



Result Demonstration Report

2013 STACKED COTTON VARIETY DEMONSTRATION

Cooperator: John Evridge

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

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

Chase McPhaul, Reagan County, Big Lake, Texas

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

Glasscock County

SUMMARY

Fourteen cotton varieties were compared in strip plots under similar field conditions. Deltapine 1219 B2RF, Stoneville 4946 GLB2, Dynagro 2570 B2RF and Phytogen 499 GLB2 were the highest yielding varieties. Phytogen 339 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 8 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, Stoneville 4946 GLB2, Dynagro 2570 B2RF and Phytogen 499 GLB2. Phytogen 339 WRF had the highest loan value of 54.85 cents per pound and Deltapine 1219 B2RF had the highest value per acre. Stoneville 4946 GLB2 and Dynagro 2570 B2RF also had high Total Gross Returns/Acre.

ACKNOWLEDGMENTS

The authors would like to thank Mr. John Evridge for cooperating in this demonstration.

They would also like to thank the seed companies who donated the seed and Dr. David Drake for analysis.



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:	5/17/2013								
County ID Number:	461				Harvest Date:	11/15/2013								
District number:	6				Design:	8 rows, 40" 2X1, 837 ft, Unreplicated								
Year:	2013				Fertility:	102 Units N in Season								
Producer:	John Evridge				Herbicide:	40 oz. Glyphosate x1								
Fiber Quality											Lint	Seed	Total	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross	
In Pounds		% Turnout			Color-	Length		Strength		Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformity	Value	(\$/acre)	(\$/acre)	(\$/acre)	
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	\$1,615.11	
ST 4946 GLB2	2110	3183	0.33	0.50	41-5	1.12	3.9	32.6	82.4	\$51.70	\$1,090.68	\$477.48	\$1,568.16	
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	\$1,557.77	
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	\$1,467.80	
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	\$1,460.61	
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	\$1,420.21	
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	\$1,409.84	
PHY 375 WRF	1770	2716	0.31	0.48	41-4	1.12	4.1	32.0	81.9	\$53.80	\$952.22	\$407.46	\$1,359.68	
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	\$1,352.46	
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	\$1,346.94	
ATX EDGE B2RF	1777	2856	0.30	0.49	51-6	1.13	4.2	34.6	81.8	\$47.60	\$846.09	\$428.39	\$1,274.48	
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	\$1,233.93	
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	\$1,144.23	
PHY 367 WRF	1462	2099	0.32	0.45	41-4	1.14	4.4	32.9	83.0	\$53.85	\$787.32	\$314.85	\$1,102.17	
Average	1830	2759	0.31	0.47	-	1.16	4.0	33.6	82.4	\$52.69	\$965.74	\$413.79	\$1,379.53	
Max.	2140	3183	0.34	0.50	-	1.22	4.36	35.8	84.0	\$54.85	\$1,167.28	\$477.48	\$1,615.11	
Min.	1462	2099	0.29	0.43	-	1.12	3.53	31.0	81.1	\$45.85	\$757.86	\$314.85	\$1,102.17	

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



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. Stoneville 4946 GLB2, Dynagro 2570 B2RF, Deltapine 1219 B2RF, and Deltapine 1044 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.

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.



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 1636 lb/acre. The higher yielding varieties were Stoneville 4946 GLB2, Dynagro 2570 B2RF, Deltapine 1219 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. DP 1044 B2RF and Dynagro 2570 B2RF also had high Total Gross Returns/Acre.

ACKNOWLEDGMENTS

The authors would like to thank Mr. Allan Fuchs for cooperating in this demonstration.

They would also like to thank the seed companies who donated the seed and Dr. David Drake for analysis.



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:	5/28/2013							
County ID Number:	173				Harvest Date:	11/13/2013							
District number:	6				Design:	6 rows, 40" 2X1, 1171 ft, Unreplicated							
Year:	2013				Fertility:	120 Units N + 20 Units P- in Season							
Producer:	Allan Fuchs				Herbicide:	40 oz. Glyphosate x2							
Fiber Quality										Lint	Seed	Total	
Yield Per Acre					Fiber					CCC	Gross	Gross	Total
In Pounds		% Turnout		Color-	Length	Strength		Loan	Return	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)	Uniformit	Value	(\$/acre)	(\$/acre)	(\$/acre)
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	\$1,252.31
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	\$1,221.18
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	\$1,217.12
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	\$1,215.58
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	\$1,210.79
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	\$1,184.30
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	\$1,127.33
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	\$1,120.14
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	\$1,115.66
FM 1944 GLB2	1409	2204	0.30	0.48	41-2	1.17	4.3	32.5	80.8	\$54.50	\$767.71	\$330.58	\$1,098.29
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	\$1,086.98
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	\$1,083.12
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	\$1,073.15
Average	1516	2205	0.33	0.48	-	1.15	4.3	33.4	82.6	\$54.32	\$823.51	\$330.80	\$1,154.30
Max.	1636	2447	0.35	0.50	-	1.19	4.73	35.7	83.9	\$56.80	\$905.10	\$367.07	\$1,252.31
Min.	1409	1996	0.30	0.45	-	1.10	3.89	31.3	80.8	\$51.85	\$765.58	\$299.41	\$1,073.15

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

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.



