



## **Result Demonstration/Applied Research Report**

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### **STACKED COTTON VARIETY DEMONSTRATION**

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#### **SUMMARY**

Fourteen cotton varieties were compared in strip plots under similar field conditions. Fibermax 960 B2R, Deltapine 445 BR and Deltapine 455 BR were the highest yielding varieties. Deltapine 449 BR had the highest loan value of 58.05 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. 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 3 inches of pre-irrigation. The varieties were planted in 6 row plots replicated 2 times to a 2X1 pattern on 40" spacing on May 23<sup>rd</sup>. Fertilizer at the rate of 190# of 10-25-0 was knifed in the plots pre-plant. The field had Prowl<sup>®</sup> (1 qt) and Direx<sup>®</sup> (2/3 pt) banded at planting and Roundup Weather-Max<sup>®</sup> at the 4<sup>th</sup> true leaf stage for weed control. The plots received 8.5 inches of summer irrigation and 64 units of Nitrogen fertilizer through the season. No insecticide was applied during the season. The plots were defoliated with Def (1 pt), Prep (1.3 pt) and desiccated with Gramoxone Max<sup>®</sup> (1 pt) + ET (.5 oz). They were stripper harvested on October 24<sup>th</sup> 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 1857 lb/acre to 1603 lb/acre. The higher yielding varieties were Deltapine 445 BR, Deltapine 455 BR and Fibermax 960 B2R. Cotton quality was excellent for all varieties in the test except a couple with low micronaire. Deltapine 449 BR had the highest loan value of 58.05 cents per pound.

Bollworm activity was high in these plots this year. The Bollgard<sup>®</sup> and Widestrike<sup>®</sup> varieties showed their worth against these pests.

## **ACKNOWLEDGMENTS**

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They would also like to thank the seed companies who donated the seed.

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

Planted 5-23-05  
Harvested 10-24-05

VARIETY	YIELD	% LINT	GRADE	LEAF	STAPLE	MIC	STRENGTH	UNIFORMITY	LOAN VALUE	VALUE/ ACRE
Deltapine 445BR	1857	34.1	31	2	37	3.8	28.4	82.4	57.35	1064.99
FiberMax 960B2R	1837	32.2	31	2	37	3.4	28.5	81.7	55.20	1014.02
Deltapine 455BR	1830	35.1	31	3	37	3.6	30.3	82.7	57.35	1049.51
Deltapine X04Y170BR	1809	33.4	31	1	36	3.6	27.0	82.2	56.90	1029.32
Stoneville ST5599BR	1781	33.6	31	2	35	3.7	26.4	80.4	56.35	1003.59
Phytogen 470WR	1765	31.9	31	2	37	3.7	29.5	83.4	57.85	1021.05
FiberMax 800B2R	1760	30.7	31	2	38	3.2	29.2	81.8	53.50	941.60
Deltapine 449BR	1758	32.8	31	2	37	3.7	30.7	83.2	58.05	1020.52
Deltapine X045X648DR	1720	34.5	31	1	36	3.5	26.9	80.9	56.90	978.68
Deltapine 555BR	1709	34.7	31	2	36	3.4	27.7	81.9	55.00	939.95
Deltapine 543DR	1660	33.1	31	2	36	3.6	26.0	80.8	56.90	944.54
Deltapine 488BR	1629	32.3	31	2	36	3.6	28.6	81.2	56.90	926.90
Deltapine 454BR	1617	33.8	31	3	35	3.3	25.8	80.9	52.40	847.31
Phytogen 480WR	1603	30.4	31	3	38	3.9	30.0	82.9	57.60	623.33

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