3	1.3	78.5	8.2	3.0	1.0
Paymaster 2280BG/RR	3.3	34.7	80.3	28.7	6.3	1.0	79.9	7.7	3.0	1.0
Americot 821R	3.7	33.6	80.2	26.6	7.0	1.0	79.8	8.1	2.3	1.0
Deltapine 488BG/RR	3.4	34.6	79.3	27.6	6.2	1.0	79.9	7.7	2.3	1.0
All-Tex Magnum RR	3.3	33.9	79.8	26.7	6.9	1.0	81.4	7.8	2.0	1.0
FiberMax 989B2R	3.4	35.0	81.4	30.5	5.0	1.7	79.3	7.2	3.3	1.0
Stoneville NexGen 2448R	3.6	34.6	81.6	29.5	5.7	1.0	79.5	7.8	3.0	1.0
Americot 8120	3.7	34.0	79.4	25.1	7.3	1.0	79.1	7.5	3.0	1.0
FiberMax 960RR	3.1	34.0	79.3	28.8	4.3	1.0	80.8	8.1	2.0	1.0
All-Tex Atlas	3.8	33.6	81.0	27.5	6.3	1.0	78.2	8.1	2.7	1.0
Beltwide Cotton Genetics 245	3.3	35.3	80.5	29.5	4.4	1.3	79.5	7.4	3.0	1.0
Americot 262R	3.7	33.1	80.4	26.4	7.2	1.0	79.2	8.2	2.3	1.0
FiberMax 989RR	3.3	34.3	80.0	30.0	5.1	1.0	80.3	8.2	2.0	1.0
Beltwide Cotton Genetics 24R	3.4	33.6	80.2	27.7	7.1	1.0	81.2	7.3	2.7	1.0
Paymaster 2266RR	3.8	34.0	81.7	27.6	6.7	1.0	78.4	7.7	3.0	1.0
All-Tex Patriot RR	3.4	34.9	80.0	26.3	7.0	1.0	80.2	7.4	2.7	1.0
Stoneville NexGen 3969R	3.2	34.8	80.6	28.8	6.7	1.0	81.4	7.5	2.3	1.0
AFD 3511R	3.4	34.5	80.6	27.2	6.4	1.0	78.1	8.0	3.0	1.0
All-Tex Warrior RR	3.3	34.3	79.6	26.1	6.8	1.0	80.3	7.9	2.3	1.0
FiberMax 989	3.1	34.7	79.5	29.7	4.7	1.0	79.9	8.4	2.0	1.0
Test average	3.5	34.4	80.2	27.8	6.2	1.0	79.9	7.8	2.6	1.0
CV, %	3.9	1.4	1.1	3.3	8.4	24.7	1.1	3.3	--	--
OSL	<0.0001	<0.0001	0.0010	<0.0001	<0.0001	0.5512	<0.0001	<0.0001	--	--
LSD 0.05	0.2	0.8	1.4	1.5	0.8	NS	1.5	0.4	--	--

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, NS - not significant.

Table 3. Expenses incurred for the dryland large plot replicated systems trial, Ricky Bearden Farm, Plains, TX, 2005

	Variety	Seed cost/bag	Tech fees/bag	Total cost/bag	Seed & tech fee/ac	Herb apps	Herb cost/ac	Roundup Original MAX cost/ac	Hoe cost/ac	Systems cost/ac
1	AFD 3511R	49.40	64.30	113.70	22.12	1	4.50	5.32	--	31.94
2	AFD 3602R	64.40	65.80	130.20	24.75	1	4.50	5.32	--	34.57
3	All-Tex Magnum RR	65.00	84.90	149.90	25.89	1	4.50	5.32	--	35.71
4	All-Tex Patriot RR	48.00	71.50	119.50	20.90	1	4.50	5.32	--	30.72
5	All-Tex Warrior RR	65.00	84.90	149.90	25.89	1	4.50	5.32	--	35.71
6	Americot 262R	35.00	83.20	118.20	21.44	1	4.50	5.32	--	31.26
7	Americot 821R	35.00	72.90	107.90	18.25	1	4.50	5.32	--	28.07
8	Beltwide Cotton Genetics 24R	68.50	86.60	155.10	26.26	1	4.50	5.32	--	36.08
9	Deltapine 432RR	99.95	84.90	184.85	31.89	1	4.50	5.32	--	41.71
10	Deltapine 434RR	99.95	84.90	184.85	31.89	1	4.50	5.32	--	41.71
11	Deltapine 445BG/RR	104.95	125.00	229.95	39.67	1	4.50	5.32	--	49.49
12	Deltapine 488BG/RR	99.95	125.00	224.95	38.80	1	4.50	5.32	--	48.62
13	Deltapine 494RR	99.95	84.90	184.85	31.89	1	4.50	5.32	--	41.71
14	FiberMax 960B2R	77.95	107.50	185.45	37.20	1	4.50	5.32	--	47.02
15	FiberMax 960RR	77.95	74.70	152.65	29.96	1	4.50	5.32	--	39.78
16	FiberMax 989B2R	77.95	115.00	192.95	36.18	1	4.50	5.32	--	46.00
17	FiberMax 989RR	77.95	78.10	156.05	29.30	1	4.50	5.32	--	39.12
18	Paymaster 2266RR	56.95	71.50	128.45	22.16	1	4.50	5.32	--	31.98
19	Paymaster 2280BG/RR	56.95	125.00	181.95	31.39	1	4.50	5.32	--	41.21
20	Stoneville 5599BR	96.60	115.00	211.60	39.67	1	4.50	5.32	--	49.49
21	Stoneville NexGen 2448R	64.40	65.80	130.20	24.41	1	4.50	5.32	--	34.23
22	Stoneville NexGen 3969R	64.40	65.80	130.20	24.41	1	4.50	5.32	--	34.23
23	All-Tex Atlas	31.00	0.00	31.00	6.00	0	--	--	5.27	11.27
24	All-Tex Toppick	36.00	0.00	36.00	6.80	0	--	--	5.27	12.07
25	Americot 8120	28.00	0.00	28.00	4.83	0	--	--	5.27	10.10
26	Beltwide Cotton Genetics 245	45.00	0.00	45.00	7.76	0	--	--	5.27	13.03
27	Beltwide Cotton Genetics 295	45.00	0.00	45.00	7.76	0	--	--	5.27	13.03
28	Deltapine 393	99.95	0.00	99.95	17.24	0	--	--	5.27	22.51
29	FiberMax 958	77.95	0.00	77.95	15.03	0	--	--	5.27	20.30
30	FiberMax 989	77.95	0.00	77.95	14.58	0	--	--	5.27	19.85
							4.50/ac	July 5 over-the-top 22oz/a Roundup Original MAX to Roundup Ready varieties.	Aug 1 spent 12 hrs hoeing 14.9 acres of conventionals.	
								28.50/gal includes AMS at 0.42/ac	0.81 hrs/a at 6.50/hr	
Base weed control program			chem cost	app cost	total cost					
15-Mar	1 pt/acre trifluralin PPI		1.78	4.50	6.28					
8-Jun	4.0 oz/acre trifluralin at planting		0.45		0.45					
	6.0 oz/acre prometryn at planting to 10" band behind press wheel		1.30		1.30					
20-Jul	Blanket cultivation			6.00	6.00					
15-Aug	Blanket cultivation			6.00	6.00					
Total blanket weed control program					20.03					
Insecticide program										
13-May	2 lb/acre Temik at planting		6.56		6.56					
Harvest aid program										
27-Oct	1.5 pt/ac Prep		5.81	4.50	10.31					
Total blanket input cost (\$/acre)					36.90					

