

*2006 Alabama
Cotton Variety
Report*

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TABLE OF CONTENTS

INTRODUCTION	4
EXPERIMENTAL CONDITIONS	4
EXPLANATION OF DATA.....	4
STATISTICAL ANALYSIS	5
ACKNOWLEDGMENTS.....	5
REGULAR TRIALS BY LOCATION	
Table 1. Performance of Early Season Cotton Varieties at Belle Mina, Alabama, 2006	6
Table 2. Performance of Full Season Cotton Varieties at Belle Mina, Alabama, 2006.....	7
Table 3. Performance of Early Season Cotton Varieties at Prattville, Alabama, 2006.....	8
Table 4. Performance of Full Season Cotton Varieties at Prattville, Alabama, 2006.....	9
Table 5. Performance of Early Season Cotton Varieties at Shorter, Alabama, 2006.....	10
Table 6. Performance of Full Season Cotton Varieties at Shorter, Alabama, 2006.....	11
Table 7. Performance of Early Season Cotton Varieties at Headland, Alabama, 2006	12
Table 8. Performance of Full Season Cotton Varieties at Headland, Alabama, 2006	13
Table 9. Performance of Early Season Cotton Varieties at Fairhope, Alabama, 2006	14
Table 10. Performance of Full Season Cotton Varieties at Fairhope, Alabama, 2006	15
Table 11. Performance of Irrigated Cotton Varieties at Belle Mina, Alabama, 2006.....	16
Table 12. Performance of Irrigated Cotton Varieties at Headland, Alabama, 2006	17
FLEX RR TRIAL BY LOCATION	
Table 13. Performance of Early Season Flex RR Cotton Varieties at Belle Mina, Alabama, 2006.....	18
Table 14. Performance of Full Season Flex RR Cotton Varieties at Belle Mina, Alabama, 2006.....	19
Table 15. Performance of Early Season Flex RR Cotton Varieties at Prattville, Alabama, 2006	20
Table 16. Performance of Full Season Flex RR Cotton Varieties at Prattville, Alabama, 2006	21
Table 17. Performance of Early Season Flex RR Cotton Varieties at Headland, Alabama, 2006.	
This trial was irrigated.	22
Table 18. Performance of Full Season Flex RR Cotton Varieties at Headland, Alabama, 2006.	
This trial was irrigated.	23
Table 19. Performance of Early Season Flex RR Cotton Varieties at Fairhope, Alabama, 2006	24
Table 20. Performance of Full Season Flex RR Cotton Varieties at Fairhope, Alabama, 2006.....	25
RANKINGS AND AVERAGES ACROSS LOCATIONS AND YEARS	
Table 21. Relative Yield Rankings by Location of Early Season Cotton Varieties, 2006.....	26
Table 22. Relative Yield Rankings by Location of Full Season Cotton Varieties, 2006.....	27
Table 23. Relative Yield Rankings by Location of Early Season Flex RR Cotton Varieties, 2006	28
Table 24. Relative Yield Rankings by Location of Full Season Flex RR Cotton Varieties, 2006	29

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EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2002

Table 25. Performance of Early Season Cotton Varieties in Alabama, Average of all Locations, 2004-2006.....	30
Table 26. Performance of Full Season Cotton Varieties in Alabama, Average of all Locations, 2004-2006.....	31
Table 27. Performance of Early Season Flex RR Cotton Varieties in Alabama, Average of all Locations, 2004-2006.....	32
Table 28. Performance of Full Season Flex RR Cotton Varieties in Alabama, Average of all Locations, 2004-2006.....	33

FIBER ANALYSIS

Table 29.a. Cotton Fiber Analysis, HVI, of Early Season Cotton Varieties at Belle Mina, 2006.....	34
Table 29.b. Cotton Fiber Analysis, HVI, of Full Season Cotton Varieties at Belle Mina, 2006.....	35
Table 30.a. Cotton Fiber Analysis, HVI, of Early Season Cotton Varieties at Prattville, 2006.....	36
Table 30.b. Cotton Fiber Analysis, HVI, of Full Season Cotton Varieties at Prattville, 2006.....	37
Table 31.a. Cotton Fiber Analysis, HVI, of Early Season Cotton Varieties at Shorter, 2006.....	38
Table 31.b. Cotton Fiber Analysis, HVI, of Full Season Cotton Varieties at Shorter, 2006.....	39
Table 32.a. Cotton Fiber Analysis, HVI, of Early Season Cotton Varieties at Headland, 2006.....	40
Table 32.b. Cotton Fiber Analysis, HVI, of Full Season Cotton Varieties at Headland, 2006.....	41
Table 33.a. Cotton Fiber Analysis, HVI, of Early Season Cotton Varieties at Fairhope, Alabama, 2006.....	42
Table 33.b. Cotton Fiber Analysis, HVI, of Full Season Cotton Varieties at Fairhope, Alabama, 2006.....	43
Table 34. Cotton Fiber Analysis, HVI, of Irrigated Cotton Varieties at Belle Mina, 2006.....	44
Table 35. Cotton Fiber Analysis, HVI, of Irrigated Cotton Varieties at Headland, Alabama, 2006.....	45
Table 36.A. Cotton Fiber Analysis, HVI, of Early Season Flex RR Cotton Varieties at Belle Mina, 2006.....	46
Table 36.B. Cotton Fiber Analysis, HVI, of Full Season Flex RR Cotton Varieties at Belle Mina, 2006.....	47
Table 37.A. Cotton Fiber Analysis, HVI, of Early Season Flex RR Cotton Varieties at Prattville, 2006.....	48
Table 37.B. Cotton Fiber Analysis, HVI, of Full Season Flex RR Cotton Varieties at Prattville, 2006.....	49
Table 38.A. Cotton Fiber Analysis, HVI, of Early Season Flex RR Cotton Varieties at Headland, 2006.....	50
Table 38.B. Cotton Fiber Analysis, HVI, of Full Season Flex RR Cotton Varieties at Headland, 2006.....	51
Table 39.A. Cotton Fiber Analysis, HVI, of Early Season Flex RR Cotton Varieties at Fairhope, 2006.....	52
Table 39.B. Cotton Fiber Analysis, HVI, of Full Season Flex RR Cotton Varieties at Fairhope, 2006.....	53

BOLL DISEASE RATINGS

Table 40. Cotton Boll ratings of Early Season Cotton Varieties at Fairhope, 2006. Corresponding yield data are given in Table 9.	54
Table 41. Cotton Boll ratings of full Season Cotton Varieties at Fairhope, 2006. Corresponding yield data are given in Table 10.	55
Table 42. Cotton Boll ratings of Early Season Flex RR Cotton Varieties at Fairhope, 2006. Corresponding yield data are given in Table 19.	56
Table 43. Cotton Boll ratings of full Season Flex RR Cotton Varieties at Fairhope, 2006. Corresponding yield data are given in Table 20.	57

RAINFALL, SOIL TYPE, AND SEED SOURCES

Table 44. Growing Season Rainfall, 2004-2006.....	58
Table 45. Soil Types for 2006 Cotton Trials.....	58
Table 46. Sources of Seed for the 2006 Cotton Variety Trials.....	59

2006 ALABAMA COTTON VARIETY REPORT

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INTRODUCTION

The Alabama Cotton Variety Test is a continuing evaluation of available cotton varieties from private companies and state agricultural experiment stations. Breeding lines that are likely to be released as varieties are also tested. Tests are conducted on units of the Alabama Agricultural Experiment Station by Experiment Station personnel. Cultural practices are those generally recommended by the Alabama Cooperative Extension System to producers. Data are reported on irrigated tests at Belle Mina and Headland. No other tests received scheduled supplemental irrigation. Every effort is made to test the varieties and present the results in an unbiased manner.

EXPERIMENTAL CONDITIONS

Tests were split into early season and full season varieties. The maturity category for each variety was chosen by the company or cooperator. Deltapine DP 555BRR and FiberMax FM 960BR were included in both early and full season tests for comparison. Plot size was two rows at Prattville, Headland, Belle Mina, Shorter, and Fairhope. Row length varied at different locations from 20 to 120 feet. A randomized complete block design with four replications was used in all tests.

A Flex RR Cotton trial was added at four locations: Belle Mina, Prattville, Headland and Fairhope. These trials were split into early and full season maturity groups. Both early season and full season Flex RR trials at Headland were irrigated. Fiber Max FM 960BR, Deltapine DP 444BRR, Deltapine DP 555BRR, and Stoneville ST 5599BR were include in both early and full season trials for comparison. Because these non-Flex checks were included, Flex trials were managed as regular Round-up Ready varieties.

Dr. Kathy Lawrence, Dept. of Plant Pathology and Entomology, reports the following for all Gulf Coast cotton trials: Cotton boll rot and hard lock indexes ranged from an average low of 2.65 % to a high of 9.45 % across all tests. Under the dry conditions of the 2006 season, the cotton boll rot and hard lock indexes were more sever in the full season cotton varieties including the flex varieties as compared to the early season and early season flex cotton varieties. This disease response is directly opposite of that observed in the 2005 hurricane season in which early season varieties sustained significantly more boll rot and hard lock than the full season varieties.

EXPLANATION OF DATA

HARVEST OF SEED COTTON

A 50-boll sample was taken by hand for ginning, then test plots were harvested by a mechanical spindle picker at all locations. Average seed cotton yield was determined for each variety at each location.

LINT PERCENTAGE

Seed cotton samples from each variety were ginned on a 10-saw gin. Lint percentage was calculated by dividing weight of lint by seed cotton weight.

YIELD OF LINT

Lint yield was determined by multiplying the lint percentage by seed cotton yield.

FIBER PROPERTIES

Fiber qualities of all varieties were measured by the USDA-AMS Classing Office in Birmingham, Alabama using High Volume Instrumentation (HVI). Data are reported on a single composite sample of each variety from each location including the regional tests at Shorter and Belle Mina.

Micronaire: This measures the fineness of the cotton fibers. The smaller the micronaire reading, the finer and/or more immature the fibers.

Length: This is the fiber length measured with the HVI instrument. This measurement of length is similar to the classer's staple.

Strength: This is a measure of breaking strength of a standard fiber bundle with the holding jaws separated by 1/8 inch. "Tex" is a size measurement of the fiber bundle and the data given are the force in grams needed to break this bundle.

Uniformity: This is the ratio between the mean length and the upper half mean length of the fibers and is expressed as a percentage. Cotton with a low length uniformity may be difficult to process.

Earliness: Earliness is reported as the percentage of the total yield harvested at the first picking where more than one harvest was made.

Fusarium Wilt: Reaction of varieties to *Fusarium oxysporum* f. *vasinfectum* (Fusarium wilt) was evaluated at the Plant Breeding Unit, Tallassee. Breeder lines and selected released varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2006, incidence of Fusarium wilt was moderate. The incidence ratings can be found in the 2006 National Fusarium Wilt Cotton Report, Departmental Series No. 280.

STATISTICAL ANALYSIS

Appropriate analyses of the yield data were made. For each location, the variability in the test was measured and expressed as a percentage of the test mean, i.e., the coefficient of variation (C.V.). An indication of the magnitude of difference between variety averages necessary to be considered a real difference is given for each location. It is designated as the Least Significance Difference ($L.S.D_{0.10}$). Appropriate care should be taken when using multi-location or multi-year averages. The genotype x environment interaction is often a significant source of variation, indicating that the varietal rankings are not consistent from one location to another or from one year to the next. Using multi-environment means in these instances can be grossly misleading. It is for this reason that summary tables showing variety ranks by location are included in the report.

