

*2009 Alabama
Cotton Variety
Report*

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2009 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, 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 four locations: Belle Mina, Prattville, 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 2009, incidence of Fusarium wilt ranged from moderate to high. The incidence ratings can be found in the 2009 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

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Chet Norris and David Harkins, Tennessee Valley Research and Extension Center; Don Moore, Prattville Research Field; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Ronnie McDaniel, 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, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
PHY 375 WRF	1231	43	1068	857
PHY 315 RF	1295	44	1035	803
Croplan Genetics CG 3035 RF	1254	45	1018	800
Dyna Gro DG 2570 B2RF	1133	42	960	747
PHY 425 RF	1139	41	925	719
CG 3520 B2RF	1019	40	892	716
Fiber Max FM 1740B2F	1146	44	914	711
Croplan Genetics CG 3220 B2RF	1056	42	941	706
PHY 485 WRF	1065	41	862	687
Stoneville ST 4498 B2RF	987	41	860	670
Deltapine DP 141 B2RF	1011	41	854	669
CG 3020 B2RF	944	37	819	659
CG 4020 B2RF	918	41	821	654
Stoneville ST 4288 B2RF	1390	42	1070	
Deltapine DP 0912 B2RF	1259	43	1028	
Americot NG 3331 B2RF	1111	41	927	
PhytoGen PHY 370WR	1075	44	922	
Americot AM 1550 B2RF	1081	43	919	
DP 164 B2RF	1068	41	917	
Deltapine DP 0924 B2RF	1100	43	915	
Americot NG 4370 B2RF	1046	42	913	
Deltapine DP 0935 B2RF	1020	43	877	
Deltapine 09R619B2R2	1313	44		
Deltapine 1028B2RF	1228	46		
BCSX 1010 B2F	1190	40		
Stoneville ST 5458 B2RF	1168	43		
Deltapine DP 0920 B2RF	1150	45		
PhytoGen PHY 367 WRF	1079	42		
Trial mean	1124	42	930	723
LSD_{0.10}	136		82	56
CV(%)	13		13	14

TABLE 2. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 5458 B2RF	1057	42	898	692
Deltapine DP 174 RF	1094	43	873	675
Deltapine DP 161 B2RF	981	39	794	646
DP 164 B2RF	922	39	718	599
Deltapine DP 0935 B2RF	919	42	815	
Stoneville ST 5288 B2RF	1130	42	791	
Deltapine 09R621B2R2	1214	45		
Deltapine DP 0949 B2RF	1152	43		
PhytoGen PHY 525 RF	1109	43		
PhytoGen PHX 5922 WRF	1097	43		
PHY 375 WRF	1060	43		
PhytoGen PHY 565 WRF	1018	41		
BCSX 1010 B2F	985	40		
Deltapine 09R549B2R2	963	44		
Trial mean	1050	42	815	653
LSD_{0.10}	110		113	85
CV(%)	11		19	22

TABLE 3. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> -----	
PhytoGen PHY 370WR	883	42	986	†
Deltapine DP 0935 B2RF	790	42	968	
PHY 315 RF	714	43	941	
Dyna Gro DG 2570 B2RF	674	40	914	
Americot NG 3331 B2RF	730	40	909	
Deltapine DP 0912 B2RF	734	40	909	
PHY 375 WRF	813	43	905	
Americot AM 1550 B2RF	725	40	902	
Croplan Genetics CG 3035 RF	811	44	891	
Deltapine DP 141 B2RF	857	39	879	
Deltapine DP 0924 B2RF	727	38	879	
Stoneville ST 4288 B2RF	782	39	879	
Croplan Genetics CG 3220 B2RF	682	41	850	
DP 164 B2RF	636	38	841	
PHY 425 RF	778	39	838	
PHY 485 WRF	745	40	827	
Americot NG 4370 B2RF	714	40	822	
Stoneville ST 4498 B2RF	665	39	812	
CG 4020 B2RF	594	38	801	
Fiber Max FM 1740B2F	596	42	786	
CG 3520 B2RF	571	40	759	
CG 3020 B2RF	602	42	758	
Deltapine 1028B2RF	1061	45		
Deltapine 09R619B2R2	1005	45		
Deltapine DP 0920 B2RF	721	41		
PhytoGen PHY 367 WRF	693	41		
BCSX 1010 B2F	660	40		
Stoneville ST 5458 B2RF	652	41		
Trial mean	736	41	866	
LSD_{0.10}	77		66	
CV(%)	12		12	

† Because of a 2007 crop failure, no 3-yr means are available.

TABLE 4. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 0935 B2RF	845	42	970	†
Deltapine DP 174 RF	826	43	870	
Stoneville ST 5288 B2RF	717	42	837	
Deltapine DP 161 B2RF	746	39	835	
Stoneville ST 5458 B2RF	657	40	822	
DP 164 B2RF	618	39	749	
Deltapine 09R621B2R2	1028	45		
PhytoGen PHX 5922 WRF	817	41		
Deltapine 09R549B2R2	806	42		
PHY 375 WRF	781	41		
PhytoGen PHY 565 WRF	774	41		
Deltapine DP 0949 B2RF	662	42		
PhytoGen PHY 525 RF	658	41		
BCSX 1010 B2F	622	40		
Trial mean	754	41	847	
LSD_{0.10}	97		84	
CV(%)	14		15	

† Because of a 2007 crop failure, no 3-yr means are available.

