

*2010 Alabama
Cotton Variety
Report*

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Information contained herein is available to all persons regardless of race, color, sex, or national origin.

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2010 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. Plot size was two rows at Prattville, Tallassee, Headland, Belle Mina, 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 dryland Flex RR Cotton trial was planted at five locations: Belle Mina, Prattville, Tallassee, Headland and Fairhope. Additionally, an early season and full season Flex RR trial were irrigated at both Belle Mina and Headland.

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 2010, incidence of Fusarium wilt ranged from moderate to high. The incidence ratings can be found in the 2010 National Fusarium Wilt Cotton Report, Departmental Series No. 304

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.D0.10). 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

ACKNOWLEDGMENTS

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; Steve Nightengale, Plant Breeding Unit Tallassee, E.V. Smith Rsearch Center; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Malcomb Pegues and Jarrod Jones, Gulf Coast Research and Extension Center.

TABLE 1. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
PHY 375 WRF	749	45	990	961
Stoneville ST 4288 B2RF	717	41	1054	952
Deltapine DP 0912 B2RF	702	43	980	919
Croplan Genetics CG 3035 RF	695	43	974	910
Dyna Gro DG 2570 B2RF	687	43	910	869
Americot AM 1550 B2RF	723	44	902	853
Croplan Genetics CG 3220 B2RF	616	44	836	832
Deltapine DP 0924 B2RF	620	42	860	817
CG 3520 B2RF	663	43	841	815
Americot NG 3331 B2RF	590	42	850	814
Fiber Max FM 1740B2F	599	42	873	809
DP 164 B2RF	571	40	819	802
PHY 485 WRF	584	42	824	769
CG 3020 B2RF	540	41	742	726
CG 4020 B2RF	487	40	702	709
Deltapine DP 1137 B2RF	621	45	967	
Deltapine DP 0920 B2RF	712	44	931	
Deltapine 1028B2RF	610	46	919	
PhytoGen PHY 367 WRF	617	43	848	
Americot NG 4012 B2RF	731	43		
Dyna Gro 2450 B2RF	696	43		
All-Tex ATX 81158 RF	650	42		
Americot AMX 001 B2RF	630	44		
All-Tex Epic RF	626	44		
Deltapine DP 1032 B2RF	622	43		
Americot NGX F015 B2RF	619	41		
Americot NG 4010 B2RF	618	42		
Deltapine DP 1034 B2RF	611	45		
Trial mean	639	43	885	837
LSD_{0.10}	85	1	84	66
CV(%)	15	2	14	15

TABLE 2. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>---- lbs/acre ----</i>	
Stoneville ST 5458 B2RF	493	42	775	763
Deltapine DP 174 RF	501	44	797	749
Deltapine DP 0935 B2RF	440	43	680	690
Stoneville ST 5288 B2RF	435	42	782	672
DP 164 B2RF	385	41	653	607
PHY 375 WRF	533	44	796	
Deltapine DP 0949 B2RF	429	42	790	
BCSX 1010 B2F	517	42	751	
PhytoGen PHY 565 WRF	469	42	744	
PhytoGen PHY 499 WRF	569	44		
Deltapine DP 1050 B2RF	548	43		
Deltapine 10R052B2R2	531	45		
Americot AMX 002 B2RF	515	43		
Deltapine DP 1137 B2RF	508	44		
Deltapine DP 1048 B2RF	488	43		
PhytoGen PHY 519 WRF	469	42		
BCSX 1030 B2F	454	42		
BCSX 1040 B2F	451	38		
Deltapine DP 1133 B2RF	422	43		
PhytoGen PHY 569 WRF	387	40		
Trial mean	477	43	752	696
LSD_{0.10}	78	1	66	72
CV(%)	18	2	13	18

TABLE 3. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> ----	
Stoneville ST 4288 B2RF	981	39	881	913
Deltapine DP 0912 B2RF	904	40	819	908
Americot AM 1550 B2RF	912	42	818	905
PHY 375 WRF	891	43	852	900
Croplan Genetics CG 3035 RF	874	43	843	885
Dyna Gro DG 2570 B2RF	814	43	744	880
Deltapine DP 0924 B2RF	768	41	747	842
Americot NG 3331 B2RF	690	40	710	836
DP 164 B2RF	794	41	715	825
PHY 485 WRF	794	41	769	816
Fiber Max FM 1740B2F	856	42	726	809
Croplan Genetics CG 3220 B2RF	628	41	655	776
CG 3020 B2RF	756	39	679	757
CG 3520 B2RF	720	39	646	746
CG 4020 B2RF	595	41	595	733
Deltapine 1028B2RF	884	45	972	
Deltapine DP 1137 B2RF	823	46	924	
PhytoGen PHY 367 WRF	999	43	846	
Deltapine DP 0920 B2RF	705	43	713	
Americot AMX 001 B2RF	1056	43		
All-Tex Epic RF	922	45		
All-Tex ATX 81158 RF	906	39		
Deltapine DP 1034 B2RF	879	45		
Americot NGX F015 B2RF	804	39		
Dyna Gro 2450 B2RF	786	39		
Americot NG 4012 B2RF	766	40		
Americot NG 4010 B2RF	621	38		
Deltapine DP 1032 B2RF	565	44		
Trial mean	810	42	771	835
LSD_{0.10}	148	1	93	72
CV(%)	20	2	18	16

TABLE 4. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 0935 B2RF	653	43	749	865
Deltapine DP 174 RF	802	41	814	848
Stoneville ST 5458 B2RF	664	39	660	769
Stoneville ST 5288 B2RF	585	40	651	753
DP 164 B2RF	584	41	601	694
PHY 375 WRF	756	43	768	
PhytoGen PHY 565 WRF	729	41	752	
BCSX 1010 B2F	708	42	665	
Deltapine DP 0949 B2RF	538	44	600	
Deltapine 10R052B2R2	937	48		
PhytoGen PHY 499 WRF	924	45		
PhytoGen PHY 569 WRF	814	41		
PhytoGen PHY 519 WRF	778	42		
Deltapine DP 1137 B2RF	744	44		
Deltapine DP 1050 B2RF	703	45		
Deltapine DP 1133 B2RF	623	44		
BCSX 1030 B2F	591	42		
Americot AMX 002 B2RF	567	46		
BCSX 1040 B2F	567	33		
Deltapine DP 1048 B2RF	555	44		
Trial mean	691	42	696	786
LSD_{0.10}	120	1	74	72
CV(%)	19	3	15	16

TABLE 5. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr [†]
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 0912 B2RF	807	44		
Deltapine DP 1137 B2RF	781	45		
Americot NG 3331 B2RF	776	44		
Americot AM 1550 B2RF	767	45		
PHY 375 WRF	759	46		
Americot AMX 001 B2RF	756	46		
Deltapine 1028B2RF	716	47		
Deltapine DP 1034 B2RF	716	45		
Croplan Genetics CG 3035 RF	713	45		
PhytoGen PHY 367 WRF	689	45		
Dyna Gro DG 2570 B2RF	687	45		
CG 4020 B2RF	674	44		
PHY 485 WRF	660	44		
Croplan Genetics CG 3220 B2RF	653	44		
All-Tex Epic RF	625	47		
Fiber Max FM 1740B2F	613	44		
Deltapine DP 0924 B2RF	610	44		
Deltapine DP 0920 B2RF	602	44		
Dyna Gro 2450 B2RF	585	46		
All-Tex ATX 81158 RF	564	42		
Americot NG 4012 B2RF	547	44		
Deltapine DP 1032 B2RF	533	46		
DP 164 B2RF	516	41		
CG 3520 B2RF	513	43		
Stoneville ST 4288 B2RF	509	41		
Americot NGX F015 B2RF	458	41		
CG 3020 B2RF	449	43		
Americot NG 4010 B2RF	440	42		
Trial mean	633	44		
LSD_{0.10}	97	1		
CV(%)	17	2		

† First year of this trial for this location, hence no 2- and 3-yr averages are available.

