



2010 County Variety Trial Performance

Variety Performance

In recent years, cotton varieties are being developed, marketed, and replaced in a matter of only a few years. This makes it important for producers to be aware of new varieties that may be adapted to their area as soon as possible. In 2010, we established 16 county variety tests (9 dryland sites and 7 irrigated sites). All 16 trials were harvested.

All experiments were established on plots four rows by 30 feet, replicated four times. Plots were seeded with a John Deere 1760 four row planter outfitted with a four row cone unit. In early-season, alley areas between plots were tilled to facilitate harvesting, and plots were maintained by the producer the same as the rest of the field. Harvest aids were applied by the producer, and plots were harvested with a two row stripper equipped with a bagging system, scale, and data logger to record weights. Samples were taken and ginned on a small plot gin, and lint samples were analyzed by the Texas Tech Fiber Lab. Micronaire, fiber length, uniformity, and strength were determined for each variety.

The following tables show results from each test. It should be emphasized that in any single year or location, specific variety performance may vary due to its response to soil type and environmental conditions, stresses during the season, and location in the state. For this reason, it is better to look at multiple years of data on a variety, as well as soil type, location, and growing conditions in the test area as compared to your area. The same twenty varieties were planted at all irrigated locations and the same twenty varieties were planted at all dryland locations. The variety lists for both irrigated and dryland trials are presented below along with a generalization of how the plots were arranged at each locations.

2010 Variety Lists

Irrigated Varieties

Trt No.	Entry
1.	FM 9170B2F
2.	FM 1740B2F
3.	FM 9160B2F
4.	ST 4288B2F
5.	FM 9180B2F
6.	ST 5458B2F
7.	ST 5288B2F
8.	PHY 367WRF
9.	PHY 375WRF
10.	PHY 565WRF
11.	DP 1028B2F
12.	DP 1032B2F
13.	DP 0935B2F
14.	DP 0924B2F
15.	DP 1034B2F
16.	AT ApexB2F
17.	AT 65207B2F
18.	DG 2570B2F
19.	DP 1137 B2F
20.	DP 1133 B2F

Dryland Varieties

Trt No.	Entry
1.	FM 9170B2F
2.	FM 1740B2F
3.	FM 9160B2F
4.	ST 4288B2F
5.	FM 9180B2F
6.	ST 5458B2F
7.	ST 5288B2F
8.	PHY 367WRF
9.	PHY 375WRF
10.	PHY 565WRF
11.	DP 1044B2F
12.	DP 1048B2F
13.	DP 0935B2F
14.	DP 1050B2F
15.	DP 1034B2F
16.	AT EpicRF
17.	AT 81158RF
18.	FM 9058F
19.	DP 1137 B2F
20.	DP 1133 B2F

Plot Layout Information:

Plots are 4 rows wide, by 30 ft long, replicated 4 times (each variety appears in 4 random areas within the trial). There are four ranges for each replication. Therefore the width of the entire trial was 20 rows wide (five varieties per range) and the length of the entire trial was 640 ft (this includes ten foot borders between ranges).

Test site Information:


Loc. No.	County Location	Closest Town	Grower Cooperator	Farm Designation	Planting Date	Production Method	Soil Type	Irrigated or Dry
1	Jackson	Altus	Felty	Wrecking Yard	5/4/2010	No-Till	Clay Loam	Drip Irrigated
2	Jackson	Altus	OSU	WOSC	5/5/2010	Conv. Till	Clay Loam	Furrow Irrigated
3	Jackson	Altus	OSU	SWREC (Office)	5/4/2010	Conv. Till	Clay Loam	Furrow Irrigated
4	Jackson	Altus	Winsett	Wallingford	5/5/2010	Conv. Till	Clay Loam	Furrow Irrigated
5	Tillman	Tipton	McKinly	Keith Pivot	5/12/2010	Conv. Till	Sandy Loam	Sprinkler Irrigated
6	Harmon	Hollis	Seddon	Lewis	5/8/2010	Conv. Till	Clay Loam	Furrow Irrigated
7	Beckham	Eric	Gamble		5/21/2010	Min. Till	Loamy Sand	Sprinkler Irrigated
8	Jackson	Altus	Felty	Irrig. District Office	6/20/2010	No-Till	Clay Loam	Dryland
9	Jackson	Altus	Winsett	McNeeley	5/8/2010	Conv. Till	Clay Loam	Dryland
10	Tillman	Tipton	McKinly	Grandads 80	5/25/2010	Min. Till	Sandy Loam	Dryland
11	Tillman	Hollister	Fischer	Fry	5/25/2010	No-Till	Clay Loam	Dryland
12	Harmon	Hollis	White	Bobs House	5/11/2010	No-Till	Clay Loam	Dryland
13	Beckham	Eric	Gamble	Home	5/21/2010	Conv. Till	Sandy Cl. Loam	Dryland
14	Washita	Elk City	Davis	Dolan 80	5/20/2010	Row Till	Sandy Loam	Dryland
15	Custer	Butler	Shephard	Dry Creek	5/20/2010	No-Till	Sandy Loam	Dryland
16	Greer	Granite	Grauman	Baumgart	6/3/2010	Conv. Till	Clay Loam	Dryland



Extension Cotton-2010 County Variety Trial Map-Irrigated

	7	14	3	19	12
Rep 4	16	18	10	15	FM 9170 B2F 1
	13	20	8	4	11
	2	17	5	6	9
Rep 3	19	14	17	12	FM 9170 B2F 1
	2	10	18	6	3
	8	5	9	20	16
	15	7	11	4	13
Rep 2	2	6	FM 9170 B2F 1	12	15
	9	5	14	10	18
	17	13	4	20	3
	11	19	16	7	8
Rep 1	AT Apex B2F 16	AT 65207 B2F 17	DG 2570 B2F 18	DP 09r619 B2F 19	DP 09r555 B2F 20
	DP 1028 B2F 11	DP 1032 B2F 12	DP 0935 B2F 13	DP 0924 B2F 14	DP 1034 B2F 15
	ST 5458 B2F 6	ST 5288 B2F 7	PHY 367 WRF 8	PHY 375 WRF 9	PHY 565 WRF 10
	FM 9170 B2F 1	FM 1740 B2F 2	FM 9160 B2F 3	ST 4288 B2F 4	FM 9180 B2F 5

The tables below present the average turnout, yield, fiber data, loan value and \$/acre at each location. The detailed results of each location are presented in the tables that follow. All seven locations were planted from 5/4 to 5/21. Gin turnouts averaged from 24 to 28 percent and yield averaged from 1413 lbs/A to 1833 lbs/A. Loan values from these locations ranged from \$0.5222 to \$0.5401. The average revenue (\$)/acre from these trials ranged from \$763-981/acre. Nine dryland trials were harvested and produced gin turnout ranging from 22-26%. Average dryland yields ranged from 287-1382 lbs/acre. Loan values and revenue (\$)/acre were \$0.4916-\$0.5387 and \$141-\$740/acre respectively.

2010 Location Averages									
									
Irrigated									
Location	Plant	Gin	Yield	Fiber Data				Loan	Revenue
County-Cooperator	Date	%	lbs/Acre	Mic	Leng	Unif	Stren	Value	\$/Acre
Jackson-Felty	5/4	0.27	1644	5.00	1.15	83.8	31.4	0.5247	\$ 862
Jackson-WOSC	5/5	0.24	1833	4.78	1.19	84.5	33.9	0.5356	\$ 981
Tillman-McKinley	5/12	0.24	1628	4.49	1.20	83.9	33.6	0.5395	\$ 878
Jackson-Winsett	5/5	0.25	1683	5.04	1.17	83.9	32.4	0.5222	\$ 878
Harmon-Seddon	5/8	0.28	1698	3.78	1.17	82.8	31.2	0.5359	\$ 910
Beckham-Gamble	5/21	0.26	1413	4.26	1.15	83.6	32.0	0.5401	\$ 763
Jackson-OSUREC	5/4	0.27	1523	4.65	1.18	83.5	32.0	0.5352	\$ 815

Dryland									
Location	Plant	Gin	Yield	Fiber Data				Loan	Revenue
County-Cooperator	Date	%	lbs/Acre	Mic	Leng	Unif	Stren	Value	\$/Acre
Harmon-White	5/11	0.25	351	4.38	1.08	82.4	29.4	0.5248	\$ 184
Beckham-Gamble	5/21	0.24	1157	4.50	1.12	82.9	31.3	0.5351	\$ 619
Greer-Grauman	6/3	0.24	287	5.15	1.05	81.8	29.6	0.4916	\$ 141
Jackson-Winsett	5/8	0.22	586	3.96	1.09	81.3	29.4	0.5234	\$ 307
Jackson-Felty	6/20	0.23	622	4.15	1.14	82.7	31.1	0.5387	\$ 335
Tillman-McKinley	5/25	0.22	384	4.20	1.11	81.9	31.0	0.5297	\$ 204
Custer-Shephard	5/20	0.24	1382	4.14	1.14	82.7	30.5	0.5353	\$ 740
Washita-Davis	5/20	0.26	717	4.71	1.08	82.2	30.0	0.5204	\$ 373
Tillman-Fischer	5/25	0.24	469	4.83	1.13	82.7	31.7	0.5263	\$ 246