TABLE 5. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> -----	
PhytoGen PHY 370WR	1715	42	1300	†
Dyna Gro DG 2570 B2RF	1509	42	1150	
PHY 375 WRF	1503	42	1132	
PHY 485 WRF	1556	39	1131	
Croplan Genetics CG 3220 B2RF	1530	41	1107	
Americot AM 1550 B2RF	1526	42	1103	
PHY 315 RF	1559	42	1076	
Americot NG 3331 B2RF	1521	40	1068	
PHY 425 RF	1390	40	1034	
Deltapine DP 0935 B2RF	1447	42	1005	
Croplan Genetics CG 3035 RF	1454	43	999	
Deltapine DP 0924 B2RF	1472	42	992	
DP 164 B2RF	1283	40	983	
CG 4020 B2RF	1323	39	976	
Fiber Max FM 1740B2F	1405	41	972	
Stoneville ST 4498 B2RF	1325	39	948	
Stoneville ST 4288 B2RF	1363	37	944	
CG 3520 B2RF	1176	39	920	
Deltapine DP 141 B2RF	1177	39	912	
CG 3020 B2RF	1246	38	900	
Americot NG 4370 B2RF	1166	39	840	
Deltapine 09R619B2R2	1683	44		
Deltapine DP 0912 B2RF	1523	41		
Deltapine 1028B2RF	1503	44		
Deltapine DP 0920 B2RF	1446	43		
Stoneville ST 5458 B2RF	1397	39		
PhytoGen PHY 367 WRF	1395	41		
BCSX 1010 B2F	1150	37		
Trial mean	1419	41	1023	
LSD_{0.10}	176		119	
CV(%)	14		18	

† The dryland Flex RR trial was not conducted at Headland in 2007.

TABLE 6. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> -----	
Deltapine DP 174 RF	1716	43	1159	†
Deltapine DP 0935 B2RF	1473	42	1042	
Stoneville ST 5458 B2RF	1420	41	1041	
Stoneville ST 5288 B2RF	1459	41	1003	
Deltapine DP 161 B2RF	1322	38	924	
DP 164 B2RF	1236	39	847	
Deltapine 09R621B2R2	1613	45		
Deltapine 09R549B2R2	1564	43		
PhytoGen PHX 5922 WRF	1441	40		
PHY 375 WRF	1377	42		
PhytoGen PHY 565 WRF	1328	40		
Deltapine DP 0949 B2RF	1327	44		
BCSX 1010 B2F	1258	37		
PhytoGen PHY 525 RF	1243	42		
Trial mean	1413	41	1003	
LSD_{0.10}	141		112	
CV(%)	11		15	

† The dryland Flex RR trial was not conducted at Headland in 2007.

TABLE 7. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>---- lbs/acre ----</i>	
CG 4020 B2RF	1037	38	1121	1098
PHY 375 WRF	778	39	970	1079
PHY 485 WRF	884	39	1001	1060
PHY 315 RF	823	41	1007	1051
Dyna Gro DG 2570 B2RF	1103	41	1049	1050
Stoneville ST 4498 B2RF	1016	39	1047	1030
Croplan Genetics CG 3035 RF	954	41	1027	1012
CG 3520 B2RF	903	38	953	1008
PHY 425 RF	766	38	957	1001
Fiber Max FM 1740B2F	945	39	1018	991
Deltapine DP 141 B2RF	1034	37	1020	985
Croplan Genetics CG 3220 B2RF	974	40	999	956
CG 3020 B2RF	827	36	926	933
DP 164 B2RF	1097	37	1199	
PhytoGen PHY 370WR	1035	41	1164	
Deltapine DP 0924 B2RF	1011	40	1161	
Deltapine DP 0935 B2RF	988	41	1078	
Americot NG 4370 B2RF	877	40	1035	
Americot NG 3331 B2RF	879	38	994	
Americot AM 1550 B2RF	921	40	988	
Stoneville ST 4288 B2RF	729	37	911	
Deltapine 1028B2RF	1160	43		
Deltapine 09R619B2R2	1120	42		
Deltapine DP 0912 B2RF	1089	40		
BCSX 1010 B2F	952	37		
Stoneville ST 5458 B2RF	919	38		
PhytoGen PHY 367 WRF	918	39		
Deltapine DP 0920 B2RF	855	39		
Trial mean	950	39	1030	1020
LSD_{0.10}	137		101	80
CV(%)	16		15	15

TABLE 8. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 161 B2RF	1034	38	1204	1083
DP 164 B2RF	1041	37	1121	1076
Stoneville ST 5458 B2RF	886	39	1089	1023
Deltapine DP 174 RF	1032	41	1123	1016
Stoneville ST 5288 B2RF	1313	40	1345	
Deltapine DP 0935 B2RF	1145	41	1285	
PhytoGen PHX 5922 WRF	1240	39		
Deltapine DP 0949 B2RF	1204	42		
Deltapine 09R549B2R2	1195	43		
PhytoGen PHY 565 WRF	1150	40		
Deltapine 09R621B2R2	1149	44		
PHY 375 WRF	993	40		
PhytoGen PHY 525 RF	982	41		
BCSX 1010 B2F	959	37		
Trial mean	1094	40	1195	1050
LSD_{0.10}	121		79	81
CV(%)	12		9	13