TABLE 6. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr [†]
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre ----</i>	
PhytoGen PHY 499 WRF	765	48		
PHY 375 WRF	759	46		
Deltapine DP 1133 B2RF	722	46		
Deltapine DP 1137 B2RF	704	46		
Deltapine DP 1048 B2RF	678	45		
Stoneville ST 5288 B2RF	661	44		
PhytoGen PHY 519 WRF	657	46		
Deltapine 10R052B2R2	639	47		
PhytoGen PHY 565 WRF	632	43		
PhytoGen PHY 569 WRF	618	42		
Deltapine DP 0935 B2RF	617	46		
BCSX 1010 B2F	613	45		
Deltapine DP 1050 B2RF	603	45		
Deltapine DP 174 RF	594	47		
Americot AMX 002 B2RF	521	45		
BCSX 1040 B2F	517	42		
BCSX 1030 B2F	512	45		
DP 164 B2RF	489	41		
Stoneville ST 5458 B2RF	478	44		
Deltapine DP 0949 B2RF	439	45		
Trial mean	611	45		
LSD_{0.10}	115	1		
CV(%)	20	3		

† First year of this trial for this location, hence no 2- and 3-yr averages are available.

TABLE 7. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Dyna Gro DG 2570 B2RF	600	43	1055	967
PHY 375 WRF	623	45	1063	962
Americot AM 1550 B2RF	592	45	1059	932
PHY 485 WRF	504	41	1030	922
Croplan Genetics CG 3220 B2RF	468	43	999	894
Americot NG 3331 B2RF	484	41	1003	873
Croplan Genetics CG 3035 RF	590	45	1022	863
Deltapine DP 0924 B2RF	584	42	1028	856
DP 164 B2RF	508	42	896	825
CG 4020 B2RF	482	42	902	812
Fiber Max FM 1740B2F	463	42	934	803
Stoneville ST 4288 B2RF	497	40	930	795
CG 3520 B2RF	421	41	798	754
CG 3020 B2RF	431	40	838	744
Deltapine DP 1137 B2RF	573	44	1128	
Deltapine 1028B2RF	628	46	1065	
PhytoGen PHY 367 WRF	711	44	1053	
Deltapine DP 0912 B2RF	575	42	1049	
Deltapine DP 0920 B2RF	495	43	971	
All-Tex Epic RF	650	46		
Deltapine DP 1034 B2RF	632	45		
Americot AMX 001 B2RF	599	45		
All-Tex ATX 81158 RF	522	42		
Deltapine DP 1032 B2RF	515	46		
Americot NG 4012 B2RF	497	43		
Dyna Gro 2450 B2RF	490	42		
Americot NG 4010 B2RF	404	41		
Americot NGX F015 B2RF	366	41		
Trial mean	532	43	991	857
LSD_{0.10}	66	1	98	81
CV(%)	13	3	15	18

TABLE 8. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 174 RF	621	42	1169	980
Deltapine DP 0935 B2RF	677	43	1075	921
Stoneville ST 5458 B2RF	649	44	1034	910
Stoneville ST 5288 B2RF	639	44	1049	882
DP 164 B2RF	483	40	860	725
PHY 375 WRF	708	46	1042	
PhytoGen PHY 565 WRF	706	44	1017	
BCSX 1010 B2F	688	45	973	
Deltapine DP 0949 B2RF	543	44	935	
PhytoGen PHY 499 WRF	882	46		
PhytoGen PHY 519 WRF	799	45		
PhytoGen PHY 569 WRF	702	44		
Deltapine DP 1050 B2RF	681	45		
Deltapine 10R052B2R2	636	45		
BCSX 1040 B2F	611	45		
Deltapine DP 1137 B2RF	611	46		
Deltapine DP 1133 B2RF	599	46		
Deltapine DP 1048 B2RF	517	44		
BCSX 1030 B2F	511	44		
Americot AMX 002 B2RF	359	40		
Trial mean	631	44	1017	884
LSD_{0.10}	99	1	93	76
CV(%)	17	4	13	15

TABLE 9. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
DP 164 B2RF	1152	38	1125	1183
Deltapine DP 0924 B2RF	1073	40	1042	1132
CG 4020 B2RF	1052	38	1045	1098
Americot NG 3331 B2RF	1251	40	1065	1080
Dyna Gro DG 2570 B2RF	1112	41	1108	1070
PHY 375 WRF	1234	42	1006	1058
PHY 485 WRF	1106	40	995	1036
Fiber Max FM 1740B2F	1058	42	1001	1031
Croplan Genetics CG 3035 RF	1019	41	986	1024
Americot AM 1550 B2RF	1032	40	976	1003
CG 3520 B2RF	984	38	943	963
Croplan Genetics CG 3220 B2RF	879	38	927	959
Stoneville ST 4288 B2RF	987	35	858	936
CG 3020 B2RF	888	37	858	913
Deltapine 1028B2RF	1363	44	1262	
Deltapine DP 1137 B2RF	1321	42	1220	
Deltapine DP 0912 B2RF	1113	39	1101	
PhytoGen PHY 367 WRF	1147	41	1033	
Deltapine DP 0920 B2RF	1183	43	1019	
Deltapine DP 1034 B2RF	1238	42		
Americot AMX 001 B2RF	1194	41		
Deltapine DP 1032 B2RF	1133	41		
All-Tex Epic RF	1103	41		
Dyna Gro 2450 B2RF	1055	39		
Americot NG 4012 B2RF	950	39		
Americot NGX F015 B2RF	937	39		
Americot NG 4010 B2RF	885	38		
All-Tex ATX 81158 RF	771	37		
Trial mean	1079	40	1030	1035
LSD_{0.10}	109	1	93	70
CV(%)	11	3	14	13

TABLE 10. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2010.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Stoneville ST 5288 B2RF	878	39	1096	1189
Deltapine DP 0935 B2RF	971	41	1058	1181
DP 164 B2RF	1020	40	1030	1087
Deltapine DP 174 RF	906	42	969	1051
Stoneville ST 5458 B2RF	758	40	822	979
Deltapine DP 0949 B2RF	1147	43	1175	
PhytoGen PHY 565 WRF	1196	41	1173	
BCSX 1010 B2F	1195	39	1077	
PHY 375 WRF	1097	42	1045	
Deltapine DP 1050 B2RF	1381	45		
Deltapine 10R052B2R2	1265	44		
PhytoGen PHY 519 WRF	1162	40		
PhytoGen PHY 499 WRF	1155	44		
Deltapine DP 1133 B2RF	1099	43		
Deltapine DP 1048 B2RF	1088	42		
Deltapine DP 1137 B2RF	1085	44		
PhytoGen PHY 569 WRF	1048	39		
BCSX 1040 B2F	943	36		
BCSX 1030 B2F	829	41		
Americot AMX 002 B2RF	826	43		
Trial mean	1053	41	1050	1097
LSD_{0.10}	143	1	101	69
CV(%)	15	3	14	11

TABLE 11. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010[†].

