

TITLE:

Results of the Dryland Regional Cotton Variety Test at AG-CARES, Lamesa, TX, 2002.

AUTHORS:

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MATERIALS AND METHODS:

Test:	Cotton Variety
Planting Date:	June 24
Row Spacing:	40-in
Planting Pattern:	Solid
Herbicide:	Treflan @ 1.5 pt/A applied pre-plant
Fertilizer:	None
Rainfall:	April - September, 6.0 in.
Insecticide:	None
Harvest Aids:	None
Harvest Date:	November 24
Freeze Date:	November 28

RESULTS AND DISCUSSION:

The dryland variety test was not planted until June 24. Yields ranged from 284 lbs. Lint/A down to 69 lbs. Lint/A. The fiber quality was very good considering the late date of planting. The 2.5 in. rain received in July was what kept this crop growing.

Table 1. Results of the dryland cotton variety test at AG-CARES, Lamesa, TX, 2002.

Designation	Agronomic Properties									
	Yield	% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	Resistance
Paymaster 2167 RR	231	27.7	42.9	39.1	27.7	4.1	9.4	6.5	24.7	3.2
Paymaster 2266 RR	231	25.9	44.4	34.7	24.9	5.0	10.5	6.0	29.2	3.1
Stoneville 2454 R	227	25.8	41.5	39.4	28.3	4.9	9.6	6.4	30.3	2.7
AFD 2485	225	25.1	40.9	36.4	25.6	5.5	10.9	6.6	30.3	3.0
Texas 28R	219	26.1	43.2	36.4	26.6	4.6	9.2	5.5	30.3	2.8
Bronco 141	219	25.6	43.7	35.7	25.3	4.9	10.6	6.2	28.2	3.3
All-Tex Atlas	218	24.8	46.0	36.3	25.5	4.5	10.0	6.0	27.1	3.0
Americot 1621	217	24.5	43.4	35.7	26.0	4.6	9.9	5.8	28.3	2.7
Western 180	212	24.9	45.6	34.0	24.6	4.8	10.2	5.6	29.3	2.8
FiberMax 989 R	211	26.0	42.8	35.5	24.7	4.7	11.1	6.4	26.2	3.0
Paymaster 2326 RR	208	26.4	44.0	35.7	26.0	4.5	9.9	5.9	27.1	3.0
AFD 3511 RR	205	25.4	47.4	34.0	24.9	4.9	11.5	6.2	26.9	3.0
Acala 1517-99	204	22.7	40.3	35.0	24.2	4.4	11.2	6.5	24.1	2.4
Concho 257	203	25.3	37.4	35.1	25.0	4.9	10.7	6.0	28.7	3.0
FiberMax 958	195	23.2	38.8	36.8	25.9	4.8	11.2	6.8	25.5	3.0
FiberMax 5013	194	25.1	45.0	35.5	25.1	4.3	9.8	5.8	26.2	3.0
Concho 287	193	24.6	40.8	35.7	24.9	4.5	9.8	5.8	27.4	3.0
PhytoGen 355	191	24.2	41.9	34.5	24.4	4.5	10.5	6.0	25.9	2.6
All-Tex Atlas RR	186	24.9	42.6	36.7	26.2	4.6	9.6	5.9	28.5	3.2
Stoneville 5303 R	183	24.5	42.7	37.4	26.4	4.6	10.5	6.5	26.4	2.7

Table 1. Cont. Results of the dryland cotton variety test at AG-CARES, Lamesa, TX, 2002.

Designation	Agronomic Properties									
	Yield	% Turnout		% Lint		Boll	Seed	Lint	Seed Per	Storm
		Lint	Seed	Picked	Pulled	Size	Index	Index	Boll	Resistance
Americot 8120	181	23.4	45.5	33.4	23.0	4.3	9.5	5.0	28.4	2.8
Stoneville 4793 R	181	23.2	40.7	35.4	25.4	4.4	11.2	6.5	24.0	2.8
FiberMax 832	180	23.2	40.7	35.5	25.4	5.7	10.4	6.0	33.4	2.9
PhytoGen 98M-2983	179	24.3	40.1	37.5	26.6	4.5	10.0	6.4	26.6	2.7
Stoneville 580	177	23.9	47.3	32.7	23.0	4.3	10.1	5.1	27.4	2.7
Americot 4207	173	22.9	43.1	33.3	23.2	3.9	9.6	5.1	25.5	2.7
Stoneville 474	170	22.4	40.8	35.0	24.4	4.2	11.4	6.6	22.6	2.7
FiberMax 819	166	22.1	38.9	39.0	26.6	3.7	9.1	6.0	23.8	2.8
Deltapine 449 BG/RR	165	24.7	44.6	34.4	24.6	4.3	10.2	5.5	26.6	2.8
FiberMax 989 BR	165	24.4	41.5	35.6	25.0	4.6	10.9	6.3	25.8	3.0
Deltapine 491	164	24.9	41.4	37.3	26.2	4.0	8.8	5.6	26.6	2.7
Stoneville 457	164	24.2	41.8	34.8	25.5	4.9	10.4	5.9	28.7	2.7
Stoneville 4892 BR	147	23.8	40.7	35.0	24.7	4.3	10.4	6.0	25.1	2.8
Deltapine 458 B/RR	132	22.6	43.2	33.5	23.4	4.1	9.2	4.8	28.5	2.8
FiberMax 989	128	24.1	40.7	35.7	24.4	4.3	10.0	5.8	26.7	3.0
Deltapine 555 BG/RR	69	25.6	40.7	36.9	25.4	3.5	8.1	5.1	25.8	2.8
Mean	193	24.7	42.4	35.8	25.3	4.5	10.2	6.0	27.1	2.9
C.V.%	16.7	5.8	5.1	2.9	3.1	6.3	5.1	3.8	5.5	3.5
LSD 0.05	38	2.4	3.6	1.7	1.3	0.5	0.9	0.4	2.5	0.1

Table 1A. Results of the dryland cotton variety test at AG-CARES, Lamesa, TX, 2002.