TABLE 9. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 0912 B2RF	1250	44	1517	†
Stoneville ST 4288 B2RF	1163	42	1494	
Dyna Gro DG 2570 B2RF	850	43	1456	
PhytoGen PHY 370WR	1013	45	1455	
Americot NG 3331 B2RF	900	41	1455	
Deltapine DP 141 B2RF	1037	42	1449	
Fiber Max FM 1740B2F	988	45	1440	
PHY 425 RF	1149	45	1422	
Deltapine DP 0935 B2RF	1117	44	1418	
PHY 375 WRF	1012	45	1411	
Deltapine DP 0924 B2RF	1083	44	1395	
Americot AM 1550 B2RF	920	43	1392	
PHY 315 RF	974	45	1354	
Americot NG 4370 B2RF	938	41	1310	
Croplan Genetics CG 3035 RF	994	45	1305	
PHY 485 WRF	881	44	1295	
Croplan Genetics CG 3220 B2RF	891	44	1284	
DP 164 B2RF	942	41	1271	
Stoneville ST 4498 B2RF	875	44	1268	
CG 4020 B2RF	679	43	1263	
CG 3520 B2RF	817	43	1256	
CG 3020 B2RF	686	43	1130	
Stoneville ST 5458 B2RF	973	43		
Deltapine DP 0920 B2RF	956	46		
Deltapine 1028B2RF	946	45		
BCSX 1010 B2F	883	40		
Deltapine 09R619B2R2	804	44		
PhytoGen PHY 367 WRF	731	43		
Trial mean	953	44	1371	
LSD_{0.10}	186		111	
CV(%)	21		12	

† No irrigated Flex RR trial was conducted at Belle Mina in 2007.

TABLE 10. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Deltapine DP 174 RF	1192	44	1547	†
Deltapine DP 0935 B2RF	994	44	1458	
Deltapine DP 161 B2RF	1058	42	1440	
Stoneville ST 5458 B2RF	897	44	1400	
Stoneville ST 5288 B2RF	792	42	1389	
DP 164 B2RF	886	40	1300	
Deltapine DP 0949 B2RF	1084	46		
PhytoGen PHX 5922 WRF	1057	42		
Deltapine 09R621B2R2	1022	47		
PhytoGen PHY 565 WRF	1011	43		
PhytoGen PHY 525 RF	949	43		
Deltapine 09R549B2R2	888	45		
BCSX 1010 B2F	802	42		
PHY 375 WRF	801	44		
Trial mean	960	43	1422	
LSD_{0.10}	129		83	
CV(%)	15		8	

† No irrigated Flex RR trial was conducted at Belle Mina in 2007.

TABLE 11. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	2009 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	1654	45	1944	1911
Croplan Genetics CG 3035 RF	1348	45	1710	1718
PHY 375 WRF	1309	43	1772	1704
PHY 315 RF	1356	44	1783	1703
Fiber Max FM 1740B2F	1422	44	1754	1688
Deltapine DP 141 B2RF	1329	40	1673	1682
Croplan Genetics CG 3220 B2RF	1269	43	1694	1682
PHY 425 RF	1297	41	1686	1682
Stoneville ST 4498 B2RF	1260	41	1664	1631
PHY 485 WRF	1228	41	1598	1590
CG 4020 B2RF	1225	40	1549	1484
CG 3520 B2RF	1197	43	1526	1457
CG 3020 B2RF	1020	41	1454	1353
PhytoGen PHY 370WR	1446	43	1850	
Deltapine DP 0924 B2RF	1379	42	1767	
Stoneville ST 4288 B2RF	1357	41	1764	
Americot NG 3331 B2RF	1360	42	1727	
Deltapine DP 0935 B2RF	1368	44	1716	
DP 164 B2RF	1202	42	1635	
Americot NG 4370 B2RF	1125	41	1570	
Americot AM 1550 B2RF	1082	44	1567	
Deltapine 1028B2RF	1614	46		
Deltapine DP 0912 B2RF	1469	42		
Deltapine DP 0920 B2RF	1328	44		
Deltapine 09R619B2RF	1326	45		
Stoneville ST 5458 B2RF	1236	42		
BCSX 1010 B2F	1225	40		
PhytoGen PHY 367 WRF	1146	42		
Trial mean	1306	43	1686	1637
LSD_{0.10}	199		122	105
CV(%)	17		11	12

TABLE 12. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	2009 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 5458 B2RF	1342	41	1844	1862
Deltapine DP 174 RF	1493	42	1800	1833
Deltapine DP 161 B2RF	1341	39	1771	1802
DP 164 B2RF	1225	39	1565	1782
Deltapine DP 0935 B2RF	1394	43	1814	
Stoneville ST 5288 B2RF	1412	41	1801	
Deltapine 09R621B2R2	1563	44		
PhytoGen PHX 5922 WRF	1459	41		
PhytoGen PHY 565 WRF	1400	41		
Deltapine DP 0949 B2RF	1379	43		
Deltapine 09R549B2RF	1349	44		
PhytoGen PHY 525 RF	1295	42		
BCSX 1010 B2F	1231	40		
PHY 375 WRF	1210	42		
Trial mean	1364	42	1766	1820
LSD_{0.10}	143		102	101
CV(%)	11		8	9

