

*2011 Alabama
Cotton Variety
Report*

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Alabama Agricultural Experiment Station
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2011 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 2011, incidence of Fusarium wilt ranged from low to moderate. The incidence ratings can be found in the 2011 National Fusarium Wilt Cotton Report, Departmental Series No. 319.

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; Steve Nightengale, Plant Breeding Unit Tallassee, E.V. Smith Research 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, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 4288 B2RF	1044	39	881	1050
PHY 375 WRF	1139	41	944	1040
Deltapine DP 0912 B2RF	1123	39	912	1028
Deltapine DP 1137 B2RF	1018	43	820	984
Fiber Max FM 1740B2F	1132	42	866	959
Deltapine DP 0920 B2RF	994	41	853	952
Deltapine 1028 B2RF	984	45	797	941
Dyna Gro DG 2570 B2RF	880	40	783	900
PhytoGen PHY 367 WRF	1002	40	810	900
Deltapine DP 0924 B2RF	977	41	798	899
Americot AM 1550 B2RF	890	40	806	898
DP 164 B2RF	884	38	727	841
Deltapine DP 1034 B2RF	948	42	779	
BCSX 1150 B2RF	1199	43		
PhytoGen PHY 499 WRF	1138	43		
Americot AM 1511 B2RF	1103	43		
Croplan Genetics CG 3787 B2RF	1099	43		
Deltapine 10R020B2R2	1065	40		
BCS BX 1262 B2F	1051	40		
Dyna Gro CT 11212 B2RF	1030	41		
Deltapine DP 1212 B2RF	1002	39		
Dyna Gro CT 10624 B2RF	958	40		
Deltapine DP 1133 B2RF	947	43		
Dyna Gro CT 10612 B2RF	924	41		
Deltapine DP 1219 B2RF	887	40		
Test Average	1017	41	829	949
LSD0.10	120	1	73	69
CV(%)	13	4	13	14

TABLE 2. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>---- lbs/acre ----</i>	
PHY 375 WRF	1051	41	801	882
Stoneville ST 5458 B2RF	1022	38	757	857
Stoneville ST 5288 B2RF	923	40	679	829
PhytoGen PHY 565 WRF	973	38	721	820
DP 164 B2RF	784	36	584	697
PhytoGen PHY 499 WRF	1036	41	802	
Deltapine DP 1252 B2RF	993	42	762	
Deltapine DP 1137 B2RF	936	42	719	
Deltapine DP 1048 B2RF	944	41	716	
Deltapine DP 1050 B2RF	864	42	706	
Deltapine DP 1133 B2RF	812	41	617	
Deltapine 11R159B2R2	1007	41		
BCS BX 1261 B2F	955	37		
Deltapine DP 1034 B2RF	951	42		
Dyna Gro CT 11622 B2RF	883	42		
Deltapine 10R051B2R2	870	41		
Americot AMX 003 B2RF	859	41		
Test Average	933	40	715	817
LSD0.10	90	1	57	52
CV(%)	10	2	12	11

TABLE 3. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
Deltapine 1028 B2RF	1527	44	1205	1157
Stoneville ST 4288 B2RF	1617	39	1299	1127
Deltapine DP 1137 B2RF	1455	45	1142	1101
Deltapine DP 0912 B2RF	1606	42	1255	1081
PHY 375 WRF	1537	43	1214	1080
PhytoGen PHY 367 WRF	1327	42	1163	1007
Americot AM 1550 B2RF	1361	42	1136	999
Dyna Gro DG 2570 B2RF	1466	40	1140	985
Deltapine DP 0924 B2RF	1429	42	1098	975
Fiber Max FM 1740B2F	1397	41	1126	950
DP 164 B2RF	1387	39	1091	939
Deltapine DP 0920 B2RF	1318	42	1012	915
Deltapine DP 1034 B2RF	1471	45	1171	
Americot AM 1511 B2RF	1710	45		
PhytoGen PHY 499 WRF	1646	45		
BCS BX 1262 B2F	1596	42		
Croplan Genetics CG 3787 B2RF	1535	44		
Deltapine DP 1212 B2RF	1503	40		
Deltapine DP 1219 B2RF	1488	44		
Deltapine 10R020B2R2	1474	42		
Dyna Gro CT 11212 B2RF	1392	43		
Deltapine DP 1133 B2RF	1363	44		
Dyna Gro CT 10624 B2RF	1317	42		
BCSX 1150 B2RF	1282	39		
Dyna Gro CT 10612 B2RF	1239	43		
Test Average	1458	42	1158	1026
LSD0.10	136	1	104	78
CV(%)	10	2	14	14

TABLE 4. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
PHY 375 WRF	1485	43	1120	1007
Stoneville ST 5458 B2RF	1645	41	1154	989
Stoneville ST 5288 B2RF	1548	42	1067	950
PhytoGen PHY 565 WRF	1201	41	965	901
DP 164 B2RF	1277	39	931	826
PhytoGen PHY 499 WRF	1588	45	1256	
Deltapine DP 1050 B2RF	1551	45	1127	
Deltapine DP 1252 B2RF	1291	42	1114	
Deltapine DP 1137 B2RF	1404	44	1072	
Deltapine DP 1048 B2RF	1364	43	961	
Deltapine DP 1133 B2RF	1268	44	945	
Deltapine 10R051B2R2	1354	43		
Deltapine DP 1034 B2RF	1315	44		
BCS BX 1261 B2F	1288	39		
Americot AMX 003 B2RF	1248	43		
Deltapine 11R159B2R2	1246	42		
Dyna Gro CT 11622 B2RF	1204	42		
Test Average	1369	43	1065	935
LSD0.10	157	1	109	75
CV(%)	12	2	15	14

TABLE 5. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr [†]
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 1137 B2RF	1543	44	1162	
PHY 375 WRF	1532	45	1146	
Deltapine 1028 B2RF	1531	44	1124	
Deltapine DP 0912 B2RF	1427	40	1117	
Deltapine DP 1034 B2RF	1466	44	1091	
Americot AM 1550 B2RF	1304	41	1035	
Dyna Gro DG 2570 B2RF	1359	42	1023	
PhytoGen PHY 367 WRF	1280	42	984	
Deltapine DP 0924 B2RF	1250	40	930	
Deltapine DP 0920 B2RF	1210	42	906	
DP 164 B2RF	1201	39	859	
Fiber Max FM 1740B2F	1091	42	852	
Stoneville ST 4288 B2RF	1134	38	822	
Dyna Gro CT 11212 B2RF	1483	41		
Dyna Gro CT 10612 B2RF	1435	42		
PhytoGen PHY 499 WRF	1410	44		
Americot AM 1511 B2RF	1408	43		
Croplan Genetics CG 3787 B2RF	1356	43		
Deltapine DP 1133 B2RF	1352	44		
Deltapine DP 1219 B2RF	1314	41		
BCSX 1150 B2RF	1308	38		
BCS BX 1262 B2F	1260	41		
Dyna Gro CT 10624 B2RF	1243	41		
Deltapine 10R020B2R2	1237	42		
Deltapine DP 1212 B2RF	1100	42		
Test Average	1329	42	1004	
LSD0.10	137	1	86	
CV(%)	11	2	13	

[†] Second year of this trial for this location, hence no 3-yr averages are available.