Result Demonstration Report

2013 STACKED COTTON VARIETY DEMONSTRATION

Cooperator: Russ & Bo Eggemeyer

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

Upton County

SUMMARY

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

ACKNOWLEDGMENTS

The authors would like to thank Mr. Russ Eggemeyer and Mr. Bo Eggemeyer for cooperating in this demonstration.

They would also like to thank the seed companies who donated the seed and Dr. David Drake for analysis.



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			Plant Date:			5/22/2013						
County ID Number:	461			Harvest Date:			10/31/2013						
District number:	6			Design:			6 rows, 40" 2X1 , 665 ft, Unreplicated						
Year:	2013			Fertility:			200 lbs, 10-34-0 Pre + 50 Units N in Season						
Producer:	Russ Eggemeyer			Herbicide:			1.5 qt. Glyphosate x2						
Fiber Quality										Lint	Seed	Total	
Yield Per Acre					Fiber					CCC	Gross	Gross	Gross
In Pounds		% Turnout			Color-	Length	Strength	Uniformity	Loan	Return	Return	Return	
Variety	Lint	Seed	Lint	Seed	Leaf	(staple)	Mic	(gram/tex)		Value	(\$/acre)	(\$/acre)	(\$/acre)
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	\$889.14
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	\$885.90
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	\$846.62
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	\$835.45
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	\$835.29
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	\$813.75
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	\$807.25
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	\$806.52
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	\$797.58
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	\$784.14
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	\$733.05
Average	1131	1618	0.32	0.45	-	1.09	4.3	32.3	81.1	\$51.20	\$578.59	\$242.74	\$821.34
Max.	1218	1755	0.33	0.47	-	1.15	4.50	35.6	82.1	\$53.90	\$628.27	\$263.32	\$885.90
Min.	964	1441	0.28	0.42	-	1.06	4.01	29.7	79.8	\$48.30	\$516.96	\$216.09	\$733.05

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



Eggemeyer	Evridge	Fuchs	Just	Avg. Yield Across Trials	Avg. Gross Profit
DP 1219 B2RF	DG 2570 B2RF	DG 2570 B2RF	DG 2570 B2RF	3	\$1,387.45
ST 4946 GLB2	DP 1219 B2RF	DP 1219 B2RF	DP 1219 B2RF	4	\$1,234.24
DP 1044 B2RF	ST 4946 GLB2	ST 4946 GLB2	ST 4946 GLB2	4	\$1,224.29
PHY 499 WRF	DP 1044 B2RF	DP 1044 B2RF	DP 1044 B2RF	4	\$1,175.76
DP 1359 B2RF	PHY 499 WRF	PHY 499 WRF	PHY 499 WRF	4	\$1,155.28
FM 2484 B2RF	DP 1359 B2RF	DP 1359 B2RF	DP 1359 B2RF	4	\$1,138.73
PHY 375 WRF	FM 2484 B2RF	FM 2484 B2RF	FM 2484 B2RF	3	\$1,121.66
PHY 339 WRF	PHY 375 WRF	PHY 375 WRF	PHY 375 WRF	4	\$1,093.15
ATX EDGE B2RF	PHY 339 WRF	PHY 339 WRF	PHY 339 WRF	4	\$1,079.01
FM 1944 GLB2	ATX EDGE B2RF	ATX Edge B2RF	ATX EDGE B2RF	4	\$1,065.55
PHY 367 WRF	FM 1944 GLB2	FM 1944 GLB2	FM 1944 GLB2	4	\$1,021.76
	PHY 367 WRF	PHY 367 WRF	PHY 367 WRF	4	\$989.81
	FM 2989 B2RF			1	\$1,809.28
	ATX NITRO B2RF	ATX Nitro B2RF		2	\$1,135.78
			FM 2011 GT	1	1362
			FM 9250 GL	1	1337
			DG 2595 B2RF	1	1255
			ST 6448 GLB2	1	1069

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.