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 0912 B2RF	1139	44	1195	1396
PHY 375 WRF	1266	45	1139	1363
Dyna Gro DG 2570 B2RF	1170	43	1010	1361
Americot NG 3331 B2RF	1165	43	1032	1358
Stoneville ST 4288 B2RF	1083	40	1123	1357
Fiber Max FM 1740B2F	1178	42	1083	1352
Americot AM 1550 B2RF	1110	44	1015	1298
Croplan Genetics CG 3035 RF	1221	45	1108	1277
Croplan Genetics CG 3220 B2RF	1179	43	1035	1256
Deltapine DP 0924 B2RF	875	43	979	1222
CG 3520 B2RF	1138	42	977	1216
PHY 485 WRF	1026	43	953	1205
CG 4020 B2RF	1044	42	862	1186
DP 164 B2RF	1005	42	973	1182
CG 3020 B2RF	1060	41	873	1107
Deltapine DP 0920 B2RF	1401	44	1178	
Deltapine 1028B2RF	1214	46	1080	
PhytoGen PHY 367 WRF	1181	43	956	
Deltapine DP 1137 B2RF	1086	45	945	
Americot AMX 001 B2RF	1251	45		
Deltapine DP 1032 B2RF	1189	46		
Deltapine DP 1034 B2RF	1121	46		
Americot NG 4010 B2RF	1076	41		
Americot NG 4012 B2RF	1047	42		
Americot NGX F015 B2RF	1018	42		
All-Tex ATX 81158 RF	1015	42		
All-Tex Epic RF	959	44		
Dyna Gro 2450 B2RF	958	43		
Trial mean	1113	43	1027	1276
LSD_{0.10}	191	1	139	97
CV(%)	19	2	20	14

[†] This trial received 2.2 inches of irrigation water

TABLE 12. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010†.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 174 RF	1140	44	1166	1411
Deltapine DP 0935 B2RF	1047	44	1020	1321
Stoneville ST 5458 B2RF	940	43	918	1247
Stoneville ST 5288 B2RF	915	43	854	1231
DP 164 B2RF	928	43	907	1176
Deltapine DP 0949 B2RF	1006	45	1045	
PHY 375 WRF	1169	45	985	
PhytoGen PHY 565 WRF	949	43	980	
BCSX 1010 B2F	942	44	872	
PhytoGen PHY 499 WRF	1191	46		
Deltapine 10R052B2R2	1118	48		
Deltapine DP 1133 B2RF	1053	47		
BCSX 1030 B2F	1040	45		
Deltapine DP 1050 B2RF	1034	47		
Americot AMX 002 B2RF	1002	46		
Deltapine DP 1137 B2RF	995	48		
PhytoGen PHY 519 WRF	992	45		
BCSX 1040 B2F	985	40		
Deltapine DP 1048 B2RF	940	46		
PhytoGen PHY 569 WRF	900	43		
Trial mean	1014	45	972	1277
LSD_{0.10}	112	1	75	58
CV(%)	12	2	11	8

† This trial received 2.2 inches of irrigation water

TABLE 13. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010†.

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Dyna Gro DG 2570 B2RF	1537	42	1596	1808
PHY 375 WRF	1491	43	1400	1678
Stoneville ST 4288 B2RF	1500	40	1428	1676
Fiber Max FM 1740B2F	1512	43	1467	1673
Deltapine DP 0924 B2RF	1407	40	1393	1647
Americot NG 3331 B2RF	1480	42	1420	1645
Croplan Genetics CG 3035 RF	1451	44	1399	1623
Croplan Genetics CG 3220 B2RF	1398	41	1333	1595
PHY 485 WRF	1420	41	1324	1538
Americot AM 1550 B2RF	1465	43	1274	1533
DP 164 B2RF	1300	42	1251	1524
CG 4020 B2RF	1428	40	1326	1509
CG 3520 B2RF	1427	40	1312	1493
CG 3020 B2RF	1158	38	1089	1355
Deltapine 1028B2RF	1750	46	1682	
Deltapine DP 1137 B2RF	1790	45	1558	
Deltapine DP 0912 B2RF	1470	42	1470	
PhytoGen PHY 367 WRF	1588	44	1367	
Deltapine DP 0920 B2RF	1400	42	1364	
All-Tex Epic RF	1796	44		
All-Tex ATX 81158 RF	1732	42		
Americot AMX 001 B2RF	1659	45		
Deltapine DP 1032 B2RF	1473	45		
Americot NG 4012 B2RF	1395	41		
Dyna Gro 2450 B2RF	1387	40		
Deltapine DP 1034 B2RF	1381	45		
Americot NGX F015 B2RF	1335	39		
Americot NG 4010 B2RF	1269	40		
Trial mean	1479	42	1392	1593
LSD_{0.10}	150	1	131	99
CV(%)	11	2	15	12

† This trial received 10.5 inches of irrigation water

TABLE 14. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010[†].

Variety	2010 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 174 RF	1464	45	1478	1688
Stoneville ST 5458 B2RF	1244	41	1293	1644
Deltapine DP 0935 B2RF	1269	44	1331	1632
Stoneville ST 5288 B2RF	1279	40	1345	1627
DP 164 B2RF	1174	40	1199	1435
PhytoGen PHY 565 WRF	1365	41	1383	
Deltapine DP 0949 B2RF	1218	44	1299	
PHY 375 WRF	1386	42	1298	
BCSX 1010 B2F	1334	41	1283	
Deltapine 10R052B2R2	1791	47		
PhytoGen PHY 499 WRF	1750	46		
Deltapine DP 1048 B2RF	1562	45		
BCSX 1030 B2F	1503	43		
PhytoGen PHY 519 WRF	1501	41		
Deltapine DP 1137 B2RF	1481	45		
Deltapine DP 1050 B2RF	1476	45		
Americot AMX 002 B2RF	1419	44		
PhytoGen PHY 569 WRF	1344	41		
Deltapine DP 1133 B2RF	1323	43		
BCSX 1040 B2F	1218	36		
Trial mean	1405	43	1323	1605
LSD_{0.10}	138	1	82	74
CV(%)	11	2	9	8

