



Result Demonstration/Applied Research Report

STACKED COTTON VARIETY DEMONSTRATION

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SUMMARY

Fifteen cotton varieties were compared in strip plots under similar field conditions. Fibermax 960 B2R, and Deltapine Experimental DPLX05X648DR were the highest yielding varieties. Phytogen 470 WR had the highest loan value of 56.60 cents per pound.

PROBLEMS

All cotton producers are continually searching for a cotton variety that will increase net profits through increased yield and fiber qualities. Higher strength and longer staple are the primary characteristics they are looking for.

OBJECTIVE

To find a cotton variety that will increase net profit with an increase in yield and fiber qualities. These varieties must also fit the limited irrigation of the St. Lawrence cotton growing region.

MATERIALS AND METHODS

The field used for this test was drip irrigated and received 5 inches of pre-irrigation. The varieties were planted in 8 row plots to a solid pattern on 40" spacing on June 2nd. The field had Trifluralin[®] (1 qt.) applied pre-plant and Roundup[®] (1 qt.) over the top for weed control. The plots received 5 inches of summer irrigation and 100 units of Nitrogen fertilizer through the season. Intrepid insecticide was applied for fall armyworm control. The plots were defoliated with Def (1 pt) + Prep[®] (1 pt.) and desiccated by the freeze. They were stripper harvested on November 22nd and weighed in a boll buggy. Samples were ginned and fiber samples were sent off for classing.

RESULTS, DISCUSSION AND ECONOMIC ANALYSIS

As seen in Table 1, the yields in this plot ranged from 855 lb/acre to 1273 lb/acre. The higher yielding varieties were Fibermax 960 B2R and Deltapine Experimental DPLX05X648DR. Phytogen 470 WR had the highest loan value of 56.60 cents per pound.

ACKNOWLEDGMENTS

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

Planted 6-2-05
Harvested 11-22-05

VARIETY	YIELD	% LINT	GRADE	LEAF	STAPLE	MIC	STRENGTH	UNIFORMITY	LOAN VALUE	VALUE /ACRE
Deltapine X05X648DR	1273	34.3	31	2	34	3.8	26.1	79.5	54.30	691.24
FiberMax 960B2R	1207	31.8	31	1	34	3.7	27.0	80.1	54.30	655.40
Deltapine 543DR	1162	32.0	31	1	35	3.8	24.5	79.9	55.25	642.01
FiberMax 960BR	1156	32.6	31	2	35	3.5	27.6	81.8	56.10	648.52
Phytogen 480WR	1121	31.6	31	2	35	3.9	27.0	82.0	56.35	631.68
Deltapine 445BR	1110	34.5	31	1	34	3.8	28.2	81.1	54.30	602.73
FiberMax 800B2R	1101	29.0	31	2	35	3.3	27.3	81.1	54.20	596.74
Phytogen 470 WR	1048	30.6	31	1	35	3.7	28.9	83.0	56.60	593.17
Deltapine 455BR	1039	32.7	31	2	35	3.5	25.1	79.6	55.00	571.45
Deltapine 488BR	1022	32.6	31	2	36	3.2	26.1	79.8	53.30	544.73
Deltapine X04Y170BR	1003	32.0	31	1	34	3.5	25.5	80.4	54.05	542.12
Stoneville ST5599BR	950	30.3	31	1	34	3.5	24.8	79.5	52.95	503.03
Deltapine 555BR	934	33.3	31	2	34	3.3	24.0	79.6	50.85	474.94
Deltapine 454BR	898	32.0	31	2	34	3.1	25.4	80.5	49.35	443.16
Deltapine 449BR	855	28.4	31	2	35	3.6	26.1	80.6	56.10	479.66

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