Irrigated Averages-Across All 7 Locations



Trt #	Rank	Variety	Technology	Turnout %	Ibs/Acre	Mic	Length	Uniformity	Strength	Loan Value	\$/Acre
7	3.7	ST 5288	B2F	28	1859	4.8	1.15	82.7	31.3	0.5242	973
6	3.7	ST 5458	B2F	27	1843	4.8	1.16	82.4	33.2	0.5249	966
12	6.1	DP 1032	B2F	27	1751	4.5	1.20	83.8	32.9	0.5333	934
9	6.4	Ph 375	WRF	26	1733	4.7	1.15	83.1	31	0.5311	921
1	7.7	FM 9170	B2F	26	1682	4.2	1.21	83.4	33.3	0.5376	904
20	8.7	DP 1133	B2F	27	1676	4.7	1.20	84.8	33.7	0.5340	895
13	9.7	DP 0935	B2F	26	1653	4.5	1.13	83.1	32.5	0.5298	875
18	9.1	DG 2570	B2F	26	1651	4.6	1.16	84.4	32.3	0.5342	882
8	9.9	Ph 367	WRF	25	1647	4.5	1.17	83.8	33.9	0.5345	880
2	9.4	FM 1740	B2F	26	1643	4.7	1.15	83.6	32.6	0.5356	880
11	10.1	DP 1028	B2F	28	1632	4.6	1.18	84.9	31.5	0.5376	877
14	11.6	DP 0924	B2F	25	1621	4.9	1.15	84.1	31.7	0.5214	844
10	10.6	Ph 565	WRF	24	1608	4.3	1.20	84	34.4	0.5376	864
17	12.9	AT 65207	B2F	26	1579	4.7	1.14	84.2	31.8	0.5323	840
4	13.1	ST 4288	B2F	24	1576	4.8	1.17	82.7	31.5	0.5294	833
3	12.1	FM 9160	B2F	25	1573	4.0	1.19	84	32	0.5414	852
15	14.4	DP 1034	B2F	26	1517	4.6	1.19	83.8	31.2	0.5368	815
19	15.1	DP 1137	B2F	26	1511	4.5	1.16	84.2	31.1	0.5369	811
16	18	AT Apex	B2F	23	1464	4.5	1.19	83	31.3	0.5356	783
5	17.4	FM 9180	B2F	23	1412	4.4	1.19	84	33.8	0.5378	759

Dryland Averages-Across All 9 Locations



Trt #	Rank	Variety	Technology	Turnout %	Ibs/Acre	Mic	Length	Uniformity	Strength	Loan Value	\$/Acre
17	7.3	AT 81158	RF	24	702	4.6	1.08	82.9	30.5	0.5197	369
13	5	DP 0935	B2F	26	692	4.6	1.08	81.6	30.1	0.5164	361
9	7	Ph 375	WRF	24	690	4.3	1.08	81.6	28.9	0.5232	362
2	9.3	FM 1740	B2F	23	673	4.4	1.07	81.5	29.5	0.5119	350
7	7.9	ST 5288	B2F	25	672	4.7	1.09	81.9	29.0	0.5170	352
11	7.9	DP 1028	B2F	25	672	4.6	1.11	82.2	31.5	0.5201	355
16	8.6	AT Epic	RF	23	658	4.3	1.08	81.2	30.3	0.5251	347
15	8.7	DP 1034	B2F	24	642	4.5	1.11	83.2	29.9	0.5252	341
1	9.9	FM 9170	B2F	23	642	4.1	1.16	82.0	32.8	0.5283	343
8	11.6	Ph 367	WRF	23	636	4.3	1.10	82.4	30.7	0.5275	339
20	12.1	DP 1133	B2F	25	633	4.8	1.13	84.8	32.4	0.5257	336
19	8.9	DP 1137	B2F	24	625	4.4	1.11	82.9	29.2	0.5291	332
12	11.1	DP 1032	B2F	24	619	4.4	1.11	82.7	29.7	0.5259	325
14	11.3	DP 0924	B2F	24	613	4.4	1.12	83.0	29.5	0.5294	326
3	10.6	FM 9160	B2F	24	612	4.3	1.14	82.6	30.8	0.5312	325
10	13	Ph 565	WRF	24	604	4.6	1.13	83.1	32.7	0.5234	319
6	12.4	ST 5458	B2F	24	602	4.5	1.09	80.8	29.9	0.5151	315
5	14.3	FM 9180	B2F	22	583	4.3	1.12	81.5	32.1	0.5334	311
18	15.7	FM 9058	F	22	575	4.2	1.13	81.7	31.0	0.5323	308
4	17.6	ST 4288	B2F	21	561	4.6	1.09	81.2	28.9	0.5126	287



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Base Value \$ 0.5200

Location:	Jackson-Felty	Plant Date:	5/4/2010	Tillage:	No-Till
Soil Type:	Clay Loam	Harvest Date:	10/7/2010	Irrigation:	Drip

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
1	1	FM 9170	B2F	0.274	1893.5 ab	4.9	1.17	83	33	\$ 0.5395	\$ 1,022
6	2	ST 5458	B2F	0.285	1969.5 a	5.3	1.14	82.3	32.7	\$ 0.5050	\$ 995
2	3	FM 1740	B2F	0.259	1720.7 c-f	4.8	1.12	84.2	31.4	\$ 0.5400	\$ 929
7	4	ST 5288	B2F	0.292	1795.1 bc	5.2	1.13	83.5	30.3	\$ 0.5160	\$ 926
10	5	Ph 565	WRF	0.27	1705.5 c-f	5.1	1.16	84.1	33.8	\$ 0.5185	\$ 884
13	6	DP 0935	B2F	0.286	1770.7 bcd	5.1	1.07	81.5	29.2	\$ 0.4980	\$ 882
12	7	DP 1032	B2F	0.26	1628.1 d-g	4.8	1.2	85.1	31.9	\$ 0.5415	\$ 882
11	8	DP 1028	B2F	0.292	1693.2 c-f	5	1.17	84.9	30.9	\$ 0.5195	\$ 880
4	9	ST 4288	B2F	0.269	1759.3 b-e	5.3	1.1	81.6	29	\$ 0.4960	\$ 873
9	10	Ph 375	WRF	0.259	1619 d-h	4.9	1.12	82.5	30.1	\$ 0.5370	\$ 869
3	11	FM 9160	B2F	0.246	1594.1 f-j	4.4	1.19	84.9	30.7	\$ 0.5415	\$ 863
14	12	DP 0924	B2F	0.267	1634.1 d-g	5.4	1.12	83.9	31.8	\$ 0.5075	\$ 829
18	13	DG 2570	B2F	0.29	1603.7 e-i	5.2	1.11	84.2	29.9	\$ 0.5160	\$ 828
8	14	Ph 367	WRF	0.262	1589.3 f-j	5.1	1.14	84.9	31.6	\$ 0.5195	\$ 826
20	15	DP 1133	B2F	0.274	1578.4 f-j	5.2	1.17	84.5	33.5	\$ 0.5195	\$ 820
5	16	FM 9180	B2F	0.226	1474.3 g-j	4.6	1.18	83.7	33	\$ 0.5405	\$ 797
15	17	DP 1034	B2F	0.269	1464.6 hij	4.8	1.19	84.5	31.5	\$ 0.5415	\$ 793
17	18	AT 65207	B2F	0.254	1508.9 g-j	5.2	1.14	84.2	32.6	\$ 0.5185	\$ 782
19	19	DP 1137	B2F	0.249	1438.5 j	4.9	1.16	84.6	30.9	\$ 0.5415	\$ 779
16	20	AT Apex	B2F	0.261	1448.1 ij	4.8	1.15	83.1	30.3	\$ 0.5375	\$ 778
LSD (P=.05)					159.94						
CV					6.88						
Test Average				0.267	1644	5	1.15	83.8	31.4	0.5247	862



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Jackson-WOSC	Plant Date:	5/5/2010	Tillage:	Conv-Till
Soil Type:	Clay Loam	Harvest Date:	10/19/2010	Irrigation:	Furrow

