

2011 San Angelo Texas AgriLife Uniform Irrigated Cotton Variety Trial (experimentals included)

David R. Drake, Extension Agronomist, San Angelo, TX

Producers Name: Michael Block, Wall, TX

Drip irrigated on 40" spacing perpendicular to rows

Pest Control: Seed treatments

For Questions about this Variety Trial Contact: drdrake@ag.tamu.edu or (325)653-4576

Plant Date: 6-1-2011, 40" rows, ave. plant stand 46,600, sds/ac

Design: 4 row plots 30ft in length, 4 replications in RCBD, 4 rows harvested

Harvest Date: 10-25-2010, stripper

Two or three turnout and quality samples ginned at AgriLife Research and Extension Center in Lubbock, TX



Variety ¹	Yield Per Acre		Fiber Quality ²							CCC Loan Value ⁴	Lint Gross Return (\$/acre)	Seed Gross Return ⁵ (\$/acre)	Total Gross Return (\$/acre)
	In Pounds		% Turnout		Fiber				Uniformity				
	Lint	Seed	Lint	Seed	Color- Leaf ³	Length (staple)	Mic	Strength (gram/tex)					
	-----	-----	-----	-----	-----	-----	-----	-----					
ATX 10W784 RF	1586	2347	0.30	0.44	11-1*	1.05	4.10	28.6	80.4	\$52.88	\$838.43	\$293.31	\$1,131.74
FM 2484 B2F	1482	2595	0.26	0.45	11-1*	1.10	4.44	30.1	80.4	\$56.25	\$833.62	\$324.42	\$1,158.04
FM 9170 B2F	1410	2568	0.25	0.46	11-1	1.10	4.55	29.9	80.8	\$56.25	\$793.30	\$321.05	\$1,114.35
DP 0935 B2RF	1499	2564	0.27	0.46	12-1	1.04	4.90	28.2	80.2	\$52.13	\$781.51	\$320.54	\$1,102.04
PHY 499 WRF	1328	1987	0.28	0.42	22-1*	1.01	5.04	30.8	80.1	\$49.15	\$652.91	\$248.33	\$901.24
ATX Epic RF	1296	2190	0.27	0.45	13-2*	1.00	4.90	28.5	79.9	\$49.75	\$644.63	\$273.79	\$918.42
ATX 91139 B2RF	1181	1954	0.27	0.44	21-2*	1.06	4.37	28.2	80.5	\$53.85	\$636.11	\$244.28	\$880.39
PHY 565 WRF	1187	2204	0.24	0.44	22-1	1.07	4.92	30.3	80.7	\$51.93	\$616.53	\$275.50	\$892.03
DP 1252 B2R2	1175	1748	0.28	0.42	22-2*	1.05	4.72	28.9	79.6	\$51.65	\$606.71	\$218.48	\$825.19
FM 1740 B2F	1161	2062	0.25	0.45	21-2	1.05	5.05	30.0	80.5	\$51.45	\$597.33	\$257.71	\$855.04
DP 1133 B2RF	1133	1767	0.26	0.40	22-1*	1.04	4.89	30.3	80.1	\$51.40	\$582.55	\$220.87	\$803.43
ST 4288 B2F	1103	2270	0.21	0.44	22-2*	1.04	4.68	27.2	79.6	\$51.00	\$562.32	\$283.80	\$846.13
AM 1550 B2RF	1149	2029	0.25	0.44	12-1*	0.97	4.99	26.6	78.8	\$47.90	\$550.14	\$253.68	\$803.82
FM 2989 GLB2	1043	1945	0.24	0.45	12-1*	1.05	4.86	29.3	79.9	\$52.70	\$549.65	\$243.17	\$792.82
DP 1032 B2RF	1061	1620	0.29	0.44	12-1*	1.04	4.86	29.1	79.3	\$51.75	\$549.00	\$202.53	\$751.53
DP 1044 B2RF	1049	2044	0.24	0.47	12-1*	1.04	4.90	30.3	79.3	\$52.10	\$546.44	\$255.44	\$801.88
ATX Edge B2RF	1025	1962	0.24	0.45	21-2*	1.04	4.95	29.8	79.5	\$51.50	\$527.65	\$245.26	\$772.91
DP 10R051 B2R2	972	1521	0.28	0.43	12-1	1.06	4.66	29.0	80.7	\$52.80	\$512.96	\$190.07	\$703.02
ATX 3039 B2RF	960	1842	0.23	0.45	22-2*	1.06	4.78	26.7	79.9	\$52.33	\$502.42	\$230.26	\$732.69
FM 9160 B2F	875	1692	0.23	0.44	11-1*	1.11	4.34	28.9	81.1	\$56.98	\$498.68	\$211.45	\$710.13
see additional entries on page 2													
Average	1061	1865	0.25	0.44	-	1.05	4.74	29.17	79.95	\$51.95	\$551.02	\$233.07	\$784.09
P>(F) ⁶	0.001	0.001	0.001	0.001	-	0.001	0.001	0.001	0.001	-----	min/max	-----	-----
LSD (P=0.05)	246	389	0.029	0.026	-	0.029	0.136	1.185	1.099	\$46.38	\$297.26	\$132.36	\$429.62
CV %	16.6	15.0	5.8	3.0	-	1.39	1.4	2.0	0.7	\$56.98	\$838.43	\$324.42	\$1,158.04

