

*2008 Alabama
Cotton Variety
Report*

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Richard Guthrie, Director
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2008 ALABAMA COTTON VARIETY REPORT

K. M. Glass, C. D. Monks, C. H. Burmester, and Edzard van Santen

Advsiior III, Natl. Res. Prog., Associate Professor and Extension Cotton Agronomist, Extension Agronomist, and Professor

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. Fiber Max FM 960BR, Deltapine DP 444BRR, Deltapine DP 555BRR, and Stoneville ST 5599BR were include in all early and full season trials for comparison. Because these non-Flex checks were included, Flex RR trials were managed as regular Round-up Ready varieties.

EXPLANATION OF DATA

HARVEST OF SEED COTTON

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

LINT PERCENTAGE

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

YIELD OF LINT

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

FIBER PROPERTIES

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

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

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

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

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

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

Fusarium Wilt: Reaction of varieties to *Fusarium oxysporum* f. *vasinfectum* (Fusarium wilt) was evaluated at the Plant Breeding Unit, Tallassee. Breeder lines and selected released varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2008, incidence of Fusarium wilt ranged from moderate to high. The incidence ratings can be found in the 2008 National Fusarium Wilt Cotton Report, Departmental Series No. 296

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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TABLE 1. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> ----	
CG 3520 B2RF	764	42	563	537
DP 121 RF	758	45	586	531
Stoneville ST 5599BR	739	44	553	527
ST 4427B2RF	656	43	513	512
Deltapine DP 444BG/RR	683	46	528	501
DP 143 B2RF	777	42	545	501
Deltapine DP 555 BG/RR	699	45	501	489
CG 3020 B2RF	695	42	517	477
PHY 485 WRF	659	43	497	474
ST 4554B2RF	731	44	507	471
PHY 425 RF	710	42	507	468
CG 4020 B2RF	724	44	521	462
Dyna Gro 2520 B2RF	602	43	458	442
Fiber Max FM 960BR	616	43	449	408
PHY 375 WRF	904	46	668	.
Croplan Genetics CG 3035 RF	782	46	572	.
PHY 315 RF	774	47	556	.
Dyna Gro DG 2570 B2RF	787	45	553	.
Croplan Genetics CG 3220 B2RF	825	45	531	.
Americot AM 1532 B2RF	705	44	516	.
Stoneville ST 4498 B2RF	733	44	510	.
Deltapine DP 141 B2RF	696	42	497	.
Fiber Max FM 1740B2F	682	45	491	.
Deltapine DP 161 B2RF	698	41	484	.
DP 07W505DF	797	45	.	.
Americot NG 4370 B2RF	780	42	.	.
PhytoGen PHY 370WR	769	44	.	.
Americot NG 4377 B2RF	766	44	.	.
DP 164 B2RF	766	42	.	.
DP 07X440DF	761	49	.	.
Americot AM 1550 B2RF	757	46	.	.
BCSX 0704B2F	749	42	.	.
Americot NG 3331 B2RF	743	44	.	.
Deltapine DP 0935 B2RF	734	46	.	.
Deltapine DP 0924 B2RF	731	44	.	.
Trial mean	736	44	526	486
LSD(0.10)	103	1	60	55
%CV	15	2	17	22

TABLE 2. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Stoneville ST 5599BR	663	45	512	473
Deltapine DP 444BG/RR	460	45	472	460
Fiber Max FM 960BR	686	43	489	450
Deltapine DP 555 BG/RR	592	44	468	438
DP 164 B2RF	514	41	438	394
Stoneville ST 5458 B2RF	739	44	509	.
Deltapine DP 161 B2RF	607	41	478	.
Deltapine DP 174 RF	653	46	466	.
Deltapine DP 0935 B2RF	710	46	.	.
ST 5327B2RF	668	45	.	.
PHY 485 WRF	604	42	.	.
BCSX 0614B2F	576	42	.	.
BCSX 0721B2F	514	44	.	.
BCSX 0727B2F	451	44	.	.
Trial mean	603	44	479	443
LSD(0.10)	152	0	94	64
%CV	27	1	28	25

TABLE 3. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	1291	44	886	.
Fiber Max FM 960BR	1048	43	855	.
DP 143 B2RF	1145	41	848	.
Stoneville ST 5599BR	1070	41	821	.
PHY 485 WRF	909	41	767	.
PHY 425 RF	898	40	751	.
ST 4427B2RF	997	42	745	.
Deltapine DP 444BG/RR	1032	43	740	.
CG 4020 B2RF	1008	42	733	.
DP 121 RF	964	44	711	.
CG 3020 B2RF	913	42	682	.
Dyna Gro 2520 B2RF	893	42	678	.
CG 3520 B2RF	947	42	675	.
ST 4554B2RF	855	42	664	.
PHY 315 RF	1168	44	.	.
Dyna Gro DG 2570 B2RF	1153	43	.	.
Deltapine DP 0935 B2RF	1147	44	.	.
Americot NG 3331 B2RF	1088	42	.	.
PhytoGen PHY 370WR	1088	43	.	.
DP 07W505DF	1085	42	.	.
Americot AM 1550 B2RF	1079	44	.	.
DP 164 B2RF	1045	42	.	.
Deltapine DP 0924 B2RF	1031	42	.	.
Croplan Genetics CG 3220 B2RF	1019	43	.	.
PHY 375 WRF	997	45	.	.
DP 07X440DF	979	48	.	.
Fiber Max FM 1740B2F	976	42	.	.
BCSX 0704B2F	975	40	.	.
Croplan Genetics CG 3035 RF	971	44	.	.
Deltapine DP 161 B2RF	960	39	.	.
Stoneville ST 4498 B2RF	959	42	.	.
Americot AM 1532 B2RF	954	41	.	.
Americot NG 4370 B2RF	931	43	.	.
Americot NG 4377 B2RF	929	41	.	.
Deltapine DP 141 B2RF	902	42	.	.
Trial mean	1012	42	754	.
LSD(0.10)	94	1	58	.
%CV	10	2	11	.