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
7	1	ST 5288	B2F	0.299	2416.6 a	5.1	1.17	83.5	32.7	\$ 0.5185	\$ 1,253
12	2	DP 1032	B2F	0.266	2041.2 b	4.9	1.23	83.5	34.2	\$ 0.5405	\$ 1,103
11	3	DP 1028	B2F	0.269	1977.7 bcd	4.7	1.21	85.4	33.2	\$ 0.5415	\$ 1,071
17	4	AT 65207	B2F	0.275	1949.9 b-e	4.9	1.15	85.3	32.2	\$ 0.5415	\$ 1,056
9	5	Ph 375	WRF	0.24	1935.8 b-f	4.8	1.16	85	32.6	\$ 0.5415	\$ 1,048
6	6	ST 5458	B2F	0.253	2006.2 bc	5.1	1.18	84.4	34.7	\$ 0.5185	\$ 1,040
13	7	DP 0935	B2F	0.249	1878.2 c-g	4.8	1.15	84.9	34.4	\$ 0.5415	\$ 1,017
1	8	FM 9170	B2F	0.244	1876.3 c-g	4.3	1.22	83.9	34.6	\$ 0.5405	\$ 1,014
15	9	DP 1034	B2F	0.249	1837.4 d-h	4.9	1.21	84.8	32.8	\$ 0.5415	\$ 995
20	10	DP 1133	B2F	0.24	1820.7 e-h	4.5	1.24	84.8	34.2	\$ 0.5415	\$ 986
18	11	DG 2570	B2F	0.266	1886.1 c-g	5.1	1.17	85	34.2	\$ 0.5195	\$ 980
8	12	Ph 367	WRF	0.24	1790.7 f-i	4.8	1.2	85.3	35.5	\$ 0.5415	\$ 970
10	13	Ph 565	WRF	0.225	1781.7 ghi	4.6	1.23	84.1	35.8	\$ 0.5405	\$ 963
3	14	FM 9160	B2F	0.225	1759.7 ghi	4.1	1.2	84.8	33.6	\$ 0.5430	\$ 956
14	15	DP 0924	B2F	0.242	1797.7 f-i	5.1	1.16	84.7	33.4	\$ 0.5195	\$ 934
2	16	FM 1740	B2F	0.24	1704.3 hij	4.9	1.17	83.9	34.6	\$ 0.5405	\$ 921
16	17	AT Apex	B2F	0.23	1658.4 ijk	5	1.19	82.7	32.4	\$ 0.5175	\$ 858
4	18	ST 4288	B2F	0.195	1585.6 jkl	4.7	1.23	84.4	33.4	\$ 0.5405	\$ 857
19	19	DP 1137	B2F	0.23	1513 kl	4.5	1.18	85	32.2	\$ 0.5415	\$ 819
5	20	FM 9180	B2F	0.207	1444 l	4.7	1.19	84.9	37.4	\$ 0.5415	\$ 782
LSD (P=.05)					150.37						
CV					5.8						
Test Average				0.244	1833	4.78	1.19	84.5	33.9	0.5356	981



OKLAHOMA STATE UNIVERSITY

2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Jackson-Winsett	Plant Date:	5/5/2010	Tillage:	Conv-Till
Soil Type:	Clay Loam	Harvest Date:	10/18/2010	Irrigation:	Furrow

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
6	1	ST 5458	B2F	0.274	1944.3 a	5.2	1.16	83.1	33.5	\$ 0.5175	\$ 1,006
7	2	ST 5288	B2F	0.267	1961.5 a	5.4	1.13	82.8	31	\$ 0.5065	\$ 993
8	3	Ph 367	WRF	0.267	1776.7 abc	4.8	1.16	83.6	34.7	\$ 0.5405	\$ 960
12	4	DP 1032	B2F	0.266	1820.8 ab	5.3	1.17	84.5	32.6	\$ 0.5090	\$ 927
14	5	DP 0924	B2F	0.255	1809.5 ab	5.4	1.18	84.4	31.9	\$ 0.5080	\$ 919
13	6	DP 0935	B2F	0.258	1788.6 abc	5.2	1.13	82.4	30.2	\$ 0.5130	\$ 918
18	7	DG 2570	B2F	0.251	1664.8 b-e	4.9	1.18	85.3	32.9	\$ 0.5415	\$ 901
2	8	FM 1740	B2F	0.262	1766.3 abc	5.4	1.13	83.7	31.9	\$ 0.5075	\$ 896
10	9	Ph 565	WRF	0.246	1639.7 b-e	4.6	1.21	84.3	35.5	\$ 0.5405	\$ 886
20	10	DP 1133	B2F	0.263	1737.2 bcd	5.4	1.18	84.4	33.7	\$ 0.5080	\$ 882
3	11	FM 9160	B2F	0.236	1627 b-f	4.1	1.19	83.8	31.8	\$ 0.5420	\$ 882
4	12	ST 4288	B2F	0.231	1703.4 b-e	5.1	1.16	82.7	31.1	\$ 0.5175	\$ 882
1	13	FM 9170	B2F	0.234	1623.5 b-f	4.4	1.22	83.4	34.7	\$ 0.5395	\$ 876
19	14	DP 1137	B2F	0.264	1646 b-e	5	1.19	84.1	30.6	\$ 0.5185	\$ 853
17	15	AT 65207	B2F	0.266	1645.4 b-e	5.4	1.11	84.1	31.1	\$ 0.5075	\$ 835
16	16	AT Apex	B2F	0.235	1508.7 efg	4.8	1.19	83.4	32	\$ 0.5395	\$ 814
9	17	Ph 375	WRF	0.231	1595.1 c-g	5.4	1.14	83.6	30.4	\$ 0.5060	\$ 807
5	18	FM 9180	B2F	0.227	1544 d-g	5	1.21	85.1	34	\$ 0.5195	\$ 802
11	19	DP 1028	B2F	0.259	1431.3 fg	4.9	1.17	85.1	32.3	\$ 0.5415	\$ 775
15	20	DP 1034	B2F	0.244	1416.2 g	5.1	1.19	84.5	32	\$ 0.5195	\$ 736
LSD (P=.05)					200.9						
CV					8.44						
Test Average				0.252	1683	5.04	1.17	83.9	32.4	0.5222	878



OKLAHOMA STATE UNIVERSITY

2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Jackson-OSUREC	Plant Date:	5/4/2010	Tillage:	Conv-Till
Soil Type:	Clay Loam	Harvest Date:	10/29/2010	Irrigation:	Furrow

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
12	1	DP 1032	B2F	0.294	1736.9 a	4.7	1.16	83.4	31.4	\$ 0.5395	\$ 937
7	2	ST 5288	B2F	0.281	1732.1 a	5.1	1.18	83.4	32	\$ 0.5175	\$ 896
1	3	FM 9170	B2F	0.278	1630.2 ab	4.1	1.2	83.9	32.6	\$ 0.5420	\$ 884
9	4	Ph 375	WRF	0.287	1694 ab	5	1.15	82.9	30.3	\$ 0.5155	\$ 873
6	5	ST 5458	B2F	0.283	1681.2 ab	5.1	1.17	82.9	33.1	\$ 0.5175	\$ 870
2	6	FM 1740	B2F	0.286	1596.1 ab	4.9	1.15	84.2	32.2	\$ 0.5405	\$ 863
17	7	AT 65207	B2F	0.283	1565.5 abc	4.9	1.12	84.5	29	\$ 0.5365	\$ 840
18	8	DG 2570	B2F	0.274	1544.1 abc	4.7	1.16	83.3	31.8	\$ 0.5395	\$ 833
8	9	Ph 367	WRF	0.268	1540.9 abc	4.7	1.16	84	34.5	\$ 0.5405	\$ 833
20	10	DP 1133	B2F	0.272	1537.2 abc	4.7	1.21	84.8	33.1	\$ 0.5415	\$ 832
19	11	DP 1137	B2F	0.278	1537.8 abc	4.4	1.16	84.4	30	\$ 0.5385	\$ 828
13	12	DP 0935	B2F	0.273	1534 abc	4.3	1.14	82.9	32.7	\$ 0.5395	\$ 828
11	13	DP 1028	B2F	0.29	1523.6 abc	4.5	1.19	84.1	30.9	\$ 0.5405	\$ 824
3	14	FM 9160	B2F	0.267	1501.7 abc	4	1.21	84.5	33.1	\$ 0.5430	\$ 815
10	15	Ph 565	WRF	0.226	1458.3 bcd	4.4	1.22	82.7	34.4	\$ 0.5395	\$ 787
16	16	AT Apex	B2F	0.255	1460.6 bcd	4.8	1.2	81.2	31.2	\$ 0.5375	\$ 785
15	17	DP 1034	B2F	0.276	1451.6 bcd	4.5	1.19	82.1	30.9	\$ 0.5375	\$ 780
14	18	DP 0924	B2F	0.222	1316.4 cde	5.1	1.14	84.6	31.7	\$ 0.5195	\$ 684
4	19	ST 4288	B2F	0.241	1229.4 de	4.5	1.2	81.5	32.3	\$ 0.5375	\$ 661
5	20	FM 9180	B2F	0.24	1183.7 e	4.6	1.2	84.1	33.3	\$ 0.5405	\$ 640
LSD (P=.05)					261.17						
CV					12.13						
Test Average				0.269	1523	4.65	1.18	83.5	32.0	0.5352	815