† This trial received 10.5 inches of irrigation water

TABLE 15. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2008-2010

Variety	Lint yield			Lint percentage		
	2010	2-yr	3-yr	2010	2-yr	3-yr
	----- lbs/acre -----			----- % -----		
Deltapine DP 0912 B2RF	820	973	971	42	42	42
PHY 375 WRF	851	959	951	44	43	43
Dyna Gro DG 2570 B2RF	780	930	923	43	42	43
Americot AM 1550 B2RF	805	925	908	43	42	43
Croplan Genetics CG 3035 RF	778	935	901	43	43	44
Americot NG 3331 B2RF	758	898	888	41	41	41
Deltapine DP 0924 B2RF	731	891	885	42	41	42
DP 164 B2RF	708	853	875	40	40	40
Stoneville ST 4288 B2RF	738	890	866	39	39	39
PHY 485 WRF	729	883	865	42	41	41
Croplan Genetics CG 3220 B2RF	649	838	846	42	42	42
Fiber Max FM 1740B2F	718	859	840	42	42	42
CG 4020 B2RF	658	802	822	41	40	41
CG 3520 B2RF	660	780	792	41	40	41
CG 3020 B2RF	613	748	756	40	40	40
Deltapine DP 1137 B2RF	825	1033		44	44	
Deltapine 1028B2RF	840	1023		46	45	
PhytoGen PHY 367 WRF	833	922		43	42	
Deltapine DP 0920 B2RF	739	880		43	43	
Americot AMX 001 B2RF	847			44		
Deltapine DP 1034 B2RF	815			44		
All-Tex Epic RF	785			44		
Dyna Gro 2450 B2RF	722			42		
Americot NG 4012 B2RF	694			42		
All-Tex ATX 81158 RF	679			40		
Deltapine DP 1032 B2RF	674			44		
Americot NGX F015 B2RF	637			40		
Americot NG 4010 B2RF	594			40		
Trial mean	739	896	873	42	42	42
LSD_{0.10}	25	65	50	0	0.2	0
CV(%)	8	25	24	3	2	2

TABLE 16. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2008-2010

Variety	Lint yield			Lint percentage		
	2010	2-yr	3-yr	2010	2-yr	3-yr
	----- lbs/acre-----			----- % -----		
Deltapine DP 0935 B2RF	672	870	894	43	43	43
Deltapine DP 174 RF	685	909	885	43	43	44
Stoneville ST 5288 B2RF	639	878	860	42	42	42
Stoneville ST 5458 B2RF	608	794	829	42	41	42
DP 164 B2RF	592	763	759	41	40	40
PHY 375 WRF	771	904		44	43	
PhytoGen PHY 565 WRF	746	899		42	42	
BCSX 1010 B2F	744	848		43	41	
Deltapine DP 0949 B2RF	619	836		44	43	
PhytoGen PHY 499 WRF	859			45		
Deltapine 10R052B2R2	802			46		
Deltapine DP 1050 B2RF	783			45		
PhytoGen PHY 519 WRF	773			43		
Deltapine DP 1137 B2RF	731			45		
PhytoGen PHY 569 WRF	722			41		
Deltapine DP 1133 B2RF	693			45		
Deltapine DP 1048 B2RF	671			44		
BCSX 1040 B2F	618			39		
BCSX 1030 B2F	579			43		
Americot AMX 002 B2RF	558			44		
Trial mean	693	856	845	43	42	42
LSD_{0.10}	25	51	50	1	0.2	0
CV(%)	9	21	25	3	2	1

TABLE 17. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2010.

Variety	Belle Mina		Prattville		Tallassee		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
All-Tex ATX 81158 RF	650	11	906	6	564	20	771	28	522	13
All-Tex Epic RF	626	13	922	4	625	15	1103	14	650	2
Americot AM 1550 B2RF	723	3	912	5	767	4	1032	19	592	8
Americot AMX 001 B2RF	630	12	1056	1	756	6	1194	6	599	7
Americot NG 3331 B2RF	590	24	690	24	776	3	1251	3	484	21
Americot NG 4010 B2RF	618	18	621	26	440	28	885	26	404	27
Americot NG 4012 B2RF	731	2	766	20	547	21	950	23	497	17
Americot NGX F015 B2RF	619	17	804	15	458	26	937	24	366	28
CG 3020 B2RF	540	27	756	21	449	27	888	25	431	25
CG 3520 B2RF	663	10	720	22	513	24	984	22	421	26
CG 4020 B2RF	487	28	595	27	674	12	1052	18	482	22
Croplan Genetics CG 3035 RF	695	8	874	11	713	9	1019	20	590	9
Croplan Genetics CG 3220 B2RF	616	20	628	25	653	14	879	27	468	23
DP 164 B2RF	571	26	794	16	516	23	1152	8	508	15
Deltapine 1028B2RF	610	22	884	9	716	7	1363	1	628	4
Deltapine DP 0912 B2RF	702	6	904	7	807	1	1113	11	575	11
Deltapine DP 0920 B2RF	712	5	705	23	602	18	1183	7	495	19
Deltapine DP 0924 B2RF	620	16	768	19	610	17	1073	15	584	10
Deltapine DP 1032 B2RF	622	14	565	28	533	22	1133	10	515	14
Deltapine DP 1034 B2RF	611	21	879	10	716	8	1238	4	632	3
Deltapine DP 1137 B2RF	621	15	823	13	781	2	1321	2	573	12
Dyna Gro 2450 B2RF	696	7	786	18	585	19	1055	17	490	20
Dyna Gro DG 2570 B2RF	687	9	814	14	687	11	1112	12	600	6
Fiber Max FM 1740B2F	599	23	856	12	613	16	1058	16	463	24
PHY 375 WRF	749	1	891	8	759	5	1234	5	623	5
PHY 485 WRF	584	25	794	17	660	13	1106	13	504	16
PhytoGen PHY 367 WRF	617	19	999	2	689	10	1147	9	711	1
Stoneville ST 4288 B2RF	717	4	981	3	509	25	987	21	497	18
Trial mean	639		810		633		1079		532	
LSD_{0.10}	85		148		97		109		66	
CV(%)	15		20		17		11		13	

TABLE 18. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2010.

Variety	Belle Mina		Prattville		Tallassee		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Americot AMX 002 B2RF	515	6	567	17	521	15	826	19	359	20
BCSX 1010 B2F	517	5	708	9	613	12	1195	4	688	6
BCSX 1030 B2F	454	13	591	14	512	17	829	18	511	18
BCSX 1040 B2F	451	14	567	18	517	16	943	15	611	13
DP 164 B2RF	385	20	584	16	489	18	1020	13	483	19
Deltapine 10R052B2R2	531	4	937	1	639	8	1265	2	636	11
Deltapine DP 0935 B2RF	440	15	653	12	617	11	971	14	677	8
Deltapine DP 0949 B2RF	429	17	538	20	439	20	1147	7	543	16
Deltapine DP 1048 B2RF	488	10	555	19	678	5	1088	10	517	17
Deltapine DP 1050 B2RF	548	2	703	10	603	13	1381	1	681	7
Deltapine DP 1133 B2RF	422	18	623	13	722	3	1099	8	599	15
Deltapine DP 1137 B2RF	508	7	744	7	704	4	1085	11	611	14
Deltapine DP 174 RF	501	8	802	4	594	14	906	16	621	12
PHY 375 WRF	533	3	756	6	759	2	1097	9	708	3
PhytoGen PHY 499 WRF	569	1	924	2	765	1	1155	6	882	1
PhytoGen PHY 519 WRF	469	11	778	5	657	7	1162	5	799	2
PhytoGen PHY 565 WRF	469	12	729	8	632	9	1196	3	706	4
PhytoGen PHY 569 WRF	387	19	814	3	618	10	1048	12	702	5
Stoneville ST 5288 B2RF	435	16	585	15	661	6	878	17	639	10
Stoneville ST 5458 B2RF	493	9	664	11	478	19	758	20	649	9
Trial mean	477		691		611		1053		631	
LSD_{0.10}	78		120		115		143		99	
CV(%)	18		19		20		15		17	