[†] Because of a 2007 crop failure, 2-yr means are based on 2006 and 2008 data.

TABLE 4. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILE, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr [†]	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 555 BG/RR	1154	43	810	.
Deltapine DP 444BG/RR	1077	43	736	.
Fiber Max FM 960BR	900	41	727	.
DP 164 B2RF	881	40	676	.
Stoneville ST 5599BR	791	39	635	.
Deltapine DP 0935 B2RF	1096	44	.	.
ST 5327B2RF	996	42	.	.
Stoneville ST 5458 B2RF	988	43	.	.
BCSX 0727B2F	956	41	.	.
Deltapine DP 161 B2RF	925	41	.	.
Deltapine DP 174 RF	915	43	.	.
BCSX 0614B2F	904	38	.	.
PHY 485 WRF	844	40	.	.
BCSX 0721B2F	677	43	.	.
Trial mean	936	41	717	.
LSD(0.10)	140	1	87	.
%CV	16	3	16	.

[†] Because of a 2007 crop failure, 2-yr means are based on 2006 and 2008 data.

TABLE 5. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	576	42	.	.
Stoneville ST 5599BR	773	42	.	.
Fiber Max FM 960BR	835	40	.	.
ST 4427B2RF	662	40	.	.
DP 143 B2RF	664	41	.	.
Deltapine DP 444BG/RR	808	42	.	.
PHY 485 WRF	705	41	.	.
DP 121 RF	723	41	.	.
PHY 425 RF	678	40	.	.
ST 4554B2RF	498	40	.	.
Dyna Gro 2520 B2RF	687	39	.	.
CG 3520 B2RF	664	41	.	.
CG 4020 B2RF	630	41	.	.
CG 3020 B2RF	554	40	.	.
Dyna Gro DG 2570 B2RF	792	42	.	.
Deltapine DP 141 B2RF	648	39	.	.
Croplan Genetics CG 3220 B2RF	685	43	.	.
PHY 375 WRF	760	42	.	.
Croplan Genetics CG 3035 RF	544	41	.	.
Deltapine DP 161 B2RF	590	39	.	.
Americot AM 1532 B2RF	706	41	.	.
Stoneville ST 4498 B2RF	572	40	.	.
PHY 315 RF	593	42	.	.
Fiber Max FM 1740B2F	540	41	.	.
PhytoGen PHY 370WR	885	41	.	.
DP 164 B2RF	682	40	.	.
Americot AM 1550 B2RF	679	42	.	.
Americot NG 3331 B2RF	614	41	.	.
Deltapine DP 0935 B2RF	563	42	.	.
BCSX 0704B2F	526	40	.	.
Americot NG 4370 B2RF	514	40	.	.
Deltapine DP 0924 B2RF	512	40	.	.
Americot NG 4377 B2RF	440	40	.	.
Trial mean	646	41	.	.
LSD(0.10)	148	1	.	.
%CV	25	3	.	.

TABLE 6. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Deltapine DP 555 BG/RR	577	42	.	.
Stoneville ST 5599BR	627	41	.	.
DP 164 B2RF	457	39	.	.
Deltapine DP 444BG/RR	768	42	.	.
Fiber Max FM 960BR	582	41	.	.
Stoneville ST 5458 B2RF	662	42	.	.
Deltapine DP 174 RF	603	42	.	.
Deltapine DP 161 B2RF	526	41	.	.
ST 5327B2RF	695	42	.	.
PHY 485 WRF	641	41	.	.
Deltapine DP 0935 B2RF	611	43	.	.
BCSX 0721B2F	584	43	.	.
BCSX 0614B2F	569	39	.	.
BCSX 0727B2F	547	42	.	.
Trial mean	604	41	.	.
LSD(0.10)	156	1	.	.
%CV	28	2	.	.

TABLE 7. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	---- <i>lbs/acre</i> ----	
Deltapine DP 555 BG/RR	1190	41	1193	1301
Deltapine DP 444BG/RR	1076	41	1173	1201
PHY 485 WRF	1119	39	1149	1199
PHY 425 RF	1147	37	1119	1192
Stoneville ST 5599BR	1222	41	1151	1177
CG 4020 B2RF	1204	38	1129	1174
DP 121 RF	1119	41	1172	1159
DP 143 B2RF	1039	37	1059	1143
ST 4427B2RF	1131	39	1121	1141
CG 3520 B2RF	1003	38	1060	1127
Dyna Gro 2520 B2RF	1114	38	1046	1071
ST 4554B2RF	1106	40	1050	1069
CG 3020 B2RF	1024	37	986	1028
Fiber Max FM 960BR	996	39	941	1006
PHY 375 WRF	1162	41	1229	.
Deltapine DP 161 B2RF	1258	38	1177	.
PHY 315 RF	1191	41	1166	.
Americot AM 1532 B2RF	924	37	1053	.
Croplan Genetics CG 3035 RF	1101	42	1042	.
Stoneville ST 4498 B2RF	1079	39	1037	.
Dyna Gro DG 2570 B2RF	994	39	1024	.
Fiber Max FM 1740B2F	1091	41	1014	.
Deltapine DP 141 B2RF	1006	38	960	.
Croplan Genetics CG 3220 B2RF	1024	39	947	.
Deltapine DP 0924 B2RF	1312	41	.	.
DP 164 B2RF	1300	40	.	.
PhytoGen PHY 370WR	1293	40	.	.
Americot NG 4370 B2RF	1193	37	.	.
Deltapine DP 0935 B2RF	1168	40	.	.
Americot NG 4377 B2RF	1140	39	.	.
Americot NG 3331 B2RF	1110	38	.	.
BCSX 0704B2F	1094	36	.	.
Americot AM 1550 B2RF	1055	40	.	.
Trial mean	1121	39	1083	1142
LSD(0.10)	154	1	105	84
%CV	15	3	15	14