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Appreciation is also expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas:

Chet Norris and David Harkins, Tennessee Valley Research and Extension Center; Don Moore, Prattville Research Field; Bobby Durbin, E.V. Smith Research Center; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Ronnie McDaniel and Malcomb Pegues, Gulf Coast Research and Extension Center.

TABLE I. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr <i>----- lbs/acre -----</i>	3-yr
Deltapine DP 445BG/RR	402	45	759	966
Deltapine DP 432 RR	429	44	717	955
Fiber Max FM 960BR	373	43	698	946
Deltapine DP 444BG/RR	326	45	712	937
Stoneville ST5242BR	457	45	703	895
Deltapine DP 555 BG/RR	363	47	651	869
Stoneville ST 4575BR	475	44	686	866
Stoneville ST 4892BR	262	43	617	859
Deltapine DP 434 RR	337	46	650	853
Deltapine DP 393	408	45	574	837
Deltapine DP 455BG/RR	408	45	619	813
Fiber Max FM 960B2R	367	43	602	808
PhytoGen PHY 310R	408	45	747	.
Deltapine DP 454BG/RR	500	47	746	.
PhytoGen PHY 480WR	450	43	682	.
PhytoGen PHY 370WR	446	45	635	.
PhytoGen PHY 470WR	400	45	621	.
PM 2167R	285	43	487	.
CT 210	413	42	.	.
CT Linwood	400	45	.	.
Fiber Max FM 965 LLB2	269	42	.	.
Trial mean	389	44	661	884
LSD(0.10)	86	1	51	33
%CV	24	2	12	7

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr <i>----- lbs/acre ----</i>	3-yr
Stoneville ST 5599BR	379	43	668	853
Deltapine DP 445BG/RR	304	44	647	825
Deltapine DP 494 RR	389	43	640	821
Deltapine DP 455BG/RR	327	43	640	795
Deltapine DP 555 BG/RR	358	46	628	774
Deltapine DP 449 BG/RR	335	41	631	765
Fiber Max FM 991BR	335	40	608	764
Deltapine DP 493	297	45	552	749
Deltapine DP 488 BR	309	41	498	726
Deltapine DP 454BG/RR	401	45	725	.
Fiber Max FM 960BR	355	41	692	.
Deltapine DP 515BG/RR	244	44	602	.
PhytoGen Phy 72 Acala	279	41	510	.
Fiber Max FMX 9166B2LL	373	42	.	.
Fiber Max FM 988 LLB2	323	41	.	.
Fiber Max FMX 95007-80LL	301	44	.	.
Dyna Gro 0A0265	296	39	.	.
Trial mean	330	43	619	786
LSD(0.10)	66	1	26	17
%CV	22	2	6	4

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 432 RR	557	41	1018	877
Deltapine DP 455BG/RR	528	43	1006	874
Fiber Max FM 960BR	519	39	961	866
Stoneville ST5242BR	573	43	1029	860
Deltapine DP 445BG/RR	516	41	977	841
Stoneville ST 4575BR	609	42	1001	840
Deltapine DP 393	515	40	977	839
Fiber Max FM 960B2R	546	41	896	834
Deltapine DP 555 BG/RR	562	42	904	824
Deltapine DP 434 RR	528	41	958	818
Deltapine DP 444BG/RR	513	43	939	759
PhytoGen PHY 470WR	658	42	1052	.
PhytoGen PHY 310R	641	43	1034	.
PhytoGen PHY 480WR	677	42	1005	.
Deltapine DP 454BG/RR	598	45	990	.
PhytoGen PHY 370WR	623	42	978	.
CT 210	603	41	.	.
CT Linwood	521	41	.	.
Fiber Max FM 965 LLB2	503	38	.	.
Trial mean	568	42	983	839
LSD(0.10)	64	1	36	38
%CV	12	2	6	8

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Stoneville ST 5599BR	623	41	951	911
Deltapine DP 455BG/RR	600	44	974	884
Deltapine DP 494 RR	714	43	972	873
Deltapine DP 488 BR	694	42	935	871
Fiber Max FM 991BR	584	39	972	871
Deltapine DP 449 BG/RR	628	40	945	866
Deltapine DP 445BG/RR	622	42	979	850
Deltapine DP 555 BG/RR	608	43	931	842
Deltapine DP 493	595	43	882	787
Deltapine DP 454BG/RR	736	44	1043	.
Deltapine DP 515BG/RR	608	42	1009	.
Fiber Max FM 960BR	640	41	948	.
Fiber Max FMX 9166B2LL	632	41	.	.
Fiber Max FMX 95007-80LL	595	41	.	.
Dyna Gro 0A0265	556	39	.	.
Fiber Max FM 988 LLB2	545	40	.	.
Trial mean	624	42	962	862
LSD(0.10)	58	1	37	29
%CV	10	2	6	6

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 432 RR	711	41	1281	1290
Stoneville ST5242BR	845	42	1282	1216
Deltapine DP 393	789	42	1266	1199
Deltapine DP 555 BG/RR	760	46	1208	1193
Stoneville ST 4575BR	790	42	1236	1188
Stoneville ST 4892BR	771	42	1232	1186
Deltapine DP 455BG/RR	769	44	1177	1181
Deltapine DP 445BG/RR	731	42	1235	1152
Deltapine DP 434 RR	655	42	1153	1144
Fiber Max FM 960BR	670	40	1101	1121
Deltapine DP 444BG/RR	637	41	1142	1104
Fiber Max FM 960B2R	697	42	1013	1069
Deltapine DP 454BG/RR	813	44	1327	.
PhytoGen PHY 310R	798	43	1277	.
PhytoGen PHY 370WR	768	42	1179	.
PhytoGen PHY 480WR	750	40	1173	.
PhytoGen PHY 470WR	758	41	1098	.
PM 2167R	554	40	822	.
CT Linwood	708	42	.	.
CT 210	690	39	.	.
Fiber Max FM 965 LLB2	645	39	.	.
Trial mean	729	42	1178	1170
LSD(0.10)	53	1	65	45
%CV	8	2	8	7

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 493	761	45	1300	1268
Deltapine DP 445BG/RR	722	43	1292	1242
Stoneville ST 5599BR	746	41	1258	1242
Deltapine DP 555 BG/RR	782	45	1223	1194
Deltapine DP 488 BR	766	41	1176	1194
Deltapine DP 494 RR	706	42	1205	1183
Deltapine DP 455BG/RR	696	43	1105	1148
Deltapine DP 449 BG/RR	640	40	1105	1112
Fiber Max FM 991BR	647	39	1055	1040
Deltapine DP 454BG/RR	780	45	1422	.
Deltapine DP 515BG/RR	789	43	1223	.
Fiber Max FM 960BR	679	41	1128	.
PhytoGen Phy 72 Acala	548	40	1038	.
Fiber Max FMX 95007-80LL	621	42	.	.
Dyna Gro 0A0265	618	39	.	.
Fiber Max FMX 9166B2LL	609	39	.	.
Fiber Max FM 988 LLB2	595	40	.	.
Trial mean	689	42	1195	1180
LSD(0.10)	76	1	58	30
%CV	12	1	7	5

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 555 BG/RR	888	42	1384	1300
Deltapine DP 455BG/RR	706	42	1283	1210
Deltapine DP 434 RR	659	42	1242	1183
Fiber Max FM 960BR	651	40	1194	1150
Stoneville ST 4575BR	609	40	1239	1131
Deltapine DP 393	719	40	1214	1130
Deltapine DP 432 RR	542	41	1086	1096
Deltapine DP 445BG/RR	557	40	1088	1056
Deltapine DP 444BG/RR	619	40	1146	1050
Fiber Max FM 960B2R	664	40	1110	1047
Stoneville ST5242BR	456	43	1091	983
PhytoGen PHY 370WR	759	41	1335	.
PhytoGen PHY 310R	687	42	1271	.
Deltapine DP 454BG/RR	686	43	1251	.
PhytoGen PHY 480WR	635	39	1200	.
PhytoGen PHY 470WR	687	41	1155	.
CT 210	782	39	.	.
Fiber Max FM 965 LLB2	723	39	.	.
CT Linwood	578	41	.	.
Trial mean	664	41	1206	1121
LSD(0.10)	89	1	67	19
%CV	15	3	8	3

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre ----</i>	
Deltapine DP 494 RR	1041	41	1375	1302
Deltapine DP 555 BG/RR	1093	42	1375	1291
Deltapine DP 493	1054	43	1343	1286
Deltapine DP 455BG/RR	799	42	1302	1245
Deltapine DP 449 BG/RR	987	39	1330	1205
Deltapine DP 488 BR	999	42	1278	1201
Stoneville ST 5599BR	815	41	1295	1175
Fiber Max FM 991BR	885	37	1208	1125
Deltapine DP 445BG/RR	731	41	1106	1069
Deltapine DP 515BG/RR	1086	41	1286	.
Deltapine DP 454BG/RR	810	43	1283	.
Fiber Max FM 960BR	760	40	1234	.
Fiber Max FMX 95007-80LL	809	42	.	.
Fiber Max FM 988 LLB2	802	37	.	.
Fiber Max FMX 9166B2LL	765	39	.	.
Dyna Gro 0A0265	700	38	.	.
Trial mean	883	40	1284	1211
LSD(0.10)	102	1	67	19
%CV	13	3	8	3

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr <i>----- lbs/acre ----</i>	3-yr
PhytoGen PHY 310R	1542	42	1323	.
Deltapine DP 555 BG/RR	1637	43	1287	.
PhytoGen PHY 370WR	1466	40	1232	.
PhytoGen PHY 470WR	1543	40	1231	.
PhytoGen PHY 480WR	1579	39	1200	.
Deltapine DP 445BG/RR	1380	40	1129	.
Stoneville ST5242BR	1185	41	1101	.
Deltapine DP 455BG/RR	1422	44	1083	.
Deltapine DP 393	1232	40	1079	.
Fiber Max FM 960BR	1372	40	1075	.
Deltapine DP 434 RR	1255	42	1071	.
Deltapine DP 432 RR	1216	41	1061	.
Deltapine DP 454BG/RR	1281	43	1047	.
Fiber Max FM 960B2R	1250	40	1022	.
Stoneville ST 4575BR	1102	40	1006	.
Deltapine DP 444BG/RR	1246	41	1006	.
CT Linwood	1494	41	.	.
CT 210	1401	39	.	.
Fiber Max FM 965 LLB2	1348	38	.	.
Trial mean	1366	41	1122	.
LSD(0.10)	198	1	44	.
%CV	16	3	6	.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 555 BG/RR	1710	43	1310	.
Deltapine DP 454BG/RR	1393	43	1267	.
Deltapine DP 515BG/RR	1493	42	1231	.
Deltapine DP 493	1595	44	1225	.
Deltapine DP 455BG/RR	1355	43	1189	.
Deltapine DP 488 BR	1492	40	1165	.
Deltapine DP 449 BG/RR	1258	40	1093	.
Stoneville ST 5599BR	1346	41	1075	.
Fiber Max FM 991BR	1273	39	1069	.
Deltapine DP 494 RR	1380	42	1064	.
Fiber Max FM 960BR	1239	40	1053	.
Deltapine DP 445BG/RR	1113	41	994	.
Fiber Max FMX 95007-80LL	1508	42	.	.
Fiber Max FMX 9166B2LL	1349	40	.	.
Fiber Max FM 988 LLB2	1193	38	.	.
Dyna Gro 0A0265	796	37	.	.
Trial mean	1343	41	1145	.
LSD(0.10)	145	1	75	.
%CV	12	1	10	.