TABLE 19. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.3	1.10	30.5	82.0
All-Tex Epic RF	4.4	1.04	29.0	81.8
Americot AM 1550 B2RF	4.8	1.02	26.2	81.9
Americot AMX 001 B2RF	4.6	1.07	29.0	81.8
Americot NG 3331 B2RF	4.5	1.01	28.9	80.7
Americot NG 4010 B2RF	4.5	1.09	32.8	82.0
Americot NG 4012 B2RF	4.0	1.06	29.1	81.3
Americot NGX F015 B2RF	4.9	1.07	31.7	82.2
CG 3020 B2RF	4.1	1.05	27.9	81.9
CG 3520 B2RF	4.3	1.07	27.7	81.7
CG 4020 B2RF	3.7	1.11	28.9	82.9
Croplan Genetics CG 3035 RF	4.2	1.08	31.4	83.6
Croplan Genetics CG 3220 B2RF	4.7	1.07	29.1	82.4
Deltapine 1028B2RF	4.6	1.04	28.1	80.8
Deltapine DP 0912 B2RF	5.1	1.04	28.8	81.6
Deltapine DP 0920 B2RF	4.8	1.08	29.5	82.2
Deltapine DP 0924 B2RF	4.7	1.06	30.1	82.1
Deltapine DP 1032 B2RF	4.4	1.09	30.0	82.4
Deltapine DP 1034 B2RF	4.6	1.08	30.1	82.2
Deltapine DP 1137 B2RF	4.8	1.04	27.1	81.8
DP 164 B2RF	4.7	1.11	29.3	82.5
Dyna Gro 2450 B2RF	4.4	1.11	27.5	82.6
Dyna Gro DG 2570 B2RF	4.0	1.08	32.0	83.3
Fiber Max FM 1740B2F	4.1	1.06	28.5	82.1
PHY 375 WRF	4.1	1.10	29.3	83.4
PHY 485 WRF	4.3	1.05	32.1	82.9
PhytoGen PHY 367 WRF	4.2	1.07	29.1	82.3
Stoneville ST 4288 B2RF	4.4	1.08	28.9	82.5

TABLE 20. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.5	0.99	26.3	79.8
BCSX 1010 B2F	4.6	1.03	27.6	80.9
BCSX 1030 B2F	4.4	1.07	32.3	82.1
BCSX 1040 B2F	4.4	1.16	32.9	83.1
Deltapine 10R052B2R2	4.6	1.07	29.8	82.0
Deltapine DP 0935 B2RF	4.3	1.04	28.5	82.0
Deltapine DP 0949 B2RF	4.6	1.03	27.9	81.7
Deltapine DP 1048 B2RF	4.7	1.07	27.5	82.3
Deltapine DP 1050 B2RF	4.4	1.07	29.4	81.9
Deltapine DP 1133 B2RF	4.5	1.06	32.3	83.1
Deltapine DP 1137 B2RF	4.7	1.04	28.9	82.1
Deltapine DP 174 RF	4.6	1.06	27.6	82.1
DP 164 B2RF	4.7	1.03	28.9	81.7
PHY 375 WRF	4.3	1.02	28.4	80.6
PhytoGen PHY 499 WRF	4.5	1.05	32.0	82.7
PhytoGen PHY 519 WRF	4.3	1.06	30.5	81.5
PhytoGen PHY 565 WRF	4.2	1.06	30.2	81.8
PhytoGen PHY 569 WRF	4.4	1.03	30.2	81.6
Stoneville ST 5288 B2RF	4.9	1.02	27.6	82.0
Stoneville ST 5458 B2RF	4.7	1.06	29.6	81.8

TABLE 21. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.1	1.09	29.8	82.1
All-Tex Epic RF	4.8	1.04	29.3	81.9
Americot AM 1550 B2RF	4.6	1.06	28.1	80.9
Americot AMX 001 B2RF	4.5	1.10	31.1	83.2
Americot NG 3331 B2RF	5.0	1.04	28.6	82.5
Americot NG 4010 B2RF	4.0	1.13	30.8	82.4
Americot NG 4012 B2RF	4.2	1.11	30.0	82.4
Americot NGX F015 B2RF	4.7	1.07	31.2	82.4
CG 3020 B2RF	4.5	1.04	29.0	82.3
CG 3520 B2RF	4.6	1.08	28.6	82.3
CG 4020 B2RF	4.5	1.10	28.4	82.2
Croplan Genetics CG 3035 RF	4.5	1.05	28.4	81.9
Croplan Genetics CG 3220 B2RF	4.8	1.07	29.9	83.7
Deltapine 1028B2RF	4.9	1.06	28.1	81.5
Deltapine DP 0912 B2RF	4.7	1.04	28.0	80.6
Deltapine DP 0920 B2RF	4.8	1.04	27.1	82.7
Deltapine DP 0924 B2RF	4.6	1.05	28.1	81.8
Deltapine DP 1032 B2RF	5.3	1.08	27.7	82.1
Deltapine DP 1034 B2RF	4.9	1.09	27.7	82.0
Deltapine DP 1137 B2RF	5.4	1.04	29.9	83.1
DP 164 B2RF	4.7	1.10	28.7	82.0
Dyna Gro 2450 B2RF	4.3	1.08	27.5	80.9
Dyna Gro DG 2570 B2RF	5.2	1.05	28.8	81.1
Fiber Max FM 1740B2F	4.6	1.05	28.8	81.6
PHY 375 WRF	4.7	1.02	27.0	81.5
PHY 485 WRF	4.7	1.06	30.7	82.3
PhytoGen PHY 367 WRF	4.1	1.06	28.7	80.7
Stoneville ST 4288 B2RF	4.6	1.09	28.1	81.3

TABLE 22. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.6	0.98	25.3	81.4
BCSX 1010 B2F	4.4	1.06	27.2	82.2
BCSX 1030 B2F	4.1	1.09	28.6	81.7
BCSX 1040 B2F	3.7	1.20	29.3	83.5
Deltapine 10R052B2R2	5.2	1.07	28.8	83.4
Deltapine DP 0935 B2RF	5.5	1.02	27.5	80.9
Deltapine DP 0949 B2RF	5.7	1.02	31.5	82.9
Deltapine DP 1048 B2RF	5.0	1.08	29.2	82.9
Deltapine DP 1050 B2RF	4.8	1.06	28.3	82.6
Deltapine DP 1133 B2RF	5.3	1.08	32.8	83.1
Deltapine DP 1137 B2RF	4.8	1.06	26.2	81.6
Deltapine DP 174 RF	4.0	1.11	27.2	81.6
DP 164 B2RF	5.4	1.04	29.2	82.7
PHY 375 WRF	4.2	1.02	26.1	80.7
PhytoGen PHY 499 WRF	4.4	1.06	30.4	82.2
PhytoGen PHY 519 WRF	4.2	1.02	28.5	80.4
PhytoGen PHY 565 WRF	4.6	1.06	29.9	81.3
PhytoGen PHY 569 WRF	4.7	1.08	29.6	83.0
Stoneville ST 5288 B2RF	4.5	1.05	26.1	80.9
Stoneville ST 5458 B2RF	4.1	1.09	27.5	80.3

TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.6	1.04	29.5	81.1
All-Tex Epic RF	5.1	1.04	32.2	83.0
Americot AM 1550 B2RF	5.1	1.00	26.3	80.5
Americot AMX 001 B2RF	5.0	1.01	29.1	81.7
Americot NG 3331 B2RF	5.2	1.03	29.9	82.2
Americot NG 4010 B2RF	4.6	1.06	31.4	81.3
Americot NG 4012 B2RF	4.6	1.03	28.9	80.3
Americot NGX F015 B2RF	4.9	1.05	31.0	82.8
CG 3020 B2RF	4.6	0.98	25.9	80.6
CG 3520 B2RF	4.6	1.04	27.8	81.5
CG 4020 B2RF	†	†	†	†
Croplan Genetics CG 3035 RF	5.0	1.03	28.8	83.5
Croplan Genetics CG 3220 B2RF	4.9	1.03	28.1	82.0
Deltapine 1028B2RF	5.0	1.04	29.3	81.8
Deltapine DP 0912 B2RF	5.1	1.03	30.2	83.0
Deltapine DP 0920 B2RF	4.7	1.04	27.7	81.0
Deltapine DP 0924 B2RF	5.2	1.02	28.8	82.0
Deltapine DP 1032 B2RF	4.7	1.09	29.4	80.8
Deltapine DP 1034 B2RF	4.8	1.09	29.6	82.8
Deltapine DP 1137 B2RF	†	†	†	†
DP 164 B2RF	4.9	1.08	27.3	81.2
Dyna Gro 2450 B2RF	4.7	1.04	26.3	81.1
Dyna Gro DG 2570 B2RF	5.4	1.03	29.7	83.2
Fiber Max FM 1740B2F	4.5	1.03	27.8	80.8
PHY 375 WRF	4.7	1.04	27.4	82.2
PHY 485 WRF	5.2	1.02	30.8	82.2
PhytoGen PHY 367 WRF	4.8	1.05	29.4	82.5
Stoneville ST 4288 B2RF	4.5	1.05	29.1	81.1

†Not enough sample to run HVI.

TABLE 24. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.6	0.97	23.4	79.3
BCSX 1010 B2F	4.5	1.04	26.5	79.8
BCSX 1030 B2F	4.4	1.03	26.0	80.7
BCSX 1040 B2F	4.5	1.07	27.7	80.8
Deltapine 10R052B2R2	4.9	1.09	29.8	82.6
Deltapine DP 0935 B2RF	5.0	1.00	27.8	80.0
Deltapine DP 0949 B2RF	5.0	1.02	28.9	81.1
Deltapine DP 1048 B2RF	4.5	1.07	28.1	81.6
Deltapine DP 1050 B2RF	4.6	1.06	28.4	81.9
Deltapine DP 1133 B2RF	5.0	1.07	32.3	82.4
Deltapine DP 1137 B2RF	4.7	1.05	28.9	81.9
Deltapine DP 174 RF	4.8	1.03	26.5	80.1
DP 164 B2RF	4.3	1.07	28.7	80.8
PHY 375 WRF	4.8	1.01	27.5	80.8
PhytoGen PHY 499 WRF	4.9	1.04	31.7	82.3
PhytoGen PHY 519 WRF	5.1	1.03	30.0	82.0
PhytoGen PHY 565 WRF	4.6	1.05	30.6	81.8
PhytoGen PHY 569 WRF	4.7	1.04	30.7	82.3
Stoneville ST 5288 B2RF	5.2	1.06	27.5	81.5
Stoneville ST 5458 B2RF	4.7	1.02	28.7	79.6

TABLE 25. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.7	1.05	29.5	81.0
All-Tex Epic RF	5.4	0.98	28.4	81.8
Americot AM 1550 B2RF	5.4	0.99	26.6	80.2
Americot AMX 001 B2RF	5.2	0.99	29.6	79.6
Americot NG 3331 B2RF	5.3	1.03	32.0	82.7
Americot NG 4010 B2RF	5.0	1.01	29.8	81.2
Americot NG 4012 B2RF	4.9	1.00	29.1	80.6
Americot NGX F015 B2RF	5.2	1.03	31.1	81.7
CG 3020 B2RF	4.6	1.00	25.8	79.4
CG 3520 B2RF	4.4	1.04	29.1	81.6
CG 4020 B2RF	4.6	1.09	30.1	81.4
Croplan Genetics CG 3035 RF	5.3	1.01	29.5	81.7
Croplan Genetics CG 3220 B2RF	5.2	1.02	28.6	80.3
Deltapine 1028B2RF	5.0	1.04	28.7	82.0
Deltapine DP 0912 B2RF	5.5	1.01	29.9	81.5
Deltapine DP 0920 B2RF	5.1	1.03	28.6	81.4
Deltapine DP 0924 B2RF	5.1	1.01	29.4	81.8
Deltapine DP 1032 B2RF	5.6	1.06	28.4	79.9
Deltapine DP 1034 B2RF	5.6	1.06	28.0	82.0
Deltapine DP 1137 B2RF	5.4	1.06	29.4	82.3
DP 164 B2RF	4.6	1.04	29.3	80.5
Dyna Gro 2450 B2RF	4.9	1.07	28.6	81.2
Dyna Gro DG 2570 B2RF	5.0	1.03	31.0	81.3
Fiber Max FM 1740B2F	5.3	1.09	31.4	82.5
PHY 375 WRF	5.2	1.00	29.4	80.3
PHY 485 WRF	4.8	1.01	29.7	82.1
PhytoGen PHY 367 WRF	5.1	1.00	29.2	80.2
Stoneville ST 4288 B2RF	4.8	1.02	28.7	79.9

TABLE 26. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	5.0	1.07	29.8	82.3
BCSX 1010 B2F	5.3	1.05	29.4	83.4
BCSX 1030 B2F	5.2	1.04	26.2	81.8
BCSX 1040 B2F	5.0	1.05	27.5	82.6
Deltapine 10R052B2R2	5.2	1.01	26.9	80.7
Deltapine DP 0935 B2RF	5.1	0.99	26.8	80.6
Deltapine DP 0949 B2RF	5.4	1.02	30.1	81.7
Deltapine DP 1048 B2RF	5.1	1.06	27.0	81.5
Deltapine DP 1050 B2RF	5.0	1.11	28.9	82.7
Deltapine DP 1133 B2RF	5.3	1.00	28.8	80.9
Deltapine DP 1137 B2RF	5.2	1.03	26.3	81.1
Deltapine DP 174 RF	5.3	1.06	30.5	81.8
DP 164 B2RF	5.2	1.07	28.5	81.6
PHY 375 WRF	4.9	0.96	23.6	80.2
PhytoGen PHY 499 WRF	5.2	1.02	28.9	82.6
PhytoGen PHY 519 WRF	5.5	1.05	28.1	82.2
PhytoGen PHY 565 WRF	5.6	0.99	27.9	81.1
PhytoGen PHY 569 WRF	5.2	1.07	26.9	80.9
Stoneville ST 5288 B2RF	5.6	0.99	24.1	80.2
Stoneville ST 5458 B2RF	5.4	1.03	28.0	81.8