TABLE 8. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	----- <i>lbs/acre</i> -----	
Deltapine DP 555 BG/RR	1332	43	1178	1368
Stoneville ST 5599BR	1346	42	1183	1240
DP 164 B2RF	1201	39	1094	1111
Deltapine DP 444BG/RR	1149	43	1123	1091
Fiber Max FM 960BR	1154	40	1002	1046
Deltapine DP 161 B2RF	1375	41	1108	.
Stoneville ST 5458 B2RF	1292	40	1091	.
Deltapine DP 174 RF	1214	43	1009	.
BCSX 0721B2F	1451	43	.	.
Deltapine DP 0935 B2RF	1426	43	.	.
BCSX 0727B2F	1377	41	.	.
BCSX 0614B2F	1253	39	.	.
PHY 485 WRF	1244	40	.	.
ST 5327B2RF	1185	42	.	.
Trial mean	1286	41	1098	1172
LSD(0.10)	68	1	80	65
%CV	6	2	10	10

TABLE 9. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Dyna Gro DG 2570 B2RF	2063	45	.	.
Americot NG 3331 B2RF	2010	44	.	.
PhytoGen PHY 370WR	1898	44	.	.
Fiber Max FM 1740B2F	1891	44	.	.
CG 4020 B2RF	1866	43	.	.
Americot AM 1550 B2RF	1864	45	.	.
Deltapine DP 444BG/RR	1863	44	.	.
Deltapine DP 141 B2RF	1860	42	.	.
Stoneville ST 5599BR	1828	43	.	.
BCSX 0704B2F	1826	41	.	.
PHY 375 WRF	1810	44	.	.
Deltapine DP 161 B2RF	1802	42	.	.
DP 07X440DF	1795	48	.	.
DP 143 B2RF	1793	41	.	.
DP 07W505DF	1772	44	.	.
ST 4554B2RF	1769	43	.	.
Fiber Max FM 960BR	1768	43	.	.
Deltapine DP 555 BG/RR	1757	46	.	.
PHY 315 RF	1734	44	.	.
Deltapine DP 0935 B2RF	1719	44	.	.
Dyna Gro 2520 B2RF	1708	42	.	.
PHY 485 WRF	1708	43	.	.
Deltapine DP 0924 B2RF	1707	44	.	.
CG 3520 B2RF	1694	42	.	.
PHY 425 RF	1694	42	.	.
Americot AM 1532 B2RF	1686	43	.	.
Americot NG 4370 B2RF	1682	42	.	.
Croplan Genetics CG 3220 B2RF	1668	43	.	.
Stoneville ST 4498 B2RF	1661	44	.	.
DP 121 RF	1631	44	.	.
Croplan Genetics CG 3035 RF	1615	45	.	.
Americot NG 4377 B2RF	1609	43	.	.
DP 164 B2RF	1601	42	.	.
CG 3020 B2RF	1574	41	.	.
ST 4427B2RF	1534	42	.	.
Trial mean	1756	43	.	.
LSD(0.10)	148	1	.	.
%CV	9	2	.	.

TABLE 10. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre -----</i>	
Stoneville ST 5599BR	2011	44	.	.
BCSX 0727B2F	1986	44	.	.
Deltapine DP 555 BG/RR	1973	45	.	.
Deltapine DP 0935 B2RF	1923	45	.	.
Stoneville ST 5458 B2RF	1904	42	.	.
Deltapine DP 174 RF	1901	44	.	.
ST 5327B2RF	1888	44	.	.
Fiber Max FM 960BR	1887	42	.	.
PHY 485 WRF	1824	42	.	.
Deltapine DP 161 B2RF	1823	42	.	.
BCSX 0721B2F	1813	44	.	.
Deltapine DP 444BG/RR	1786	44	.	.
DP 164 B2RF	1713	42	.	.
BCSX 0614B2F	1650	40	.	.
Trial mean	1863	43	.	.
LSD(0.10)	121	1	.	.
%CV	7	1	.	.

TABLE 11. PERFORMANCE OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	2450	43	2252	2216
Stoneville ST 5599BR	2138	42	2025	1877
ST 4554B2RF	2081	42	1858	1862
PHY 425 RF	2076	41	1874	1804
DP 121 RF	2082	42	1832	1792
Deltapine DP 444BG/RR	1991	40	1827	1786
DP 143 B2RF	1840	39	1797	1786
PHY 485 WRF	1967	42	1772	1784
ST 4427B2RF	1803	40	1695	1781
Fiber Max FM 960BR	1954	42	1714	1781
Dyna Gro 2520 B2RF	1911	41	1669	1723
CG 3520 B2RF	1854	40	1588	1673
CG 4020 B2RF	1873	41	1614	1572
CG 3020 B2RF	1888	41	1520	1551
Dyna Gro DG 2570 B2RF	2233	42	2040	.
Croplan Genetics CG 3035 RF	2071	42	1903	.
PHY 375 WRF	2236	43	1901	.
Deltapine DP 161 B2RF	2112	39	1891	.
Croplan Genetics CG 3220 B2RF	2119	42	1888	.
PHY 315 RF	2210	43	1876	.
Deltapine DP 141 B2RF	2018	40	1859	.
Fiber Max FM 1740B2F	2086	42	1821	.
Stoneville ST 4498 B2RF	2069	41	1817	.
Americot AM 1532 B2RF	1857	41	1655	.
PhytoGen PHY 370WR	2253	43	.	.
BCSX 0704B2F	2171	41	.	.
Deltapine DP 0924 B2RF	2155	42	.	.
Americot NG 3331 B2RF	2093	40	.	.
DP 164 B2RF	2068	41	.	.
Deltapine DP 0935 B2RF	2064	43	.	.
Americot AM 1550 B2RF	2052	43	.	.
Americot NG 4377 B2RF	2036	42	.	.
Americot NG 4370 B2RF	2014	42	.	.
Trial mean	2055	41	1820	1785
LSD(0.10)	142	1	121	112
%CV	8	3	10	12