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Variety ¹	Yield Per Acre		Fiber Quality ²							Lint	Seed	Total	
	In Pounds		% Turnout		Color- Leaf ³	Fiber			CCC	Gross	Gross	Total	
	Lint	Seed	Lint	Seed		Length (staple)	Mic	Strength (gram/tex)	Uniformity	Loan	Return ⁵	Return ⁵	Return
					Value ⁴					(\$/acre)	(\$/acre)	(\$/acre)	
ATX 91322 B2RF	937	1786	0.23	0.44	22-2	1.07	4.49	29.2	79.6	\$53.15	\$498.26	\$223.19	\$721.45
ST 5458 B2RF	1064	1945	0.24	0.45	22-1*	1.00	5.19	28.3	78.7	\$46.38	\$493.38	\$243.14	\$736.52
PHY 375 WRF	984	1711	0.24	0.42	12-1*	0.99	4.73	27.4	78.7	\$49.03	\$482.19	\$213.82	\$696.00
DP 1050 B2RF	921	1477	0.27	0.43	12-1	1.04	4.60	28.3	80.2	\$52.13	\$480.11	\$184.69	\$664.80
PHY 367 WRF	924	1616	0.24	0.41	12-1*	1.03	4.76	29.9	79.8	\$51.70	\$477.72	\$201.98	\$679.71
FM 9180 B2F	855	1774	0.21	0.44	21-2*	1.11	4.64	31.2	80.6	\$55.80	\$476.95	\$221.70	\$698.65
NG 4012 B2RF	899	1713	0.23	0.44	12-1*	1.05	4.55	30.0	79.8	\$51.98	\$467.18	\$214.15	\$681.33
AM 1511 B2RF	931	1515	0.26	0.42	22-1*	1.00	4.94	30.1	79.0	\$49.43	\$460.20	\$189.43	\$649.63
ATX Dinero B2RF	902	1746	0.24	0.46	12-1*	1.04	4.70	28.0	78.9	\$50.70	\$457.48	\$218.22	\$675.71
DP 1137 B2RF	812	1479	0.23	0.42	12-1	1.04	4.70	28.8	80.5	\$52.13	\$423.18	\$184.82	\$608.00
AMX 003 B2RF	863	1445	0.25	0.41	31-4*	1.03	5.14	27.7	79.8	\$48.00	\$414.46	\$180.57	\$595.03
ATX 9W2863 B2RF	684	1355	0.21	0.43	22-3	1.10	4.90	31.1	80.9	\$54.45	\$372.41	\$169.40	\$541.82
ATX 81144 B2RF	553	1059	0.21	0.41	22-3*	1.12	4.40	32.6	81.5	\$53.73	\$297.26	\$132.36	\$429.62
Average	1061	1865	0.25	0.44	-	1.05	4.74	29.17	79.95	\$51.95	\$551.02	\$233.07	\$784.09
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¹ Values for varieties shaded in yellow are not significantly different than the highest treatment in the column and values shaded in orange are above the average value for that parameter/column

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Mention of a trademark or a proprietary product does not constitute an endorsement of the product by Texas AgriLife Extension Service and does not imply its approval to the exclusion of other products that also may be suitable. Abbreviations include: All-Tex Experimental (ATX), Bollguard II (B2), Croplan Genetics (CG), DeltaPine (DP), Dyna-Gro (DG), FiberMax (FM), NexGen (NG), Phytogen (PHY), Roundup Flex (F or RF), Stoneville (ST), and Widestrike (W).

² Fiber quality analysis conducted by sending two ginned fiber subsamples for HVI at the Fiber and biopolymer Research Institute, Texas Tech University, Lubbock, TX

³ color and leaf grade based on two samples. Values followed by an (*) indicate a difference between the samples.

⁴ CCC loan value based on cotton stored at Sweetwater, TX. Base \$51.70

⁵ Gross Seed Return based on \$250/ton

⁶ The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties. Differences between varieties that are greater than the LSD indicate a significant difference between them for the measurement in a column.

