Result Demonstration Report

2013 STACKED COTTON VARIETY DEMONSTRATION

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Upton County

SUMMARY

Eleven cotton varieties were compared in strip plots under similar field conditions. Stoneville 4946 GLB2, Delatpine 1044 B2RF, Deltapine 1359 B2RF, and Phytogen 375 WRF were the highest yielding varieties. Fibermax 2484 B2RF had the highest loan value of $53.90 cents per pound. Deltapine 1044 B2RF had the highest value/acre.

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 6 inches pre-irrigation. The varieties were planted in 6 row plots to a 2X1 pattern on 40" spacing on May 22nd. The field had Glyphosate (1.5 qt) applied 2 times for weed control. The plots had 200 lbs 10-34-0 knifed pre-plant. The plots received 8 inches of summer irrigation. The plots were fertilized with 50 units of Nitrogen per acre during the season. The plots were defoliated with Prep® (1.5 pt) + Gromoxone® (3 oz). They were desiccated with Gramoxone Inteon® (20 oz). They were stripper harvested on October 31st 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 964 lb/acre to 1257 lb/acre. The higher yielding varieties were. Stoneville 4946 GLB2, Delatpine 1044 B2RF, Deltapine 1359 B2RF, and Phytogen 375 WRF. Fibermax 2484 B2RF had the highest loan value of $53.90 cents per pound and Deltapine 1044 B2RF had the highest value per acre.

ACKNOWLEDGMENTS

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TABLE 1: YIELD QUALITY AND ECONOMIC DATA FOR STACKED VARIETY TEST, RUSS & BO EGGEMEYER FARM 2012. Planted: 05/21/13 Harvested: 10/31/13

2013 Cotton Variety Trial — Texas A&M AgriLife Extension

Name of County: Upton
County ID Number: 461
District number: 6
Year: 2013
Producer: Russ Eggemeyer

Plant Date: 05/21
Harvest Date:11/18
Design: 6 rows, 40" 2X1 , 665 ft, Unreplicated
Fertility:
Herbicide:

Variety	Yield Per Acre In Pounds Lint	Seed	% Turnout Lint	Seed	Fiber Quality Color-Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity	CCC Loan Value	Lint Gross Return ($/acre)	Seed Gross Return ($/acre)	Total Gross Return ($/acre)
DP 1044 B2RF	1218	1718	0.32	0.46	42-3	1.09	4.4	33.2	82.1	$51.60	$628.27	$257.63	$679.87
ST 4946 GLB2	1257	1835	0.34	0.49	42-5	1.07	4.5	32.3	82.0	$48.85	$613.96	$275.18	$662.81
DP 1359 B2RF	1169	1586	0.32	0.44	42-4	1.08	4.2	31.6	81.7	$51.10	$597.54	$237.90	$648.64
PHY 375 WRF	1188	1661	0.33	0.47	42-4	1.06	4.5	32.0	81.1	$50.30	$597.48	$249.14	$647.78
DP 1219 B2RF	1154	1596	0.32	0.44	42-3	1.10	4.1	33.8	80.6	$51.65	$595.86	$239.43	$647.51
FM 2484 B2RF	1087	1475	0.33	0.44	41-4	1.15	4.0	35.6	81.9	$53.90	$585.98	$221.27	$639.88
PHY 499 WRF	1120	1621	0.31	0.45	42-4	1.08	4.4	32.7	81.2	$50.95	$570.66	$243.10	$621.61
PHY 339 WRF	1082	1528	0.32	0.45	41-4	1.06	4.1	32.7	80.7	$52.55	$568.37	$229.22	$620.92
PHY 367 WRF	1084	1586	0.31	0.45	42-3	1.06	4.3	29.7	80.7	$50.40	$546.26	$237.88	$596.66
ATX EDGE B2RF	1125	1755	0.30	0.46	41-6	1.08	4.5	30.3	79.8	$48.30	$543.20	$263.32	$591.50
FM 1944 GLB2	964	1441	0.28	0.42	41-4	1.11	4.3	31.8	80.1	$53.65	$516.96	$216.09	$570.61
Average	1131	1618	0.32	0.45	-	1.09	4.3	32.3	81.1	$51.20	$578.59	$242.74	$629.80
Max.	1257	1835	0.34	0.49	-	1.15	4.50	35.6	82.1	$53.90	$628.27	$275.18	$679.87
Min.	964	1441	0.28	0.42	-	1.06	4.01	29.7	79.8	$48.30	$516.96	$216.09	$570.61

Values that are average or above in a column are background highlighted

Grab samples ginned at the Texas A&M AgriLife Research and Extension Center, Lubbock. Quality analysis at the International Textile Center, Lubbock.

Gross Seed Return based on $300/ton For Questions Contact: Rebel Royall (432)354-2381, Raymond Quigg (432) 693-2313 or Dr. David Drake (325)653-4576