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Tillman-McKinley	Plant Date:	5/12/2010	Tillage:	Min-Till
Soil Type:	Sandy loam	Harvest Date:	10/14/2010	Irrigation:	Sprinkler

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
12	1	DP 1032	B2F	0.267	2008.1 a	4.3	1.25	83.7	34.9	\$ 0.5405	\$ 1,085
6	2	ST 5458	B2F	0.243	1870 ab	4.5	1.18	81.5	34.3	\$ 0.5375	\$ 1,005
1	3	FM 9170	B2F	0.259	1765.8 bc	4.3	1.26	85	34.4	\$ 0.5415	\$ 956
9	4	Ph 375	WRF	0.257	1766.2 bc	4.7	1.16	83	31.3	\$ 0.5395	\$ 953
7	5	ST 5288	B2F	0.245	1739.8 bcd	4.7	1.16	82.9	33.3	\$ 0.5395	\$ 939
20	6	DP 1133	B2F	0.256	1695.2 b-e	4	1.25	85.8	35.2	\$ 0.5440	\$ 922
11	7	DP 1028	B2F	0.252	1663.2 c-f	4.4	1.21	84.2	32.7	\$ 0.5405	\$ 899
18	8	DG 2570	B2F	0.236	1630.9 c-g	4.4	1.18	84.5	33.2	\$ 0.5415	\$ 883
17	9	AT 65207	B2F	0.24	1627.2 c-g	4.7	1.17	84.5	33	\$ 0.5415	\$ 881
3	10	FM 9160	B2F	0.238	1592.8 c-g	4.2	1.19	84	32.6	\$ 0.5420	\$ 863
15	11	DP 1034	B2F	0.233	1589.9 c-g	4.5	1.19	83	31.5	\$ 0.5395	\$ 858
13	12	DP 0935	B2F	0.232	1578 c-h	4.7	1.2	84.3	34.7	\$ 0.5405	\$ 853
14	13	DP 0924	B2F	0.241	1636.6 c-f	5	1.19	85	33.1	\$ 0.5195	\$ 850
10	14	Ph 565	WRF	0.237	1562.9 c-h	4.3	1.23	84.4	34.7	\$ 0.5405	\$ 845
2	15	FM 1740	B2F	0.248	1539.5 d-h	4.8	1.16	82.5	33.8	\$ 0.5395	\$ 831
4	16	ST 4288	B2F	0.222	1507.5 e-h	4.9	1.18	83.3	32.7	\$ 0.5395	\$ 813
8	17	Ph 367	WRF	0.22	1498.8 e-h	4.3	1.21	84.1	35.1	\$ 0.5405	\$ 810
19	18	DP 1137	B2F	0.245	1475.5 fgh	4.4	1.18	83.2	33.8	\$ 0.5395	\$ 796
16	19	AT Apex	B2F	0.215	1429.5 gh	4.5	1.24	84.5	32.3	\$ 0.5415	\$ 774
5	20	FM 9180	B2F	0.209	1380.5 h	4.2	1.2	84.3	34.7	\$ 0.5420	\$ 748
		LSD (P=.05)			205.73						
		CV			8.94						
		Test Average		0.240	1628	4.49	1.20	83.9	33.6	0.5395	878



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Harmon-Seddon	Plant Date:	5/8/2010	Tillage:	Min-Till
Soil Type:	Clay Loam	Harvest Date:	11/2/2010	Irrigation:	Furrow

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
6	1	ST 5458	B2F	0.274	1968.2 a	3.8	1.13	79.8	31.4	\$ 0.5385	\$ 1,060
4	2	ST 4288	B2F	0.274	1930.8 ab	4.4	1.18	83.4	31.7	\$ 0.5395	\$ 1,042
9	3	Ph 375	WRF	0.284	1885.2 a-d	3.8	1.14	81.2	29.9	\$ 0.5370	\$ 1,012
7	4	ST 5288	B2F	0.287	1897.3 abc	4.3	1.15	81.1	29.2	\$ 0.5330	\$ 1,011
2	5	FM 1740	B2F	0.288	1828.6 a-e	4	1.16	82.9	32.2	\$ 0.5410	\$ 989
20	6	DP 1133	B2F	0.292	1809.4 a-e	4.2	1.18	83.2	31.6	\$ 0.5410	\$ 979
13	7	DP 0935	B2F	0.282	1778.2 a-f	3.6	1.14	82.9	33.5	\$ 0.5395	\$ 959
8	8	Ph 367	WRF	0.263	1831.8 a-e	3.4	1.15	82.2	32.2	\$ 0.5195	\$ 952
11	9	DP 1028	B2F	0.293	1764.5 a-f	4.1	1.17	85	29.5	\$ 0.5385	\$ 950
3	10	FM 9160	B2F	0.288	1623 c-g	3.6	1.2	83	31.7	\$ 0.5395	\$ 876
5	11	FM 9180	B2F	0.245	1607.6 d-g	3.6	1.2	83.4	32.5	\$ 0.5395	\$ 867
1	12	FM 9170	B2F	0.271	1663 b-f	3.4	1.22	82.5	32.4	\$ 0.5215	\$ 867
10	13	Ph 565	WRF	0.269	1596.5 efg	3.5	1.21	83.6	32.7	\$ 0.5405	\$ 863
19	14	DP 1137	B2F	0.286	1593 efg	3.8	1.14	83.7	28.9	\$ 0.5375	\$ 856
14	15	DP 0924	B2F	0.284	1581.9 efg	4	1.14	83.2	29.1	\$ 0.5365	\$ 849
18	16	DG 2570	B2F	0.257	1558.9 efg	3.6	1.17	83.7	32	\$ 0.5405	\$ 843
17	17	AT 65207	B2F	0.277	1554.9 efg	3.6	1.15	81.9	30.8	\$ 0.5375	\$ 836
12	18	DP 1032	B2F	0.285	1590.5 efg	3.4	1.21	83.8	31.7	\$ 0.5225	\$ 831
16	19	AT Apex	B2F	0.231	1518.3 fg	3.5	1.22	82.3	31	\$ 0.5375	\$ 816
15	20	DP 1034	B2F	0.277	1369.3 g	3.9	1.18	82.5	29	\$ 0.5365	\$ 735
		LSD (P=.05)			284.28						
		CV			11.84						
		Test Average		0.275	1698	3.78	1.17	82.8	31.2	0.5359	910



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Irrigated

Location:	Beckham-Gamble	Plant Date:	5/12/2010	Tillage:	Min-Till
Soil Type:	Sand	Harvest Date:	10/28/2010	Irrigation:	Sprinkler

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
18	1	DG 2570	B2F	0.267	1669.1 a	4.4	1.13	84.5	31.8	\$ 0.5410	\$ 903
9	2	Ph 375	WRF	0.262	1636.4 ab	4.1	1.18	83.3	32.5	\$ 0.5410	\$ 885
14	3	DP 0924	B2F	0.267	1568.7 abc	4.6	1.11	82.7	31.2	\$ 0.5390	\$ 846
20	4	DP 1133	B2F	0.273	1557.3 a-d	4.9	1.15	86	34.5	\$ 0.5425	\$ 845
10	5	Ph 565	WRF	0.239	1512.3 a-e	3.9	1.16	84.9	34.2	\$ 0.5430	\$ 821
8	6	Ph 367	WRF	0.256	1501.2 a-e	4.4	1.16	82.6	33.7	\$ 0.5395	\$ 810
15	7	DP 1034	B2F	0.281	1490.1 a-e	4.3	1.17	85.4	30.6	\$ 0.5415	\$ 807
7	8	ST 5288	B2F	0.257	1472.1 a-e	4.1	1.13	81.7	30.6	\$ 0.5385	\$ 793
6	9	ST 5458	B2F	0.257	1462.3 a-f	4.4	1.15	83	32.6	\$ 0.5395	\$ 789
12	10	DP 1032	B2F	0.271	1428.2 b-g	4.4	1.19	82.9	33.3	\$ 0.5395	\$ 771
19	11	DP 1137	B2F	0.278	1375.7 c-h	4.4	1.14	84.6	31	\$ 0.5415	\$ 745
11	12	DP 1028	B2F	0.276	1373.3 c-h	4.6	1.15	85.4	31	\$ 0.5415	\$ 744
2	13	FM 1740	B2F	0.257	1346 d-h	4.4	1.14	83.5	32.2	\$ 0.5405	\$ 728
1	14	FM 9170	B2F	0.26	1319.2 e-h	3.7	1.15	82.2	31.7	\$ 0.5390	\$ 711
3	15	FM 9160	B2F	0.249	1313.6 e-h	3.7	1.15	83	30.3	\$ 0.5390	\$ 708
4	16	ST 4288	B2F	0.235	1312.8 e-h	4.4	1.15	82.2	30.4	\$ 0.5355	\$ 703
5	17	FM 9180	B2F	0.229	1251.8 fgh	4	1.16	82.6	32	\$ 0.5410	\$ 677
13	18	DP 0935	B2F	0.26	1245.1 fgh	4.1	1.1	83	32.5	\$ 0.5365	\$ 668
16	19	AT Apex	B2F	0.215	1223.3 gh	4.3	1.16	84.1	30.1	\$ 0.5385	\$ 659
17	20	AT 65207	B2F	0.252	1203.1 h	4.1	1.16	85.1	33.6	\$ 0.5430	\$ 653
		LSD (P=.05)			219.23						
		CV			10.97						
		Test Average		0.257	1413	4.26	1.15	83.6	32.0	0.5401	763



