EVALUATION OF TWENTY-FOUR COTTON VARIETIES

Howard Book & Stephen Moreno, Cooperators (2006)
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SUMMARY:

In an evaluation of twenty-four cotton varieties planted April 10, 2006, yields were good ranging from 818 - 1310 lbs/ac with lint values ranging from 54.70 - 58.10 cents a pound and a total a value of the varieties ranging from $471 - $735 per acre.

OBJECTIVES:

To determine the yield potential of Roundup Ready 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:

Twenty-four cotton varieties were planted April 10, 2006 at the rate of 51,000 seeds/acre. The hybrids were planted on a 30" row spacing with 8 rows per hybrid. The previous crop planted was corn. Insecticide at planting included 1.25 oz/ac of Lambda-cyhalothrin. Herbicides included a preplant burn down with 21 oz/ac or Roundup Original Max on April 8, 2006 followed by a pre-emergence application of 17 oz/ac of Dual Magnum plus 1 qt/ac Caporal.

After cotton emergence on May 3, 2006, 18 oz/ac of Roundup Original Max was applied at the 4 leaf stage over the Roundup Ready hybrids. On May 6th, 4 oz/ac of PIX plus 4 oz/ac of Orthene. On June 9th 21 oz/ac of Roundup Original Max was applied at the 4 leaf stage over the Roundup Flex hybrids while 8 oz/ac of Arrow (clethodim) was applied over the non-Roundup Ready Flex hybrids.

The cotton was then sidedressed May 3, 2006 with 85 -0-0-12 sulfur and sprayed with 18 oz/ac of Roundup. On May 16, 2006, PIX was applied at 4 oz/ac plus Orthene at 4 oz/ac. On June 9, 2006, 21 oz/ac of Roundup Original Max was applied on the flex cotton varieties with 8 oz/ac of Arrow herbicide applied on the non-flex varieties.

The field was harvested with a cotton stripper on September 4, 2006 harvesting about one-quarter acre per variety weighing the seed cotton in a weigh wagon. Samples were collected and sent to the Corpus Christi Research Center for ginning on a 10-saw Eagle Laboratory gin. Lint samples were then sent to the International Center for Textile Research and Development Laboratory in Lubbock, Texas for fiber analysis. Accuracy testing was not utilized.

RESULTS and DISCUSSIONS:

The cotton grew well in spite of the dry conditions followed by ample rain in the late summer. Yields varied from 818 - 1310 lbs/ac with a value of from $471 - $735 per acre. See Table 1 for complete yield and quality results.

ACKNOWLEDGMENTS:

Appreciation is expressed to contributing seed companies, Dr. Steve Livingston, Extension Agronomist, and to Howard Book and Stephen Moreno, cooperators as well as Jim Moore, who volunteered and assisted in planting and Daryl, Kimberly and Randall Depine, Dago Rodriguez and Stephen Janak.

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. Evaluation of cotton hybrids, yield, lint qualities and value. Howard Book and Stephen Moreno, Cooperators, Victoria County, TX 2006.

COTTON VARIETY	MIC	LENG	STRN	UNIFOR	COLOR	LEAF	YIELD Lbs/A	TURN-OUT %	LOAN Cents per Lb.	LINT VALUE $/A