TABLE 13. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2007-2009

Variety	Lint yield			Lint percentage		
	2009	2-yr	3-yr	2009	2-yr	3-yr
	----- lbs/acre -----			----- % -----		
PHY 375 WRF	1082	1019	951	42	43	42
PHY 315 RF	1098	1015	923	42	43	42
Dyna Gro DG 2570 B2RF	1105	1018	915	41	42	41
Croplan Genetics CG 3035 RF	1118	984	885	43	43	43
PHY 485 WRF	1062	955	879	40	40	40
Croplan Genetics CG 3220 B2RF	1061	974	854	41	42	41
PHY 425 RF	1018	938	854	40	40	40
CG 4020 B2RF	968	930	845	39	40	40
Fiber Max FM 1740B2F	1023	923	825	42	42	41
Stoneville ST 4498 B2RF	998	917	825	40	41	40
Deltapine DP 141 B2RF	1020	916	818	39	40	39
CG 3520 B2RF	917	881	816	39	40	39
CG 3020 B2RF	905	851	773	39	39	39
PhytoGen PHY 370WR	1177	1093		42	42	
Deltapine DP 0912 B2RF	1151	1079		41	42	
Deltapine DP 0924 B2RF	1078	987		41	41	
DP 164 B2RF	1021	985		39	40	
Deltapine DP 0935 B2RF	1061	982		42	42	
Americot AM 1550 B2RF	1063	978		41	42	
Americot NG 3331 B2RF	1060	974		40	41	
Stoneville ST 4288 B2RF	1066	951		39	39	
Americot NG 4370 B2RF	951	903		40	40	
Deltapine 09R619B2R2	1280			44		
Deltapine 1028B2RF	1238			45		
Deltapine DP 0920 B2RF	1043			42		
Stoneville ST 5458 B2RF	1034			40		
PhytoGen PHY 367 WRF	1022			41		
BCSX 1010 B2F	988			38		
Trial mean	1057	966	859	41	41	41
LSD_{0.10}	33	77	63			
CV(%)	7	25	28			

TABLE 14. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2007-2009

Variety	Lint yield			Lint percentage		
	2009	2-yr	3-yr	2009	2-yr	3-yr
	----- lbs/acre-----			----- % -----		
Deltapine DP 174 RF	1167	1006	865	43	43	43
Stoneville ST 5458 B2RF	1005	963	839	41	41	41
Deltapine DP 161 B2RF	1021	939	822	39	40	39
DP 164 B2RF	954	859	774	39	39	39
Deltapine DP 0935 B2RF	1095	1028		42	43	
Stoneville ST 5288 B2RF	1155	994		41	42	
Deltapine 09R621B2R2	1251			45		
PhytoGen PHX 5922 WRF	1148			41		
Deltapine 09R549B2R2	1132			43		
Deltapine DP 0949 B2RF	1086			43		
PhytoGen PHY 565 WRF	1067			41		
PHY 375 WRF	1053			42		
PhytoGen PHY 525 RF	998			42		
BCSX 1010 B2F	956			39		
Trial mean	1078	965	825	41	41	40
LSD_{0.10}	31	87	66			
CV(%)	6	28	30			

TABLE 15. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2009.

Variety	Belle Mina		Prattville		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Americot AM 1550 B2RF	1081	16	725	14	921	16	1526	6
Americot NG 3331 B2RF	1111	14	730	12	879	21	1521	8
Americot NG 4370 B2RF	1046	22	714	16	877	22	1166	27
BCSX 1010 B2F	1190	8	660	22	952	14	1150	28
CG 3020 B2RF	944	27	602	25	827	24	1246	24
CG 3520 B2RF	1019	24	571	28	903	19	1176	26
CG 4020 B2RF	918	28	594	27	1037	6	1323	22
Croplan Genetics CG 3035 RF	1254	5	811	6	954	13	1454	13
Croplan Genetics CG 3220 B2RF	1056	21	682	19	974	12	1530	5
DP 164 B2RF	1068	19	636	24	1097	4	1283	23
Deltapine 09R619B2R2	1313	2	1005	2	1120	2	1683	2
Deltapine 1028B2RF	1228	7	1061	1	1160	1	1503	11
Deltapine DP 0912 B2RF	1259	4	734	11	1089	5	1523	7
Deltapine DP 0920 B2RF	1150	10	721	15	855	23	1446	15
Deltapine DP 0924 B2RF	1100	15	727	13	1011	10	1472	12
Deltapine DP 0935 B2RF	1020	23	790	7	988	11	1447	14
Deltapine DP 141 B2RF	1011	25	857	4	1034	8	1177	25
Dyna Gro DG 2570 B2RF	1133	13	674	20	1103	3	1509	9
Fiber Max FM 1740B2F	1146	11	596	26	945	15	1405	16
PHY 315 RF	1295	3	714	17	823	25	1559	3
PHY 375 WRF	1231	6	813	5	778	26	1503	10
PHY 425 RF	1139	12	778	9	766	27	1390	19
PHY 485 WRF	1065	20	745	10	884	20	1556	4
PhytoGen PHY 367 WRF	1079	17	693	18	918	18	1395	18
PhytoGen PHY 370WR	1075	18	883	3	1035	7	1715	1
Stoneville ST 4288 B2RF	1390	1	782	8	729	28	1363	20
Stoneville ST 4498 B2RF	987	26	665	21	1016	9	1325	21
Stoneville ST 5458 B2RF	1168	9	652	23	919	17	1397	17
Trial mean	1124		736		950		1419	
LSD_{0.10}	136		77		137		175	
CV(%)	13		12		16		14	

TABLE 16. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2009.

Variety	Belle Mina		Prattville		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
BCSX 1010 B2F	985	10	622	13	959	13	1258	12
DP 164 B2RF	922	13	618	14	1041	8	1236	14
Deltapine 09R549B2R2	963	12	806	5	1195	4	1564	3
Deltapine 09R621B2R2	1214	1	1028	1	1149	6	1613	2
Deltapine DP 0935 B2RF	919	14	845	2	1145	7	1473	4
Deltapine DP 0949 B2RF	1152	2	662	10	1204	3	1327	10
Deltapine DP 161 B2RF	981	11	746	8	1034	9	1322	11
Deltapine DP 174 RF	1094	6	826	3	1032	10	1716	1
PHY 375 WRF	1060	7	781	6	993	11	1377	8
PhytoGen PHX 5922 WRF	1097	5	817	4	1240	2	1441	6
PhytoGen PHY 525 RF	1109	4	658	11	982	12	1243	13
PhytoGen PHY 565 WRF	1018	9	774	7	1150	5	1328	9
Stoneville ST 5288 B2RF	1130	3	717	9	1313	1	1459	5
Stoneville ST 5458 B2RF	1057	8	657	12	886	14	1420	7
Trial mean	1050		754		1094		1413	
LSD_{0.10}	111		98		121		141	
CV(%)	11		14		12		11	