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Harmon-White	Plant Date:	5/11/2010	Tillage:	No-Till
Soil Type:	Clay Loam	Harvest Date:	10/18/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
6	1	ST 5458	B2F	0.273	409.2 a	4.5	1.1	81.4	29.6	\$ 0.5310	\$ 217
11	2	DP 1044	B2F	0.256	404.6 a	4.1	1.08	82.6	30.1	\$ 0.5345	\$ 216
14	3	DP 1050	B2F	0.279	409 a	4.5	1.08	82	28.4	\$ 0.5285	\$ 216
8	4	Ph 367	WRF	0.246	396.8 ab	4.4	1.09	82.8	28.8	\$ 0.5305	\$ 211
17	5	AT 81158	RF	0.261	392.6 abc	4.5	1.06	82	29.8	\$ 0.5225	\$ 205
7	6	ST 5288	B2F	0.253	387.5 abc	4.4	1.09	81.7	27.5	\$ 0.5285	\$ 205
10	7	Ph 565	WRF	0.240	375.4 abc	4.4	1.11	84.4	32.2	\$ 0.5400	\$ 203
15	8	DP 1034	B2F	0.248	374.4 abc	4.2	1.09	83.1	30.3	\$ 0.5345	\$ 200
2	9	FM 1740	B2F	0.251	373.5 abc	4.5	1.07	82.8	29.4	\$ 0.5220	\$ 195
20	10	DP 1133	B2F	0.274	380.8 abc	4.9	1.04	82.4	29.6	\$ 0.5025	\$ 191
4	11	ST 4288	B2F	0.218	357.6 abc	4.6	1.1	82.7	29.8	\$ 0.5330	\$ 191
9	12	Ph 375	WRF	0.245	373.9 abc	4.4	1.01	81.4	26.4	\$ 0.4895	\$ 183
16	13	AT Epic	RF	0.233	341.6 abc	4.3	1.1	82.9	30.8	\$ 0.5350	\$ 183
13	14	DP 0935	B2F	0.236	357.6 abc	4.3	1.04	82	29.4	\$ 0.5000	\$ 179
1	15	FM 9170	B2F	0.249	318.9 cd	4.2	1.11	82.5	31.7	\$ 0.5405	\$ 172
19	16	DP 1137	B2F	0.255	321 bcd	4.4	1.07	82.2	27.3	\$ 0.5200	\$ 167
12	17	DP 1048	B2F	0.241	316.5 cd	4.3	1.06	82.7	28.5	\$ 0.5220	\$ 165
3	18	FM 9160	B2F	0.239	261.8 de	4.3	1.08	81.8	28.9	\$ 0.5285	\$ 138
18	19	FM 9058	F	0.227	257.3 de	4	1.1	81.6	29.3	\$ 0.5300	\$ 136
5	20	FM 9180	B2F	0.204	212.4 e	4.3	1.06	82.3	30.5	\$ 0.5225	\$ 111
		LSD (P=.05)			77.81						
		CV			15.67						
		Test Average		0.246	351	4.38	1.08	82.4	29.4	0.5248	184



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Beckham-Gamble	Plant Date:	5/21/2010	Tillage:	Min-Till
Soil Type:	Clay Loam	Harvest Date:	11/20/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
6	1	ST 5458	B2F	0.240	1405.7 a	4.5	1.14	82.6	33	\$ 0.5395	\$ 758
1	2	FM 9170	B2F	0.235	1392.2 ab	4	1.18	83.9	33.5	\$ 0.5420	\$ 755
2	3	FM 1740	B2F	0.244	1421.6 a	5	1.12	83.9	32.2	\$ 0.5180	\$ 736
7	4	ST 5288	B2F	0.230	1264.8 abc	4	1.09	81.3	30.6	\$ 0.5345	\$ 676
10	5	Ph 565	WRF	0.240	1251.8 abc	4.4	1.15	83.2	32.9	\$ 0.5395	\$ 675
11	6	DP 1044	B2F	0.246	1214.7 abc	4.6	1.09	83	30.6	\$ 0.5350	\$ 650
8	7	Ph 367	WRF	0.221	1193.6 abc	4.2	1.11	82.7	31.2	\$ 0.5405	\$ 645
20	8	DP 1133	B2F	0.239	1182.7 abc	4.9	1.15	84.3	33.5	\$ 0.5405	\$ 639
9	9	Ph 375	WRF	0.242	1180.4 abc	4.4	1.1	82	29.2	\$ 0.5285	\$ 624
13	10	DP 0935	B2F	0.251	1192.9 abc	4.5	1.07	82.2	30	\$ 0.5225	\$ 623
16	11	AT Epic	RF	0.227	1136.9 abc	4.4	1.11	82.6	30.2	\$ 0.5370	\$ 611
15	12	DP 1034	B2F	0.248	1093.4 bc	4.9	1.15	82.8	31.6	\$ 0.5395	\$ 590
5	13	FM 9180	B2F	0.221	1061.1 c	4.5	1.15	82.9	32.8	\$ 0.5395	\$ 572
18	14	FM 9058	F	0.219	1052.7 c	4.6	1.14	82.2	32.3	\$ 0.5375	\$ 566
19	15	DP 1137	B2F	0.251	1038.3 c	4.7	1.11	83	30.9	\$ 0.5390	\$ 560
4	16	ST 4288	B2F	0.216	1050.1 c	4.5	1.09	82.9	28.9	\$ 0.5305	\$ 557
17	17	AT 81158	RF	0.240	1054.2 c	4.7	1.06	82.9	29.5	\$ 0.5220	\$ 550
3	18	FM 9160	B2F	0.218	1006.3 c	4.3	1.17	83.5	31.5	\$ 0.5405	\$ 544
14	19	DP 1050	B2F	0.236	989.1 c	4.4	1.11	82.9	31.1	\$ 0.5390	\$ 533
12	20	DP 1048	B2F	0.242	967.2 c	4.5	1.15	82.8	30.2	\$ 0.5375	\$ 520
		LSD (P=.05)			298.98						
		CV			18.26						
		Test Average		0.235	1157	4.5	1.12	82.9	31.3	0.5351	619