TABLE 12. PERFORMANCE OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	2008 lint		Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre ----</i>	
Deltapine DP 555 BG/RR	2353	45	2259	2165
Stoneville ST 5599BR	2286	42	2106	2036
DP 164 B2RF	1906	42	2060	1909
Deltapine DP 444BG/RR	1862	42	1822	1769
Fiber Max FM 960BR	1874	41	1735	1737
Stoneville ST 5458 B2RF	2346	41	2122	.
Deltapine DP 161 B2RF	2202	40	2033	.
Deltapine DP 174 RF	2108	43	2004	.
Deltapine DP 0935 B2RF	2234	43	.	.
BCSX 0727B2F	2190	41	.	.
BCSX 0721B2F	2101	44	.	.
PHY 485 WRF	1972	40	.	.
BCSX 0614B2F	1821	39	.	.
ST 5327B2RF	1663	42	.	.
Trial mean	2066	42	2018	1923
LSD(0.10)	130	1	144	133
%CV	7	2	10	12

TABLE 13. PERFORMANCE OF EARLY SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2006-2008

Variety	Lint yield			Lint percentage		
	2008	2-yr	3-yr	2008	2-yr	3-yr
	----- lbs/acre-----			----- % -----		
Deltapine DP 555 BG/RR	939	974	1084	43	43	44
Stoneville ST 5599BR	951	967	1002	42	41	41
DP 143 B2RF	906	916	983	40	39	40
Deltapine DP 444BG/RR	900	920	979	43	42	42
ST 4427B2RF	862	876	969	41	40	40
PHY 485 WRF	848	889	968	41	40	41
DP 121 RF	891	906	956	43	43	42
PHY 425 RF	858	888	955	40	40	40
Fiber Max FM 960BR	874	850	925	41	40	41
CG 3520 B2RF	845	823	925	41	40	40
ST 4554B2RF	798	822	905	42	41	41
CG 4020 B2RF	892	844	896	41	40	40
Dyna Gro 2520 B2RF	824	810	895	40	40	40
CG 3020 B2RF	797	760	837	40	39	39
PHY 375 WRF	956	1008	.	43	42	.
Dyna Gro DG 2570 B2RF	932	983	.	42	41	.
PHY 315 RF	932	955	.	44	43	.
Deltapine DP 161 B2RF	877	926	.	40	39	.
Croplan Genetics CG 3035 RF	849	917	.	43	42	.
Croplan Genetics CG 3220 B2RF	888	894	.	42	41	.
Americot AM 1532 B2RF	822	884	.	41	40	.
Stoneville ST 4498 B2RF	836	876	.	41	41	.
Deltapine DP 141 B2RF	813	872	.	40	40	.
Fiber Max FM 1740B2F	822	860	.	42	41	.
PhytoGen PHY 370WR	1009	.	.	42	.	.
DP 164 B2RF	948	.	.	41	.	.
DP 07W505DF	946	.	.	42	.	.
Deltapine DP 0935 B2RF	903	.	.	43	.	.
Deltapine DP 0924 B2RF	896	.	.	42	.	.
Americot AM 1550 B2RF	892	.	.	43	.	.
Americot NG 3331 B2RF	889	.	.	42	.	.
DP 07X440DF	876	.	.	47	.	.
Americot NG 4370 B2RF	855	.	.	41	.	.
BCSX 0704B2F	836	.	.	40	.	.
Americot NG 4377 B2RF	819	.	.	41	.	.
Trial mean	879	893	948	42	41	41
LSD(0.10)	26	116	89	0	1	0
%CV	6	35	31	3	4	3

TABLE 14. PERFORMANCE OF FULL SEASON FLEX RR COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS, 2006-2008

Variety	Lint yield			Lint percentage		
	2008	2-yr	3-yr	2008	2-yr	3-yr
	----- lbs/acre-----			----- % -----		
Deltapine DP 555 BG/RR	914	957	1051	43	43	44
Stoneville ST 5599BR	857	902	971	42	41	41
Deltapine DP 444BG/RR	864	902	924	43	43	43
DP 164 B2RF	763	886	907	40	40	40
Fiber Max FM 960BR	831	827	881	41	40	40
Stoneville ST 5458 B2RF	920	946	.	42	41	.
Deltapine DP 161 B2RF	858	908	.	41	40	.
Deltapine DP 174 RF	846	891	.	44	43	.
Deltapine DP 0935 B2RF	961	.	.	44	.	.
ST 5327B2RF	886	.	.	43	.	.
PHY 485 WRF	833	.	.	41	.	.
BCSX 0727B2F	833	.	.	42	.	.
BCSX 0614B2F	826	.	.	40	.	.
BCSX 0721B2F	807	.	.	43	.	.
Trial mean	857	902	947	42	41	41
LSD(0.10)	36	156	115	1	1	1
%CV	8	46	40	2	4	4

TABLE 15. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON FLEX RR COTTON VARIETIES, 2008.

Variety	Belle Mina		Prattville		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Americot AM 1532 B2RF	705	25	954	26	924	33	706	8
Americot AM 1550 B2RF	757	15	1079	9	1055	25	679	13
Americot NG 3331 B2RF	743	17	1088	6	1110	18	614	20
Americot NG 4370 B2RF	780	6	931	28	1193	7	514	30
Americot NG 4377 B2RF	766	10	929	29	1140	13	440	33
BCSX 0704B2F	749	16	975	21	1094	21	526	29
CG 3020 B2RF	695	29	913	30	1024	27	554	26
CG 3520 B2RF	764	12	947	27	1003	30	664	16
CG 4020 B2RF	724	23	1008	16	1204	6	630	19
Croplan Genetics CG 3035 RF	782	5	971	22	1101	20	544	27
Croplan Genetics CG 3220 B2RF	825	2	1019	15	1024	28	685	11
Deltapine DP 0924 B2RF	731	22	1031	14	1312	1	512	31
Deltapine DP 0935 B2RF	734	19	1147	4	1168	10	563	25
Deltapine DP 141 B2RF	696	28	902	32	1006	29	648	18
Deltapine DP 161 B2RF	698	27	960	24	1258	4	590	22
Deltapine DP 444BG/RR	683	30	1032	13	1076	24	808	3
Deltapine DP 555 BG/RR	699	26	1291	1	1190	9	576	23
DP 07W505DF	797	3	1085	8
DP 07X440DF	761	13	979	19
DP 121 RF	758	14	964	23	1119	15	723	7
DP 143 B2RF	777	7	1145	5	1039	26	664	15
DP 164 B2RF	766	11	1045	12	1300	2	682	12
Dyna Gro 2520 B2RF	602	35	893	34	1114	17	687	10
Dyna Gro DG 2570 B2RF	787	4	1153	3	994	32	792	4
Fiber Max FM 1740B2F	682	31	976	20	1091	22	540	28
Fiber Max FM 960BR	616	34	1048	11	996	31	835	2
PHY 315 RF	774	8	1168	2	1191	8	593	21
PHY 375 WRF	904	1	997	18	1162	11	760	6
PHY 425 RF	710	24	898	33	1147	12	678	14
PHY 485 WRF	659	32	909	31	1119	16	705	9
PhytoGen PHY 370WR	769	9	1088	7	1293	3	885	1
ST 4427B2RF	656	33	997	17	1131	14	662	17
ST 4554B2RF	731	21	855	35	1106	19	498	32
Stoneville ST 4498 B2RF	733	20	959	25	1079	23	572	24
Stoneville ST 5599BR	739	18	1070	10	1222	5	773	5
Trial mean	736		1012		1121		646	
LSD(0.10)	59		55		89		85	
%CV	15		10		15		25	