TABLE 27. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	3.8	1.15	29.6	83.3
All-Tex Epic RF	4.7	1.20	32.7	84.5
Americot AM 1550 B2RF	4.6	1.14	29.9	84.8
Americot AMX 001 B2RF	4.8	1.14	32.6	84.3
Americot NG 3331 B2RF	5.3	1.13	33.1	85.2
Americot NG 4010 B2RF	4.6	1.15	31.5	83.8
Americot NG 4012 B2RF	4.5	1.19	33.0	82.9
Americot NGX F015 B2RF	5.1	1.14	32.4	42.8
CG 3020 B2RF	4.3	1.12	28.6	83.7
CG 3520 B2RF	4.4	1.15	30.3	83.5
CG 4020 B2RF	4.4	1.17	29.7	83.3
Croplan Genetics CG 3035 RF	4.9	1.15	30.9	85.3
Croplan Genetics CG 3220 B2RF	4.8	1.15	30.0	84.3
Deltapine 1028B2RF	5.3	1.12	29.8	84.1
Deltapine DP 0912 B2RF	5.6	1.09	29.4	83.8
Deltapine DP 0920 B2RF	5.2	1.09	28.4	82.9
Deltapine DP 0924 B2RF	5.3	1.11	30.4	83.8
Deltapine DP 1032 B2RF	4.5	1.20	31.8	83.4
Deltapine DP 1034 B2RF	4.4	1.17	30.6	84.0
Deltapine DP 1137 B2RF	4.7	1.15	31.2	84.4
DP 164 B2RF	4.0	1.19	33.6	83.7
Dyna Gro 2450 B2RF	4.6	1.14	28.4	82.8
Dyna Gro DG 2570 B2RF	5.1	1.15	31.6	84.3
Fiber Max FM 1740B2F	4.6	1.04	29.0	81.8
PHY 375 WRF	4.2	1.15	31.1	84.0
PHY 485 WRF	5.1	1.06	31.9	83.6
PhytoGen PHY 367 WRF	4.4	1.14	30.8	83.1
Stoneville ST 4288 B2RF	4.6	1.17	33.2	84.9

TABLE 28. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.6	1.10	29.9	81.8
BCSX 1010 B2F	4.8	1.12	32.0	82.0
BCSX 1030 B2F	4.9	1.11	28.6	81.4
BCSX 1040 B2F	4.8	1.16	32.2	83.5
Deltapine 10R052B2R2	5.0	1.17	32.2	84.4
Deltapine DP 0935 B2RF	4.1	1.08	29.6	80.9
Deltapine DP 0949 B2RF	5.1	1.17	32.9	84.5
Deltapine DP 1048 B2RF	4.8	1.17	31.1	83.8
Deltapine DP 1050 B2RF	4.9	1.14	29.6	83.3
Deltapine DP 1133 B2RF	4.9	1.11	32.0	82.2
Deltapine DP 1137 B2RF	4.9	1.12	29.4	83.2
Deltapine DP 174 RF	4.6	1.11	30.8	81.2
DP 164 B2RF	4.7	1.17	31.4	82.9
PHY 375 WRF	4.2	1.11	30.0	83.1
PhytoGen PHY 499 WRF	4.6	1.08	32.2	82.1
PhytoGen PHY 519 WRF	5.1	1.10	29.8	81.7
PhytoGen PHY 565 WRF	4.8	1.15	32.8	88.9
PhytoGen PHY 569 WRF	4.5	1.15	33.4	85.1
Stoneville ST 5288 B2RF	4.4	1.15	34.0	82.4
Stoneville ST 5458 B2RF	4.8	1.15	31.8	82.9

TABLE 29. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.5	1.08	29.7	82.5
All-Tex Epic RF	4.4	1.08	30.6	82.7
Americot AM 1550 B2RF	4.9	1.04	27.6	82.3
Americot AMX 001 B2RF	4.7	1.08	30.4	83.2
Americot NG 3331 B2RF	4.8	1.08	32.1	84.1
Americot NG 4010 B2RF	4.4	1.11	32.8	83.1
Americot NG 4012 B2RF	4.3	1.14	31.6	84.1
Americot NGX F015 B2RF	5.0	1.10	31.8	83.2
CG 3020 B2RF	4.0	1.07	28.8	83.5
CG 3520 B2RF	4.1	1.09	27.2	83.3
CG 4020 B2RF	4.3	1.11	28.6	83.4
Croplan Genetics CG 3035 RF	4.6	1.10	31.3	83.7
Croplan Genetics CG 3220 B2RF	4.2	1.11	33.1	82.8
Deltapine 1028B2RF	4.4	1.16	30.4	84.6
Deltapine DP 0912 B2RF	5.1	1.05	35.1	83.0
Deltapine DP 0920 B2RF	4.7	1.13	29.9	84.3
Deltapine DP 0924 B2RF	4.7	1.07	30.4	82.4
Deltapine DP 1032 B2RF	4.6	1.13	27.9	83.1
Deltapine DP 1034 B2RF	4.2	1.13	29.6	83.7
Deltapine DP 1137 B2RF	4.6	1.08	29.4	84.1
DP 164 B2RF	4.5	1.07	28.4	81.9
Dyna Gro 2450 B2RF	4.5	1.08	26.7	83.6
Dyna Gro DG 2570 B2RF	4.7	1.07	33.4	83.5
Fiber Max FM 1740B2F	4.1	1.08	31.1	82.3
PHY 375 WRF	4.2	1.12	28.5	83.5
PHY 485 WRF	4.7	1.05	28.5	81.7
PhytoGen PHY 367 WRF	4.2	1.15	33.4	84.6
Stoneville ST 4288 B2RF	4.4	1.11	31.2	82.5

TABLE 30. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.3	1.10	30.8	83.3
BCSX 1010 B2F	4.3	1.07	28.2	82.0
BCSX 1030 B2F	4.1	1.09	28.5	82.4
BCSX 1040 B2F	4.3	1.18	31.5	84.1
Deltapine 10R052B2R2	4.7	1.08	30.2	82.4
Deltapine DP 0935 B2RF	4.5	1.12	30.2	83.3
Deltapine DP 0949 B2RF	4.6	1.10	29.9	82.3
Deltapine DP 1048 B2RF	4.5	1.12	29.1	83.1
Deltapine DP 1050 B2RF	4.6	1.08	29.2	82.0
Deltapine DP 1133 B2RF	4.6	1.08	32.2	82.7
Deltapine DP 1137 B2RF	4.8	1.07	27.7	82.0
Deltapine DP 174 RF	4.6	1.11	29.5	82.3
DP 164 B2RF	4.5	1.11	29.0	82.7
PHY 375 WRF	4.0	1.07	29.3	82.2
PhytoGen PHY 499 WRF	4.3	1.09	32.4	83.3
PhytoGen PHY 519 WRF	4.9	1.05	30.8	82.9
PhytoGen PHY 565 WRF	3.8	1.11	33.1	83.3
PhytoGen PHY 569 WRF	4.4	1.11	30.3	83.2
Stoneville ST 5288 B2RF	4.3	1.07	29.5	82.3
Stoneville ST 5458 B2RF	4.6	1.08	30.7	82.3