TABLE 6. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr [†]
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
PhytoGen PHY 499 WRF	1655	44	1210	
Deltapine DP 1137 B2RF	1503	44	1113	
Deltapine DP 1252 B2RF	1551	45	1095	
Deltapine DP 1133 B2RF	1442	44	1082	
PHY 375 WRF	1398	44	1078	
Deltapine DP 1050 B2RF	1469	44	1036	
Deltapine DP 1048 B2RF	1346	43	1019	
Stoneville ST 5288 B2RF	1251	42	956	
PhytoGen PHY 565 WRF	1254	39	943	
Stoneville ST 5458 B2RF	1299	41	889	
DP 164 B2RF	950	38	719	
Deltapine DP 1034 B2RF	1502	41		
Dyna Gro CT 11622 B2RF	1502	43		
Deltapine 10R051B2R2	1478	43		
Deltapine 11R159B2R2	1266	43		
BCS BX 1261 B2F	1085	39		
Americot AMX 003 B2RF	956	41		
Test Average	1348	42	1013	
LSD0.10	167	1	125	
CV(%)	14	2	18	

[†] Second year of this trial for this location, hence no 3-yr averages are available.

TABLE 7. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 1137 B2RF	1358	44	965	1204
Deltapine DP 0912 B2RF	1466	42	1020	1188
Americot AM 1550 B2RF	1402	41	997	1173
Dyna Gro DG 2570 B2RF	1295	40	948	1135
Deltapine DP 0924 B2RF	1309	41	947	1122
PHY 375 WRF	1227	42	925	1118
Deltapine 1028 B2RF	1157	44	892	1096
PhytoGen PHY 367 WRF	1137	41	924	1081
Deltapine DP 0920 B2RF	1268	41	882	1070
Fiber Max FM 1740B2F	1188	42	825	1019
Stoneville ST 4288 B2RF	1103	38	800	988
DP 164 B2RF	1066	38	787	952
Deltapine DP 1034 B2RF	1408	43	1020	
PhytoGen PHY 499 WRF	1589	44		
Americot AM 1511 B2RF	1493	44		
Dyna Gro CT 10624 B2RF	1299	44		
Croplan Genetics CG 3787 B2RF	1252	43		
Dyna Gro CT 10612 B2RF	1242	43		
Deltapine DP 1219 B2RF	1232	43		
BCS BX 1262 B2F	1172	40		
Deltapine DP 1133 B2RF	1159	44		
Deltapine DP 1212 B2RF	1100	42		
Deltapine 10R020B2R2	1094	41		
Dyna Gro CT 11212 B2RF	1061	41		
BCSX 1150 B2RF	1006	37		
Test Average	1243	42	918	1095
LSD0.10	163	1	95	88
CV(%)	14	3	15	15

TABLE 8. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 5288 B2RF	1381	41	1010	1160
PHY 375 WRF	1343	42	1026	1143
Stoneville ST 5458 B2RF	1285	41	967	1118
PhytoGen PHY 565 WRF	1254	41	980	1096
DP 164 B2RF	1193	39	838	971
PhytoGen PHY 499 WRF	1563	44	1222	
Deltapine DP 1050 B2RF	1597	44	1139	
Deltapine DP 1048 B2RF	1522	43	1019	
Deltapine DP 1137 B2RF	1386	42	1003	
Deltapine DP 1252 B2RF	1248	45	942	
Deltapine DP 1133 B2RF	1078	41	839	
Deltapine DP 1034 B2RF	1465	41		
Deltapine 10R051B2R2	1323	42		
BCS BX 1261 B2F	1286	40		
Dyna Gro CT 11622 B2RF	1279	44		
Deltapine 11R159B2R2	1194	40		
Americot AMX 003 B2RF	960	41		
Test Average	1315	42	999	1097
LSD0.10	142	2	95	58
CV(%)	12	5	14	10

TABLE 9. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>---- lbs/acre ----</i>	
Deltapine 1028 B2RF	1266	42	1315	1263
Deltapine DP 1137 B2RF	1221	41	1271	1221
DP 164 B2RF	1143	42	1148	1131
Deltapine DP 0912 B2RF	1166	41	1139	1122
Fiber Max FM 1740B2F	1220	43	1139	1074
Dyna Gro DG 2570 B2RF	1004	41	1058	1073
PHY 375 WRF	1149	42	1191	1054
PhytoGen PHY 367 WRF	1069	42	1108	1045
Americot AM 1550 B2RF	1124	38	1078	1026
Deltapine DP 0920 B2RF	1010	42	1096	1016
Deltapine DP 0924 B2RF	927	39	1000	1004
Stoneville ST 4288 B2RF	1085	41	1036	934
Deltapine DP 1034 B2RF	1196	42	1217	
Croplan Genetics CG 3787 B2RF	1293	42		
Deltapine DP 1133 B2RF	1262	43		
Dyna Gro CT 10612 B2RF	1245	42		
Deltapine DP 1219 B2RF	1201	42		
PhytoGen PHY 499 WRF	1167	41		
Americot AM 1511 B2RF	1156	42		
BCSX 1150 B2RF	1116	41		
Deltapine 10R020B2R2	1114	41		
Dyna Gro CT 11212 B2RF	1111	41		
Dyna Gro CT 10624 B2RF	1105	40		
Deltapine DP 1212 B2RF	1037	41		
BCS BX 1262 B2F	1015	39		
Test Average	1136	41	1138	1080
LSD0.10	218	2	122	99
CV(%)	21	5	17	17

TABLE 10. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2011.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PhytoGen PHY 565 WRF	1163	41	1179	1169
PHY 375 WRF	1401	42	1249	1164
Stoneville ST 5288 B2RF	1229	40	1054	1140
DP 164 B2RF	1132	40	1076	1064
Stoneville ST 5458 B2RF	1204	40	981	950
PhytoGen PHY 499 WRF	1689	44	1422	
Deltapine DP 1050 B2RF	1034	43	1207	
Deltapine DP 1048 B2RF	1261	43	1174	
Deltapine DP 1137 B2RF	1209	42	1149	
Deltapine DP 1252 B2RF	930	43	1097	
Deltapine DP 1133 B2RF	941	44	1020	
Deltapine 11R159B2R2	1383	43		
BCS BX 1261 B2F	1364	40		
Deltapine DP 1034 B2RF	1183	43		
Deltapine 10R051B2R2	1110	44		
Dyna Gro CT 11622 B2RF	1090	42		
Americot AMX 003 B2RF	864	40		
Test Average	1187	42	1146	1097
LSD0.10	172	1	111	88
CV(%)	16	2	14	14