TABLE II. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT BELLE MINA, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr	3-yr
Stoneville ST 5599BR	1658	41	1519	1498
Deltapine DP 555 BG/RR	1344	44	1322	1274
Fiber Max FM 991BR	1341	40	1196	1184
Deltapine DP 454BG/RR	1725	44	1643	.
Fiber Max FM 960BR	1458	41	1445	.
Stoneville ST5242BR	1757	43	.	.
PhytoGen PHY 370WR	1669	44	.	.
Stoneville ST 4575BR	1640	42	.	.
PhytoGen PHY 470WR	1491	41	.	.
Deltapine DP 445BG/RR	1488	43	.	.
Deltapine DP 444BG/RR	1363	42	.	.
Fiber Max FM 960B2R	1360	40	.	.
Trial mean	1525	42	1425	1318
LSD(0.10)	147	1	44	25
%CV	10	3	4	3

TABLE 12. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr <i>----- lbs/acre -----</i>	3-yr
Stoneville ST 5599BR	1920	44	2019	1809
Deltapine DP 555 BG/RR	2053	44	2074	1804
Deltapine DP 493	1839	45	1980	1797
Fiber Max FM 991BR	1785	40	1926	1732
Deltapine DP 488 BR	1975	41	1866	1717
Stoneville ST5242BR	1938	42	1838	1681
Fiber Max FM 960B2R	1916	40	1768	1663
Deltapine DP 444BG/RR	1871	43	1797	1645
Deltapine DP 494 RR	1860	43	1818	1640
Stoneville ST 4575BR	1762	40	1727	1511
Deltapine DP 454BG/RR	2090	44	2030	.
PhytoGen PHY 370WR	2042	43	1988	.
Deltapine DP 455BG/RR	1882	45	1917	.
PhytoGen PHY 480WR	1747	41	1813	.
Fiber Max FM 960BR	1714	41	1738	.
Deltapine DP 445BG/RR	1806	41	1717	.
PhytoGen PHY 470WR	1723	41	1601	.
Deltapine DP 449 BG/RR	1591	40	.	.
Trial mean	1862	42	1860	1700
LSD(0.10)	253	1	37	40
%CV	15	3	3	4

TABLE 13. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr	3-yr
Deltapine DP 444BG/RR	443	45	747	.
CG 3520 B2RF	482	43	742	.
ST 4664RF	420	44	715	.
PHY 485 WRF	424	44	712	.
Dyna Gro 2520 B2RF	406	44	688	.
CG 4020 B2RF	341	43	680	.
BW-3255 B2RF	391	42	677	.
BW -4630 B2F	445	43	672	.
CG 3020 B2RF	394	42	671	.
ST 4554B2RF	396	43	669	.
Fiber Max FM 960BR	322	42	654	.
Dyna Gro 2100 B2RF	355	40	642	.
BW -8391 B2F	370	40	639	.
DP 117 B2RF	364	42	630	.
DP 110 RF	424	44	611	.
PHY 425 RF	386	42	597	.
ST 4427B2RF	507	42	.	.
Stoneville ST 5599BR	473	45	.	.
Dyna Gro 2242 B2RF	472	42	.	.
ST 4357B2RF	472	43	.	.
ST 5283RF	466	44	.	.
Deltapine DP 555 BG/RR	462	47	.	.
ST 5327B2RF	451	46	.	.
BW-2038 B2F	443	42	.	.
DP 121 RF	418	45	.	.
DP 143 B2RF	409	43	.	.
Fiber Max FM 9060 F	378	45	.	.
ST 4700 B2RF	376	42	.	.
DP 147 RF	371	44	.	.
Fiber Max FM 9063 B2F	370	43	.	.
Fiber Max FM 9068 F	360	43	.	.
STX 0501 RF	331	42	.	.
Dyna Gro 2490 B2RF	324	42	.	.
DPLX 06W650F	318	43	.	.
BW-4021 B2F	314	39	.	.
Trial mean	402	43	672	.
LSD(0.10)	110	1	12	.
%CV	30	2	3	.

TABLE 14. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
DP 147 RF	363	44	759	.
Stoneville ST 5599BR	395	44	740	.
DP 167 RF	382	42	702	.
Deltapine DP 555 BG/RR	380	46	691	.
DP 143 B2RF	341	42	674	.
ST 6611B2RF	274	40	640	.
ST 6622 RF	255	40	621	.
DP 164 B2RF	305	41	582	.
Deltapine DP 444BG/RR	437	46	.	.
Fiber Max FM 960BR	371	42	.	.
Fiber Max FMX 0680 B2F	331	42	.	.
PHY 745 WRF	299	42	.	.
Fiber Max FM 9063 B2F	265	43	.	.
Fiber Max FM 9068 F	259	44	.	.
ST 6565 B2RF	247	40	.	.
Trial mean	327	43	676	.
LSD(0.10)	64	1	13	.
%CV	21	2	3	.

TABLE 15. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PHY 485 WRF	625	40	989	.
Fiber Max FM 960BR	661	40	975	.
BW -4630 B2F	486	39	957	.
PHY 425 RF	604	40	950	.
ST 4664RF	493	40	910	.
BW-3255 B2RF	468	39	909	.
Dyna Gro 2100 B2RF	460	39	889	.
ST 4554B2RF	472	40	888	.
Deltapine DP 444BG/RR	448	41	872	.
BW -8391 B2F	509	37	865	.
Dyna Gro 2520 B2RF	463	40	864	.
CG 3020 B2RF	451	40	861	.
CG 4020 B2RF	457	40	856	.
DP 110 RF	510	40	839	.
CG 3520 B2RF	404	39	823	.
DP 117 B2RF	517	40	798	.
Dyna Gro 2490 B2RF	600	41	.	.
Stoneville ST 5599BR	573	41	.	.
DP 147 RF	555	41	.	.
DP 143 B2RF	551	39	.	.
STX 0501 RF	542	42	.	.
ST 5327B2RF	538	42	.	.
ST 4700 B2RF	523	39	.	.
Fiber Max FM 9060 F	502	41	.	.
Dyna Gro 2242 B2RF	502	39	.	.
ST 4427B2RF	492	40	.	.
BW-4021 B2F	488	38	.	.
BW-2038 B2F	483	40	.	.
Deltapine DP 555 BG/RR	481	42	.	.
DPLX 06W650F	475	41	.	.
ST 4357B2RF	472	40	.	.
DP 121 RF	457	43	.	.
Fiber Max FM 9068 F	440	39	.	.
ST 5283RF	428	42	.	.
Fiber Max FM 9063 B2F	412	40	.	.
Trial mean	501	40	890	.
LSD(0.10)	76	1	39	.
%CV	17	3	7	.

TABLE 16. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 555 BG/RR	466	44	979	.
Stoneville ST 5599BR	479	40	956	.
ST 6622 RF	455	41	893	.
DP 147 RF	496	42	879	.
DP 143 B2RF	501	39	871	.
DP 167 RF	514	39	865	.
DP 164 B2RF	472	39	857	.
ST 6611B2RF	409	39	813	.
Fiber Max FM 960BR	554	41	.	.
Fiber Max FMX 0680 B2F	479	40	.	.
PHY 745 WRF	461	42	.	.
Fiber Max FM 9068 F	434	41	.	.
ST 6565 B2RF	401	39	.	.
Deltapine DP 444BG/RR	395	43	.	.
Fiber Max FM 9063 B2F	374	41	.	.
Trial mean	459	41	889	.
LSD(0.10)	51	1	51	.
%CV	12	2	8	.

TABLE 17. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2006. THIS TRIAL WAS IRRIGATED.

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	2146	45	.	.
ST 5327B2RF	2066	41	.	.
ST 4427B2RF	1955	41	.	.
Fiber Max FM 960BR	1915	42	.	.
ST 4554B2RF	1870	41	.	.
DPLX 06W650F	1860	42	.	.
Fiber Max FM 9063 B2F	1858	40	.	.
CG 3520 B2RF	1844	39	.	.
ST 4700 B2RF	1843	39	.	.
DP 147 RF	1843	42	.	.
Dyna Gro 2520 B2RF	1832	41	.	.
PHY 485 WRF	1807	42	.	.
STX 0501 RF	1766	40	.	.
DP 143 B2RF	1763	41	.	.
DP 117 B2RF	1754	40	.	.
BW-4021 B2F	1742	39	.	.
BW-2038 B2F	1738	39	.	.
DP 121 RF	1710	39	.	.
Fiber Max FM 9068 F	1709	40	.	.
Deltapine DP 444BG/RR	1704	42	.	.
ST 4664RF	1702	42	.	.
Dyna Gro 2490 B2RF	1676	39	.	.
PHY 425 RF	1665	41	.	.
BW -8391 B2F	1657	40	.	.
Fiber Max FM 9060 F	1640	42	.	.
CG 3020 B2RF	1613	38	.	.
DP 110 RF	1606	40	.	.
ST 5283RF	1595	40	.	.
Stoneville ST 5599BR	1581	42	.	.
BW -4630 B2F	1533	40	.	.
ST 4357B2RF	1529	39	.	.
CG 4020 B2RF	1488	38	.	.
BW-3255 B2RF	1425	38	.	.
Dyna Gro 2242 B2RF	1388	38	.	.
Dyna Gro 2100 B2RF	1340	36	.	.
Trial mean	1719	40	.	.
LSD(0.10)	241	2	.	.
%CV	15	5	.	.

TABLE 18. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2006. THIS TRIAL WAS IRRIGATED.

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
ST 6565 B2RF	1968	40	.	.
Deltapine DP 555 BG/RR	1957	45	.	.
Fiber Max FM 9063 B2F	1917	40	.	.
Stoneville ST 5599BR	1894	42	.	.
ST 6622 RF	1889	41	.	.
PHY 745 WRF	1780	42	.	.
Fiber Max FM 960BR	1742	41	.	.
ST 6611B2RF	1722	38	.	.
DP 147 RF	1706	38	.	.
DP 143 B2RF	1696	41	.	.
Fiber Max FM 9068 F	1690	40	.	.
Fiber Max FMX 0680 B2F	1684	41	.	.
Deltapine DP 444BG/RR	1664	42	.	.
DP 164 B2RF	1606	38	.	.
DP 167 RF	1457	38	.	.
Trial mean	1758	40	.	.
LSD(0.10)	215	2	.	.
%CV	13	4	.	.