TABLE 31. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
All-Tex ATX 81158 RF	4.9	1.12	30.3	83.4
All-Tex Epic RF	4.9	1.12	30.6	84.0
Americot AM 1550 B2RF	4.7	1.14	31.3	84.3
Americot AMX 001 B2RF	5.0	1.10	31.7	83.4
Americot NG 3331 B2RF	4.9	1.12	31.1	86.5
Americot NG 4010 B2RF	4.7	1.18	33.1	85.0
Americot NG 4012 B2RF	4.6	1.15	32.6	84.3
Americot NGX F015 B2RF	5.0	1.18	33.4	85.0
CG 3020 B2RF	3.8	1.18	30.1	85.3
CG 3520 B2RF	4.6	1.21	29.9	85.6
CG 4020 B2RF	4.3	1.21	30.1	85.4
Croplan Genetics CG 3035 RF	4.3	1.12	32.6	83.5
Croplan Genetics CG 3220 B2RF	4.7	1.17	31.4	85.0
Deltapine 1028B2RF	5.0	1.16	29.3	85.1
Deltapine DP 0912 B2RF	5.2	1.12	33.0	84.5
Deltapine DP 0920 B2RF	4.6	1.14	29.6	83.9
Deltapine DP 0924 B2RF	4.6	1.10	33.8	83.2
Deltapine DP 1032 B2RF	4.9	1.18	31.7	84.5
Deltapine DP 1034 B2RF	4.9	1.21	30.3	84.9
Deltapine DP 1137 B2RF	4.8	1.14	30.8	84.0
DP 164 B2RF	4.7	1.17	30.4	84.8
Dyna Gro 2450 B2RF	4.2	1.20	30.9	85.8
Dyna Gro DG 2570 B2RF	4.8	1.16	31.6	85.8
Fiber Max FM 1740B2F	4.8	1.15	31.0	84.4
PHY 375 WRF	4.3	1.15	29.9	84.9
PHY 485 WRF	5.0	1.14	33.1	85.1
PhytoGen PHY 367 WRF	4.9	1.16	33.3	84.0
Stoneville ST 4288 B2RF	4.7	1.14	29.9	83.2

TABLE 32. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2010.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 002 B2RF	4.7	1.10	29.8	84.0
BCSX 1010 B2F	4.4	1.18	31.6	83.1
BCSX 1030 B2F	4.8	1.15	29.4	84.9
BCSX 1040 B2F	4.6	1.23	33.1	85.1
Deltapine 10R052B2R2	5.2	1.14	30.9	85.2
Deltapine DP 0935 B2RF	4.4	1.12	31.3	83.3
Deltapine DP 0949 B2RF	4.9	1.17	31.5	85.1
Deltapine DP 1048 B2RF	4.8	1.17	31.1	84.5
Deltapine DP 1050 B2RF	4.6	1.18	30.8	84.0
Deltapine DP 1133 B2RF	5.0	1.19	34.7	85.3
Deltapine DP 1137 B2RF	5.0	1.13	30.1	84.6
Deltapine DP 174 RF	4.9	1.19	31.0	85.0
DP 164 B2RF	4.1	1.20	32.0	84.2
PHY 375 WRF	4.4	1.18	32.0	85.2
PhytoGen PHY 499 WRF	5.0	1.12	33.2	83.9
PhytoGen PHY 519 WRF	4.9	1.13	32.2	83.7
PhytoGen PHY 565 WRF	4.5	1.16	32.8	85.0
PhytoGen PHY 569 WRF	4.9	1.10	33.1	84.9
Stoneville ST 5288 B2RF	4.7	1.17	30.3	84.4
Stoneville ST 5458 B2RF	4.9	1.17	32.6	84.0

TABLE 33. GROWING SEASON RAINFALL, 2008-2010

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	2010	4.6	2.8	6.2	2.7	4.3	1.4	1.9	23.9
	2009	5.6	5.8	11.1	1.4	6.3	4.7	8.7	43.6
	2008	4.0	4.2	4.8	3.2	2.7	5.4	0.9	25.2
Prattville	2010	4.8	1.7	4.1	4.2	4.4	3.6	0.6	23.4
	2009	10.6	4.3	12.4	1.4	6.3	2.8	9.4	47.2
	2008	6.3	5.7	4.9	3.6	5.0	9.0	1.4	35.9
Tallassee	2010	5.6	1.5	8.0	1.3	1.9	8.8	2.2	29.3
Headland	2010	2.3	2.6	5.0	5.1	1.9	2.9	1.6	21.4
	2009	10.6	6.2	9.8	2.2	10.2	7.8	3.9	50.7
	2008	2.1	4.4	0.9	3.6	5.0	10.3	1.4	27.7
Fairhope	2010	5.2	2.0	7.0	5.0	2.2	10.3	6.3	38.0
	2009	14.4	2.1	7.3	3.7	5.5	6.2	7.4	46.6
	2008	4.3	5.5	9.3	3.3	5.4	14.2	7.7	49.7

TABLE 34. SOIL TYPES, PLANTING DATES, AND HARVEST DATES FOR 2010 COTTON TRIALS

Location	Soil Type	Test	Planting Date	Harvest Date
Belle Mina	Decatur silt loam	Early Season Flex	May 6	September 9
		Full Season Flex	May 6	September 10
		Irrigated Early Season Flex	May 7	September 24
		Irrigated Full Season Flex	May 7	September 24
Prattville	Lucedale fine sandy loam	Early Season Flex	April 28	October 1
		Full Season Flex	April 28	October 1
Tallassee	Wickham fine sandy loam	Early Season Flex	April 28	September 24
		Full Season Flex	April 28	September 24
Headland	Dothan sandy loam	Early Season Flex	May 11	October 12
		Full Season Flex	May 11	October 12
		Irrigated Early Season Flex	May 12	October 15
		Irrigated Full Season Flex	May 12	October 15
Fairhope	Malbis fine sandy loam	Early Season Flex	May 10	September 23
		Full Season Flex	May 10	September 23

TABLE 35. SOURCES OF SEED FOR THE 2010 COTTON VARIETY TRIALS**Delta and Pine Land Co., Scott, Mississippi**

Deltapine DP 174 B2RF	Deltapine DP 1034 B2RF
Deltapine DP 0912 B2RF	Deltapine DP 1048 B2RF
Deltapine DP 0920 B2RF	Deltapine DP 1050 B2RF
Deltapine DP 0924B2RF	Deltapine DP 1133 B2RF
Deltapine DP 0935 B2RF	Deltapine DP 1137 B2RF
Deltapine DP 0949 B2RF	Deltapine 10R052B2R2
Deltapine DP 1028 B2RF	
Deltapine DP 1032 B2RF	

Bayer Crop Sciences, Lubbock, Texas

FiberMax FM 1740B2RF	BCSX 1010B2F
Stoneville ST 5458B2RF	BCSX 1030B2F
Stoneville ST 4288B2RF	BCSX 1040B2F
Stoneville ST 5288B2RF	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 367 WRF	PhytoGen PHY 519 WRF
PhytoGen PHY 375 WRF	PhytoGen PHY 565 WRF
PhytoGen PHY 485 WRF	PhytoGen PHY 569 WRF
PhytoGen PHY 499 WRF	

Americot, Inc., Lubbock, Texas

AM 1550 B2RF	NG 4010 B2RF
AMX 001 B2RF	NG 4012 B2RF
NG 3331 B2RF	NGX F015 B2RF

Crop Production Services, Kinston, Alabama

DynaGro 2450 B2RF
DynaGro 2570 B2RF

All-Tex Seed Co., Victoria, Texas

All-Tex Epic RF
ATX 81158 RF

Croplan Genetics, Memphis, Tennessee

Croplan Genetics CG 3035 RF	Croplan Genetics CG 3520 B2RF
Croplan Genetics CG 3020 B2RF	Croplan Genetics CG 4020 B2RF
Croplan Genetics CG 3220 B2RF	