TABLE 16. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON FLEX RR COTTON VARIETIES, 2008.

Variety	Belle Mina		Prattville		Fairhope		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
BCSX 0614B2F	576	10	904	9	1253	8	569	11
BCSX 0721B2F	514	12	677	14	1451	1	584	8
BCSX 0727B2F	451	14	956	6	1377	3	547	12
Deltapine DP 0935 B2RF	710	2	1096	2	1426	2	611	6
Deltapine DP 161 B2RF	607	7	925	7	1375	4	526	13
Deltapine DP 174 RF	653	6	915	8	1214	10	603	7
Deltapine DP 444BG/RR	460	13	1077	3	1149	14	768	1
Deltapine DP 555 BG/RR	592	9	1154	1	1332	6	577	10
DP 164 B2RF	514	11	881	11	1201	11	457	14
Fiber Max FM 960BR	686	3	900	10	1154	13	582	9
PHY 485 WRF	604	8	844	12	1244	9	641	4
ST 5327B2RF	668	4	996	4	1185	12	695	2
Stoneville ST 5458 B2RF	739	1	988	5	1292	7	662	3
Stoneville ST 5599BR	663	5	791	13	1346	5	627	5
Trial mean	603	.	936	.	1286	.	604	.
LSD(0.10)	88	.	81	.	39	.	90	.
%CV	27	.	16	.	6	.	28	.

TABLE 17. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	Mic Micronaire <i>units</i>	Len Length <i>in.</i>	Str Strength <i>g/tex</i>	Unif Uniformity <i>pct.</i>
Americot AM 1532 B2RF	4.7	1.11	28.3	83.2
Americot AM 1550 B2RF	5.3	1.06	27.2	83.0
Americot NG 3331 B2RF	5.2	1.00	30.0	83.2
Americot NG 4370 B2RF	4.9	1.09	30.3	84.7
Americot NG 4377 B2RF	5.3	1.05	29.3	83.8
BCSX 0704B2F	5.2	1.12	27.3	82.4
CG 3020 B2RF	4.7	1.06	27.0	83.0
CG 3520 B2RF	4.5	1.08	25.9	83.0
CG 4020 B2RF	4.8	1.08	27.5	82.9
Croplan Genetics CG 3035 RF	4.9	1.08	28.7	83.5
Croplan Genetics CG 3220 B2RF	4.9	1.06	27.4	82.7
Deltapine DP 141 B2RF	4.9	1.09	29.4	82.1
Deltapine DP 161 B2RF	4.9	1.14	32.2	84.3
Deltapine DP 444BG/RR	4.8	1.03	28.1	82.6
Deltapine DP 555 BG/RR	4.6	1.05	29.6	82.4
Deltapine DP 0924 B2RF	4.9	1.03	27.7	83.2
Deltapine DP 0935 B2RF	4.7	1.06	28.6	82.5
DP 07W505DF	5.6	1.00	27.8	82.3
DP 07X440DF	4.6	1.07	27.3	82.0
DP 121 RF	5.4	1.03	29.1	82.9
DP 143 B2RF	4.3	1.15	30.5	81.8
DP 164 B2RF	5.0	1.12	30.3	83.3
Dyna Gro 2520 B2RF	4.8	1.09	26.9	81.6
Dyna Gro DG 2570 B2RF	5.0	1.08	29.9	83.6
Fiber Max FM 1740B2F	5.3	1.03	27.9	82.8
Fiber Max FM 960BR	4.7	1.04	33.0	81.6
PHY 315 RF	5.0	1.05	28.0	82.5
PHY 375 WRF	5.1	1.05	30.0	83.1
PHY 425 RF	5.1	1.08	31.8	84.6
PHY 485 WRF	5.2	1.05	28.4	83.2
PhytoGen PHY 370WR	4.9	1.05	30.7	83.0
ST 4427B2RF	4.8	1.09	29.9	83.0
ST 4554B2RF	5.1	1.06	30.3	82.7
Stoneville ST 4498 B2RF	5.1	1.05	30.2	82.6
Stoneville ST 5599BR	5.3	1.01	29.3	81.2

TABLE 18. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.8	1.12	32.0	82.7
BCSX 0721B2F	5.3	1.05	29.9	81.6
BCSX 0727B2F	5.4	1.06	29.1	82.4
Deltapine DP 161 B2RF	4.9	1.15	32.4	83.3
Deltapine DP 174 RF	5.2	1.10	29.2	82.2
Deltapine DP 444BG/RR	4.9	1.00	28.8	80.9
Deltapine DP 555 BG/RR	4.6	1.07	32.4	81.2
Deltapine DP 0935 B2RF	5.1	1.05	30.0	81.7
DP 164 B2RF	4.9	1.12	30.6	81.3
Fiber Max FM 960BR	5.0	1.09	33.7	82.4
PHY 485 WRF	5.2	1.09	32.0	82.7
ST 5327B2RF	4.8	1.06	33.0	82.0
Stoneville ST 5458 B2RF	5.5	1.09	29.6	81.3
Stoneville ST 5599BR	5.6	0.99	27.7	80.7