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Drip irrigated on 40" spacing perpendicular to rows

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Plant Date: 6-1-2011, 40" rows, ave. plant stand 46,600, sds/ac

Design: 4 row plots 30ft in length, 4 replications in RCBD, 4 rows harvested

Harvest Date: 10-25-2010, stripper

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Variety ¹	Yield Per Acre		Fiber Quality ²							Lint	Seed	Total	
	In Pounds		% Turnout		Fiber			CCC	Gross	Gross	Gross		
	Lint	Seed	Lint	Seed	Color-Leaf ³	Length (staple)	Mic	Strength (gram/tex)	Uniformity	Loan Value ⁴	Return (\$/acre)	Return ⁵ (\$/acre)	Return (\$/acre)
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
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email: drdrake@ag.tamu.edu

phone: (325)653-4576

website: http://sanangelo.tamu.edu

2011 San Angelo Texas AgriLife Uniform Irrigated Cotton Variety Trial
 David R. Drake, Extension Agronomist and Richard Minzenmayer, IPM Agent
 Planted 6-1-11 Drip Irrigation
 Cooperator: Micheal Block, Wall, TX

Variety or Experimental Line ¹	plant pop/ac	Seedling Vigor Ratings 6-8-11	Vigor Ratings 6 leaf stage
		Average of 2 replications 9 = Excellent	Average of 4 replications 9 = Excellent
1 FM 9180 B2F	34,797	6.5	7.75
2 FM 2484 B2F	39,698	6.5	7.75
3 FM 9160 B2F	34,307	6.0	7.00
4 FM 1740 B2F	37,248	7.0	7.63
5 FM 9170 B2F	42,475	7.0	7.75
6 FM 2989 GLB2	36,104	7.0	7.25
7 ST 5458 B2RF	40,188	7.5	7.75
8 ST 4288 B2F	37,248	7.5	7.75
9 DP 1133 B2RF	35,117	4.0	6.50
10 DP 1137 B2RF	31,530	5.5	6.75
11 DP 10R052 B2R2	36,267	6.0	6.88
12 DP 0935 B2RF	32,673	7.0	8.25
13 DP 1032 B2RF	33,490	5.5	6.75
14 DP 1044 B2RF	33,980	6.0	7.13
15 DP 1050 B2RF	37,411	5.5	6.50
16 DP 10R051 B2R2	33,653	5.0	6.75
17 AM 1511 B2RF	31,040	6.5	7.25
18 AMX 003 B2RF	28,099	5.5	7.00
19 NG 4012 B2RF	41,658	8.0	8.00
20 AM 1550 B2RF	35,941	5.5	7.38
21 PHY 499 WRF	43,292	8.5	8.00
22 PHY 367 WRF	40,515	7.0	7.25
23 PHY 565 WRF	33,817	5.5	7.50
24 PHY 375 WRF	41,495	7.0	8.00
25 ATX 81227 B2RF	33,653	6.0	7.63
26 ATX 81144 B2RF	30,550	5.5	6.75
27 ATX 81220 B2RF	35,450	6.0	7.50
28 ATX 9W2863 B2RF	38,554	6.5	7.25
29 ATX 91139 B2RF	31,856	5.5	6.38
30 ATX 91322 B2RF	33,000	7.0	7.50
31 ATX 3039 B2RF	31,856	7.5	7.75
32 ATX Epic RF	29,079	6.0	7.00
33 ATX 10W784 RF	31,856	5.5	6.75

¹ Experimental lines may have reduced seedling vigor because seed could have originated from a winter nursery.

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 drdrake@ag.tamu.edu

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 David R. Drake, Extension Agronomist and Richard Minzenmayer, IPM Agent
 Seeded 6-1-11 at 46,600 seeds/ac
 Cooperator: Micheal Block, Wall, TX