TABLE 17. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	4.2	1.13	27.9	83.0
Americot NG 3331 B2RF	4.3	1.11	30.4	84.4
Americot NG 4370 B2RF	4.2	1.10	27.9	82.6
BCSX 1010 B2F	4.0	1.17	30.4	84.4
CG 3020 B2RF	3.5	1.12	28.0	83.3
CG 3520 B2RF	3.7	1.13	27.2	82.4
CG 4020 B2RF	4.3	1.17	29.0	83.8
Croplan Genetics CG 3035 RF	4.8	1.15	29.8	84.6
Croplan Genetics CG 3220 B2RF	4.6	1.15	29.0	84.4
Deltapine 1028B2RF	4.7	1.16	28.4	84.5
Deltapine 09R619B2R2	4.9	1.16	28.4	84.5
Deltapine DP 0912 B2RF	5.2	1.10	29.8	83.6
Deltapine DP 0920 B2RF	3.7	1.15	29.6	82.5
Deltapine DP 0924 B2RF	4.8	1.11	30.1	84.4
Deltapine DP 0935 B2RF	4.8	1.12	28.8	84.3
Deltapine DP 141 B2RF	4.3	1.23	31.8	84.0
DP 164 B2RF	4.2	1.18	32.1	83.9
Dyna Gro DG 2570 B2RF	3.9	1.12	30.1	82.7
Fiber Max FM 1740B2F	4.5	1.16	30.7	84.4
PHY 315 RF	4.5	1.14	28.4	83.1
PHY 375 WRF	3.9	1.15	29.7	83.6
PHY 425 RF	4.5	1.16	30.3	84.5
PHY 485 WRF	4.5	1.12	30.6	83.8
PhytoGen PHY 367 WRF	4.1	1.17	30.0	83.7
PhytoGen PHY 370WR	4.6	1.05	30.2	83.4
Stoneville ST 4288 B2RF	4.6	1.16	32.2	83.4
Stoneville ST 4498 B2RF	4.1	1.14	31.6	84.1
Stoneville ST 5458 B2RF	4.6	1.17	32.2	83.0

TABLE 18. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	4.4	1.18	31.7	84.1
Deltapine 09R549B2R2	4.7	1.18	30.5	84.1
Deltapine 09R621B2R2	4.7	1.14	27.1	83.9
Deltapine DP 0935 B2RF	4.5	1.15	29.8	83.0
Deltapine DP 0949 B2RF	4.5	1.14	30.5	83.9
Deltapine DP 161 B2RF	4.4	1.19	31.1	84.6
Deltapine DP 174 RF	4.5	1.21	28.1	84.0
DP 164 B2RF	4.0	1.18	30.5	84.0
PHY 375 WRF	3.8	1.15	29.7	82.9
PhytoGen PHX 5922 WRF	4.7	1.14	30.0	83.9
PhytoGen PHY 525 RF	3.9	1.18	30.1	82.9
PhytoGen PHY 565 WRF	4.1	1.17	31.4	84.5
Stoneville ST 5288 B2RF	4.7	1.12	28.4	83.6
Stoneville ST 5458 B2RF	4.4	1.14	29.5	83.0

TABLE 19. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	4.4	1.09	25.4	81.7
Americot NG 3331 B2RF	4.6	1.14	28.3	84.1
Americot NG 4370 B2RF	4.3	1.12	28.4	83.7
BCSX 1010 B2F	4.3	1.13	28.5	83.3
CG 3020 B2RF	3.7	1.15	26.9	83.1
CG 3520 B2RF	4.3	1.11	25.5	82.4
CG 4020 B2RF	3.9	1.18	26.2	84.0
Croplan Genetics CG 3035 RF	4.5	1.14	27.0	83.6
Croplan Genetics CG 3220 B2RF	4.8	1.13	27.9	82.9
Deltapine 1028B2RF	4.8	1.15	26.5	84.4
Deltapine 09R619B2R2	4.7	1.14	26.5	84.2
Deltapine DP 0912 B2RF	4.8	1.11	27.5	83.6
Deltapine DP 0920 B2RF	4.7	1.14	27.0	83.3
Deltapine DP 0924 B2RF	4.0	1.12	29.0	82.4
Deltapine DP 0935 B2RF	4.4	1.11	26.6	83.3
Deltapine DP 141 B2RF	4.3	1.21	29.0	82.9
DP 164 B2RF	4.4	1.19	29.9	83.8
Dyna Gro DG 2570 B2RF	5.0	1.10	26.3	82.1
Fiber Max FM 1740B2F	4.4	1.11	28.5	82.1
PHY 315 RF	4.2	1.13	26.2	82.6
PHY 375 WRF	4.3	1.11	27.2	82.2
PHY 425 RF	4.9	1.14	27.7	83.5
PHY 485 WRF	4.7	1.13	27.9	83.8
PhytoGen PHY 367 WRF	4.5	1.07	25.9	80.7
PhytoGen PHY 370WR	4.6	1.12	27.3	83.5
Stoneville ST 4288 B2RF	4.7	1.17	28.9	84.5
Stoneville ST 4498 B2RF	4.2	1.13	30.3	83.5
Stoneville ST 5458 B2RF	5.0	1.11	29.1	81.5