TABLE 19. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1532 B2RF	4.6	1.19	30.0	83.8
Americot AM 1550 B2RF	5.2	1.12	28.1	81.3
Americot NG 3331 B2RF	5.6	1.11	31.6	83.9
Americot NG 4370 B2RF	5.4	1.09	31.7	82.8
Americot NG 4377 B2RF	5.3	1.09	31.7	82.0
BCSX 0704B2F	5.0	1.15	31.0	82.4
CG 3020 B2RF	4.6	1.11	29.7	83.4
CG 3520 B2RF	5.0	1.07	28.9	81.3
CG 4020 B2RF	5.1	1.15	30.5	82.5
Croplan Genetics CG 3035 RF	5.2	1.08	29.4	81.5
Croplan Genetics CG 3220 B2RF	5.3	1.12	29.6	81.8
Deltapine DP 141 B2RF	4.5	1.18	32.2	82.0
Deltapine DP 161 B2RF	5.3	1.19	32.4	83.8
Deltapine DP 444BG/RR	4.6	1.10	29.9	82.6
Deltapine DP 555 BG/RR	5.2	1.14	30.4	83.2
Deltapine DP 0924 B2RF	5.5	1.08	31.0	82.1
Deltapine DP 0935 B2RF	5.3	1.13	29.6	81.8
DP 07W505DF	5.5	1.11	30.8	84.2
DP 07X440DF	4.4	1.11	29.3	80.4
DP 121 RF	5.2	1.12	32.4	83.6
DP 143 B2RF	4.8	1.19	30.6	82.1
DP 164 B2RF	5.2	1.16	32.5	83.5
Dyna Gro 2520 B2RF	5.0	1.13	29.3	82.3
Dyna Gro DG 2570 B2RF	5.1	1.15	32.4	83.7
Fiber Max FM 1740B2F	4.8	1.17	31.6	83.4
Fiber Max FM 960BR	5.1	1.09	31.5	82.0
PHY 315 RF	4.7	1.12	28.8	84.1
PHY 375 WRF	5.2	1.09	29.5	81.5
PHY 425 RF	5.2	1.11	32.9	83.2
PHY 485 WRF	5.1	1.10	33.1	82.8
PhytoGen PHY 370WR	5.2	1.09	32.4	83.1
ST 4427B2RF	5.3	1.11	30.7	82.3
ST 4554B2RF	5.5	1.08	32.0	79.9
Stoneville ST 4498 B2RF	5.3	1.09	32.6	81.8
Stoneville ST 5599BR	4.9	1.11	31.9	81.4

TABLE 20. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.9	1.17	29.8	83.2
BCSX 0721B2F	4.7	1.18	29.1	83.5
BCSX 0727B2F	4.6	1.17	28.6	83.2
Deltapine DP 161 B2RF	5.0	1.17	31.8	82.4
Deltapine DP 174 RF	4.6	1.18	28.7	83.5
Deltapine DP 444BG/RR	4.6	1.12	29.7	83.0
Deltapine DP 555 BG/RR	5.1	1.13	31.1	81.9
Deltapine DP 0935 B2RF	4.9	1.14	29.5	82.5
DP 164 B2RF	4.9	1.20	32.3	84.0
Fiber Max FM 960BR	4.8	1.15	33.8	82.4
PHY 485 WRF	4.6	1.13	29.5	83.5
ST 5327B2RF	4.9	1.13	30.0	83.4
Stoneville ST 5458 B2RF	5.5	1.12	31.4	82.2
Stoneville ST 5599BR	4.2	1.15	32.3	82.4

TABLE 21. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1532 B2RF	4.7	1.16	28.5	84.7
Americot AM 1550 B2RF	4.7	1.12	29.6	83.6
Americot NG 3331 B2RF	4.8	1.12	29.5	83.5
Americot NG 4370 B2RF	4.6	1.09	28.7	83.6
Americot NG 4377 B2RF	4.5	1.09	29.6	82.3
BCSX 0704B2F	4.7	1.15	30.4	83.2
CG 3020 B2RF	4.6	1.12	30.4	84.8
CG 3520 B2RF	4.7	1.10	28.8	84.5
CG 4020 B2RF	4.3	1.15	29.3	84.3
Croplan Genetics CG 3035 RF	4.5	1.11	30.3	83.5
Croplan Genetics CG 3220 B2RF	5.1	1.07	27.8	82.5
Deltapine DP 141 B2RF	4.7	1.11	28.0	82.9
Deltapine DP 161 B2RF	4.6	1.17	30.0	82.6
Deltapine DP 444BG/RR	4.6	1.10	29.1	84.5
Deltapine DP 555 BG/RR	4.3	1.13	27.4	82.4
Deltapine DP 0924 B2RF	4.4	1.15	29.0	84.2
DP 121 RF	4.9	1.16	32.1	83.5
DP 143 B2RF	4.5	1.12	28.3	82.7
DP 164 B2RF	4.5	1.12	28.4	81.9
Dyna Gro 2520 B2RF	4.5	1.17	30.3	85.0
Dyna Gro DG 2570 B2RF	4.4	1.14	29.0	84.1
Fiber Max FM 1740B2F	4.8	1.16	29.8	84.1
Fiber Max FM 960BR	4.5	1.14	30.7	83.6
Deltapine DP 0935 B2RF	4.4	1.13	29.2	83.5
PHY 315 RF	4.3	1.09	28.1	82.1
PHY 375 WRF	4.5	1.09	28.9	82.9
PHY 425 RF	4.5	1.16	29.9	83.1
PHY 485 WRF	4.5	1.10	31.3	83.6
PhytoGen PHY 370WR	5.0	1.10	29.8	83.4
ST 4427B2RF	4.9	1.12	28.4	83.7
ST 4554B2RF	4.6	1.11	30.2	83.9
Stoneville ST 4498 B2RF	4.4	1.09	30.0	84.0
Stoneville ST 5599BR	4.8	1.10	30.2	83.3