TABLE 19. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
CG 4020 B2RF	1266	39	1215	.
BW -4630 B2F	1274	39	1206	.
DP 117 B2RF	1358	41	1185	.
PHY 425 RF	1339	41	1154	.
PHY 485 WRF	1299	41	1137	.
ST 4554B2RF	1106	40	1136	.
CG 3520 B2RF	1261	37	1124	.
DP 110 RF	1333	40	1115	.
CG 3020 B2RF	1113	36	1113	.
Deltapine DP 444BG/RR	1257	41	1090	.
Dyna Gro 2520 B2RF	1119	38	1057	.
Fiber Max FM 960BR	1136	39	1055	.
Dyna Gro 2100 B2RF	1248	37	1046	.
ST 4664RF	1118	40	1039	.
BW -8391 B2F	1180	36	1023	.
BW-3255 B2RF	976	36	958	.
Deltapine DP 555 BG/RR	1518	44	.	.
DP 147 RF	1414	41	.	.
Fiber Max FM 9060 F	1356	41	.	.
Fiber Max FM 9068 F	1341	40	.	.
DP 143 B2RF	1313	39	.	.
Fiber Max FM 9063 B2F	1271	40	.	.
ST 4357B2RF	1242	38	.	.
ST 5327B2RF	1235	40	.	.
Stoneville ST 5599BR	1229	40	.	.
DPLX 06W650F	1229	41	.	.
Dyna Gro 2490 B2RF	1197	36	.	.
ST 4427B2RF	1182	40	.	.
DP 121 RF	1134	41	.	.
ST 5283RF	1103	42	.	.
ST 4700 B2RF	1054	38	.	.
BW-2038 B2F	1050	38	.	.
Dyna Gro 2242 B2RF	1024	37	.	.
BW-4021 B2F	963	36	.	.
STX 0501 RF	947	37	.	.
Trial mean	1205	39	1103	.
LSD(0.10)	160	1	56	.
%CV	15	3	8	.

TABLE 20. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	2006 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	1750	43	1384	.
Stoneville ST 5599BR	1355	42	1169	.
DP 147 RF	1291	41	1106	.
ST 6622 RF	1216	39	1085	.
DP 164 B2RF	1147	39	1038	.
ST 6611B2RF	1125	38	1023	.
DP 143 B2RF	1154	40	1019	.
DP 167 RF	1152	39	993	.
Fiber Max FMX 0680 B2F	1186	39	.	.
PHY 745 WRF	1172	39	.	.
Fiber Max FM 9063 B2F	1163	38	.	.
Fiber Max FM 960BR	1135	40	.	.
Fiber Max FM 9068 F	1106	39	.	.
Deltapine DP 444BG/RR	1027	40	.	.
ST 6565 B2RF	920	37	.	.
Trial mean	1193	40	1102	.
LSD(0.10)	139	1	76	.
%CV	13	3	10	.

TABLE 21. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2006

Variety	Belle Mina		Prattville		Shorter		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Stoneville ST 4892BR	262	21	.	.	771	6	.	.	.	.
Deltapine DP 555 BG/RR	363	16	562	9	760	9	1637	1	888	1
Deltapine DP 444BG/RR	326	18	513	18	637	20	1246	15	619	14
CT 210	413	7	603	6	690	16	1401	8	782	2
Deltapine DP 393	408	10	515	17	789	5	1232	16	719	5
Stoneville ST5242BR	457	3	573	8	845	1	1185	18	456	19
Fiber Max FM 960BR	373	14	519	15	670	17	1372	10	651	12
Deltapine DP 434 RR	337	17	528	13	655	18	1255	13	659	11
Deltapine DP 432 RR	429	6	557	10	711	13	1216	17	542	18
Stoneville ST 4575BR	475	2	609	5	790	4	1102	19	609	15
Fiber Max FM 960B2R	367	15	546	11	697	15	1250	14	664	10
Deltapine DP 445BG/RR	402	11	516	16	731	12	1380	9	557	17
Deltapine DP 455BG/RR	408	8	528	12	769	7	1422	7	706	6
PhytoGen PHY 310R	408	9	641	3	798	3	1542	4	687	8
PhytoGen PHY 370WR	446	5	623	4	768	8	1466	6	759	3
PhytoGen PHY 470WR	400	12	658	2	758	10	1543	3	687	7
PhytoGen PHY 480WR	450	4	677	1	750	11	1579	2	635	13
Deltapine DP 454BG/RR	500	1	598	7	813	2	1281	12	686	9
PM 2167R	285	19	.	.	554	21	.	.	.	.
CT Linwood	400	13	521	14	708	14	1494	5	578	16
Fiber Max FM 965 LLB2	269	20	503	19	645	19	1348	11	723	4
Trial mean	389		568		729		1366	.	664	
LSD(0.10)	50		37		31		114	.	52	
%CV	24		12		8		16	.	15	

TABLE 22. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2006

Variety	Belle Mina		Prattville		Shorter		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
PhytoGen Phy 72 Acala	279	16	.	.	548	17	.	.	.	.
Stoneville ST 5599BR	379	3	623	7	746	6	1346	10	815	8
Deltapine DP 555 BG/RR	358	5	608	9	782	2	1710	1	1093	1
Deltapine DP 449 BG/RR	335	7	628	6	640	12	1258	12	987	6
Deltapine DP 493	297	14	595	13	761	5	1595	2	1054	3
Fiber Max FM 960BR	355	6	640	4	679	10	1239	13	760	14
Fiber Max FM 991BR	335	8	584	14	647	11	1273	11	885	7
Deltapine DP 494 RR	389	2	714	2	706	8	1380	7	1041	4
Deltapine DP 488 BR	309	11	694	3	766	4	1492	5	999	5
Deltapine DP 445BG/RR	304	12	622	8	722	7	1113	15	731	15
Deltapine DP 455BG/RR	327	9	600	11	696	9	1355	8	799	12
Fiber Max FMX 9166B2LL	373	4	632	5	609	15	1349	9	765	13
Deltapine DP 515BG/RR	244	17	608	10	789	1	1493	4	1086	2
Deltapine DP 454BG/RR	401	1	736	1	780	3	1393	6	810	9
Fiber Max FMX 95007-80LL	301	13	595	12	621	13	1508	3	809	10
Fiber Max FM 988 LLB2	323	10	545	16	595	16	1193	14	802	11
Dyna Gro 0A0265	296	15	556	15	618	14	796	16	700	16
Trial mean	330		624		689		1343		883	
LSD(0.10)	38		33		44		84		59	
%CV	22		10		12		12		13	

TABLE 23. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2006

Variety	Belle Mina		Prattville		Shorter		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Stoneville ST 5599BR	473	3	573	5	.	.	1229	18	1581	29
Deltapine DP 555 BG/RR	462	7	481	21	.	.	1518	1	2146	1
Deltapine DP 444BG/RR	443	11	448	31	.	.	1257	14	1704	20
Fiber Max FM 960BR	322	33	661	1	.	.	1136	23	1915	4
CG 3020 B2RF	394	19	451	30	.	.	1113	27	1613	26
CG 3520 B2RF	482	2	404	35	.	.	1261	13	1844	8
CG 4020 B2RF	341	30	457	28	.	.	1266	12	1488	32
DP 110 RF	424	13	510	12	.	.	1333	7	1606	27
DP 117 B2RF	364	27	517	11	.	.	1358	3	1754	15
DP 147 RF	371	24	555	6	.	.	1414	2	1843	10
DP 143 B2RF	409	16	551	7	.	.	1313	8	1763	14
PHY 425 RF	386	21	604	3	.	.	1339	6	1665	23
PHY 485 WRF	424	12	625	2	.	.	1299	9	1807	12
BW -8391 B2F	370	25	509	13	.	.	1180	22	1657	24
BW -4630 B2F	445	9	486	19	.	.	1274	10	1533	30
BW-3255 B2RF	391	20	468	25	.	.	976	33	1425	33
ST 4554B2RF	396	18	472	23	.	.	1106	28	1870	5
ST 4664RF	420	14	493	16	.	.	1118	26	1702	21
ST 4357B2RF	472	5	472	24	.	.	1242	16	1529	31
Dyna Gro 2100 B2RF	355	29	460	27	.	.	1248	15	1340	35
Dyna Gro 2520 B2RF	406	17	463	26	.	.	1119	25	1832	11
Fiber Max FM 9063 B2F	370	26	412	34	.	.	1271	11	1858	7
Fiber Max FM 9068 F	360	28	440	32	.	.	1341	5	1709	19
Fiber Max FM 9060 F	378	22	502	14	.	.	1356	4	1640	25
ST 4427B2RF	507	1	492	17	.	.	1182	21	1955	3
ST 5327B2RF	451	8	538	9	.	.	1235	17	2066	2
STX 0501 RF	331	31	542	8	.	.	947	35	1766	13
ST 5283RF	466	6	428	33	.	.	1103	29	1595	28
BW-2038 B2F	443	10	483	20	.	.	1050	31	1738	17
BW-4021 B2F	314	35	488	18	.	.	963	34	1742	16
DPLX 06W650F	318	34	475	22	.	.	1229	19	1860	6
DP 121 RF	418	15	457	29	.	.	1134	24	1710	18
Dyna Gro 2490 B2RF	324	32	600	4	.	.	1197	20	1676	22
Dyna Gro 2242 B2RF	472	4	502	15	.	.	1024	32	1388	34
ST 4700 B2RF	376	23	523	10	.	.	1054	30	1843	9
Trial mean	402		501				1205		1719	
LSD(0.10)	64		44				92		139	
%CV	30		17				15		15	

TABLE 24. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2006

Variety	Belle Mina		Prattville		Shorter		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Stoneville ST 5599BR	395	2	479	6	.	.	1355	2	1894	4
Deltapine DP 555 BG/RR	380	4	466	8	.	.	1750	1	1957	2
Deltapine DP 444BG/RR	437	1	395	14	.	.	1027	14	1664	13
Fiber Max FM 960BR	371	5	554	1	.	.	1135	11	1742	7
DP 167 RF	382	3	514	2	.	.	1152	9	1457	15
DP 147 RF	363	6	496	4	.	.	1291	3	1706	9
DP 164 B2RF	305	9	472	7	.	.	1147	10	1606	14
DP 143 B2RF	341	7	501	3	.	.	1154	8	1696	10
ST 6611B2RF	274	11	409	12	.	.	1125	12	1722	8
ST 6622 RF	255	14	455	10	.	.	1216	4	1889	5
Fiber Max FM 9063 B2F	265	12	374	15	.	.	1163	7	1917	3
Fiber Max FM 9068 F	259	13	434	11	.	.	1106	13	1690	11
Fiber Max FMX 0680 B2F	331	8	479	5	.	.	1186	5	1684	12
ST 6565 B2RF	247	15	401	13	.	.	920	15	1968	1
PHY 745 WRF	299	10	461	9	.	.	1172	6	1780	6
Trial mean	327		459				1193		1758	
LSD(0.10)	37		29				80		124	
%CV	21		12				13		13	

TABLE 25. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2004-2006

Variety	Lint yield			Lint percentage		
	2006	2-yr	3-yr [†]	2006	2-yr	3-yr [†]
	----- lbs/acre-----			----- %-----		
Deltapine DP 555 BG/RR	842	1087	1085	44	43	44
Deltapine DP 432 RR	691	1033	1060	42	41	41
Fiber Max FM 960BR	717	1006	1033	40	40	40
Deltapine DP 455BG/RR	767	1033	1033	43	43	43
Deltapine DP 445BG/RR	717	1038	1026	42	42	42
Deltapine DP 393	733	1022	1017	42	41	41
Deltapine DP 434 RR	685	1014	1014	43	42	42
Stoneville ST 4575BR	717	1034	1010	42	42	42
Stoneville ST5242BR	703	1041	1009	43	42	42
Deltapine DP 444BG/RR	668	989	973	42	42	42
Fiber Max FM 960B2R	705	928	955	41	40	40
PhytoGen PHY 310R	815	1131	.	43	43	.
Deltapine DP 454BG/RR	773	1073	.	44	44	.
PhytoGen PHY 370WR	813	1072	.	42	42	.
PhytoGen PHY 480WR	818	1052	.	40	40	.
PhytoGen PHY 470WR	809	1031	.	42	41	.
CT 210	778	.	.	40	.	.
CT Linwood	740	.	.	42	.	.
Fiber Max FM 965 LLB2	698	.	.	39	.	.
Trial mean	747	1037	1020	42	42	42
LSD(0.10)	23	87	81	0.5	0.4	0.4
%CV	8	29	30	2	2	3

[†]Based 14 location x year combinations, excluding Fairhope 2005.

