EVALUATION OF TEN COTTON VARIETIES

Howard Book & Stephen Moreno, Cooperators (2007)
Joe D. Janak, Jr., County Extension Agent - Ag/NR
Victoria County

SUMMARY:

Ten cotton varieties planted April 19, 2007 yielded from 673 - 1062 pounds per acre with a value of from $344 - 533 per acre.

OBJECTIVES:

To determine the yield potential of cotton varieties offered by area seed companies. This demonstration will assist the producers by evaluating all major hybrids, comparing them with local and coastal counties actively participating in the standardized demonstration.

MATERIALS and METHODS:

Ten cotton varieties were planted April 19, 2007 at the rate of 45,000 seeds/acre with two reps per variety. The hybrids were planted on a 30" row spacing with 8 rows per variety using a White 6800 planter. The previous crop planted was corn. Herbicides included an application of 20 oz/ac of Dual. Fertilizer applied included 700 lbs of 17-5-5-1s (119-35-35-7s) and 1 qt/ac Tracite 10% zinc.

For insecticide control, two applications of 3 oz/a Bidrin was applied for fleahoppers plus 12 oz/a of Orthene and one application of Diamond for stinkbugs.

The field was harvested with a cotton stripper on September 20, 2007 harvesting about one-third acre per variety weighing the seed cotton in a weigh wagon. Samples were collected and sent to the Corpus Christi Research Center fro ginning on a 10-saw Eagle Laboratory gin. Lint samples were then sent to the International Center fro Textile Research and Development Laboratory in Lubbock, Texas fro fiber analysis. Accuracy testing was not utilized.

Table 1 lists the commercial seed treatments for each variety.

RESULTS and DISCUSSIONS:

Cotton fleahopper insect pressure increased before spray application could be made due to the small field size (about 6 acres) and the unavailability of a commercial aerial applicator. Yields varied from 673 - 1062 pounds per acre with a value of from $344 - 533 per acre. The percent ginout was adjusted down 20 % due to hand ginning. Color grade and leaf was not utilized in calculating Lint Value $/A. See Table 2 for complete yield and quality results.

ACKNOWLEDGMENTS:

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DISCLAIMER CLAUSE:

Trade names of commercial products used in this report are included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

Table 1. Commercial seed treatments of cotton varieties in Victoria County demonstration. Howard Book & Steve Moreno, Cooperators, Victoria County, TX 2007.

Variety	Treatment
FiberMax 820F	Base, Allegiance, Lorsban 30F, Argent 30 Fungicide, AERIS, TRILEX ADVANCED
FiberMax 1880B2F	Base Treatment, Aeria, Trilex Advanced, Baytan 30, Allegiance, Lorsban 30F,
FiberMax 9063B2F	Baytan, Allegiance, Lorsban 30F, Argent 30 Fungicide, AERIS, TRILEX ADVANCED
Croplan 3520B2RF	BTALS, Cruiser, Baytan, Thiram, Allegiance
Stoneville 4554B2RF	BTALG, Goucho Grande, Baytan, Thiram, Allegiance, Lorsban
APEX B2RF	Nothing Listed
Phytogen 485WF	Maxim, APRON XL, Systhane M40, Lorsban, Cruiser, Dynasty
Phytogen 745WRF	Nothing Listed
Delta Pine 164B2RF	CR-Dynasty CST, Lorsban 30 PL, Apron XL, Maxim, Systhane M40, Cruiser
Delta Pine 143B2RF	CR-Dynasty CST, Lorsban 30 PL, Apron XL, Maxim, Systhane M40, Cruiser

Table 2. Evaluation of ten cotton varieties, yield, lint qualities and value. Howard Book & Steve Moreno, Cooperators, Victoria County, TX 2007. (Ranked by Yield/A.)

VARIETY (a)	% GINOUT	MIC	LENG.	UNIF.	STRN.	ELON.	Rd	+b	CGRD	LEAF	YIELD LBS/A	LOAN Cents per Lb.	LINT VALUE $/A
Phytogen 485 WF	37.17	5.2	1.06	79.1	21.6	8.4	59.9	6.4	71-1	8	1062	46.50	494
FiberMax 820F	36.24	4.5	1.17	81.2	25.1	6.4	58.8	6.3	71-1	8	1006	52.95	533
Stoneville 4554 B2RF	35.98	4.9	1.06	78.4	21.8	8.7	59.4	6.4	71-1	8	907	49.00	444
Croplan G. 3520 B2RF	35.85	4.8	1.14	82	22.1	8	59.5	6.5	71-1	8	900	51.75	466
FiberMax 1880B2F	34.12	4.6	1.09	78.5	21.3	7.2	59.1	6.3	71-1	8	840	49.95	420
Apex B2RF	36.58	4.4	1.1	78.3	23.1	7.5	58.5	6.4	71-1	8	786	50.85	400
FiberMax 9063 B2F	34.55	4.6	1.12	78.2	22	6.9	60	6.5	71-1	8	738	51.05	377
DeltaPine 164 B2RF	33.97	4.6	1.11	77.1	21.3	7.1	59.9	6.3	71-1	8	737	50.40	371
DeltaPine 143 B2RF	34.78	4.4	1.15	77.4	18.3	6.9	63.4	6.3	61-2	8	731	47.95	351
Phytogen 745 WRF	35.68	4.8	1.09	80.1	22	8.7	59.8	6.7	71-1	8	673	51.10	344

(a) % Ginout was adjusted down 20 % due to hand ginning. Color grade and leaf was not utilized in calculating Lint Value $/A.