



Result Demonstration/Applied Research Report

DRYLAND COTTON VARIETY DEMONSTRATION

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SUMMARY

Fourteen cotton varieties were compared in strip plots under similar field conditions. Deltapine 494 R, Deltapine 448 B and Fibermax 989 BR were the highest yielding varieties. Fibermax 958 and Deltapine 494 R had the highest loan value of 57.15 cents per pound.

PROBLEMS

Area cotton producers are continually searching for a cotton variety that will increase net profits through increased yield and fiber qualities. Sporadic rainfall makes it difficult for varieties to perform in dry conditions.

OBJECTIVE

To find a cotton variety that will increase net profit with an increase in yields and fiber qualities. These varieties must fit dryland conditions.

MATERIALS AND METHODS

The field used for this test was dryland. It received 100 lbs of 32-0-0 fertilizer pre-plant. Good winter and spring rains resulted in excellent vigorous stand early. The varieties were planted in 8 row plots to a 2X1 pattern on 40" spacing on May 25th. The field had Treflan[®] (1 qt) banded at planting for weed control. Intrepid[®] was applied for worm control on the plots. The plots were defoliated with Prep[®] (1.66 pt) and Def[®] (.66 pt) and desiccated with Cyclone[®] (26 oz). They were stripper harvested on November 17th and weighed in a boll buggy. Samples were ginned and fiber samples were sent off for classing at the Textile Research Center in Lubbock.

RESULTS, DISCUSSION AND ECONOMIC ANALYSIS

As seen in Table 1, the yields in this plot ranged from 905 lb/acre to 1319 lb/acre. The higher yielding varieties were Deltapine 494 R, Deltapine 448 B and Fibermax 989 BR. Loan values ranged from 53.20 cents to 56.15 cents per pound with Fibermax 958 and Deltapine 494 R being the highest.

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TABLE 1: YIELD QUALITY AND ECONOMIC DATA FOR STANDARD VARIETY TEST,
HAROLD HOELSCHER FARM 2005.

Planted 5-25-05
Harvested 11-17-05

VARIETY	YIELD	% LINT	GRADE	LEAF	STAPLE	MIC	STRENGTH	UNIFORMITY	LOAN VALUE	VALUE/ ACRE
Deltapine 494R	1319	33.3	31	1	36	3.9	29.0	81.7	57.15	753.81
Deltapine 448B	1312	28.4	31	2	34	3.8	25.4	81.2	53.20	697.98
FiberMax 989BR	1270	29.6	31	1	35	3.7	24.2	78.9	54.65	694.06
Deltapine 393	1212	30.3	31	1	35	3.8	28.4	81.6	56.35	682.96
Phytogen 310R	1205	32.1	31	1	33	3.6	25.1	78.9	50.30	606.12
Deltapine 434R	1188	31.3	31	1	35	3.9	25.9	80.3	56.35	669.44
FiberMax 800R	1095	29.5	31	2	35	3.7	29.4	82.2	56.35	617.03
Deltapine 5415R	1093	30.1	31	2	34	3.7	26.0	80.3	54.30	593.50
FiberMax 960R	1055	27.8	31	2	35	3.4	26.2	80.3	54.20	571.81
FiberMax 958	1049	28.9	31	2	36	3.5	29.1	82.6	57.15	599.50
FiberMax 832	1034	28.8	31	1	36	3.6	27.6	81.9	56.90	588.35
Stoneville ST6848R	981	28.3	31	1	36	3.4	29.2	83.6	55.35	542.98
Deltapine 491	928	27.1	31	2	36	3.1	27.5	80.6	53.30	494.62
Deltapine 565	905	28.5	31	2	36	3.1	26.1	80.4	53.30	482.37

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