



Result Demonstration Report

2013 STACKED COTTON VARIETY DEMONSTRATION

Cooperator: Allan Fuchs

Rebel Royall, CEA-AG, Glasscock County, Garden City, Texas

Raymond Quigg, CEA-AG, Upton County, Rankin, Texas

Chase McPhaul, Reagan County, Big Lake, Texas

Brad Easterling, EA-IPM, Glasscock, Reagan, and Upton Counties, Garden City, Texas

Glasscock County

SUMMARY

Thirteen cotton varieties were compared in strip plots under similar field conditions. Deltapine 1219 B2RF, Dynagro 2570 B2RF, Deltapine 1044 B2RF and Fibermax 2484 B2RF were the highest yielding varieties. Deltapine 1219 B2RF had the highest loan value of \$56.80 cents per pound and 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 28th. The field had Glyphosate (40 oz) applied 2 times for weed control. The plots received 12 inches of summer irrigation. The plots were fertilized with 120 units of Nitrogen per acre and 20 units of Potassium during the season. The plots were defoliated with Prep[®] (1 pt) + Folex[®] (1 pt) and desiccated with Gramoxone Inteon[®] (23 oz) and Aim[®] (.25 oz). They were stripper harvested on November 13th 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 1409 lb/acre to 1593 lb/acre. The higher yielding varieties were Deltapine 1219 B2RF, Dynagrow 2570 B2RF, and Deltapine 1044 B2RF. Deltapine 1219 B2RF had the highest loan value of \$56.80 cents per pound and had the highest value per acre.

ACKNOWLEDGMENTS

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

ALLAN FUCHS FARM 2013. Plant Date: May 28, 2013 Harvest Date: November 18, 2013

2013 Cotton Variety Trial										Texas A&M AgriLife Extension				
Name of County:		Glasscock				Plant Date:								
County ID Number:		173				Harvest Date:								
District number:		6				Design:		6 rows, 40" 2X1 , 1171 ft, Unreplicated						
Year:		2013				Fertility:								
Producer:		Allan Fuchs				Herbicide:								
Variety	Yield Per Acre				Fiber Quality					CCC Loan Value	Lint Gross Return (\$/acre)	Seed Gross Return (\$/acre)	Total Gross Return (\$/acre)	
	In Pounds		% Turnout		Color- Leaf	Fiber Length (staple)	Mic	Strength (gram/tex)	Uniformity					
	Lint	Seed	Lint	Seed										
DP 1219 B2RF	1593	2315	0.33	0.48	31-3	1.17	4.0	33.7	81.7	\$56.80	\$905.10	\$347.21	\$961.90	
DG 2570 B2RF	1611	2303	0.35	0.50	41-3	1.10	4.7	33.3	83.4	\$54.10	\$871.61	\$345.51	\$925.71	
DP 1044 B2RF	1584	2371	0.32	0.48	41-3	1.14	4.2	32.5	83.9	\$54.65	\$865.52	\$355.66	\$920.17	
FM 2484 B2RF	1598	2304	0.33	0.48	31-5	1.19	3.9	33.5	83.0	\$54.15	\$865.19	\$345.60	\$919.34	
PHY 499 WRF	1565	2208	0.34	0.47	41-3	1.13	4.3	32.1	83.7	\$54.50	\$853.05	\$331.25	\$907.55	
ST 4946 GLB2	1636	2447	0.33	0.49	41-5	1.17	4.1	35.7	83.6	\$51.85	\$848.50	\$367.07	\$900.35	
DP 1359 B2RF	1503	2016	0.35	0.47	41-2	1.15	4.5	33.7	81.6	\$54.40	\$817.80	\$302.34	\$872.20	
ATX Edge B2RF	1478	2142	0.33	0.47	41-4	1.15	4.4	33.7	81.9	\$53.75	\$794.39	\$321.27	\$848.14	
ATX Nitro B2RF	1463	2250	0.32	0.49	41-4	1.19	4.1	35.7	82.9	\$54.00	\$789.86	\$337.47	\$843.86	
PHY 339 WRF	1441	1996	0.33	0.46	41-2	1.17	4.3	33.7	82.5	\$54.65	\$787.57	\$299.41	\$842.22	
PHY 367 WRF	1421	2063	0.31	0.45	41-3	1.13	4.3	33.4	82.5	\$54.45	\$773.70	\$309.42	\$828.15	
FM 1944 GLR2	1409	2204	0.30	0.48	41-2	1.17	4.3	32.5	80.8	\$54.50	\$767.71	\$330.58	\$822.21	
PHY 375 WRF	1410	2050	0.32	0.47	41-2	1.11	4.5	31.3	81.8	\$54.30	\$765.58	\$307.57	\$819.88	
Average	1516	2205	0.33	0.48	-	1.15	4.3	33.4	82.6	\$54.32	\$823.51	\$330.80	\$877.82	
Max.	1636	2447	0.35	0.50	-	1.19	4.73	35.7	83.9	\$56.80	\$905.10	\$367.07	\$961.90	
Min.	1409	1996	0.30	0.45	-	1.10	3.89	31.3	80.8	\$51.85	\$765.58	\$299.41	\$819.88	
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 or Dr. David Drake (325)653-4576														

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