TABLE 11. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011†.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 0912 B2RF	1358	39	1248	1249
Deltapine DP 0920 B2RF	1310	41	1355	1222
Fiber Max FM 1740B2F	1478	41	1328	1215
Stoneville ST 4288 B2RF	1318	37	1201	1188
PHY 375 WRF	1162	39	1214	1147
Deltapine 1028 B2RF	1211	43	1212	1124
Deltapine DP 0924 B2RF	1405	40	1140	1121
Dyna Gro DG 2570 B2RF	1194	41	1182	1071
PhytoGen PHY 367 WRF	1276	38	1229	1063
DP 164 B2RF	1222	38	1113	1056
Deltapine DP 1137 B2RF	1251	41	1169	1047
Americot AM 1550 B2RF	1100	40	1105	1043
Deltapine DP 1034 B2RF	1271	41	1196	
Americot AM 1511 B2RF	1469	42		
BCS BX 1262 B2F	1453	40		
PhytoGen PHY 499 WRF	1443	42		
BCSX 1150 B2RF	1420	41		
Dyna Gro CT 11212 B2RF	1304	41		
Deltapine DP 1212 B2RF	1273	38		
Deltapine DP 1133 B2RF	1199	43		
Dyna Gro CT 10624 B2RF	1178	40		
Deltapine 10R020B2R2	1176	38		
Dyna Gro CT 10612 B2RF	1167	42		
Deltapine DP 1219 B2RF	1158	42		
Croplan Genetics CG 3787 B2RF	1147	40		
Test Average	1278	40	1207	1129
LSD0.10	105	1	113	102
CV(%)	9	2	14	17

† This trial received 2.9 inches of irrigation water

TABLE 12. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011†.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
PHY 375 WRF	1024	40	1096	998
PhytoGen PHY 565 WRF	1022	39	988	994
Stoneville ST 5458 B2RF	1102	38	1021	980
DP 164 B2RF	937	37	933	917
Stoneville ST 5288 B2RF	951	38	933	886
PhytoGen PHY 499 WRF	1271	42	1231	
Deltapine DP 1137 B2RF	1155	44	1075	
Deltapine DP 1252 B2RF	1014	42	1066	
Deltapine DP 1048 B2RF	1178	42	1059	
Deltapine DP 1050 B2RF	1052	42	1043	
Deltapine DP 1133 B2RF	962	41	1008	
Dyna Gro CT 11622 B2RF	1090	42		
Deltapine 10R051B2R2	1062	42		
Deltapine 11R159B2R2	992	42		
Deltapine DP 1034 B2RF	969	41		
Americot AMX 003 B2RF	937	40		
BCS BX 1261 B2F	903	39		
Test Average	1036	41	1041	955
LSD0.10	77	1	73	48
CV(%)	8	2	10	9

† This trial received 2.9 inches of irrigation water

TABLE 13. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011[†].

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine 1028 B2RF	2517	43	2133	1960
Deltapine DP 1137 B2RF	2621	44	2205	1912
Dyna Gro DG 2570 B2RF	2331	42	1934	1841
Deltapine DP 0912 B2RF	2324	40	1897	1755
Fiber Max FM 1740B2F	2221	41	1866	1718
Deltapine DP 0924 B2RF	2355	42	1881	1714
PHY 375 WRF	2301	43	1896	1700
Stoneville ST 4288 B2RF	2224	40	1862	1694
Deltapine DP 0920 B2RF	2321	42	1861	1683
PhytoGen PHY 367 WRF	2104	41	1846	1613
Americot AM 1550 B2RF	2122	41	1794	1556
DP 164 B2RF	2090	39	1695	1531
Deltapine DP 1034 B2RF	2355	43	1868	
PhytoGen PHY 499 WRF	2583	43		
Deltapine DP 1219 B2RF	2537	42		
Dyna Gro CT 10612 B2RF	2461	42		
Croplan Genetics CG 3787 B2RF	2418	43		
Deltapine 10R020B2R2	2368	41		
BCS BX 1262 B2F	2338	41		
Deltapine DP 1133 B2RF	2332	44		
Americot AM 1511 B2RF	2271	44		
Dyna Gro CT 10624 B2RF	2215	41		
BCSX 1150 B2RF	2212	39		
Deltapine DP 1212 B2RF	2084	40		
Dyna Gro CT 11212 B2RF	2021	41		
Test Average	2309	42	1903	1723
LSD0.10	168	1	123	110
CV(%)	8	3	10	12

[†] This trial received 7.5 inches of irrigation water

TABLE 14. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011†.

Variety	2011 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 5458 B2RF	2309	41	1777	1632
PhytoGen PHY 565 WRF	2052	40	1709	1603
PHY 375 WRF	1997	40	1691	1531
Stoneville ST 5288 B2RF	1901	39	1590	1531
DP 164 B2RF	1992	39	1583	1464
Deltapine DP 1252 B2RF	2242	46	2016	
PhytoGen PHY 499 WRF	2188	42	1969	
Deltapine DP 1137 B2RF	2357	45	1919	
Deltapine DP 1050 B2RF	2286	45	1881	
Deltapine DP 1048 B2RF	2013	42	1788	
Deltapine DP 1133 B2RF	2040	45	1682	
Deltapine 10R051B2R2	2304	44		
Dyna Gro CT 11622 B2RF	2221	42		
Deltapine 11R159B2R2	2129	42		
Americot AMX 003 B2RF	2094	42		
Deltapine DP 1034 B2RF	2087	43		
BCS BX 1261 B2F	2004	39		
Test Average	2130	42	1782	1552
LSD0.10	154	2	111	69
CV(%)	8	4	9	8