TABLE 26. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2004-2006

Variety	Lint yield			Lint percentage		
	2006	2-yr	3-yr [†]	2006	2-yr	3-yr [†]
	----- lbs/acre-----			----- %-----		
Deltapine DP 555 BG/RR	910	1093	1073	44	43	44
Deltapine DP 493	860	1061	1058	44	44	44
Stoneville ST 5599BR	782	1049	1056	42	41	42
Deltapine DP 494 RR	846	1051	1054	42	42	42
Deltapine DP 455BG/RR	755	1042	1049	43	42	43
Deltapine DP 488 BR	852	1010	1029	41	40	41
Deltapine DP 449 BG/RR	770	1021	1009	40	40	40
Deltapine DP 445BG/RR	698	1004	1003	42	42	42
Fiber Max FM 991BR	745	983	974	39	39	40
Deltapine DP 454BG/RR	824	1148	.	44	43	.
Deltapine DP 515BG/RR	844	1070	.	42	42	.
Fiber Max FM 960BR	735	1011	.	41	40	.
Fiber Max FMX 95007-80LL	767	.	.	42	.	.
Fiber Max FMX 9166B2LL	746	.	.	40	.	.
Fiber Max FM 988 LLB2	692	.	.	39	.	.
PhytoGen Phy 72 Acala	674	.	.	40	.	.
Dyna Gro 0A0265	593	.	.	38	.	.
Trial mean	770	1045	1034	41	42	42
LSD(0.10)	36	80	72	0.5	0.3	0.3
%CV	11	27	27	2	2	2

[†]Based 14 location x year combinations, excluding Fairhope 2005.

TABLE 27. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2004-2006

Variety	Lint yield			Lint percentage		
	2006	2-yr †	3-yr	2006	2-yr †	3-yr
	----- lbs/acre-----			----- %-----		
PHY 485 WRF	1039	946	‡	42	42	‡
BW -4630 B2F	935	945		40	40	
CG 4020 B2RF	888	917		40	40	
Deltapine DP 444BG/RR	963	903		42	43	
PHY 425 RF	998	900		41	41	
ST 4554B2RF	961	898		41	41	
CG 3520 B2RF	998	896		40	40	
Fiber Max FM 960BR	1008	895		41	40	
ST 4664RF	933	888		41	42	
CG 3020 B2RF	893	882		39	39	
DP 117 B2RF	998	871		41	40	
Dyna Gro 2520 B2RF	955	870		41	41	
Dyna Gro 2100 B2RF	851	859		38	39	
DP 110 RF	968	855		41	41	
BW-3255 B2RF	809	848		39	39	
BW -8391 B2F	929	842		38	37	
Deltapine DP 555 BG/RR	1152	.		44	.	
ST 5327B2RF	1072	.		42	.	
DP 147 RF	1046	.		42	.	
ST 4427B2RF	1034	.		41	.	
DP 143 B2RF	1009	.		40	.	
Fiber Max FM 9063 B2F	978	.		41	.	
DPLX 06W650F	970	.		42	.	
Fiber Max FM 9060 F	969	.		42	.	
Stoneville ST 5599BR	964	.		42	.	
Fiber Max FM 9068 F	962	.		41	.	
Dyna Gro 2490 B2RF	949	.		39	.	
ST 4700 B2RF	949	.		39	.	
DP 121 RF	930	.		42	.	
ST 4357B2RF	929	.		40	.	
BW-2038 B2F	928	.		40	.	
ST 5283RF	898	.		42	.	
STX 0501 RF	896	.		40	.	
BW-4021 B2F	877	.		38	.	
Dyna Gro 2242 B2RF	847	.		39	.	
Trial mean	957	888		41	40	
LSD(0.10)	31	91		0.9	0.3	
%CV	7	27		3	1	

†Based three locations (Belle Mina, Prattville, Fairhope). Headland was added in 2006.

‡ The Flex RR tests were initiated in 2006, hence three-year averages are not yet available.

TABLE 28. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2004-2006

Variety	Lint yield			Lint percentage		
	2006	2-yr †	3-yr	2006	2-yr †	3-yr
	----- lbs/acre-----			----- %-----		
Deltapine DP 555 BG/RR	1139	1018	‡	45	45	‡
Stoneville ST 5599BR	1031	955		42	42	
DP 147 RF	964	915		41	41	
ST 6622 RF	950	867		40	41	
DP 143 B2RF	925	855		41	40	
DP 167 RF	876	853		40	40	
DP 164 B2RF	882	826		39	40	
ST 6611B2RF	882	825		39	39	
Fiber Max FM 960BR	951	.		41	.	
Fiber Max FM 9063 B2F	930	.		40	.	
PHY 745 WRF	928	.		41	.	
Fiber Max FMX 0680 B2F	920	.		40	.	
ST 6565 B2RF	884	.		39	.	
Deltapine DP 444BG/RR	881	.		43	.	
Fiber Max FM 9068 F	872	.		41	.	
Trial mean	934	889		41	41	
LSD(0.10)	41	115		0.8	0.1	
%CV	10	34		3	1	

†Based three locations (Belle Mina, Prattville, Fairhope). Headland was added in 2006.

‡ The Flex RR tests were initiated in 2006, hence three-year averages are not yet available.

TABLE 29.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
CT 210	5.2	0.98	27.0	79.2
CT Linwood	5.1	1.00	32.3	80.5
Deltapine DP 393	4.8	1.05	30.7	82.0
Deltapine DP 432 RR	5.3	0.99	28.5	82.1
Deltapine DP 434 RR	4.7	1.06	27.9	80.5
Deltapine DP 444BG/RR	4.5	0.99	26.6	81.4
Deltapine DP 445BG/RR	5.3	1.04	29.9	80.1
Deltapine DP 454BG/RR	4.4	0.94	27.7	79.4
Deltapine DP 455BG/RR	4.3	1.06	30.7	80.7
Deltapine DP 555 BG/RR	4.6	0.95	26.9	78.5
Fiber Max FM 960B2R	4.9	1.00	29.2	79.9
Fiber Max FM 960BR	4.4	1.03	30.6	82.4
Fiber Max FM 965 LLB2	4.9	1.04	32.3	81.5
PhytoGen PHY 310R	5.3	0.91	25.2	76.9
PhytoGen PHY 370WR	5.6	0.95	29.1	78.5
PhytoGen PHY 470WR	4.8	1.00	28.9	81.9
PhytoGen PHY 480WR	4.7	1.07	31.1	82.6
PM 2167R	5.4	0.90	28.0	80.0
Stoneville ST 4575BR	5.1	1.01	29.6	80.6
Stoneville ST 4892BR	4.9	1.00	26.6	81.8
Stoneville ST5242BR	4.4	0.99	26.9	79.9

TABLE 29.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT BELLE MINA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 445BG/RR	4.9	1.01	27.8	80.0
Deltapine DP 449 BG/RR	4.3	0.96	27.4	79.3
Deltapine DP 454BG/RR	4.2	0.94	26.7	80.0
Deltapine DP 455BG/RR	.	.	.	.
Deltapine DP 488 BR	4.1	1.06	28.6	80.6
Deltapine DP 493	4.5	0.96	26.0	79.9
Deltapine DP 494 RR	5.1	0.97	29.5	80.5
Deltapine DP 515BG/RR	4.5	0.92	25.4	79.1
Deltapine DP 555 BG/RR	4.6	0.91	23.0	77.7
Dyna Gro 0A0265	4.0	1.04	32.2	81.6
Fiber Max FM 960BR	4.8	1.01	27.6	81.2
Fiber Max FM 988 LLB2	5.1	1.01	28.2	80.1
Fiber Max FM 991BR	5.0	1.03	28.8	80.9
Fiber Max FMX 9166B2LL	4.5	1.02	28.4	80.2
Fiber Max FMX 95007-80LL	4.9	1.00	27.1	78.5
PhytoGen Phy 72 Acala	4.4	1.02	34.6	81.0
Stoneville ST 5599BR	4.6	1.01	27.9	79.5

TABLE 30.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
CT 210	5.1	1.03	30.0	80.8
CT Linwood	5.4	1.05	32.1	81.1
Deltapine DP 393	4.8	1.05	27.9	80.5
Deltapine DP 432 RR	4.8	1.01	29.7	80.4
Deltapine DP 434 RR	4.8	1.13	28.5	81.0
Deltapine DP 444BG/RR	4.5	1.01	29.2	80.3
Deltapine DP 445BG/RR	4.7	1.05	30.2	82.1
Deltapine DP 454BG/RR	4.7	0.98	27.4	80.0
Deltapine DP 455BG/RR	5.0	1.02	27.7	79.5
Deltapine DP 555 BG/RR	5.1	1.06	28.8	80.5
Fiber Max FM 960B2R	4.7	1.05	30.5	81.5
Fiber Max FM 960BR	4.9	1.07	32.6	82.4
Fiber Max FM 965 LLB2	4.5	1.09	32.4	81.5
PhytoGen PHY 310R	4.8	1.00	30.6	81.0
PhytoGen PHY 370WR	5.0	0.99	28.5	80.4
PhytoGen PHY 470WR	5.0	1.02	29.4	80.9
PhytoGen PHY 480WR	5.0	1.03	28.3	81.8
Stoneville ST 4575BR	4.8	1.01	30.0	79.6
Stoneville ST5242BR	4.9	1.01	26.8	80.2

TABLE 30.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 445BG/RR	4.6	1.08	29.6	82.5
Deltapine DP 449 BG/RR	4.9	1.07	30.2	55.6
Deltapine DP 454BG/RR	4.9	1.06	29.0	80.9
Deltapine DP 455BG/RR	4.8	1.05	31.1	56.0
Deltapine DP 488 BR	5.4	1.08	29.6	82.6
Deltapine DP 493	5.3	1.09	31.1	56.0
Deltapine DP 494 RR	5.3	1.07	30.6	56.5
Deltapine DP 515BG/RR	5.0	1.05	27.9	81.9
Deltapine DP 555 BG/RR	4.8	1.08	29.3	55.7
Dyna Gro 0A0265	4.1	1.14	37.2	83.3
Fiber Max FM 960BR	5.5	1.01	33.3	57.1
Fiber Max FM 988 LLB2	5.0	1.12	31.1	81.3
Fiber Max FM 991BR	5.0	1.11	34.7	58.4
Fiber Max FMX 9166B2LL	5.0	1.09	32.5	82.3
Fiber Max FMX 95007-80LL	4.8	1.08	32.1	82.1
Stoneville ST 5599BR	5.3	1.08	29.4	80.6