TABLE 20. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	3.5	1.16	29.3	82.3
Deltapine 09R549B2R2	4.4	1.21	29.7	85.3
Deltapine 09R621B2R2	4.9	1.18	27.9	83.9
Deltapine DP 0935 B2RF	4.3	1.15	27.3	84.0
Deltapine DP 0949 B2RF	4.3	1.18	28.4	84.2
Deltapine DP 161 B2RF	4.3	1.21	30.6	84.7
Deltapine DP 174 RF	4.7	1.18	28.2	83.6
DP 164 B2RF	4.1	1.19	29.4	84.1
PHY 375 WRF	3.8	1.14	26.7	83.8
PhytoGen PHX 5922 WRF	4.6	1.16	29.0	84.6
PhytoGen PHY 525 RF	4.0	1.14	27.0	81.6
PhytoGen PHY 565 WRF	4.2	1.17	28.8	84.3
Stoneville ST 5288 B2RF	4.8	1.14	27.1	83.3
Stoneville ST 5458 B2RF	4.9	1.16	29.7	82.4

TABLE 21. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	4.3	1.15	26.9	83.4
Americot NG 3331 B2RF	4.9	1.16	29.2	85.1
Americot NG 4370 B2RF	4.6	1.18	29.2	85.1
BCSX 1010 B2F	4.1	1.17	29.3	83.3
CG 3020 B2RF	3.6	1.15	25.9	83.9
CG 3520 B2RF	4.0	1.21	26.5	84.3
CG 4020 B2RF	4.2	1.21	28.5	85.8
Croplan Genetics CG 3035 RF	4.2	1.16	27.7	85.3
Croplan Genetics CG 3220 B2RF	4.4	1.16	27.6	84.5
Deltapine 1028B2RF	4.3	1.17	27.8	83.8
Deltapine 09R619B2R2	4.7	1.15	29.0	85.2
Deltapine DP 0912 B2RF	4.7	1.16	29.1	85.3
Deltapine DP 0920 B2RF	4.8	1.18	27.1	83.9
Deltapine DP 0924 B2RF	4.7	1.15	29.4	84.3
Deltapine DP 0935 B2RF	4.5	1.17	28.4	83.7
Deltapine DP 141 B2RF	4.4	1.25	28.6	84.4
DP 164 B2RF	4.8	1.23	29.7	84.6
Dyna Gro DG 2570 B2RF	4.5	1.17	28.0	83.8
Fiber Max FM 1740B2F	4.0	1.19	30.1	84.5
PHY 315 RF	4.6	1.17	29.3	83.8
PHY 375 WRF	4.2	1.15	28.3	84.5
PHY 425 RF	4.7	1.14	30.2	85.7
PHY 485 WRF	4.4	1.14	30.0	84.6
PhytoGen PHY 367 WRF	4.0	1.19	29.6	83.9
PhytoGen PHY 370WR	4.7	1.13	29.4	84.9
Stoneville ST 4288 B2RF	4.5	1.24	28.1	83.2
Stoneville ST 4498 B2RF	4.0	1.18	29.0	84.2
Stoneville ST 5458 B2RF	4.7	1.21	28.6	83.4

TABLE 22. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	4.3	1.19	31.4	84.7
Deltapine 09R549B2R2	4.6	1.22	30.8	85.7
Deltapine 09R621B2R2	4.7	1.19	29.1	85.0
Deltapine DP 0935 B2RF	4.2	1.16	28.9	84.1
Deltapine DP 0949 B2RF	4.8	1.21	30.8	84.7
Deltapine DP 161 B2RF	4.5	1.22	32.5	85.1
Deltapine DP 174 RF	4.1	1.25	29.5	85.7
DP 164 B2RF	4.3	1.24	31.9	85.5
PHY 375 WRF	3.8	1.18	30.8	85.0
PhytoGen PHX 5922 WRF	4.3	1.16	33.3	84.6
PhytoGen PHY 525 RF	4.3	1.24	31.5	85.5
PhytoGen PHY 565 WRF	4.0	1.24	32.6	84.9
Stoneville ST 5288 B2RF	4.5	1.19	28.9	84.7
Stoneville ST 5458 B2RF	4.7	1.20	31.9	84.1

TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	3.9	1.15	26.7	82.2
Americot NG 3331 B2RF	3.8	1.14	27.9	83.9
Americot NG 4370 B2RF	3.6	1.14	27.4	82.2
BCSX 1010 B2F	4.1	1.16	29.1	83.9
CG 3020 B2RF	3.5	1.16	25.7	83.7
CG 3520 B2RF	3.9	1.18	28.3	82.9
CG 4020 B2RF	4.2	1.21	26.6	83.2
Croplan Genetics CG 3035 RF	4.5	1.14	26.6	82.6
Croplan Genetics CG 3220 B2RF	3.9	1.19	28.2	83.9
Deltapine 1028B2RF	4.8	1.16	26.6	84.2
Deltapine 09R619B2R2	4.4	1.18	28.3	83.1
Deltapine DP 0912 B2RF	3.8	1.15	25.5	83.8
Deltapine DP 0920 B2RF	4.5	1.18	27.7	83.5
Deltapine DP 0924 B2RF	4.8	1.14	27.7	83.7
Deltapine DP 0935 B2RF	4.1	1.15	26.8	82.8
Deltapine DP 141 B2RF	3.7	1.21	28.8	81.4
DP 164 B2RF	4.7	1.23	29.7	86.1
Dyna Gro DG 2570 B2RF	4.3	1.15	27.8	82.4
Fiber Max FM 1740B2F	3.6	1.16	27.1	83.8
PHY 315 RF	3.6	1.15	27.1	81.8
PHY 375 WRF	4.0	1.19	28.9	84.2
PHY 425 RF	4.2	1.19	29.6	85.0
PHY 485 WRF	4.2	1.18	31.0	84.5
PhytoGen PHY 367 WRF	3.7	1.21	29.2	83.8
PhytoGen PHY 370WR	4.2	1.13	27.2	83.5
Stoneville ST 4288 B2RF	3.7	1.16	27.0	80.6
Stoneville ST 4498 B2RF	3.8	1.12	29.0	82.9
Stoneville ST 5458 B2RF	4.1	1.19	30.0	83.2