† This trial received 7.5 inches of irrigation water

TABLE 15. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2009-2011

Variety	Lint yield			Lint percentage		
	2011	2-yr	3-yr	2011	2-yr	3-yr
	----- lbs/acre -----			----- % -----		
Deltapine DP 1137 B2RF	1319	1074	1135	43	44	44
Deltapine 1028 B2RF	1293	1067	1119	44	45	45
Deltapine DP 0912 B2RF	1358	1089	1110	41	41	41
PHY 375 WRF	1317	1084	1087	42	43	43
Americot AM 1550 B2RF	1216	1011	1029	41	42	42
Dyna Gro DG 2570 B2RF	1201	990	1027	41	42	42
PhytoGen PHY 367 WRF	1163	998	1008	41	42	42
Stoneville ST 4288 B2RF	1197	968	999	39	39	39
Deltapine DP 0924 B2RF	1179	955	993	40	41	41
Fiber Max FM 1740B2F	1206	962	983	42	42	42
Deltapine DP 0920 B2RF	1160	950	980	42	42	42
DP 164 B2RF	1136	922	954	39	40	40
Deltapine DP 1034 B2RF	1300	1057		43	44	
PhytoGen PHY 499 WRF	1390			44		
Americot AM 1511 B2RF	1370			43		
Croplan Genetics CG 3787 B2RF	1307			43		
Deltapine DP 1219 B2RF	1224			42		
BCS BX 1262 B2F	1219			40		
Dyna Gro CT 10612 B2RF	1217			42		
Deltapine DP 1133 B2RF	1217			44		
Dyna Gro CT 11212 B2RF	1215			41		
Deltapine 10R020B2R2	1197			41		
Dyna Gro CT 10624 B2RF	1184			42		
BCSX 1150 B2RF	1182			39		
Deltapine DP 1212 B2RF	1148			41		
Test Average	1237	1010	1035	42	42	42
LSD0.10	25	43	51	1	0.2	0.2
CV(%)	5	15	21	3	2	2

TABLE 16. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2009-2011

Variety	Lint yield			Lint percentage		
	2011	2-yr	3-yr	2011	2-yr	3-yr
	----- lbs/acre-----			----- % -----		
PHY 375 WRF	1336	1051	1054	42	43	43
Stoneville ST 5288 B2RF	1267	953	1013	41	42	42
PhytoGen PHY 565 WRF	1169	958	991	40	41	41
Stoneville ST 5458 B2RF	1291	950	967	40	41	41
DP 164 B2RF	1067	830	867	38	40	39
PhytoGen PHY 499 WRF	1506	1183		44	45	
Deltapine DP 1050 B2RF	1303	1043		44	44	
Deltapine DP 1137 B2RF	1287	1010		43	44	
Deltapine DP 1252 B2RF	1203	1002		44	45	
Deltapine DP 1048 B2RF	1287	981		42	43	
Deltapine DP 1133 B2RF	1108	901		43	44	
Deltapine DP 1034 B2RF	1283			42		
Deltapine 10R051B2R2	1227			43		
Deltapine 11R159B2R2	1219			42		
BCS BX 1261 B2F	1196			39		
Dyna Gro CT 11622 B2RF	1192			43		
Americot AMX 003 B2RF	977			41		
Test Average	1230	987	978	42	43	41
LSD0.10	41	44	42	0	0.2	0.2
CV(%)	8	16	18	3	2	2

TABLE 17. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2011.

Variety	Belle Mina		Prattville		Tallassee		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Americot AM 1511 B2RF	1103	6	1710	1	1408	9	1156	11	1493	2
Americot AM 1550 B2RF	890	22	1361	20	1304	15	1124	14	1402	5
BCS BX 1262 B2F	1051	9	1596	5	1260	17	1015	22	1172	16
BCSX 1150 B2RF	1199	1	1282	24	1308	14	1116	15	1006	25
Croplan Genetics CG 3787 B2RF	1099	7	1535	7	1356	11	1293	1	1252	11
DP 164 B2RF	884	24	1387	18	1201	22	1143	13	1066	23
Deltapine 1028 B2RF	984	16	1527	8	1531	3	1266	2	1157	18
Deltapine 10R020B2R2	1065	8	1474	11	1237	20	1114	16	1094	22
Deltapine DP 0912 B2RF	1123	5	1606	4	1427	7	1166	10	1466	3
Deltapine DP 0920 B2RF	994	15	1318	22	1210	21	1010	23	1268	10
Deltapine DP 0924 B2RF	977	17	1429	15	1250	18	927	25	1309	7
Deltapine DP 1034 B2RF	948	19	1471	12	1466	5	1196	8	1408	4
Deltapine DP 1133 B2RF	947	20	1363	19	1352	12	1262	3	1159	17
Deltapine DP 1137 B2RF	1018	12	1455	14	1543	1	1221	5	1358	6
Deltapine DP 1212 B2RF	1002	14	1503	9	1100	24	1037	21	1100	21
Deltapine DP 1219 B2RF	887	23	1488	10	1314	13	1201	7	1232	13
Dyna Gro CT 10612 B2RF	924	21	1239	25	1435	6	1245	4	1242	12
Dyna Gro CT 10624 B2RF	958	18	1317	23	1243	19	1105	18	1299	8
Dyna Gro CT 11212 B2RF	1030	11	1392	17	1483	4	1111	17	1061	24
Dyna Gro DG 2570 B2RF	880	25	1466	13	1359	10	1004	24	1295	9
Fiber Max FM 1740B2F	1132	4	1397	16	1091	25	1220	6	1188	15
PHY 375 WRF	1139	2	1537	6	1532	2	1149	12	1227	14
PhytoGen PHY 367 WRF	1002	13	1327	21	1280	16	1069	20	1137	19
PhytoGen PHY 499 WRF	1138	3	1646	2	1410	8	1167	9	1589	1
Stoneville ST 4288 B2RF	1044	10	1617	3	1134	23	1085	19	1103	20
Test Average	1017		1458		1329		1136		1243	
LSD0.10	120		136		137		218		163	
CV(%)	13		10		11		21		14	

TABLE 18. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2011.

Variety	Belle Mina		Prattville		Tallassee		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Americot AMX 003 B2RF	859	15	1248	14	956	16	864	17	960	17
BCS BX 1261 B2F	955	7	1288	11	1085	15	1364	4	1286	9
DP 164 B2RF	784	17	1277	12	950	17	1132	11	1193	15
Deltapine 10R051B2R2	870	13	1354	8	1478	6	1110	12	1323	8
Deltapine 11R159B2R2	1007	4	1246	15	1266	12	1383	3	1194	14
Deltapine DP 1034 B2RF	951	8	1315	9	1502	4	1183	9	1465	4
Deltapine DP 1048 B2RF	944	9	1364	7	1346	10	1261	5	1522	3
Deltapine DP 1050 B2RF	864	14	1551	3	1469	7	1034	14	1597	1
Deltapine DP 1133 B2RF	812	16	1268	13	1442	8	941	15	1078	16
Deltapine DP 1137 B2RF	936	10	1404	6	1503	3	1209	7	1386	5
Deltapine DP 1252 B2RF	993	5	1291	10	1551	2	930	16	1248	13
Dyna Gro CT 11622 B2RF	883	12	1204	16	1502	5	1090	13	1279	11
PHY 375 WRF	1051	1	1485	5	1398	9	1401	2	1343	7
PhytoGen PHY 499 WRF	1036	2	1588	2	1655	1	1689	1	1563	2
PhytoGen PHY 565 WRF	973	6	1201	17	1254	13	1163	10	1254	12
Stoneville ST 5288 B2RF	923	11	1548	4	1251	14	1229	6	1381	6
Stoneville ST 5458 B2RF	1022	3	1645	1	1299	11	1204	8	1285	10
Test Average	933		1369		1348		1187		1315	
LSD0.10	90		157		167		172		142	
CV(%)	10		12		14		16		12	