TABLE 22. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.7	1.16	30.0	82.7
BCSX 0721B2F	4.5	1.15	28.5	81.6
BCSX 0727B2F	4.9	1.11	28.2	81.8
Deltapine DP 161 B2RF	4.9	1.17	29.8	84.1
Deltapine DP 174 RF	4.4	1.16	29.4	83.5
Deltapine DP 444BG/RR	4.1	1.10	29.1	82.9
Deltapine DP 555 BG/RR	3.9	1.12	29.6	81.6
Deltapine DP 0935 B2RF	5.0	1.10	27.5	83.0
DP 164 B2RF	4.0	1.13	28.7	80.1
Fiber Max FM 960BR	4.3	1.11	31.5	81.4
PHY 485 WRF	4.8	1.12	31.3	83.3
ST 5327B2RF	4.7	1.10	28.5	83.2
Stoneville ST 5458 B2RF	5.3	1.16	30.2	82.6
Stoneville ST 5599BR	4.8	1.10	29.2	82.3

TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1532 B2RF	3.7	1.21	27.9	83.2
Americot AM 1550 B2RF	4.1	1.15	26.6	82.8
Americot NG 3331 B2RF	4.3	1.11	28.6	83.8
Americot NG 4370 B2RF	4.0	1.13	28.4	83.6
Americot NG 4377 B2RF	4.1	1.13	27.6	83.8
BCSX 0704B2F	4.1	1.19	28.4	82.5
CG 3020 B2RF	3.4	1.12	25.7	82.6
CG 3520 B2RF	3.6	1.17	26.7	83.9
CG 4020 B2RF	3.9	1.19	26.6	84.1
Croplan Genetics CG 3035 RF	4.3	1.14	27.5	83.1
Croplan Genetics CG 3220 B2RF	4.0	1.17	27.8	83.7
Deltapine DP 141 B2RF	3.8	1.20	29.3	82.7
Deltapine DP 161 B2RF	4.0	1.16	28.8	82.5
Deltapine DP 444BG/RR	3.4	1.15	29.6	83.2
Deltapine DP 555 BG/RR	4.0	1.11	29.1	82.3
Deltapine DP 0924 B2RF	4.4	1.11	29.1	82.9
Deltapine DP 0935 B2RF	3.9	1.13	28.6	83.0
DP 121 RF	4.2	1.16	30.2	83.9
DP 143 B2RF	3.8	1.22	28.3	82.6
DP 164 B2RF	4.5	1.20	30.8	83.1
Dyna Gro 2520 B2RF	3.8	1.19	27.5	83.0
Dyna Gro DG 2570 B2RF	4.2	1.13	27.6	82.9
Fiber Max FM 1740B2F	3.9	1.13	27.1	83.0
Fiber Max FM 960BR	3.7	1.10	29.6	82.5
PHY 315 RF	3.8	1.15	28.3	83.2
PHY 375 WRF	3.8	1.14	27.5	83.1
PHY 425 RF	4.3	1.14	28.0	83.4
PHY 485 WRF	4.2	1.14	29.3	84.0
PhytoGen PHY 370WR	4.2	1.10	28.6	83.5
ST 4427B2RF	3.8	1.11	29.5	83.0
ST 4554B2RF	4.3	1.13	28.5	82.1
Stoneville ST 4498 B2RF	3.8	1.14	29.8	83.0
Stoneville ST 5599BR	4.0	1.13	29.8	82.2

TABLE 24. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON FLEX RR COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.4	1.16	29.5	83.0
BCSX 0721B2F	4.5	1.18	28.8	83.4
BCSX 0727B2F	4.8	1.14	28.1	83.1
Deltapine DP 161 B2RF	4.7	1.20	30.9	84.3
Deltapine DP 174 RF	4.3	1.16	28.0	83.0
Deltapine DP 444BG/RR	4.0	1.15	30.1	84.4
Deltapine DP 555 BG/RR	4.6	1.14	28.8	82.7
Deltapine DP 0935 B2RF	4.6	1.11	26.5	81.0
DP 164 B2RF	4.4	1.16	29.2	82.5
Fiber Max FM 960BR	4.0	1.09	28.0	80.7
PHY 485 WRF	4.6	1.14	29.2	83.9
ST 5327B2RF	4.0	1.11	28.9	82.7
Stoneville ST 5458 B2RF	4.7	1.18	29.9	82.6
Stoneville ST 5599BR	4.5	1.12	29.1	82.8

TABLE 25. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1532 B2RF	4.1	1.18	27.3	84.2
Americot AM 1550 B2RF	4.0	1.15	27.4	83.4
Americot NG 3331 B2RF	4.8	1.11	28.8	84.3
Americot NG 4370 B2RF	4.6	1.12	27.5	83.7
Americot NG 4377 B2RF	4.4	1.13	27.4	84.0
BCSX 0704B2F	4.6	1.23	28.1	84.2
CG 3020 B2RF	4.1	1.13	26.6	85.0
CG 3520 B2RF	4.2	1.16	26.7	83.6
CG 4020 B2RF	4.0	1.21	26.9	84.3
Croplan Genetics CG 3035 RF	4.8	1.13	26.5	84.7
Croplan Genetics CG 3220 B2RF	4.3	1.18	27.3	83.9
Deltapine DP 141 B2RF	4.5	1.22	28.5	83.4
Deltapine DP 161 B2RF	4.6	1.22	30.4	85.1
Deltapine DP 444BG/RR	3.9	1.15	27.5	85.4
Deltapine DP 555 BG/RR	4.4	1.13	28.6	83.2
Deltapine DP 0924 B2RF	4.9	1.11	27.8	84.4
Deltapine DP 0935 B2RF	4.2	1.11	27.9	83.4
DP 07W505DF	4.8	1.13	28.5	83.7
DP 07X440DF	4.4	1.12	24.1	83.3
DP 121 RF	4.8	1.14	28.6	85.2
DP 143 B2RF	4.0	1.25	28.4	83.5
DP 164 B2RF	4.5	1.22	30.1	84.6
Dyna Gro 2520 B2RF	4.1	1.21	26.7	84.2
Dyna Gro DG 2570 B2RF	4.3	1.16	28.5	84.4
Fiber Max FM 1740B2F	4.3	1.15	28.8	84.5
Fiber Max FM 960BR	4.2	1.09	32.6	83.1
PHY 315 RF	3.9	1.14	28.9	83.0
PHY 375 WRF	4.0	1.12	28.6	84.0
PHY 425 RF	4.7	1.16	28.6	84.5
PHY 485 WRF	4.3	1.15	29.0	84.2
PhytoGen PHY 370WR	4.7	1.08	28.6	84.5
ST 4427B2RF	4.2	1.13	29.9	83.1
ST 4554B2RF	4.6	1.14	28.4	84.0
Stoneville ST 4498 B2RF	3.8	1.13	30.6	84.5
Stoneville ST 5599BR	4.8	1.14	28.9	83.6