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Greer-Grauman	Plant Date:	6/3/2010	Tillage:	No-Till
Soil Type:	Clay Loam	Harvest Date:	11/20/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
16	1	AT Epic	RF	0.241	357.3 a	5.4	1.06	81.1	30.1	\$ 0.4900	\$ 175
19	2	DP 1137	B2F	0.237	312.6 abc	4.9	1.09	82.6	30.1	\$ 0.5330	\$ 167
3	3	FM 9160	B2F	0.256	305.1 a-d	4.6	1.1	83.2	30.3	\$ 0.5330	\$ 163
12	4	DP 1048	B2F	0.235	309.1 a-d	4.9	1.07	83.1	30	\$ 0.5245	\$ 162
1	5	FM 9170	B2F	0.241	302.1 b-e	4.6	1.08	80.1	31	\$ 0.5330	\$ 161
17	6	AT 81158	RF	0.24	349.2 ab	5.3	1	83.2	28.5	\$ 0.4590	\$ 160
13	7	DP 0935	B2F	0.258	324.8 abc	5.4	1.03	81.5	29.8	\$ 0.4700	\$ 153
2	8	FM 1740	B2F	0.243	316.5 abc	5	1.01	81.2	30.5	\$ 0.4700	\$ 149
15	9	DP 1034	B2F	0.234	304.4 b-e	5.3	1.03	81.2	28.3	\$ 0.4675	\$ 142
14	10	DP 1050	B2F	0.225	282.9 c-f	5.1	1.06	83.4	28.7	\$ 0.5000	\$ 141
7	11	ST 5288	B2F	0.254	297.2 b-e	5.4	0.97	80.5	26.6	\$ 0.4560	\$ 136
5	12	FM 9180	B2F	0.22	252.6 ef	4.9	1.09	80.5	31.1	\$ 0.5330	\$ 135
6	13	ST 5458	B2F	0.255	289.1 c-f	5.5	1	80.3	28.2	\$ 0.4570	\$ 132
9	14	Ph 375	WRF	0.233	260.3 def	5.1	1.05	82.6	30.2	\$ 0.5025	\$ 131
10	15	Ph 565	WRF	0.237	273.8 c-f	5.4	1.04	82.9	30.7	\$ 0.4740	\$ 130
18	16	FM 9058	F	0.214	258.1 def	5.2	1.05	80.4	29.8	\$ 0.5005	\$ 129
11	17	DP 1044	B2F	0.23	259.5 def	5.3	1.04	80.2	29.5	\$ 0.4675	\$ 121
20	18	DP 1133	B2F	0.239	244.9 fg	5.3	1.05	83.9	30.3	\$ 0.4930	\$ 121
8	19	Ph 367	WRF	0.235	240.8 fg	5	1.04	81.6	30.4	\$ 0.4805	\$ 116
4	20	ST 4288	B2F	0.216	198.9 g	5.3	1.05	82.1	27.7	\$ 0.4875	\$ 97
		LSD (P=.05)			52.22						
		CV			12.73						
		Test Average		0.237	287	5.15	1.05	81.8	29.6	0.4916	141



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Jackson-Winsett	Plant Date:	5/8/2010	Tillage:	Min-Till
Soil Type:	Clay Loam	Harvest Date:	11/30/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
17	1	AT 81158	RF	0.258	879.3 a	4.3	1.07	82.3	31.6	\$ 0.5245	\$ 461
13	2	DP 0935	B2F	0.257	702.2 b	4.6	1.06	81.4	29.9	\$ 0.5225	\$ 367
9	3	Ph 375	WRF	0.229	662.3 bc	3.5	1.05	80.3	26.6	\$ 0.5200	\$ 344
7	4	ST 5288	B2F	0.212	640.9 bc	4	1.12	81.8	29.1	\$ 0.5340	\$ 342
16	5	AT Epic	RF	0.216	654.5 bc	3.7	1.06	80.3	28.8	\$ 0.5215	\$ 341
3	6	FM 9160	B2F	0.232	630.5 bc	4.1	1.15	82.4	31.3	\$ 0.5390	\$ 340
10	7	Ph 565	WRF	0.225	603.3 cd	4.2	1.13	81.6	30	\$ 0.5365	\$ 324
19	8	DP 1137	B2F	0.219	592 cde	4.4	1.08	81.6	28.1	\$ 0.5285	\$ 313
8	9	Ph 367	WRF	0.227	580.6 cde	3.5	1.09	81.5	30.1	\$ 0.5310	\$ 308
20	10	DP 1133	B2F	0.232	574.9 cde	4.4	1.1	82.1	31.4	\$ 0.5330	\$ 306
6	11	ST 5458	B2F	0.232	585 cde	4	1.06	79.1	26.9	\$ 0.5140	\$ 301
11	12	DP 1044	B2F	0.242	597.9 cde	4.4	1.04	81.2	30.3	\$ 0.5025	\$ 300
1	13	FM 9170	B2F	0.206	532.9 def	3.9	1.16	80.8	33.4	\$ 0.5390	\$ 287
12	14	DP 1048	B2F	0.216	533.7 def	3.8	1.08	80	27.3	\$ 0.5300	\$ 283
18	15	FM 9058	F	0.208	509.4 ef	3.6	1.14	81.9	30.6	\$ 0.5375	\$ 274
14	16	DP 1050	B2F	0.236	512.8 ef	4.1	1.09	82	27.1	\$ 0.5300	\$ 272
5	17	FM 9180	B2F	0.183	514.6 def	3.3	1.13	81.5	32.1	\$ 0.5190	\$ 267
15	18	DP 1034	B2F	0.208	484 fg	4.3	1.09	82.2	29.1	\$ 0.5285	\$ 256
2	19	FM 1740	B2F	0.195	521.5 def	3.2	1	79.6	26.5	\$ 0.4555	\$ 238
4	20	ST 4288	B2F	0.174	404.6 g	3.8	1.07	81.6	27.1	\$ 0.5215	\$ 211
		LSD (P=.05)			89.3						
		CV			10.67						
		Test Average		0.220	586	3.96	1.09	81.3	29.4	0.5234	307



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Jackson-Felty	Plant Date:	6/20/2010	Tillage:	No-Till
Soil Type:	Clay Loam	Harvest Date:	11/22/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
2	1	FM 1740	B2F	0.233	720 a	4.2	1.12	82.3	30.3	\$ 0.5365	\$ 386
9	2	Ph 375	WRF	0.238	696.5 ab	3.9	1.15	81.1	30.1	\$ 0.5370	\$ 374
6	3	ST 5458	B2F	0.241	656.7 abc	4.5	1.17	82.5	32.4	\$ 0.5395	\$ 354
14	4	DP 1050	B2F	0.252	649.6 abc	4.1	1.19	83	31	\$ 0.5410	\$ 351
13	5	DP 0935	B2F	0.238	655 abc	4.2	1.11	81.8	30.1	\$ 0.5365	\$ 351
7	6	ST 5288	B2F	0.248	651.5 abc	4.5	1.09	83	30.1	\$ 0.5330	\$ 347
15	7	DP 1034	B2F	0.239	639.6 abc	4.1	1.16	84.6	29.2	\$ 0.5385	\$ 344
19	8	DP 1137	B2F	0.234	637.7 abc	4.3	1.13	84	30.2	\$ 0.5380	\$ 343
1	9	FM 9170	B2F	0.237	630.3 a-d	3.9	1.2	83.7	33.8	\$ 0.5420	\$ 342
11	10	DP 1044	B2F	0.220	627.1 a-d	4.2	1.13	83.6	30.4	\$ 0.5395	\$ 338
12	11	DP 1048	B2F	0.239	610.9 a-d	4.1	1.17	84.3	30.5	\$ 0.5400	\$ 330
18	12	FM 9058	F	0.231	610.6 a-d	4	1.15	80.9	30.8	\$ 0.5390	\$ 329
8	13	Ph 367	WRF	0.216	600.4 bcd	3.8	1.16	83.5	31.3	\$ 0.5420	\$ 325
20	14	DP 1133	B2F	0.255	599 bcd	4.5	1.18	84.5	32.9	\$ 0.5415	\$ 324
16	15	AT Epic	RF	0.200	599.5 bcd	4	1.11	80.4	31.9	\$ 0.5385	\$ 323
17	16	AT 81158	RF	0.226	592.4 bcd	4.3	1.11	83.5	30.2	\$ 0.5380	\$ 319
4	17	ST 4288	B2F	0.227	587.6 bcd	4.4	1.15	82.2	30.5	\$ 0.5355	\$ 315
10	18	Ph 565	WRF	0.251	578.6 cd	4.1	1.15	82.7	33.1	\$ 0.5410	\$ 313
5	19	FM 9180	B2F	0.216	570.9 cd	4.1	1.14	81.2	32.5	\$ 0.5390	\$ 308
3	20	FM 9160	B2F	0.231	525 d	3.8	1.12	81.1	30.8	\$ 0.5385	\$ 283
		LSD (P=.05)			109.5						
		CV			12.45						
		Test Average		0.234	622	4.15	1.14	82.7	31.1	0.5387	335