TABLE 19. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.7	1.15	33.6	83.4
Americot AM 1550 B2RF	4.0	1.16	31.3	84.2
BCS BX 1262 B2F	4.5	1.19	34.0	84.8
BCSX 1150 B2RF	4.2	1.18	34.7	84.2
Croplan Genetics CG 3787 B2RF	4.5	1.19	32.3	84.1
Deltapine 1028 B2RF	4.8	1.17	29.8	85.0
Deltapine DP 1219 B2RF	4.2	1.22	34.7	84.7
Deltapine DP 1212 B2RF	4.4	1.22	34.8	84.3
Deltapine 10R020B2R2	4.8	1.15	31.5	83.8
Deltapine DP 0912 B2RF	4.6	1.12	32.5	83.9
Deltapine DP 0920 B2RF	4.8	1.16	31.6	84.2
Deltapine DP 0924 B2RF	4.4	1.11	32.3	82.2
Deltapine DP 1034 B2RF	4.1	1.21	32.1	84.8
Deltapine DP 1133 B2RF	4.5	1.22	34.0	85.8
Deltapine DP 1137 B2RF	4.5	1.19	31.0	84.4
DP 164 B2RF	4.2	1.22	32.8	83.4
Dyna Gro CT 10612 B2RF	4.0	1.24	35.5	85.7
Dyna Gro CT 10624 B2RF	4.9	1.19	33.1	83.6
Dyna Gro CT 11212 B2RF	4.6	1.16	31.5	85.0
Dyna Gro DG 2570 B2RF	4.3	1.16	33.4	84.6
Fiber Max FM 1740B2F	3.9	1.12	30.6	83.7
PHY 375 WRF	4.0	1.16	30.6	84.0
PhytoGen PHY 367 WRF	3.5	1.20	31.2	83.9
PhytoGen PHY 499 WRF	4.7	1.14	32.0	84.3
Stoneville ST 4288 B2RF	4.5	1.19	33.3	84.5

TABLE 20. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.9	1.21	31.1	84.4
BCS BX 1261 B2F	3.9	1.22	34.7	84.1
Deltapine 10R051B2R2	4.2	1.21	31.2	85.2
Deltapine DP 1252 B2RF	4.3	1.22	31.1	85.3
Deltapine 11R159B2R2	3.9	1.21	34.1	84.2
Deltapine DP 1034 B2RF	4.4	1.21	33.0	84.9
Deltapine DP 1048 B2RF	4.2	1.23	30.1	84.3
Deltapine DP 1050 B2RF	4.4	1.20	29.9	84.5
Deltapine DP 1133 B2RF	4.4	1.20	35.4	85.4
Deltapine DP 1137 B2RF	4.4	1.20	36.1	84.6
DP 164 B2RF	4.1	1.22	33.3	83.7
Dyna Gro CT 11622 B2RF	4.4	1.22	31.0	84.9
PHY 375 WRF	3.9	1.17	33.7	84.0
PhytoGen PHY 499 WRF	4.7	1.20	35.4	83.9
PhytoGen PHY 565 WRF	3.9	1.21	33.4	83.8
Stoneville ST 5288 B2RF	4.7	1.20	31.3	83.8
Stoneville ST 5458 B2RF	4.1	1.19	32.8	83.1

TABLE 21. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.8	1.11	29.6	83.0
Americot AM 1550 B2RF	3.8	1.07	26.6	80.2
BCS BX 1262 B2F	4.6	1.16	31.5	84.5
BCSX 1150 B2RF	4.6	1.17	32.3	83.2
Croplan Genetics CG 3787 B2RF	4.3	1.14	28.6	83.8
Deltapine 1028 B2RF	4.4	1.08	28.0	81.7
Deltapine DP 1219 B2RF	4.2	1.18	32.5	84.3
Deltapine DP 1212 B2RF	4.4	1.17	31.8	84.3
Deltapine 10R020B2R2	4.3	1.07	28.5	82.3
Deltapine DP 0912 B2RF	4.9	1.09	28.2	82.8
Deltapine DP 0920 B2RF	4.3	1.11	29.2	80.3
Deltapine DP 0924 B2RF	5.0	1.10	29.6	82.9
Deltapine DP 1034 B2RF	4.4	1.12	29.1	81.1
Deltapine DP 1133 B2RF	4.3	1.12	30.9	82.5
Deltapine DP 1137 B2RF	3.9	1.10	28.4	82.4
DP 164 B2RF	4.3	1.17	29.7	82.3
Dyna Gro CT 10612 B2RF	4.3	1.13	30.3	82.8
Dyna Gro CT 10624 B2RF	4.5	1.15	29.4	82.5
Dyna Gro CT 11212 B2RF	4.4	1.11	28.8	83.1
Dyna Gro DG 2570 B2RF	4.3	1.16	33.4	84.6
Fiber Max FM 1740B2F	3.9	1.12	29.5	82.7
PHY 375 WRF	4.2	1.11	28.4	81.7
PhytoGen PHY 367 WRF	3.9	1.14	31.1	84.6
PhytoGen PHY 499 WRF	4.7	1.14	32.0	84.3
Stoneville ST 4288 B2RF	4.5	1.16	30.2	83.6

TABLE 22. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.9	1.14	28.5	81.9
BCS BX 1261 B2F	4.1	1.12	29.3	81.9
Deltapine 10R051B2R2	4.4	1.11	29.0	81.9
Deltapine DP 1252 B2RF	4.3	1.12	31.1	82.3
Deltapine 11R159B2R2	4.5	1.13	30.0	81.4
Deltapine DP 1034 B2RF	4.6	1.09	27.9	81.1
Deltapine DP 1048 B2RF	4.3	1.12	28.2	81.1
Deltapine DP 1050 B2RF	4.5	1.12	29.3	82.1
Deltapine DP 1133 B2RF	4.5	1.12	30.7	82.0
Deltapine DP 1137 B2RF	4.4	1.08	29.2	81.8
DP 164 B2RF	4.1	1.13	29.4	81.0
Dyna Gro CT 11622 B2RF	4.2	1.08	29.2	81.1
PHY 375 WRF	4.2	1.12	29.4	81.7
PhytoGen PHY 499 WRF	4.4	1.10	31.2	82.8
PhytoGen PHY 565 WRF	4.4	1.10	30.5	82.4
Stoneville ST 5288 B2RF	5.1	1.10	27.6	82.1
Stoneville ST 5458 B2RF	5.0	1.13	29.7	81.5

TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.6	1.10	32.5	83.4
Americot AM 1550 B2RF	4.3	1.09	27.4	82.5
BCS BX 1262 B2F	4.6	1.15	32.5	83.7
BCSX 1150 B2RF	4.8	1.19	34.6	84.5
Croplan Genetics CG 3787 B2RF	4.9	1.15	30.5	83.9
Deltapine 1028 B2RF	5.0	1.13	30.3	83.7
Deltapine DP 1219 B2RF	4.3	1.18	35.2	83.7
Deltapine DP 1212 B2RF	4.9	1.15	31.7	83.6
Deltapine 10R020B2R2	4.7	1.07	28.3	83.4
Deltapine DP 0912 B2RF	4.8	1.11	31.1	84.4
Deltapine DP 0920 B2RF	4.8	1.15	29.1	84.0
Deltapine DP 0924 B2RF	5.2	1.11	29.7	83.3
Deltapine DP 1034 B2RF	4.7	1.14	31.2	82.8
Deltapine DP 1133 B2RF	4.7	1.13	32.5	84.0
Deltapine DP 1137 B2RF	5.0	1.13	30.4	83.4
DP 164 B2RF	4.3	1.15	29.7	82.8
Dyna Gro CT 10612 B2RF	4.5	1.20	34.7	84.9
Dyna Gro CT 10624 B2RF	4.6	1.13	31.3	82.8
Dyna Gro CT 11212 B2RF	5.0	1.13	30.6	84.3
Dyna Gro DG 2570 B2RF	4.5	1.12	31.5	83.9
Fiber Max FM 1740B2F	4.4	1.09	31.1	82.0
PHY 375 WRF	4.7	1.10	28.2	83.5
PhytoGen PHY 367 WRF	4.2	1.14	31.8	83.1
PhytoGen PHY 499 WRF	4.8	1.13	33.4	84.0
Stoneville ST 4288 B2RF	4.6	1.12	31.0	82.7

TABLE 24. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT TALLASSEE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	5.2	1.16	30.4	84.9
BCS BX 1261 B2F	4.5	1.15	32.0	83.8
Deltapine 10R051B2R2	4.8	1.15	30.0	83.9
Deltapine DP 1252 B2RF	5.2	1.15	30.7	83.4
Deltapine 11R159B2R2	4.6	1.15	33.3	82.9
Deltapine DP 1034 B2RF	4.6	1.16	31.3	83.5
Deltapine DP 1048 B2RF	4.5	1.16	31.3	83.2
Deltapine DP 1050 B2RF	4.6	1.13	30.8	83.5
Deltapine DP 1133 B2RF	4.8	1.14	34.9	84.9
Deltapine DP 1137 B2RF	4.4	1.10	30.8	82.1
DP 164 B2RF	4.6	1.19	32.2	83.6
Dyna Gro CT 11622 B2RF	5.1	1.16	29.8	85.2
PHY 375 WRF	4.7	1.12	29.8	83.0
PhytoGen PHY 499 WRF	4.6	1.13	32.9	84.4
PhytoGen PHY 565 WRF	4.8	1.16	33.3	84.5
Stoneville ST 5288 B2RF	5.0	1.11	29.5	84.0
Stoneville ST 5458 B2RF	4.7	1.14	32.4	83.6

TABLE 25. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	5.1	1.08	30.3	83.9
Americot AM 1550 B2RF	4.6	1.13	29.0	84.4
BCS BX 1262 B2F	4.6	1.17	34.7	83.0
BCSX 1150 B2RF	4.8	1.16	18.2	84.2
Croplan Genetics CG 3787 B2RF	4.7	1.16	31.2	84.7
Deltapine 1028 B2RF	5.0	1.09	30.9	83.4
Deltapine DP 1219 B2RF	4.5	1.11	34.8	81.7
Deltapine DP 1212 B2RF	5.0	1.13	32.0	83.6
Deltapine 10R020B2R2	4.6	1.09	28.3	82.6
Deltapine DP 0912 B2RF	5.2	1.09	30.3	83.5
Deltapine DP 0920 B2RF	4.4	1.14	28.3	82.7
Deltapine DP 0924 B2RF	4.9	1.06	28.3	81.3
Deltapine DP 1034 B2RF	4.4	1.12	27.0	82.6
Deltapine DP 1133 B2RF	4.9	1.12	32.2	83.6
Deltapine DP 1137 B2RF	4.8	1.12	31.0	84.3
DP 164 B2RF	4.3	1.15	29.7	82.8
Dyna Gro CT 10612 B2RF	4.9	1.21	33.0	85.0
Dyna Gro CT 10624 B2RF	4.9	1.11	31.9	82.4
Dyna Gro CT 11212 B2RF	4.4	1.13	28.0	84.7
Dyna Gro DG 2570 B2RF	3.9	1.12	30.3	82.4
Fiber Max FM 1740B2F	4.9	1.08	30.1	82.0
PHY 375 WRF	4.4	1.14	31.2	83.6
PhytoGen PHY 367 WRF	4.0	1.14	31.0	83.3
PhytoGen PHY 499 WRF	4.9	1.09	35.0	84.0
Stoneville ST 4288 B2RF	5.0	1.14	33.1	84.1

TABLE 26. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.5	1.14	30.6	82.4
BCS BX 1261 B2F	4.6	1.15	30.8	84.3
Deltapine 10R051B2R2	4.4	1.12	29.4	82.1
Deltapine DP 1252 B2RF	4.9	1.12	28.6	82.7
Deltapine 11R159B2R2	4.7	1.12	31.8	82.5
Deltapine DP 1034 B2RF	4.8	1.11	28.1	81.7
Deltapine DP 1048 B2RF	4.6	1.14	29.8	84.2
Deltapine DP 1050 B2RF	4.6	1.13	30.8	83.5
Deltapine DP 1133 B2RF	4.3	1.12	31.5	82.0
Deltapine DP 1137 B2RF	4.5	1.12	30.1	82.9
DP 164 B2RF	4.8	1.12	29.1	81.4
Dyna Gro CT 11622 B2RF	4.6	1.12	29.2	84.4
PHY 375 WRF	4.2	1.10	28.9	83.3
PhytoGen PHY 499 WRF	9.5	1.11	31.7	83.5
PhytoGen PHY 565 WRF	4.5	1.11	29.5	81.4
Stoneville ST 5288 B2RF	4.9	1.13	29.7	82.8
Stoneville ST 5458 B2RF	4.7	1.12	30.6	83.8