Table 4. Seed and technology expenses* for the dryland large plot replicated systems trial, Ricky Bearden Farm, Plains, TX, 2005.

Variety	Seed/lb	Seed/bag	Acres planted /bag	Seed fee \$/bag	Tech fee \$/bag	Total seed and tech fee \$/bag	Seed and tech fee \$/acre
AFD 3511R	4434	221,700	5.14	49.40	64.30	113.70	22.12
AFD 3602R	4538	226,900	5.26	64.40	65.80	130.20	24.75
All-Tex Magnum RR	4994	249,700	5.79	65.00	84.90	149.90	25.89
All-Tex Patriot RR	4931	246,550	5.72	48.00	71.50	119.50	20.90
All-Tex Warrior RR	4994	249,700	5.79	65.00	84.90	149.90	25.89
Americot 262R	4756	237,800	5.51	35.00	83.20	118.20	21.44
Americot 821R	5100	255,000	5.91	35.00	72.90	107.90	18.25
Beltwide Cotton Genetics 24R	5094	254,700	5.91	68.50	86.60	155.10	26.26
Deltapine 432RR	--	250,000	5.80	99.95	84.90	184.85	31.89
Deltapine 434RR	--	250,000	5.80	99.95	84.90	184.85	31.89
Deltapine 445BG/RR	--	250,000	5.80	104.95	125.00	229.95	39.67
Deltapine 488BG/RR	--	250,000	5.80	99.95	125.00	224.95	38.80
Deltapine 494RR	--	250,000	5.80	99.95	84.90	184.85	31.89
FiberMax 960B2R	4300	215,000	4.99	77.95	107.50	185.45	37.20
FiberMax 960RR	4394	219,700	5.09	77.95	74.70	152.65	29.96
FiberMax 989B2R	4600	230,000	5.33	77.95	115.00	192.95	36.18
FiberMax 989RR	4594	229,700	5.33	77.95	78.10	156.05	29.30
Paymaster 2266RR	--	250,000	5.80	56.95	71.50	128.45	22.16
Paymaster 2280BG/RR	--	250,000	5.80	56.95	125.00	181.95	31.39
Stoneville 5599BR	--	230,000	5.33	96.60	115.00	211.60	39.67
Stoneville NexGen 2448R	--	230,000	5.33	64.40	65.80	130.20	24.41
Stoneville NexGen 3969R	--	230,000	5.33	64.40	65.80	130.20	24.41
All-Tex Atlas	4454	222,700	5.16	31.00	0.00	31.00	6.00
All-Tex Toppick	4564	228,200	5.29	36.00	0.00	36.00	6.80
Americot 8120	5000	250,000	5.80	28.00	0.00	28.00	4.83
Beltwide Cotton Genetics 245	5000	250,000	5.80	45.00	0.00	45.00	7.76
Beltwide Cotton Genetics 295	5000	250,000	5.80	45.00	0.00	45.00	7.76
Deltapine 393	--	250,000	5.80	99.95	0.00	99.95	17.24
FiberMax 958	4472	223,600	5.19	77.95	0.00	77.95	15.03
FiberMax 989	4610	230,500	5.35	77.95	0.00	77.95	14.58

*Trial was planted at 43,124 seed/acre in 40-inch rows.