TABLE 24. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	4.6	1.19	28.1	82.5
Deltapine 09R549B2R2	3.9	1.22	29.5	84.0
Deltapine 09R621B2R2	4.4	1.19	27.5	84.0
Deltapine DP 0935 B2RF	4.3	1.12	25.7	81.6
Deltapine DP 0949 B2RF	4.3	1.20	29.6	84.3
Deltapine DP 161 B2RF	4.5	1.25	30.6	85.0
Deltapine DP 174 RF	4.1	1.19	27.9	82.3
DP 164 B2RF	3.9	1.23	30.2	82.4
PHY 375 WRF	3.9	1.17	27.5	83.1
PhytoGen PHX 5922 WRF	4.5	1.17	29.9	84.8
PhytoGen PHY 525 RF	4.0	1.20	29.1	82.9
PhytoGen PHY 565 WRF	4.2	1.20	32.2	84.2
Stoneville ST 5288 B2RF	4.1	1.17	28.6	83.2
Stoneville ST 5458 B2RF	4.3	1.18	29.9	83.2

TABLE 25. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	4.0	1.13	25.1	82.3
Americot NG 3331 B2RF	4.7	1.12	27.5	46.0
Americot NG 4370 B2RF	4.2	1.10	25.6	83.0
BCSX 1010 B2F	4.3	1.15	27.1	84.1
CG 3020 B2RF	4.1	1.08	25.3	82.3
CG 3520 B2RF	4.0	1.13	24.2	82.2
CG 4020 B2RF	4.1	1.19	25.6	84.0
Croplan Genetics CG 3035 RF	4.3	1.14	26.8	84.1
Croplan Genetics CG 3220 B2RF	4.8	1.11	27.1	83.0
Deltapine 1028B2RF	4.2	1.13	26.3	83.0
Deltapine 09R619B2R2	3.9	1.11	26.3	82.1
Deltapine DP 0912 B2RF	4.8	1.11	28.0	83.6
Deltapine DP 0920 B2RF	5.0	1.11	26.4	82.7
Deltapine DP 0924 B2RF	4.7	1.13	26.9	84.3
Deltapine DP 0935 B2RF	4.4	1.09	25.2	82.3
Deltapine DP 141 B2RF	4.1	1.20	28.1	82.7
DP 164 B2RF	4.1	1.12	25.9	83.6
Dyna Gro DG 2570 B2RF	4.3	1.12	25.0	82.7
Fiber Max FM 1740B2F	4.4	1.12	26.1	82.8
PHY 315 RF	4.1	1.13	26.8	83.9
PHY 375 WRF	4.1	1.09	26.1	82.5
PHY 425 RF	5.1	1.09	28.2	84.4
PHY 485 WRF	4.6	1.12	26.8	83.9
PhytoGen PHY 367 WRF	4.1	1.14	26.1	81.3
PhytoGen PHY 370WR	4.6	1.04	26.1	82.3
Stoneville ST 4288 B2RF	4.5	1.15	25.8	82.0
Stoneville ST 4498 B2RF	4.2	1.07	25.8	82.2
Stoneville ST 5458 B2RF	4.3	1.14	26.2	81.8

TABLE 26. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	4.2	1.15	28.5	82.3
Deltapine 09R549B2R2	4.1	1.16	27.2	83.2
Deltapine 09R621B2R2	4.5	1.12	23.8	80.6
Deltapine DP 0935 B2RF	4.5	1.11	25.3	82.3
Deltapine DP 0949 B2RF	4.6	1.09	26.2	82.3
Deltapine DP 161 B2RF	4.7	1.19	28.6	84.0
Deltapine DP 174 RF	4.3	1.11	24.6	80.7
DP 164 B2RF	3.7	1.16	25.6	81.7
PHY 375 WRF	4.3	1.10	27.3	81.6
PhytoGen PHX 5922 WRF	4.2	1.14	26.5	82.3
PhytoGen PHY 525 RF	4.0	1.15	27.2	82.1
PhytoGen PHY 565 WRF	4.3	1.14	28.1	83.2
Stoneville ST 5288 B2RF	4.5	1.14	25.7	81.9
Stoneville ST 5458 B2RF	4.8	1.14	26.8	83.1