TABLE 27. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.3	1.15	32.0	83.9
Americot AM 1550 B2RF	5.2	1.20	33.4	85.1
BCS BX 1262 B2F	4.9	1.24	33.4	85.4
BCSX 1150 B2RF	5.0	1.14	31.4	84.3
Croplan Genetics CG 3787 B2RF	5.1	1.15	31.2	84.3
Deltapine 1028 B2RF	4.6	1.16	35.5	84.1
Deltapine DP 1219 B2RF	5.3	1.12	32.9	82.7
Deltapine DP 1212 B2RF	4.9	1.16	34.8	85.1
Deltapine 10R020B2R2	4.8	1.13	29.9	83.7
Deltapine DP 0912 B2RF	5.2	1.16	30.5	84.7
Deltapine DP 0920 B2RF	4.7	1.10	30.4	84.6
Deltapine DP 0924 B2RF	3.9	1.16	35.4	83.0
Deltapine DP 1034 B2RF	5.0	1.15	31.4	84.8
Deltapine DP 1133 B2RF	4.3	1.12	30.7	83.9
Deltapine DP 1137 B2RF	5.1	1.18	33.2	83.6
DP 164 B2RF	5.4	1.20	31.5	85.0
Dyna Gro CT 10612 B2RF	5.1	1.22	33.2	85.4
Dyna Gro CT 10624 B2RF	4.9	1.17	34.7	85.0
Dyna Gro CT 11212 B2RF	4.7	1.21	34.2	85.6
Dyna Gro DG 2570 B2RF	3.7	1.16	34.2	84.3
Fiber Max FM 1740B2F	4.9	1.13	33.9	83.4
PHY 375 WRF	4.9	1.18	33.7	84.4
PhytoGen PHY 367 WRF	5.1	1.17	32.3	84.7
PhytoGen PHY 499 WRF	5.0	1.12	30.6	84.4
Stoneville ST 4288 B2RF	5.0	1.15	35.3	84.2

TABLE 28. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.8	1.21	30.1	85.2
BCS BX 1261 B2F	5.2	1.19	33.2	85.2
Deltapine 10R051B2R2	5.3	1.14	29.1	85.2
Deltapine DP 1252 B2RF	4.8	1.18	31.4	85.5
Deltapine 11R159B2R2	4.9	1.18	33.4	84.3
Deltapine DP 1034 B2RF	4.9	1.19	31.1	85.0
Deltapine DP 1048 B2RF	5.2	1.17	30.7	84.9
Deltapine DP 1050 B2RF	4.5	1.18	31.4	84.9
Deltapine DP 1133 B2RF	5.2	1.17	34.4	84.6
Deltapine DP 1137 B2RF	5.1	1.17	30.4	85.0
DP 164 B2RF	5.1	1.19	34.2	84.1
Dyna Gro CT 11622 B2RF	4.7	1.21	32.8	85.0
PHY 375 WRF	4.7	1.11	33.2	83.3
PhytoGen PHY 499 WRF	5.3	1.13	32.1	84.8
PhytoGen PHY 565 WRF	5.0	1.19	32.0	84.7
Stoneville ST 5288 B2RF	5.2	1.17	32.4	82.9
Stoneville ST 5458 B2RF	4.7	1.13	30.7	83.7

TABLE 29. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.5	1.16	31.3	84.3
Americot AM 1550 B2RF	3.8	1.14	28.1	83.5
BCS BX 1262 B2F	3.9	1.20	32.3	84.2
BCSX 1150 B2RF	4.3	1.18	32.4	84.5
Croplan Genetics CG 3787 B2RF	4.2	1.21	29.9	84.4
Deltapine 1028 B2RF	4.6	1.18	30.0	84.7
Deltapine DP 1219 B2RF	4.2	1.17	32.5	82.6
Deltapine DP 1212 B2RF	4.4	1.23	31.6	84.6
Deltapine 10R020B2R2	4.0	1.17	31.6	84.8
Deltapine DP 0912 B2RF	4.6	1.18	30.8	84.9
Deltapine DP 0920 B2RF	4.0	1.15	29.0	82.6
Deltapine DP 0924 B2RF	4.5	1.14	29.5	84.9
Deltapine DP 1034 B2RF	4.2	1.20	29.1	83.9
Deltapine DP 1133 B2RF	4.6	1.17	30.6	85.0
Deltapine DP 1137 B2RF	4.4	1.16	29.5	84.1
DP 164 B2RF	4.0	1.20	30.5	83.6
Dyna Gro CT 10612 B2RF	3.9	1.22	30.3	84.5
Dyna Gro CT 10624 B2RF	4.6	1.13	29.0	83.7
Dyna Gro CT 11212 B2RF	4.2	1.16	30.6	84.7
Dyna Gro DG 2570 B2RF	4.2	1.17	31.8	84.2
Fiber Max FM 1740B2F	4.2	1.16	29.9	83.7
PHY 375 WRF	3.5	1.19	29.4	83.6
PhytoGen PHY 367 WRF	3.8	1.23	31.2	84.5
PhytoGen PHY 499 WRF	4.3	1.16	34.0	84.2
Stoneville ST 4288 B2RF	4.4	1.23	32.3	84.1

TABLE 30. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.1	1.18	29.7	83.7
BCS BX 1261 B2F	4.2	1.17	29.8	82.9
Deltapine 10R051B2R2	4.3	1.20	29.7	85.2
Deltapine DP 1252 B2RF	4.4	1.20	29.3	84.5
Deltapine 11R159B2R2	4.6	1.20	32.8	83.6
Deltapine DP 1034 B2RF	4.2	1.22	30.8	85.1
Deltapine DP 1048 B2RF	3.9	1.19	26.4	83.7
Deltapine DP 1050 B2RF	4.4	1.21	29.1	84.1
Deltapine DP 1133 B2RF	4.4	1.21	32.0	85.2
Deltapine DP 1137 B2RF	4.6	1.11	28.3	84.0
DP 164 B2RF	4.0	1.23	31.7	84.1
Dyna Gro CT 11622 B2RF	3.5	1.18	34.0	83.5
PHY 375 WRF	3.7	1.17	30.6	83.3
PhytoGen PHY 499 WRF	4.2	1.17	32.9	84.9
PhytoGen PHY 565 WRF	3.9	1.18	29.2	83.8
Stoneville ST 5288 B2RF	4.4	1.21	30.8	83.9
Stoneville ST 5458 B2RF	4.1	1.19	32.4	82.9