Designation	Micro- narie	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
AFD 2428	4.0	1.12	82.7	30.1	5.9	2	79.6	8.4	21-1,31-1
Paymaster 2379 RR	5.1	1.05	83.3	31.2	7.5	2	79.7	8.0	21-2,31-1
Tamcot Luxor	4.5	1.10	84.8	31.3	5.7	3	76.2	7.5	31-2,41-1
AFD 2070	4.4	1.09	83.2	31.0	5.6	1	78.5	8.3	31-1
Paymaster 2167 RR	4.7	1.03	82.4	29.7	6.0	2	78.1	8.0	31-1,31-2
Paymaster 2266 RR	4.4	1.09	83.6	30.7	6.5	3	77.0	7.5	31-2,41-1
Stoneville 2454 R	4.6	1.07	82.9	29.5	6.2	2	78.3	8.4	21-2,31-1
AFD 2485	4.5	1.16	83.5	32.7	3.7	2	79.1	8.0	21-2,31-1
Texas 28R	4.7	1.14	82.2	30.4	5.2	2	77.2	8.2	31-1,31-2
Bronco 141	3.8	1.08	81.8	30.4	5.0	2	79.0	8.0	21-2,31-1
All-Tex Atlas	4.7	1.08	83.2	31.9	6.3	3	77.1	7.8	31-2
Americot 1621	4.5	1.12	83.4	31.8	6.6	3	77.1	8.3	31-1,31-2
Western 180	4.6	1.10	82.8	30.2	5.0	3	77.0	8.3	31-1,41-1
FiberMax 989 R	3.9	1.13	83.5	32.2	5.2	2	80.5	7.8	21-2
Paymaster 2326 RR	5.0	1.06	82.9	30.6	6.3	2	77.5	8.1	31-1,31-2
AFD 3511 RR	4.7	1.09	83.1	31.7	5.3	1	77.4	8.5	31-1
Acala 1517-99	4.1	1.21	83.7	34.4	5.1	3	78.1	7.6	31-1,41-1
Concho 257	4.5	1.09	82.6	31.3	5.6	2	78.6	8.1	21-2,31-1
FiberMax 958	4.4	1.16	82.4	32.6	3.8	2	79.2	7.7	31-1,31-2
FiberMax 5013	4.9	1.08	83.9	31.7	5.8	3	76.8	7.1	31-2,41-2
Concho 287	4.7	1.08	83.0	31.2	6.0	3	77.4	7.9	31-2
PhytoGen 355	4.7	1.15	84.7	32.0	7.1	3	75.6	8.4	31-2,31-4
All-Tex Atlas RR	4.6	1.06	82.4	29.5	6.4	2	78.3	8.2	31-1
Stoneville 5303 R	4.6	1.13	83.5	32.8	5.2	1	78.0	8.6	31-1

Table 1A. Cont. Results of the dryland cotton variety test at AG-CARES, Lamesa, TX, 2002.

Designation	Micro- narie	Length	Uni- formity	Strength	Elon- gation	Leaf Index	Rd	+b	Color Grade ^{1/}
Americot 8120	4.3	1.12	81.8	29.1	5.9	2	78.3	8.3	31-1
Stoneville 4793 R	4.6	1.12	83.9	30.1	5.6	3	74.9	9.0	31-3,41-3
FiberMax 832	4.3	1.21	84.2	34.2	4.5	2	80.0	7.5	31-1
PhytoGen 98M-2983	4.5	1.12	83.1	29.8	5.7	2	75.7	8.8	31-3,31-4
Stoneville 580	4.2	1.14	83.4	31.2	6.5	2	77.9	9.3	21-4
Americot 4207	4.4	1.11	83.0	29.7	5.4	2	78.1	8.3	31-1
Stoneville 474	4.7	1.15	83.5	30.3	5.7	2	74.9	9.2	31-3,31-4
FiberMax 819	4.2	1.21	83.9	33.5	4.0	2	80.6	7.1	31-1
Deltapine 449 BG/RR	4.4	1.12	82.3	32.1	5.1	2	79.1	8.4	21-2,31-1
FiberMax 989 BR	4.1	1.13	82.6	31.7	4.7	1	80.6	7.6	21-2,31-1
Deltapine 491	4.0	1.21	82.7	34.9	4.5	2	78.2	7.9	31-1,31-2
Stoneville 457	4.5	1.15	83.8	31.5	7.8	3	73.9	8.6	31-4,41-3
Stoneville 4892 BR	4.6	1.14	84.1	30.5	5.7	3	75.3	8.9	31-3,31-4
Deltapine 458 B/RR	4.1	1.13	83.0	31.8	5.9	2	80.2	8.1	21-2
FiberMax 989	4.1	1.18	83.3	33.2	4.6	2	79.9	7.6	21-2,31-1
Deltapine 555 BG/RR	4.0	1.13	81.7	31.7	4.6	3	78.4	8.2	31-1
Mean	4.4	1.12	83.1	31.4	5.5	2	77.9	8.1	
C.V.%	3.4	1.5	0.6	3.2	3.7	27.1	1.4	3.5	
LSD 0.05	0.3	0.03	0.8	1.7	0.3	1	1.8	0.5	

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