TABLE 27. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1550 B2RF	4.4	1.11	24.1	81.4
Americot NG 3331 B2RF	4.9	1.11	27.5	83.0
Americot NG 4370 B2RF	4.5	1.14	28.0	82.8
BCSX 1010 B2F	4.6	1.15	27.6	82.6
CG 3020 B2RF	4.3	1.11	25.2	80.5
CG 3520 B2RF	4.4	1.17	27.1	82.7
CG 4020 B2RF	4.2	1.13	26.2	83.3
Croplan Genetics CG 3035 RF	4.5	1.13	26.2	81.8
Croplan Genetics CG 3220 B2RF	4.9	1.15	25.6	83.3
Deltapine 1028B2RF	4.6	1.13	25.2	82.8
Deltapine 09R619B2R2	4.6	1.14	25.8	82.8
Deltapine DP 0912 B2RF	5.1	1.12	27.3	82.9
Deltapine DP 0920 B2RF	5.0	1.16	26.3	82.8
Deltapine DP 0924 B2RF	4.8	1.13	26.5	81.8
Deltapine DP 0935 B2RF	4.5	1.12	24.9	83.4
Deltapine DP 141 B2RF	4.4	1.23	28.2	82.2
DP 164 B2RF	4.6	1.19	27.0	83.0
Dyna Gro DG 2570 B2RF	4.9	1.11	25.4	82.7
Fiber Max FM 1740B2F	4.3	1.12	26.9	81.2
PHY 315 RF	4.2	1.12	26.3	82.5
PHY 375 WRF	4.4	1.14	26.6	82.6
PHY 425 RF	4.8	1.13	27.5	83.4
PHY 485 WRF	4.6	1.10	26.0	83.1
PhytoGen PHY 367 WRF	4.3	1.17	27.6	83.2
PhytoGen PHY 370WR	4.7	1.11	29.2	82.9
Stoneville ST 4288 B2RF	4.9	1.14	26.4	81.8
Stoneville ST 4498 B2RF	4.4	1.10	26.4	82.7
Stoneville ST 5458 B2RF	5.0	1.16	28.2	82.7

TABLE 28. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2009.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 1010 B2F	4.8	1.17	28.9	82.9
Deltapine 09R549B2R2	4.7	1.20	29.0	83.7
Deltapine 09R621B2R2	4.8	1.18	24.5	84.4
Deltapine DP 0935 B2RF	4.9	1.15	25.2	82.3
Deltapine DP 0949 B2RF	4.9	1.22	28.1	84.2
Deltapine DP 161 B2RF	4.8	1.20	30.3	83.8
Deltapine DP 174 RF	4.2	1.18	26.7	84.3
DP 164 B2RF	4.6	1.23	28.6	84.2
PHY 375 WRF	4.2	1.12	27.0	82.2
PhytoGen PHX 5922 WRF	4.8	1.15	28.5	84.3
PhytoGen PHY 525 RF	4.3	1.19	28.4	81.8
PhytoGen PHY 565 WRF	4.1	1.18	29.3	83.2
Stoneville ST 5288 B2RF	4.9	1.16	27.5	83.0
Stoneville ST 5458 B2RF	4.7	1.18	30.1	83.0

TABLE 29. GROWING SEASON RAINFALL, 2007-2009

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	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
	2007	1.1	4.6	1.0	1.2	3.7	1.1	1.2	13.9
Prattville	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
	2007	1.0	2.5	0.6	1.6	2.8	2.9	1.9	13.3
Headland	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
	2007	1.3	7.3	0.1	1.4	5.2	3.7	4.2	23.2
Fairhope	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
	2007	0.5	3.4	1.9	6.4	7.1	6.0	6.6	31.9

TABLE 30. SOIL TYPES, PLANTING DATES, AND HARVEST DATES FOR 2009 COTTON TRIALS

Location	Soil Type	Test	Planting Date	Harvest Date
Belle Mina	Decatur silt loam	Early Season Flex	May 29†	Nov. 14
		Full Season Flex	May 29†	Nov. 14
		Irrigated Early Season Flex	April 28	Nov. 3
		Irrigated Full Season Flex	April 28	Nov. 3
Prattville	Lucedale fine sandy loam	Early Season Flex	April 29	Nov. 19
		Full Season Flex	April 29	Nov. 19
Headland	Dothan sandy loam	Early Season Flex	May 11	Nov. 20
		Full Season Flex	May 11	Nov. 20
		Irrigated Early Season Flex	May 12	Nov. 21
		Irrigated Full Season Flex	May 12	Nov. 21
Fairhope	Malbis fine sandy loam	Early Season Flex	May 11	Sep. 30
		Full Season Flex	May 11	Sep. 30

† The dryland Early season and Full season trials were planted on April 28, however no stand was obtained. These trials were replanted on May 29

TABLE 31. SOURCES OF SEED FOR THE 2009 COTTON VARIETY TRIALS

Delta and Pine Land Co., Scott, Mississippi

Deltapine DP 174 B2RF	Deltapine DP 0935 B2RF
Deltapine DP 164 B2RF	Deltapine DP 0949 B2RF
Deltapine DP 161 B2RF	Deltapine 09R549 B2R2
Deltapine DP 141 B2RF	Deltapine 1028B2RF
Deltapine DP 0912 B2RF	Deltapine 09R619 B2R2
Deltapine DP 0920 B2RF	Deltapine 09R621 B2R2
Deltapine DP 0924B2RF	

Bayer Crop Sciences, Lubbock, Texas

Stoneville ST 4498B2RF	FiberMax FM 1740B2RF
Stoneville ST 5458B2RF	BCSX 1010B2F
Stoneville ST 4288B2RF	
Stoneville ST 5288B2RF	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 370 WR	PhytoGen PHY 315 RF
PhytoGen PHY 367 WRF	PhytoGen PHY 425 RF
PhytoGen PHY 375 WRF	PhytoGen PHY 525 RF
PhytoGen PHY 485 WRF	PhytoGen PHX 5922 WRF
PhytoGen PHY 565 WRF	

Americot, Inc., Lubbock, Texas

AM 1550 B2RF
AM 4370 B2RF
NG 3331 B2RF

United Agri Products, Kinston, Alabama

DynaGro 2570 B2RF

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	