TABLE 31. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1511 B2RF	4.7	1.13	30.3	83.5
Americot AM 1550 B2RF	4.3	1.14	29.0	84.0
BCS BX 1262 B2F	4.1	1.19	33.7	84.3
BCSX 1150 B2RF	4.4	1.18	32.4	84.5
Croplan Genetics CG 3787 B2RF	4.5	1.19	29.1	85.0
Deltapine 1028 B2RF	4.6	1.18	30.0	84.7
Deltapine DP 1219 B2RF	4.5	1.23	35.3	83.6
Deltapine DP 1212 B2RF	4.4	1.21	32.9	84.8
Deltapine 10R020B2R2	4.4	1.14	29.1	83.3
Deltapine DP 0912 B2RF	4.8	1.10	30.1	84.6
Deltapine DP 0920 B2RF	4.5	1.16	28.3	84.2
Deltapine DP 0924 B2RF	5.3	1.18	30.5	84.6
Deltapine DP 1034 B2RF	4.4	1.18	29.3	84.3
Deltapine DP 1133 B2RF	4.6	1.17	30.6	85.0
Deltapine DP 1137 B2RF	4.7	1.14	30.1	83.9
DP 164 B2RF	4.0	1.22	31.1	83.8
Dyna Gro CT 10612 B2RF	4.5	1.25	33.7	85.2
Dyna Gro CT 10624 B2RF	4.6	1.18	31.3	84.2
Dyna Gro CT 11212 B2RF	4.5	1.16	30.1	84.8
Dyna Gro DG 2570 B2RF	4.7	1.15	31.5	84.5
Fiber Max FM 1740B2F	4.7	1.14	30.6	84.9
PHY 375 WRF	4.0	1.18	28.0	85.1
PhytoGen PHY 367 WRF	4.2	1.16	30.3	83.7
PhytoGen PHY 499 WRF	4.3	1.19	34.3	85.3
Stoneville ST 4288 B2RF	4.2	1.11	31.3	81.9

TABLE 32. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2011.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AMX 003 B2RF	4.6	1.15	29.0	83.6
BCS BX 1261 B2F	4.2	1.17	29.8	82.9
Deltapine 10R051B2R2	4.4	1.17	30.7	84.0
Deltapine DP 1252 B2RF	4.8	1.16	29.2	84.0
Deltapine 11R159B2R2	4.7	1.16	33.2	83.4
Deltapine DP 1034 B2RF	4.7	1.16	28.3	84.0
Deltapine DP 1048 B2RF	3.9	1.19	26.4	83.7
Deltapine DP 1050 B2RF	4.8	1.17	29.2	83.7
Deltapine DP 1133 B2RF	4.6	1.12	30.0	82.4
Deltapine DP 1137 B2RF	4.6	1.11	28.3	84.0
DP 164 B2RF	4.3	1.18	31.1	82.5
Dyna Gro CT 11622 B2RF	3.3	1.18	34.0	83.5
PHY 375 WRF	3.7	1.17	30.6	83.3
PhytoGen PHY 499 WRF	4.2	1.17	32.9	84.9
PhytoGen PHY 565 WRF	4.0	1.17	32.1	83.1
Stoneville ST 5288 B2RF	4.7	1.14	28.9	82.4
Stoneville ST 5458 B2RF	4.7	1.15	30.9	83.3

TABLE 33. GROWING SEASON RAINFALL, 2009-2011

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	2011	9.5	11.5	2.8	3.4	4.7	4.6	5.7	42.2
	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
Prattville	2011	7.8	3.1	4.8	2.7	4.5	2.0	3.8	28.7
	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
Tallassee	2011	6.4	1.8	2.7	2.3	7.9	0.9	5.3	27.3
	2010	5.6	1.5	8.0	1.3	1.9	8.8	2.2	29.3
Headland	2011	3.7	2.9	0.2	1.8	7.6	1.6	2.1	19.9
	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
Fairhope	2011	4.6	1.1	0.9	3.9	10.1	1.9	11.1	33.6
	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

TABLE 34. SOIL TYPES, PLANTING DATES, AND HARVEST DATES FOR 2011 COTTON TRIALS

Location	Soil Type	Test	Planting Date	Harvest Date
Belle Mina	Decatur silt loam	Early Season Flex	May 18	October 17
		Full Season Flex	May 18	October 17
		Irrigated Early Season Flex	May 19	November 1
		Irrigated Full Season Flex	May 19	November 1
Prattville	Lucedale fine sandy loam	Early Season Flex	April 19	October 17
		Full Season Flex	April 19	October 18
Tallassee	Wickham fine sandy loam	Early Season Flex	May 5	October 7
		Full Season Flex	May 5	October 7
Headland	Dothan sandy loam	Early Season Flex	May 3	October 20
		Full Season Flex	May 3	October 20
		Irrigated Early Season Flex	May 5	October 26
		Irrigated Full Season Flex	May 5	October 27
Fairhope	Malbis fine sandy loam	Early Season Flex	June 8	November 2
		Full Season Flex	June 8	November 2

TABLE 35. SOURCES OF SEED FOR THE 2011 COTTON VARIETY TRIALS

Delta and Pine Land Co., Scott, Mississippi

Deltapine DP 164 B2RF	Deltapine DP 1133 B2RF
Deltapine DP 0912 B2RF	Deltapine DP 1137 B2RF
Deltapine DP 0920 B2RF	Deltapine DP 1212 B2RF
Deltapine DP 0924 B2RF	Deltapine DP 1219 B2RF
Deltapine DP 1028 B2RF	Deltapine DP 1252 B2RF
Deltapine DP 1034 B2RF	Deltapine 10R020B2R2
Deltapine DP 1048 B2RF	Deltapine 10R051B2R2
Deltapine DP 1050 B2RF	Deltapine 11R159B2R2

Bayer Crop Sciences, Lubbock, Texas

FiberMax FM 1740B2RF	BCSX 1150B2F
Stoneville ST 5458B2RF	BCSX 1261B2F
Stoneville ST 4288B2RF	BCSX 1262B2F
Stoneville ST 5288B2RF	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 367 WRF	PhytoGen PHY 499 WRF
PhytoGen PHY 375 WRF	PhytoGen PHY 565 WRF

Americot, Inc., Lubbock, Texas

AM 1511 B2RF
AM 1550 B2RF
AMX 003 B2RF

Crop Production Services, Kinston, Alabama

DynaGro 2570 B2RF	DynaGro CT10624 B2RF
DynaGro CT10612 B2RF	DynaGro CT11212 B2RF

Winfield Solutions LLC, Frisco, Texas

Croplan Genetics CG 3787 B2RF