TABLE 31.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT SHORTER, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
CT 210	4.0	1.00	30.4	79.3
CT Linwood	4.9	1.01	31.7	81.5
Deltapine DP 393	4.9	1.09	30.3	83.4
Deltapine DP 432 RR	4.7	1.04	29.2	82.1
Deltapine DP 434 RR	4.4	1.05	27.0	80.7
Deltapine DP 444BG/RR	4.1	1.00	28.6	82.2
Deltapine DP 445BG/RR	4.7	1.03	31.2	81.3
Deltapine DP 454BG/RR	4.2	1.00	28.2	82.2
Deltapine DP 455BG/RR	4.0	1.02	30.0	80.2
Deltapine DP 555 BG/RR	4.7	1.05	28.8	80.5
Fiber Max FM 960B2R	4.4	1.09	31.8	81.8
Fiber Max FM 960BR	4.3	1.03	33.1	80.4
Fiber Max FM 965 LLB2	4.0	1.11	34.3	83.8
PhytoGen PHY 310R	4.9	1.01	30.4	82.7
PhytoGen PHY 370WR	4.8	1.06	31.0	82.7
PhytoGen PHY 470WR	4.9	1.06	30.8	83.6
PhytoGen PHY 480WR	4.6	1.05	30.8	82.4
PM 2167R	4.8	0.98	28.0	82.7
Stoneville ST 4575BR	4.7	1.09	31.8	81.8
Stoneville ST 4892BR	5.3	1.04	30.3	81.8
Stoneville ST5242BR	4.6	1.05	27.2	82.4

TABLE 31.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT SHORTER, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 445BG/RR	4.2	1.04	31.8	82.8
Deltapine DP 449 BG/RR	4.5	1.04	32.0	81.1
Deltapine DP 454BG/RR	4.1	0.97	28.5	80.4
Deltapine DP 455BG/RR	4.1	1.05	29.2	81.4
Deltapine DP 488 BR	4.3	1.12	30.0	83.1
Deltapine DP 493	4.8	1.07	32.3	81.4
Deltapine DP 494 RR	4.6	1.08	32.8	80.3
Deltapine DP 515BG/RR	4.6	1.03	29.5	81.1
Deltapine DP 555 BG/RR	4.5	1.04	28.4	80.9
Dyna Gro 0A0265	3.8	1.10	38.1	83.6
Fiber Max FM 960BR	4.2	1.02	32.6	81.7
Fiber Max FM 988 LLB2	4.4	1.09	31.9	82.1
Fiber Max FM 991BR	4.3	1.10	35.0	82.7
Fiber Max FMX 9166B2LL	4.7	1.04	31.8	82.8
Fiber Max FMX 95007-80LL	4.4	1.06	32.4	82.3
PhytoGen Phy 72 Acala	4.3	1.09	33.5	83.1
Stoneville ST 5599BR	5.2	1.04	30.1	81.2

TABLE 32.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT HEADLAND, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
CT 210	5.0	1.08	32.0	83.8
Deltapine DP 454BG/RR	4.4	1.07	31.0	81.9
Deltapine DP 444BG/RR	4.7	1.08	29.0	84.1
Stoneville ST5242BR	5.0	1.05	28.4	82.1
Deltapine DP 434 RR	4.4	1.11	28.9	83.1
CT Linwood	5.0	1.07	31.1	82.5
Deltapine DP 445BG/RR	4.8	1.08	31.2	83.0
Deltapine DP 393	4.9	1.09	30.5	83.1
PhytoGen PHY 310R	4.7	1.06	31.7	83.3
Deltapine DP 455BG/RR	4.9	1.08	30.8	81.7
PhytoGen PHY 470WR	4.8	1.09	31.2	83.5
PhytoGen PHY 480WR	4.6	1.01	32.8	83.8
Deltapine DP 432 RR	5.0	1.07	30.4	83.2
Fiber Max FM 960B2R	4.4	1.14	32.8	83.6
PhytoGen PHY 370WR	5.0	1.07	32.2	83.9
Fiber Max FM 965 LLB2	5.0	1.12	32.8	83.4
Deltapine DP 555 BG/RR	4.8	1.01	31.9	82.4
Stoneville ST 4575BR	5.1	1.05	30.5	83.2
Fiber Max FM 960BR	4.8	1.07	33.8	83.2

TABLE 32.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT HEADLAND, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 455BG/RR	4.8	1.07	30.3	81.7
Deltapine DP 449 BG/RR	4.6	1.11	32.2	82.8
Deltapine DP 493	4.8	1.12	32.7	83.2
Deltapine DP 488 BR	4.9	1.14	32.4	83.5
Dyna Gro 0A0265	4.1	1.09	33.9	82.6
Fiber Max FM 988 LLB2	4.2	1.18	33.6	83.3
Fiber Max FM 991BR	4.7	1.12	33.0	83.4
Deltapine DP 515BG/RR	4.4	1.12	31.7	83.4
Stoneville ST 5599BR	5.1	1.08	30.5	82.7
Fiber Max FMX 9166B2LL	4.7	1.16	34.0	84.3
Deltapine DP 494 RR	4.5	1.15	34.5	83.9
Deltapine DP 555 BG/RR	4.4	1.10	31.7	83.4
Fiber Max FMX 95007-80LL	4.6	1.09	33.1	82.5
Deltapine DP 445BG/RR	4.7	1.11	32.4	84.0
Fiber Max FM 960BR	4.8	1.01	33.9	83.5
Deltapine DP 454BG/RR	4.6	1.07	30.6	82.6

TABLE 33.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
CT 210	4.9	1.09	30.1	83.8
CT Linwood	5.4	1.12	31.5	85.5
Deltapine DP 393	4.8	1.12	30.7	84.3
Deltapine DP 432 RR	5.0	1.01	29.2	84.7
Deltapine DP 434 RR	4.7	1.14	27.4	83.7
Deltapine DP 444BG/RR	4.2	1.12	29.4	84.2
Deltapine DP 445BG/RR	4.9	1.14	29.2	84.8
Deltapine DP 454BG/RR	3.8	1.10	28.7	83.9
Deltapine DP 455BG/RR	4.2	1.12	28.2	83.7
Deltapine DP 555 BG/RR	4.5	1.01	28.9	82.8
Fiber Max FM 960B2R	4.7	1.15	32.6	83.2
Fiber Max FM 960BR	4.7	1.08	32.3	83.3
Fiber Max FM 965 LLB2	4.2	1.17	33.2	84.6
PhytoGen PHY 310R	4.8	1.08	28.5	83.7
PhytoGen PHY 370WR	4.6	1.10	29.3	83.1
PhytoGen PHY 470WR	4.6	1.14	28.3	84.5
PhytoGen PHY 480WR	4.6	1.18	29.5	84.1
Stoneville ST 4575BR	5.1	1.09	29.4	83.3
Stoneville ST5242BR	4.1	1.13	27.7	84.1

TABLE 33.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 445BG/RR	4.8	1.13	29.5	85.6
Deltapine DP 449 BG/RR	4.6	1.11	29.9	84.0
Deltapine DP 454BG/RR	4.0	1.12	28.4	83.9
Deltapine DP 455BG/RR	4.7	1.10	32.8	83.1
Deltapine DP 488 BR	4.5	1.18	29.8	84.6
Deltapine DP 493	4.7	1.15	30.7	83.8
Deltapine DP 494 RR	4.0	1.22	35.3	85.2
Deltapine DP 515BG/RR	4.5	1.09	30.5	83.4
Deltapine DP 555 BG/RR	4.4	1.13	28.6	84.1
Dyna Gro 0A0265	4.0	1.15	36.9	85.3
Fiber Max FM 960BR	4.5	1.11	34.3	83.7
Fiber Max FM 988 LLB2	4.5	1.15	30.6	84.1
Fiber Max FM 991BR	4.9	1.11	31.3	83.7
Fiber Max FMX 9166B2LL	4.4	1.10	34.7	82.8
Fiber Max FMX 95007-80LL	4.3	1.07	32.5	82.9
Stoneville ST 5599BR	5.0	1.12	28.5	82.6

TABLE 34. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES AT BELLE MINA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 444BG/RR	4.0	1.11	30.4	83.0
Deltapine DP 445BG/RR	4.2	1.14	30.7	83.9
Deltapine DP 454BG/RR	4.2	1.10	29.6	83.2
Deltapine DP 555 BG/RR	4.7	1.10	30.7	82.4
Fiber Max FM 960B2R	4.4	1.16	34.9	83.2
Fiber Max FM 960BR	4.6	1.08	35.2	83.4
Fiber Max FM 991BR	4.5	1.12	35.6	83.2
PhytoGen PHY 370WR	4.8	1.12	31.8	82.7
PhytoGen PHY 470WR	4.3	1.15	28.5	85.4
Stoneville ST 4575BR	4.6	1.14	29.4	83.7
Stoneville ST 5599BR	4.6	1.14	30.1	83.7
Stoneville ST5242BR	4.5	1.11	28.4	83.1

TABLE 35. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
Deltapine DP 444BG/RR	3.9	1.14	32.0	83.1
Deltapine DP 445BG/RR	.	.	.	.
Deltapine DP 449 BG/RR	4.4	1.10	30.1	83.0
Deltapine DP 454BG/RR	4.0	1.09	29.4	82.9
Deltapine DP 455BG/RR	4.2	1.12	30.3	82.6
Deltapine DP 488 BR	4.1	1.21	31.8	83.5
Deltapine DP 493	4.6	1.13	32.3	82.5
Deltapine DP 494 RR	4.5	1.15	32.9	84.4
Deltapine DP 555 BG/RR	4.7	1.01	29.1	81.7
Fiber Max FM 960B2R	4.2	1.15	34.9	83.0
Fiber Max FM 960BR	4.3	1.16	33.4	83.3
Fiber Max FM 991BR	4.6	1.12	32.8	83.7
PhytoGen PHY 370WR	4.3	1.08	28.7	83.3
PhytoGen PHY 470WR	4.4	1.11	29.5	84.6
PhytoGen PHY 480WR	4.6	1.15	31.3	83.8
Stoneville ST 4575BR	4.7	1.07	28.6	83.2
Stoneville ST 5599BR	4.8	1.10	31.3	82.1
Stoneville ST5242BR	4.3	1.12	29.1	83.3

TABLE 36.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
BW -4630 B2F	4.3	1.02	26.6	79.2
BW -8391 B2F	4.1	1.06	28.5	80.6
BW-2038 B2F	4.4	1.04	27.4	81.0
BW-3255 B2RF	4.3	1.04	27.1	81.4
BW-4021 B2F	4.3	1.01	27.1	81.0
CG 3020 B2RF	4.2	1.05	28.3	81.9
CG 3520 B2RF	4.4	1.03	28.0	81.1
CG 4020 B2RF	4.4	1.04	26.3	79.5
Deltapine DP 444BG/RR	4.5	1.00	28.3	80.6
Deltapine DP 555 BG/RR	5.0	1.01	27.8	81.0
DP 110 RF	4.8	1.02	32.9	80.7
DP 117 B2RF	4.7	1.01	30.6	80.3
DP 143 B2RF	4.5	1.07	27.7	80.1
DP 147 RF	4.5	1.02	27.3	80.7
DPLX 06W650F	4.4	1.00	28.7	80.8
DP 121 RF	4.9	1.00	31.0	80.6
Dyna Gro 2490 B2RF	3.9	0.99	27.7	80.6
Dyna Gro 2100 B2RF	4.2	0.99	26.3	79.3
Dyna Gro 2242 B2RF	4.1	1.02	27.0	80.6
Dyna Gro 2520 B2RF	4.4	1.05	28.0	80.3
Fiber Max FM 9060 F	4.3	1.03	26.8	79.4
Fiber Max FM 9063 B2F	4.6	1.08	31.9	81.7
Fiber Max FM 9068 F	4.9	1.06	31.4	81.8
Fiber Max FM 960BR	4.8	0.98	28.1	81.1
PHY 425 RF	5.0	1.00	29.5	80.6
PHY 485 WRF	5.1	1.01	30.6	82.1
ST 4357B2RF	4.4	1.04	27.5	80.6
ST 4554B2RF	4.9	1.01	30.8	80.9
ST 4664RF	4.9	0.96	30.5	80.7
ST 4700 B2RF	4.0	1.02	27.0	81.2
Stoneville ST 5599BR	5.3	1.02	27.5	80.4
STX 0501 RF	4.0	1.01	27.5	80.1
ST 5283RF	4.8	0.98	29.9	80.6
ST 4427B2RF	4.4	1.03	27.8	80.9
ST 5327B2RF	5.1	1.00	29.4	80.3