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Tillman-McKinley	Plant Date:	5/25/2010	Tillage:	Min-Till
Soil Type:	Sandy Loam	Harvest Date:	11/29/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
11	1	DP 1044	B2F	0.256	483.7 a	4.7	1.13	81.2	32.8	\$ 0.5370	\$ 260
17	2	AT 81158	RF	0.223	424.2 abc	4.1	1.12	82.7	31.8	\$ 0.5405	\$ 229
19	3	DP 1137	B2F	0.206	441.6 ab	3.4	1.13	80.9	29.3	\$ 0.5145	\$ 227
13	4	DP 0935	B2F	0.247	427.2 abc	4.6	1.09	81.7	30	\$ 0.5310	\$ 227
2	5	FM 1740	B2F	0.241	432.6 ab	4.3	1.05	79.9	28.1	\$ 0.5200	\$ 225
16	6	AT Epic	RF	0.233	419.9 abc	4.1	1.08	80.7	29.6	\$ 0.5325	\$ 224
14	7	DP 1050	B2F	0.23	414.5 abc	4.2	1.11	81.8	29.4	\$ 0.5340	\$ 221
10	8	Ph 565	WRF	0.236	406.4 abc	4.6	1.14	82.9	35	\$ 0.5395	\$ 219
6	9	ST 5458	B2F	0.242	408 abc	4.6	1.06	79.5	30.7	\$ 0.5245	\$ 214
15	10	DP 1034	B2F	0.228	394.3 bcd	4.3	1.15	82.3	31.3	\$ 0.5375	\$ 212
9	11	Ph 375	WRF	0.227	394.2 bcd	4.1	1.08	81.9	29.4	\$ 0.5300	\$ 209
12	12	DP 1048	B2F	0.219	380.7 b-e	4.2	1.13	83.7	31.1	\$ 0.5415	\$ 206
8	13	Ph 367	WRF	0.205	370.9 b-f	4.5	1.11	82.8	30.6	\$ 0.5390	\$ 200
20	14	DP 1133	B2F	0.236	367.9 b-f	5.1	1.14	84	33.8	\$ 0.5185	\$ 191
7	15	ST 5288	B2F	0.232	355.7 b-f	3.9	1.1	81.4	28.7	\$ 0.5300	\$ 189
18	16	FM 9058	F	0.216	340.6 c-f	3.9	1.11	82.7	30.6	\$ 0.5405	\$ 184
5	17	FM 9180	B2F	0.202	312.7 def	4.4	1.08	81.7	31.6	\$ 0.5330	\$ 167
4	18	ST 4288	B2F	0.178	301.4 ef	4.2	1.12	81.8	31.7	\$ 0.5385	\$ 162
3	19	FM 9160	B2F	0.223	288.4 f	4.1	1.15	82.4	31.4	\$ 0.5390	\$ 155
1	20	FM 9170	B2F	0.2	315.4 def	2.7	1.18	81.1	32.7	\$ 0.4730	\$ 149
		LSD (P=.05)			88.12						
		CV			16.06						
		Test Average		0.224	384	4.2	1.11	81.9	31.0	0.5297	204



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Custer-Shephard	Plant Date:	5/20/2010	Tillage:	No-Till
Soil Type:	Sandy Loam	Harvest Date:	10/19/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
2	1	FM 1740	B2F	0.255	1662.1 a	4.7	1.08	82.8	30.4	\$ 0.5330	\$ 886
8	2	Ph 367	WRF	0.241	1545.9 ab	4.1	1.14	83.3	31.1	\$ 0.5410	\$ 836
1	3	FM 9170	B2F	0.256	1525 abc	4.1	1.18	82.7	33.2	\$ 0.5410	\$ 825
20	4	DP 1133	B2F	0.268	1486.9 bc	4.6	1.15	83.6	31.8	\$ 0.5405	\$ 804
17	5	AT 81158	RF	0.256	1477.5 bcd	4.4	1.13	83.6	30.5	\$ 0.5380	\$ 795
9	6	Ph 375	WRF	0.249	1518.5 abc	4.5	1.07	81.1	27.8	\$ 0.5200	\$ 790
7	7	ST 5288	B2F	0.251	1456.9 bcd	4.7	1.13	82.6	28.1	\$ 0.5345	\$ 779
11	8	DP 1044	B2F	0.250	1436.1 bcd	3.6	1.18	82.3	32.6	\$ 0.5375	\$ 772
13	9	DP 0935	B2F	0.244	1392.3 c-f	3.7	1.14	81.1	29.9	\$ 0.5370	\$ 748
15	10	DP 1034	B2F	0.251	1378.9 c-g	3.9	1.16	84.6	30	\$ 0.5410	\$ 746
16	11	AT Epic	RF	0.239	1406.8 b-e	3.8	1.1	81.8	28.4	\$ 0.5300	\$ 746
14	12	DP 1050	B2F	0.256	1332.4 d-h	4.3	1.15	83.9	30.3	\$ 0.5385	\$ 717
18	13	FM 9058	F	0.229	1330.4 d-h	3.9	1.18	82.4	31.8	\$ 0.5390	\$ 717
12	14	DP 1048	B2F	0.238	1271.2 e-h	4.1	1.16	82.8	30.2	\$ 0.5390	\$ 685
3	15	FM 9160	B2F	0.232	1245.4 fgh	3.6	1.14	83	30	\$ 0.5375	\$ 669
6	16	ST 5458	B2F	0.222	1243.8 fgh	3.5	1.14	80.8	29.9	\$ 0.5355	\$ 666
5	17	FM 9180	B2F	0.224	1233 gh	4.2	1.16	82.4	33.5	\$ 0.5390	\$ 665
19	18	DP 1137	B2F	0.235	1232.1 gh	4.3	1.14	83.8	28.7	\$ 0.5360	\$ 660
4	19	ST 4288	B2F	0.224	1280.6 e-h	5.1	1.09	80.7	28.7	\$ 0.5065	\$ 649
10	20	Ph 565	WRF	0.203	1191.5 h	3.6	1.2	84	33.5	\$ 0.5405	\$ 644
		LSD (P=.05)			151.54						
		CV			7.75						
		Test Average		0.241	1382	4.14	1.14	82.7	30.5	0.5353	740



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Washita-Davis	Plant Date:	5/20/2010	Tillage:	Row-Till
Soil Type:	Sandy Clay Loam	Harvest Date:	10/15/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
9	1	Ph 375	WRF	0.279	822.6 a	4.7	1.08	82.4	31.3	\$ 0.5330	\$ 438
11	2	DP 1044	B2F	0.273	769.2 ab	4.8	1.12	84	33.1	\$ 0.5400	\$ 415
1	3	FM 9170	B2F	0.284	772.4 ab	4.9	1.1	82.5	29.3	\$ 0.5305	\$ 410
15	4	DP 1034	B2F	0.289	779.6 ab	4.9	1.07	83.5	29.2	\$ 0.5230	\$ 408
3	5	FM 9160	B2F	0.260	773.7 ab	5.1	1.11	82.4	29.9	\$ 0.5130	\$ 397
8	6	Ph 367	WRF	0.280	746.2 a-d	4.2	1.07	81.5	30.9	\$ 0.5260	\$ 393
13	7	DP 0935	B2F	0.286	770 ab	4.9	1.02	81.1	28	\$ 0.5000	\$ 385
16	8	AT Epic	RF	0.270	732.8 a-d	4.6	1.06	81.4	31.3	\$ 0.5245	\$ 384
5	9	FM 9180	B2F	0.241	721.1 a-d	4.3	1.08	82	31.2	\$ 0.5330	\$ 384
7	10	ST 5288	B2F	0.264	713.6 a-d	4.8	1.1	82.8	30.5	\$ 0.5330	\$ 380
4	11	ST 4288	B2F	0.240	748.2 a-d	5	1.08	80.8	29.2	\$ 0.5065	\$ 379
20	12	DP 1133	B2F	0.266	713.3 a-d	5	1.1	82.9	33.4	\$ 0.5130	\$ 366
12	13	DP 1048	B2F	0.276	758.1 abc	5.2	1	82.2	28.2	\$ 0.4675	\$ 354
2	14	FM 1740	B2F	0.251	668.9 b-e	4.8	1.08	82.3	28.5	\$ 0.5285	\$ 354
10	15	Ph 565	WRF	0.276	681.4 b-e	5.2	1.09	82.7	32.4	\$ 0.5130	\$ 350
19	16	DP 1137	B2F	0.270	666.6 b-e	4.9	1.07	83.2	28.6	\$ 0.5220	\$ 348
17	17	AT 81158	RF	0.258	656.6 b-e	4.6	1.05	81.7	29	\$ 0.5200	\$ 341
18	18	FM 9058	F	0.235	631.4 de	4.1	1.09	80.7	29.2	\$ 0.5300	\$ 335
14	19	DP 1050	B2F	0.257	635.9 cde	4.4	1.06	83	27.6	\$ 0.5220	\$ 332
6	20	ST 5458	B2F	0.233	582.9 e	3.8	1.09	81.4	29.5	\$ 0.5300	\$ 309
		LSD (P=.05)			126.65						
		CV			12.49						
		Test Average		0.264	717	4.71	1.08	82.2	30.0	0.5204	373



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2010 EXTENSION COTTON VARIETY TRIAL RESULTS

Dryland

Location:	Tillman-Fischer	Plant Date:	5/25/2010	Tillage:	No-Till
Soil Type:	Clay Loam	Harvest Date:	11/30/2010		

