



Result Demonstration Report

2013 STACKED COTTON VARIETY DEMONSTRATION

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SUMMARY

Fourteen cotton varieties were compared in strip plots under similar field conditions. Deltapine 1219 B2RF, Dynagro 2570 B2RF, Stoneville 4946 GLB2, and Phytogen 499 GLB2 were the highest yielding varieties. Phytogen339 WRF had the highest loan value of \$54.85 cents per pound and Deltapine 1219 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 10" pre-irrigation. The varieties were planted in 6 row plots to a 2X1 pattern on 40" spacing on May 17th. The field had Glyphosate (40 oz) applied 1 time for weed control. The plots received 19 inches of summer irrigation. The plots were fertilized with 102 units of Nitrogen per acre applied through the drip tape. The plots were defoliated with 1 oz Sharpen and 24 oz Prep with a second application 8 days later with 2 oz of ET and 24 oz of Paraquat. They were stripper harvested on November 15th 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 1462 lb/acre to 2140 lb/acre. The higher yielding varieties were Deltapine 1219 B2RF, Dynagro 2570 B2RF, Stoneville 4946 GLB2, and Phytogen 499 GLB2. Phytogen339 WRF had the highest loan value of cents per pound and Deltapine 1219 B2RF had the highest value per acre.

ACKNOWLEDGMENTS

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TABLE 1: YIELD QUALITY AND ECONOMIC DATA FOR STACKED VARIETY TEST,

JOHN EVRIDGE FARM 2013. Planted: 05/17/13 Harvested: 11/15/13

2013 Cotton Variety Trial										Texas A&M AgriLife Extension							
Name of County: Upton				Plant Date: 5/17													
County ID Number: 461				Harvest: 11/11													
District number: 6				Design: 8 rows, 837 ft, Unreplicated													
Year: 2013				Fertility:													
Producer: John Evridge				Herbicide:													
Variety	Yield Per Acre				Fiber Quality						CCC Loan Value	Lint Gross Return (\$/acre)	Seed Gross Return (\$/acre)	Total Gross Return (\$/acre)	Loan Val.	HVI Spl #	Variety Order
	In Pounds		% Turnout	Color- Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity									
	Lint	Seed															
DP 1219 B2RF	2140	2986	0.34	0.47	41-2	1.20	4.0	35.0	81.7	\$54.55	\$1,167.28	\$447.84	\$1,221.83	0.5455	163	DP 1219 B2 RF	
DG 2570 B2RF	2037	3073	0.32	0.48	41-4	1.13	4.2	33.0	81.9	\$53.85	\$1,096.77	\$461.00	\$1,150.62	0.5385	162	DG 2570 B2 RF	
ST 4946 GLB2	2110	3183	0.33	0.50	41-5	1.12	3.8	32.6	82.4	\$51.70	\$1,090.68	\$477.48	\$1,142.38	0.5170	164	ST 4946 GL B2	
PHY 499 GLB2	1932	2752	0.30	0.43	41-3	1.16	4.3	33.1	83.3	\$54.60	\$1,054.97	\$412.83	\$1,109.57	0.5460	174	PHY 499 GL B2	
DP 1359 B2RF	1913	2782	0.31	0.45	41-3	1.17	3.8	34.6	81.1	\$54.55	\$1,043.31	\$417.30	\$1,097.86	0.5455	168	DP 1359 B2 RF	
DP 1044 B2RF	1833	2815	0.32	0.49	41-3	1.13	4.2	31.0	81.2	\$54.45	\$997.96	\$422.24	\$1,052.41	0.5445	173	DP 1044 B2 RF	
FM 2989 B2RF	1809	2807	0.32	0.49	41-3	1.18	4.2	33.0	82.8	\$54.65	\$988.77	\$421.08	\$1,043.42	0.5465	175	FM 2989 B2 RF	
PHY 339 WRF	1745	2636	0.29	0.44	41-3	1.18	4.0	35.8	84.0	\$54.85	\$957.07	\$395.39	\$1,011.92	0.5485	165	PHY 339 WRF	
PHY 375 GLB2	1770	2716	0.31	0.48	41-4	1.12	4.1	32.0	81.9	\$53.80	\$952.22	\$407.46	\$1,006.02	0.5380	169	PHY 375 GL B2	
FM 2484 B2RF	1819	2722	0.33	0.49	41-5	1.22	3.5	33.3	82.7	\$51.60	\$938.57	\$408.37	\$990.17	0.5160	172	FM 2484 B2 RF	
ATX EDGE B2RF	1777	2856	0.30	0.49	51-6	1.13	4.2	34.8	81.8	\$47.60	\$846.09	\$428.39	\$893.69	0.4760	166	ATX EDGE B2 RF	
FM 1944 GLB2	1626	2616	0.30	0.48	41-5	1.19	3.9	34.1	82.8	\$51.75	\$841.49	\$392.44	\$893.24	0.5175	167	FM 1944 GL B2	
PHY 367 GLB2	1462	2099	0.32	0.45	41-4	1.14	4.4	32.9	83.0	\$53.85	\$787.32	\$314.85	\$841.17	0.5385	171	PHY 367 GL B2	
ATX NITRO B2RF	1653	2576	0.30	0.46	51-7	1.19	3.7	35.2	82.7	\$45.85	\$757.86	\$386.36	\$803.71	0.4585	170	ATX NITRO B2 RF	
Average	1830	2759	0.31	0.47	-	1.16	4.0	33.6	82.4	\$52.69	\$965.74	\$413.79	\$1,018.43				
Max.	2140	3183	0.34	0.50	-	1.22	4.36	35.8	84.0	\$54.85	\$1,167.28	\$477.48	\$1,221.83				
Min.	1462	2099	0.29	0.43	-	1.12	3.53	31.0	81.1	\$45.85	\$757.86	\$314.85	\$803.71				
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																	

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