TABLE 36.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 444BG/RR	4.5	0.96	25.2	79.5
Deltapine DP 555 BG/RR	5.0	0.98	25.9	80.0
DP 143 B2RF	4.3	1.05	24.4	80.6
DP 147 RF	3.9	1.03	25.4	79.4
DP 164 B2RF	4.8	1.02	24.9	79.4
DP 167 RF	5.1	1.03	28.0	80.9
Fiber Max FM 9063 B2F	4.5	1.05	29.7	80.1
Fiber Max FM 9068 F	4.7	1.04	29.8	80.8
Fiber Max FM 960BR	4.9	1.00	28.3	79.8
Fiber Max FMX 0680 B2F	4.3	0.98	27.2	79.6
PHY 745 WRF	4.2	1.06	29.7	80.5
ST 6565 B2RF	4.4	1.06	29.2	81.2
ST 6611B2RF	4.8	1.00	28.1	80.4
ST 6622RF	4.5	0.96	27.4	79.7
Stoneville ST 5599BR	4.7	0.99	25.6	80.2

TABLE 37.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
BW -4630 B2F	4.6	1.01	27.4	81.9
BW -8391 B2F	4.6	1.11	29.8	82.8
BW-2038 B2F	4.5	1.07	26.0	82.1
BW-3255 B2RF	4.3	1.05	27.6	81.6
BW-4021 B2F	4.3	1.06	28.6	81.0
CG 3020 B2RF	4.3	1.03	26.9	81.0
CG 3520 B2RF	4.3	1.06	28.1	82.6
CG 4020 B2RF	4.7	1.07	27.2	80.7
Deltapine DP 444BG/RR	4.8	1.05	29.1	81.8
Deltapine DP 555 BG/RR	4.8	1.03	27.7	80.4
DP 110 RF	5.0	0.99	30.1	80.4
DP 117 B2RF	5.1	1.05	30.2	80.3
DP 143 B2RF	4.7	1.08	28.3	81.1
DP 147 RF	4.9	1.09	27.6	82.0
DPLX 06W650F	4.8	1.01	27.5	81.2
DP 121 RF	5.3	1.00	27.4	81.1
Dyna Gro 2490 B2RF	4.4	1.02	26.7	81.7
Dyna Gro 2100 B2RF	4.3	1.04	26.5	81.7
Dyna Gro 2242 B2RF	4.4	1.08	26.3	82.4
Dyna Gro 2520 B2RF	4.7	1.07	27.9	80.8
Fiber Max FM 9060 F	4.9	1.09	28.3	81.7
Fiber Max FM 9063 B2F	4.6	1.11	30.4	82.6
Fiber Max FM 9068 F	4.8	1.09	32.6	82.5
Fiber Max FM 960BR	5.1	1.03	32.0	81.4
PHY 425 RF	4.9	1.03	27.8	82.0
PHY 485 WRF	5.0	1.07	30.0	83.4
ST 4357B2RF	4.6	1.06	28.3	82.0
ST 4554B2RF	4.9	1.05	28.6	81.1
ST 4664RF	5.0	1.04	29.4	82.0
ST 4700 B2RF	4.7	1.02	25.5	81.1
Stoneville ST 5599BR	5.2	1.03	28.7	80.2
STX 0501 RF	4.3	0.99	29.2	80.5
ST 5283RF	4.8	1.06	27.5	81.1
ST 4427B2RF	4.4	1.03	28.2	81.5
ST 5327B2RF	4.8	1.07	28.9	82.7

TABLE 37.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 444BG/RR	4.6	1.16	26.9	81.5
Deltapine DP 555 BG/RR	5.1	1.00	25.0	79.1
DP 143 B2RF	4.2	1.08	25.9	80.1
DP 147 RF	4.8	1.06	25.0	80.1
DP 164 B2RF	4.9	1.07	25.8	80.4
DP 167 RF	4.8	1.03	25.4	79.6
Fiber Max FM 9063 B2F	4.6	1.08	29.2	80.7
Fiber Max FM 9068 F	4.6	1.08	30.2	82.0
Fiber Max FM 960BR	5.1	0.99	28.0	81.0
Fiber Max FMX 0680 B2F	4.6	1.05	26.8	80.4
PHY 745 WRF	4.3	1.01	29.5	80.8
ST 6565 B2RF	4.8	1.07	27.9	81.5
ST 6611B2RF	4.7	1.02	27.1	81.4
ST 6622RF	4.7	1.04	27.3	81.2
Stoneville ST 5599BR	5.1	1.02	26.2	80.2

TABLE 38.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
BW -4630 B2F	4.3	1.14	27.7	84.2
BW -8391 B2F	4.6	1.13	26.1	84.4
BW-2038 B2F	4.1	1.14	26.6	82.0
BW-3255 B2RF	4.3	1.07	27.0	82.5
BW-4021 B2F	4.9	1.07	27.9	81.9
CG 3020 B2RF	4.4	1.07	26.0	83.2
CG 3520 B2RF	4.5	1.10	26.2	83.7
CG 4020 B2RF	4.6	1.08	26.7	82.3
Deltapine DP 444BG/RR	4.5	1.14	29.6	80.9
Deltapine DP 555 BG/RR	4.6	1.11	28.4	82.5
DP 110 RF	4.6	1.18	28.4	85.2
DP 117 B2RF	4.5	1.20	27.0	86.0
DP 143 B2RF	4.6	1.07	26.5	82.4
DP 147 RF	4.6	1.13	30.7	84.0
DPLX 06W650F	4.6	1.14	27.9	84.6
DP 121 RF	4.4	1.14	31.1	86.4
Dyna Gro 2490 B2RF	3.4	1.07	28.4	82.8
Dyna Gro 2100 B2RF	3.7	1.09	24.9	84.2
Dyna Gro 2242 B2RF	4.8	1.10	27.0	83.3
Dyna Gro 2520 B2RF	5.0	1.13	34.3	85.5
Fiber Max FM 9060 F	4.4	1.17	29.9	85.0
Fiber Max FM 9063 B2F	4.8	1.10	26.3	83.9
Fiber Max FM 9068 F	4.9	1.17	27.1	83.0
Fiber Max FM 960BR	4.8	1.13	28.4	83.6
PHY 425 RF	4.5	1.14	27.0	84.8
PHY 485 WRF	5.1	1.10	24.8	84.2
ST 4357B2RF	4.7	1.12	27.0	84.0
ST 4554B2RF	5.0	1.10	26.8	84.9
ST 4664RF	5.1	1.10	28.1	85.2
ST 4700 B2RF	4.6	1.12	24.4	83.8
Stoneville ST 5599BR	4.5	1.07	26.9	81.9
STX 0501 RF	4.4	1.18	30.9	83.5
ST 5283RF	4.6	1.11	27.9	83.5
ST 4427B2RF	4.8	1.13	29.1	83.2
ST 5327B2RF	4.8	1.08	29.2	81.7

TABLE 38.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 444BG/RR	4.4	1.12	28.1	84.0
Deltapine DP 555 BG/RR	4.8	1.14	29.9	82.7
DP 143 B2RF	4.3	1.21	29.1	82.6
DP 147 RF	4.3	1.17	31.2	84.1
DP 164 B2RF	4.7	1.12	28.5	83.0
DP 167 RF	4.6	1.13	29.1	83.7
Fiber Max FM 9063 B2F	4.5	1.20	29.8	84.5
Fiber Max FM 9068 F	4.4	1.15	29.9	84.4
Fiber Max FM 960BR	4.5	1.14	30.9	84.0
Fiber Max FMX 0680 B2F	4.2	1.17	29.8	82.9
PHY 745 WRF	4.7	1.11	31.3	83.9
ST 6565 B2RF	4.6	1.11	28.9	83.7
ST 6611B2RF	4.9	1.08	27.8	82.1
ST 6622RF	4.7	1.16	28.6	82.9
Stoneville ST 5599BR	4.9	1.12	27.6	82.4

TABLE 39.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
BW -4630 B2F	4.6	1.18	28.2	85.2
BW -8391 B2F	4.4	1.19	29.1	84.9
BW-2038 B2F	4.6	1.12	27.8	83.1
BW-3255 B2RF	4.0	1.11	27.1	83.2
BW-4021 B2F	3.8	1.13	27.5	83.3
CG 3020 B2RF	4.1	1.08	27.1	83.5
CG 3520 B2RF	4.6	1.12	28.1	82.8
CG 4020 B2RF	4.6	1.16	27.6	84.3
Deltapine DP 444BG/RR	4.4	1.11	28.2	84.4
Deltapine DP 555 BG/RR	4.4	1.13	30.6	82.4
DP 110 RF	4.4	1.14	32.7	84.5
DP 117 B2RF	4.3	1.14	32.1	82.9
DP 143 B2RF	4.3	1.23	29.3	84.0
DP 147 RF	4.5	1.18	31.7	83.7
DPLX 06W650F	4.3	1.11	29.7	84.1
DP 121 RF	4.6	1.01	31.0	82.8
Dyna Gro 2490 B2RF	3.8	1.07	27.9	83.2
Dyna Gro 2100 B2RF	4.4	1.07	26.3	83.7
Dyna Gro 2242 B2RF	4.6	1.13	30.0	83.9
Dyna Gro 2520 B2RF	4.6	1.13	28.0	82.5
Fiber Max FM 9060 F	4.3	1.20	30.7	84.1
Fiber Max FM 9063 B2F	4.3	1.20	31.4	83.9
Fiber Max FM 9068 F	4.3	1.20	32.2	83.8
Fiber Max FM 960BR	4.6	1.12	30.7	84.1
PHY 425 RF	4.8	1.17	28.9	84.8
PHY 485 WRF	4.9	1.13	30.5	84.5
ST 4357B2RF	4.7	1.17	29.6	85.3
ST 4554B2RF	5.0	1.10	29.0	83.7
ST 4664RF	4.8	1.12	30.6	84.0
ST 4700 B2RF	4.7	1.11	26.8	83.9
Stoneville ST 5599BR	4.7	1.11	30.4	82.8
STX 0501 RF	3.7	1.17	26.5	82.1
ST 5283RF	4.5	1.13	30.6	84.1
ST 4427B2RF	4.7	1.11	28.8	83.3
ST 5327B2RF	4.6	1.13	30.4	83.5

TABLE 39.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2006

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 444BG/RR	4.2	1.13	28.6	83.8
Deltapine DP 555 BG/RR	4.3	1.09	28.7	82.5
DP 143 B2RF	4.4	1.19	28.9	82.8
DP 147 RF	4.1	1.23	28.9	82.8
DP 164 B2RF	4.7	1.16	31.3	83.2
DP 167 RF	4.8	1.15	30.0	83.1
Fiber Max FM 9063 B2F	4.2	1.23	32.2	83.7
Fiber Max FM 9068 F	4.5	1.16	32.5	84.3
Fiber Max FM 960BR	4.5	1.06	31.6	82.9
Fiber Max FMX 0680 B2F	4.4	1.15	31.3	82.9
PHY 745 WRF	4.2	1.14	33.6	84.2
ST 6565 B2RF	4.0	1.14	31.8	84.3
ST 6611B2RF	4.8	1.01	30.8	83.1
ST 6622RF	4.8	1.08	30.6	83.9
Stoneville ST 5599BR	4.3	1.11	30.2	82.2

TABLE 40. COTTON BOLL RATINGS OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, 2006. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 9.