Entry #	Variety or Experimental Line ¹	plant pop/ac 6-27-11	Seedling Vigor Ratings 6-8-11	Vigor Ratings 6 leaf stage
			Average of 2 replications 9 = Excellent	6-27-11 Average of 4 replications 9 = Excellent
21	PHY 499 WRF	43,292	8.5	8.00
5	FM 9170 B2F	42,475	7.0	7.75
19	NG 4012 B2RF	41,658	8.0	8.00
24	PHY 375 WRF	41,495	7.0	8.00
22	PHY 367 WRF	40,515	7.0	7.25
7	ST 5458 B2RF	40,188	7.5	7.75
2	FM 2484 B2F	39,698	6.5	7.75
28	ATX 9W2863 B2RF	38,554	6.5	7.25
15	DP 1050 B2RF	37,411	5.5	6.50
4	FM 1740 B2F	37,248	7.0	7.63
8	ST 4288 B2F	37,248	7.5	7.75
11	DP 10R052 B2R2	36,267	6.0	6.88
6	FM 2989 GLB2	36,104	7.0	7.25
20	AM 1550 B2RF	35,941	5.5	7.38
27	ATX 81220 B2RF	35,450	6.0	7.50
9	DP 1133 B2RF	35,117	4.0	6.50
1	FM 9180 B2F	34,797	6.5	7.75
3	FM 9160 B2F	34,307	6.0	7.00
14	DP 1044 B2RF	33,980	6.0	7.13
23	PHY 565 WRF	33,817	5.5	7.50
16	DP 10R051 B2R2	33,653	5.0	6.75
25	ATX 81227 B2RF	33,653	6.0	7.63
13	DP 1032 B2RF	33,490	5.5	6.75
30	ATX 91322 B2RF	33,000	7.0	7.50
12	DP 0935 B2RF	32,673	7.0	8.25
29	ATX 91139 B2RF	31,856	5.5	6.38
31	ATX 3039 B2RF	31,856	7.5	7.75
33	ATX 10W784 RF	31,856	5.5	6.75
10	DP 1137 B2RF	31,530	5.5	6.75
17	AM 1511 B2RF	31,040	6.5	7.25
26	ATX 81144 B2RF	30,550	5.5	6.75
32	ATX Epic RF	29,079	6.0	7.00
18	AMX 003 B2RF	28,099	5.5	7.00

¹ Experimental lines may have reduced seedling vigor because seed could have originated from a winter nursery.

For Questions about this Variety Trial Contact: Dr. David Drake,
 Texas AgriLife Extension San Angelo, TX (325)653-4576 or drdrake@ag.tamu.edu

2011 San Angelo Texas AgriLife Uniform Irrigated Cotton Variety Trial
 David R. Drake, Extension Agronomist and Richard Minzenmayer, IPM Agent
 Seeded 6-1-11 at 46,600 seeds/ac
 Cooperator: Micheal Block, Wall, TX

Entry #	Variety or Experiment	plant pop/ac 6-27-11	Seedling Vigor Ratings 6-8-11	Vigor Ratings 6 leaf stage
			Average of 2 replications 9 = Excellent	6-27-11 Average of 4 replications 9 = Excellent
12	DP 0935 B2RF	32,673	7.0	8.25
21	PHY 499 WRF	43,292	8.5	8.00
19	NG 4012 B2RF	41,658	8.0	8.00
24	PHY 375 WRF	41,495	7.0	8.00
5	FM 9170 B2F	42,475	7.0	7.75
7	ST 5458 B2RF	40,188	7.5	7.75
2	FM 2484 B2F	39,698	6.5	7.75
8	ST 4288 B2F	37,248	7.5	7.75
1	FM 9180 B2F	34,797	6.5	7.75
31	ATX 3039 B2RF	31,856	7.5	7.75
4	FM 1740 B2F	37,248	7.0	7.63
25	ATX 81227 B2RF	33,653	6.0	7.63
27	ATX 81220 B2RF	35,450	6.0	7.50
23	PHY 565 WRF	33,817	5.5	7.50
30	ATX 91322 B2RF	33,000	7.0	7.50
20	AM 1550 B2RF	35,941	5.5	7.38
22	PHY 367 WRF	40,515	7.0	7.25
28	ATX 9W2863 B2RF	38,554	6.5	7.25
6	FM 2989 GLB2	36,104	7.0	7.25
17	AM 1511 B2RF	31,040	6.5	7.25
14	DP 1044 B2RF	33,980	6.0	7.13
3	FM 9160 B2F	34,307	6.0	7.00
32	ATX Epic RF	29,079	6.0	7.00
18	AMX 003 B2RF	28,099	5.5	7.00
11	DP 10R052 B2R2	36,267	6.0	6.88
16	DP 10R051 B2R2	33,653	5.0	6.75
13	DP 1032 B2RF	33,490	5.5	6.75
33	ATX 10W784 RF	31,856	5.5	6.75
10	DP 1137 B2RF	31,530	5.5	6.75
26	ATX 81144 B2RF	30,550	5.5	6.75
15	DP 1050 B2RF	37,411	5.5	6.50
9	DP 1133 B2RF	35,117	4.0	6.50
29	ATX 91139 B2RF	31,856	5.5	6.38

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 Seeded 6-1-11 at 46,600 seeds/ac
 Cooperator: Micheal Block, Wall, TX

Entry #	Variety Experimental Line ¹	plant pop/ac 6-27-11	Seedling Vigor Ratings 6-8-11	Vigor Ratings 6 leaf stage 6-27-11
			Average of 2 replications 9 = Excellent	Average of 4 replications 9 = Excellent
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