Trt #	Rank	Treatment		Gin %	Lint Yield lbs/Acre	Fiber Quality				Loan Value	\$/Acre
						Mic	Length	Uniformity	Strength		
13	1	DP 0935	B2F	0.281	573.8 ab	5.1	1.14	82.5	33.2	\$ 0.5175	\$ 297
7	2	ST 5288	B2F	0.263	588.6 a	5.4	1.1	81	29.8	\$ 0.4985	\$ 293
15	3	DP 1034	B2F	0.247	515.1 bcd	4.8	1.14	83.8	32.1	\$ 0.5405	\$ 278
17	4	AT 81158	RF	0.247	533.1 abc	5.2	1.11	83.6	31.8	\$ 0.5180	\$ 276
11	5	DP 1044	B2F	0.257	532.2 abc	5.2	1.13	82.6	31.6	\$ 0.5170	\$ 275
3	6	FM 9160	B2F	0.249	513 bcd	5	1.21	84	31.6	\$ 0.5185	\$ 266
19	7	DP 1137	B2F	0.246	495.2 cde	4.6	1.1	83.9	29.4	\$ 0.5315	\$ 263
10	8	Ph 565	WRF	0.253	494.5 cde	5.1	1.14	84.6	34.2	\$ 0.5195	\$ 257
5	9	FM 9180	B2F	0.236	475 c-f	4.9	1.17	81.4	32.8	\$ 0.5375	\$ 255
12	10	DP 1048	B2F	0.234	467.6 def	4.7	1.13	82.6	30.8	\$ 0.5390	\$ 252
14	11	DP 1050	B2F	0.248	461.3 d-g	4.7	1.17	83.9	32.1	\$ 0.5405	\$ 249
9	12	Ph 375	WRF	0.232	477.1 c-f	4.4	1.07	81.9	27.1	\$ 0.5200	\$ 248
20	13	DP 1133	B2F	0.242	443.2 e-h	4.9	1.16	83.9	33.4	\$ 0.5405	\$ 240
16	14	AT Epic	RF	0.206	432.6 e-h	4.2	1.12	82.4	32.1	\$ 0.5385	\$ 233
6	15	ST 5458	B2F	0.25	446.9 e-h	5.4	1.14	82	32	\$ 0.5050	\$ 226
1	16	FM 9170	B2F	0.215	417.1 f-i	4.6	1.21	83.3	35.9	\$ 0.5395	\$ 225
2	17	FM 1740	B2F	0.205	388.8 hij	4.6	1.15	82.7	32.3	\$ 0.5395	\$ 210
4	18	ST 4288	B2F	0.225	402.2 g-j	4.5	1.04	79.1	27.4	\$ 0.4925	\$ 198
8	19	Ph 367	WRF	0.193	367.4 ij	4.7	1.08	82.5	30.4	\$ 0.5330	\$ 196
18	20	FM 9058	F	0.194	346.8 j	4.6	1.16	82.8	34.2	\$ 0.5395	\$ 187
LSD (P=.05)					64.32						
CV					9.6						
Test Average				0.236	469	4.83	1.13	82.7	31.7	0.5263	246



Evaluating Field Trial Data

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Field Trials can provide helpful information to producers as they compare products and practices for their operations. But field trials must be evaluated carefully to make sure results are scientifically sound, not misleading and indicate realistic expectations for on-farm performance.

This fact sheet is designed to give you the tools to help you determine whether data from a field trial is science fact or science fiction.

What are the best sources of field trial data?

Field trials are conducted by a broad range of individuals and institutions, including universities, ag input suppliers, chemical and seed companies and growers themselves. All are potentially good sources of information.

What are the common types of field trials?

Most field trials fall into one of two categories: side-by-side trials (often referred to as strip trials) or small-plot replicated trials. Side-by-side trials are the most common form of on-farm tests. As the name suggests, these trials involve testing practices or products against one another in plots arrayed across a field, often in strips the width of the harvesting equipment.

These strips should be replicated across the field or repeated at several locations to increase reliability. Small-plot replicated trials often are conducted by universities and companies at central locations because of the complexity of managing them and the special planting and harvesting equipment often required.

Replicated treatments increase the reliability of an experiment. They compare practices or products against one another multiple times under uniform growing conditions in several randomized small plots in the same field or location.

Small-plot replicated trials also may be conducted on farmers' fields where special conditions exist, for example, a weed infestation that does not occur on an experiment station.

Are side-by-side plots more valuable than small-plot replicated trials, or vice versa?

Both types of plots can provide good information. The key is to evaluate the reliability of the data. It is also important to consider the applicability of the trial to your farming operation.

When is plot data valid, and when isn't it?

There isn't a black-and-white answer to that questions. But there are good rules of thumb that can help guide you. Consider these three field trial scenarios:

Scenario 1:

A single on-farm side-by-side trial comparing 10 varieties. Each variety is planted in one strip the width of the harvesting equipment and is 250 to 300 feet long.

What you can learn:

This trial will allow you to get a general feel for each variety or hybrid in the test, including how it grows and develops during the season.

However, this trial, by itself, probably won't be able to reliably measure differences in yield. This is because variability within the field, even if it appears to be relatively uniform, may be large enough to cause yield variations that mask genetic difference among the varieties. Other varietal characteristics, such as maturity or micronaire in cotton, can also be masked by soil variation.

Scenario 2:

Yield data from side-by-side variety trials conducted on the same varieties on multiple farms in your region.

What you can learn:

When data from multiple side-by-side trials are considered together, reliability increases. In this case, the more trials comparing the same varieties, the better. As you go from three to five to 10 or more locations, the certainty goes up that yield differences represent genetic differences and not field variability. Be aware, however, that small differences between treatments (in this case varieties) may still be within the margin of random variability of the combined trial and may not indicate actual genetic differences. One treatment will almost always be numerically higher. Statistical analysis helps determine if differences are significant (consistent).

Scenario 3:

A university-style small-block replicated trial comparing the same 10 varieties.

What can you learn:

Data from such trials, if they are designed well and carried out precisely, generally are reliable. This is, the results generally determine the yield potential of crop varieties. However, it is still important to consider whether results are applicable to your farming operation and are consistent with other research.

How do I know whether differences in yield, for example, are real and not caused by field variability or sloppy research?

Scientists use statistical analysis to help determine whether differences are real or are the result of experimental error, such as field variation. The two most commonly used statistics are **Least Significant Difference (LSD)** and the **Coefficient of Variation (CV)**, both of which can provide insight on the validity of trial data. If these values aren't provided with trial results, ask for them.

Least Significant Difference (LSD) is the minimum amount that two varieties must differ to be considered significantly different. Consider a trial where the LSD for yield is four bushels per acre. If one variety yields 45 bushels per acre and another yields 43 bushels per acre, the two are not statistically different in yield. The difference in their yields is due to normal field variation, not to their genetics. In this example, a variety that yields 45 bushels per acre is significantly better than those yielding less than 41 bushels per acre. In many research trials, LSDs are calculated at confidence level of 75 to 95 percent. For example, a confidence level of 95 percent means you can be 95 percent certain that yield differences greater than the LSD amount are due to genetics and not to plot variability.

Coefficient of Variation (CV) measures the relative amount of random experimental variability not accounted for in the design of a test. It is expressed as a percent of the overall average of the test.

For measuring yield differences, CV's of up to five percent are considered excellent; 5.1 to 10 percent are considered good; and 10.1 to 15 percent are fair.

A high CV means there must be larger differences among treatments to conclude that significant differences exist. The bottom line: When considering yield test data, be skeptical when the CV exceeds 15 percent.

Is a one-year test valid, or are several years of results necessary to know whether one product or practice is superior to another?

In an ideal world, having several years of tests to verify use of a practice or product is best. But where changes are rapid, such as with crop varieties, having university data from multiple years isn't always possible.

When multi-year university data aren't available, pay more careful attention to statistical measures like CV and LSD, and the number of locations and testing environments.

Multi-year data on yield and performance can also be requested from the developers of new products prior to university testing. In either case, be cautious about making major production changes and trying large acreages of a given variety based on one year's data.

How should I evaluate trial results that are markedly different from other research in my area?

When research results are at odds with the preponderance of scientific evidence, examine the new research with extra care.

Pay special attention to factors that might have influenced the outcome, such as soil type, planting date, soil moisture and other environmental conditions, and disease, insect and weed pressures. For example, was the growing season unusually wet or unusually dry? When was it dry or wet? What was the crop growth stage when it was wet or dry?

Was there a disease that affected one variety or hybrid more than another one? Were there insect problems? Could this have influenced the trial's outcome and its applicability to your operation? If you determine that unusual circumstances affected the outcome, be cautious about how you use the results.