Variety	Healthy bolls	Boll rot	Hardlock
	count/meter	----- % -----	
CT 210	85	4.7	4.0
CT Linwood	80	4.8	3.8
Deltapine DP 393	66	2.1	2.0
Deltapine DP 432 RR	76	5.8	4.8
Deltapine DP 434 RR	69	5.4	4.4
Deltapine DP 444BG/RR	86	2.2	1.2
Deltapine DP 445BG/RR	69	7.8	4.8
Deltapine DP 454BG/RR	59	6.9	6.2
Deltapine DP 455BG/RR	71	11.1	9.1
Deltapine DP 555 BG/RR	67	5.4	4.4
Fiber Max FM 960B2R	76	4.7	3.3
Fiber Max FM 960BR	72	2.2	1.8
Fiber Max FM 965 LLB2	90	6.5	5.2
PhytoGen PHY 310R	76	6.9	5.3
PhytoGen PHY 370WR	83	13.9	12.6
PhytoGen PHY 470WR	79	6.1	3.8
PhytoGen PHY 480WR	62	4.2	3.2
Stoneville ST 4575BR	97	3.7	2.7
Stoneville ST5242BR	78	5.5	4.2
Test average	76	5.8	4.6
LSD(0.05)	19	6.6	6.8

TABLE 41. COTTON BOLL RATINGS OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, 2006. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 10.

Variety	Healthy bolls	Boll rot	Hardlock
	count/meter	----- % -----	
Deltapine DP 445BG/RR	78.7	3.5	3.5
Deltapine DP 449 BG/RR	60.0	3.4	2.8
Deltapine DP 454BG/RR	87.0	5.6	4.6
Deltapine DP 455BG/RR	81.7	7.9	6.9
Deltapine DP 488 BR	70.7	6.4	2.4
Deltapine DP 493	68.7	3.6	2.9
Deltapine DP 494 RR	88.0	5.6	4.6
Deltapine DP 515BG/RR	62.0	7.5	3.9
Deltapine DP 555 BG/RR	56.7	14.5	10.8
Dyna Gro 0A0265	61.0	11.8	9.8
Fiber Max FM 960BR	75.7	3.2	2.2
Fiber Max FM 988 LLB2	79.0	4.7	4.7
Fiber Max FM 991BR	68.7	8.4	8.4
Fiber Max FMX 9166B2LL	78.0	1.3	1.3
Fiber Max FMX 95007-80LL	75.7	4.3	3.6
Stoneville ST 5599BR	44.0	19.7	19.0
Test average	71.0	7.0	5.7
LSD(0.05)	9.3	6.1	6.4

TABLE 42. COTTON BOLL RATINGS OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2006. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 19.

Variety	Healthy bolls	Boll rot	Hardlock
	count/meter	----- % -----	
BW -4630 B2F	91	0.1	1.1
BW -8391 B2F	68	0.1	8.8
BW-2038 B2F	82	2.4	1.2
BW-3255 B2RF	90	0.1	4.4
BW-4021 B2F	89	2.2	1.1
CG 3020 B2RF	74	1.4	1.4
CG 3520 B2RF	79	10.1	1.3
CG 4020 B2RF	63	0.1	1.6
Deltapine DP 444BG/RR	57	0.1	3.5
Deltapine DP 555 BG/RR	76	0.1	5.3
DP 110 RF	61	4.9	9.8
DP 117 B2RF	63	0.1	3.2
DP 143 B2RF	87	0.1	10.3
DP 147 RF	74	2.7	9.5
DPLX 06W650F	67	3.0	3.0
DPLX 06W660F	65	3.1	3.1
Dyna Gro 060642 B2RF	62	1.6	8.1
Dyna Gro 2100 B2RF	69	1.5	0.0
Dyna Gro 2242 B2RF	83	0.1	0.0
Dyna Gro 2520 B2RF	60	0.1	3.3
Fiber Max FM 9060 F	71	0.1	4.2
Fiber Max FM 9063 B2F	72	0.1	1.4
Fiber Max FM 9068 F	62	3.2	3.2
Fiber Max FM 960BR	88	0.1	1.1
PHY 425 RF	74	0.1	6.8
PHY 485 WRF	69	4.3	5.8
ST 4357B2RF	96	0.1	3.1
ST 4554B2RF	60	0.1	3.3
ST 4664RF	52	3.8	9.6
ST 4700 B2RF	62	0.1	3.2
Stoneville ST 5599BR	86	0.1	3.5
STX 0501 RF	76	2.6	3.9
STX 0503 RF	63	0.1	1.6
STX 0504 B2RF	100	0.1	3.0
STX 0505 B2RF	69	0.1	1.5
Test average	73.1	1.4	3.9
LSD(0.05)	19	5.7	4.8

TABLE 43. COTTON BOLL RATINGS OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, 2006. CORRESPONDING YIELD DATA ARE GIVEN IN TABLE 20.

Variety	Healthy bolls count/meter	Boll rot ----- % -----	Hardlock
Deltapine DP 444BG/RR	75	11.7	9.4
Deltapine DP 555 BG/RR	71	9.9	8.9
DP 143 B2RF	57	14.4	10.7
DP 147 RF	69	12.7	10.7
DP 164 B2RF	81	4.1	4.1
DP 167 RF	76	6.5	5.8
Fiber Max FM 9063 B2F	65	15.5	13.8
Fiber Max FM 9068 F	69	6.1	4.8
Fiber Max FM 960BR	71	8.0	8.0
Fiber Max FMX 0680 B2F	65	11.9	9.2
PHY 745 WRF	72	11.2	8.9
ST 6565 B2RF	71	10.1	9.1
ST 6611B2RF	67	10.4	7.8
ST 6622B2RF	73	10.1	8.4
Stoneville ST 5599BR	77	6.3	6.3
Test average	71	10	8
LSD (P=0.05)	16	11.8	8.9

TABLE 44. GROWING SEASON RAINFALL, 2004-2006

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	2006	2.0	4.9	4.2	1.8	2.4	2.5	3.1	20.9
	2006	3.6	5.4	1.4	3.7	6.6	3.5	3.4	27.6
	2004	5.4	4.3	3.2	5.1	7.8	3.0	3.5	32.3
Shorter	2006	3.7	1.9	3.6	1.2	2.3	4.9	3.1	20.7
	2006	11.1	7.8	2.2	3.1	10.1	3.2	2.0	39.5
	2004	0.8	3.1	4.0	7.4	2.4	4.9	6.4	29.0
Prattville	2006	5.3	2.2	3.1	0.8	3.4	2.5	3.2	20.5
	2006	8.5	6.8	3.4	4.0	9.2	3.9	3.2	39.0
	2004	1.4	3.5	5.2	8.8	2.0	5.7	6.0	32.6
Headland	2006	0.7	1.9	4.1	2.6	2.7	3.5	4.5	20.0
	2006	5.5	9.2	3.1	11.1	5.3	7.9	1.7	43.8
	2004	0.5	4.4	3.9	9.8	4.4	2.1	7.1	32.2
Fairhope	2006	0.4	6.1	3.2	1.3	5.4	7.1	5.3	28.8
	2006	4.3	20.5	7.1	10.4	11.4	11.4	4.7	69.8
	2004	0.1	2.3	2.0	10.8	4.7	8.3	12.6	41.4

TABLE 45. SOIL TYPES FOR 2006 COTTON TRIALS

Test location	Soil type
Belle Mina	Decatur silt loam
E.V. Smith Research Center	
Field Crops Unit, Shorter	Compass sandy loam
Prattville	Lucedale fine sandy loam
Headland	Dothan sandy loam
Fairhope	Malbis fine sandy loam

TABLE 46. SOURCES OF SEED FOR THE 2006 COTTON VARIETY TRIALS**Delta and Pine Land Co., Scott, Mississippi**

Deltapine DP 393	Deltapine DPLX06W650F
Deltapine DP 493	Deltapine DP 117 B2RF
Deltapine DP 432RR	Deltapine DP 143 B2RF
Deltapine DP 434RR	Deltapine DP 164 B2RF
Deltapine DP 494RR	Deltapine DP 110 RF
Deltapine DP 444BRR	Deltapine DP 121 RF
Deltapine DP 445BRR	Deltapine DP 147 RF
Deltapine DP 449BRR	Deltapine DP 167 RF
Deltapine DP 454BRR	
Deltapine DP 455BRR	
Deltapine DP 488BRR	
Deltapine DP 515BRR	
Deltapine DP 555BRR	

Bayer Crop Sciences, Lubbock, Texas

FiberMax FM 988LLB2	FiberMax FMX 9166LLB2
FiberMax FM 965LLB2	FiberMax FMX 95007-80LL
FiberMax FM 960B2R	
FiberMax FM 991BR	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 310 RR	PhytoGen PHY 425 RF
PhytoGen PHY 370 WR	PhytoGen PHY 475 WRF
PhytoGen PHY 470 WR	PhytoGen PHY 485 WRF
PhytoGen PHY 480 WR	

Stoneville Pedigreed Seed Co., Stoneville, Mississippi

Stoneville ST 4575BR	Stoneville ST 4357B2RF
Stoneville ST 5242BR	Stoneville ST 4427B2RF
Stoneville ST 5599BR	Stoneville ST 4554B2RF
Stoneville ST 4664RF	Stoneville ST 4700B2RF
Stoneville ST 5283RF	Stoneville ST 5327B2RF
Stoneville ST 6622RF	Stoneville ST 6565B2RF
Stoneville STX0501RF	Stoneville ST 6611B2RF

TABLE 46. CONTINUED

Delta and Pine Land Co., Scott, Mississippi

Deltapine DP 393	Deltapine DPLX06W650F
Deltapine DP 493	Deltapine DP 117 B2RF
Deltapine DP 432RR	Deltapine DP 143 B2RF
Deltapine DP 434RR	Deltapine DP 164 B2RF
Deltapine DP 494RR	Deltapine DP 110 RF
Deltapine DP 444BRR	Deltapine DP 121 RF
Deltapine DP 445BRR	Deltapine DP 147 RF
Deltapine DP 449BRR	Deltapine DP 167 RF
Deltapine DP 454BRR	
Deltapine DP 455BRR	
Deltapine DP 488BRR	
Deltapine DP 515BRR	
Deltapine DP 555BRR	

Bayer Crop Sciences, Lubbock, Texas

FiberMax FM 988LLB2	FiberMax FMX 9166LLB2
FiberMax FM 965LLB2	FiberMax FMX 95007-80LL
FiberMax FM 960B2R	
FiberMax FM 991BR	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 310 RR	PhytoGen PHY 425 RF
PhytoGen PHY 370 WR	PhytoGen PHY 475 WRF
PhytoGen PHY 470 WR	PhytoGen PHY 485 WRF
PhytoGen PHY 480 WR	