TABLE 26. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT BELLE MINA, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.6	1.17	25.5	83.8
BCSX 0721B2F	4.7	1.18	27.9	85.2
BCSX 0727B2F	5.0	1.12	26.7	83.3
Deltapine DP 161 B2RF	4.8	1.22	26.4	85.0
Deltapine DP 174 RF	4.3	1.24	28.0	84.3
Deltapine DP 444BG/RR	4.0	1.11	28.0	84.1
Deltapine DP 555 BG/RR	4.5	1.09	28.7	80.5
Deltapine DP 0935 B2RF	4.6	1.13	28.4	83.5
DP 164 B2RF	4.7	1.19	26.8	84.1
Fiber Max FM 960BR	4.5	1.13	31.4	83.5
PHY 485 WRF	4.6	1.15	29.4	84.5
ST 5327B2RF	4.5	1.14	29.4	83.9
Stoneville ST 5458 B2RF	4.8	1.17	31.5	83.4
Stoneville ST 5599BR	5.2	1.08	28.7	83.2

TABLE 27. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED EARLY SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Americot AM 1532 B2RF	4.1	1.15	27.2	81.6
Americot AM 1550 B2RF	4.4	1.12	27.6	82.9
Americot NG 3331 B2RF	4.4	1.14	29.9	83.7
Americot NG 4370 B2RF	4.3	1.12	28.2	83.7
Americot NG 4377 B2RF	4.9	1.13	28.7	83.4
BCSX 0704B2F	4.3	1.18	29.4	83.9
CG 3020 B2RF	3.9	1.13	26.7	84.4
CG 3520 B2RF	4.6	1.14	26.6	82.8
CG 4020 B2RF	3.6	1.16	28.4	82.3
Croplan Genetics CG 3035 RF	4.4	1.16	28.0	84.1
Croplan Genetics CG 3220 B2RF	4.2	1.16	29.2	84.0
Deltapine DP 141 B2RF	4.1	1.25	30.5	83.6
Deltapine DP 161 B2RF	4.2	1.22	31.6	84.6
Deltapine DP 444BG/RR	4.1	1.15	29.3	83.3
Deltapine DP 555 BG/RR	4.2	1.19	29.5	81.6
Deltapine DP 0924 B2RF	4.9	1.14	29.8	83.5
Deltapine DP 0935 B2RF	4.5	1.11	26.1	82.5
DP 121 RF	4.6	1.16	28.4	84.2
DP 143 B2RF	3.9	1.23	28.3	83.1
DP 164 B2RF	4.6	1.22	30.4	85.1
Dyna Gro 2520 B2RF	4.1	1.18	27.9	84.0
Dyna Gro DG 2570 B2RF	5.1	1.16	28.6	84.0
Fiber Max FM 1740B2F	4.3	1.16	30.0	84.3
Fiber Max FM 960BR	4.0	1.11	30.5	82.9
PHY 315 RF	4.3	1.10	28.6	82.7
PHY 375 WRF	4.2	1.14	28.2	83.1
PHY 425 RF	4.6	1.20	29.5	84.3
PHY 485 WRF	4.5	1.11	30.3	83.4
PhytoGen PHY 370WR	4.2	1.09	29.2	83.2
ST 4427B2RF	4.3	1.15	27.2	82.6
ST 4554B2RF	4.1	1.16	28.7	84.1
Stoneville ST 4498 B2RF	4.5	1.15	30.4	84.3
Stoneville ST 5599BR	4.5	1.10	28.6	82.5

TABLE 28. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED FULL SEASON FLEX RR COTTON VARIETIES AT HEADLAND, ALABAMA, 2008.

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
BCSX 0614B2F	4.1	1.20	29.6	85.3
BCSX 0721B2F	4.6	1.19	27.4	84.6
BCSX 0727B2F	4.7	1.13	30.4	83.0
Deltapine DP 161 B2RF	4.4	1.24	31.1	85.2
Deltapine DP 174 RF	4.4	1.23	29.3	84.6
Deltapine DP 444BG/RR	3.8	1.16	30.0	84.4
Deltapine DP 555 BG/RR	4.3	1.14	28.5	82.2
Deltapine DP 0935 B2RF	4.2	1.14	27.7	84.4
DP 164 B2RF	4.2	1.19	29.1	83.1
Fiber Max FM 960BR	4.0	1.13	33.4	83.6
PHY 485 WRF	4.6	1.17	28.9	84.1
ST 5327B2RF	4.6	1.13	28.3	83.6
Stoneville ST 5458 B2RF	4.5	1.18	29.5	83.1
Stoneville ST 5599BR	4.4	1.15	29.7	83.5

TABLE 29. GROWING SEASON RAINFALL, 2006-2008

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	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
	2006	2.0	4.9	4.2	1.8	2.4	2.5	3.1	20.9
Prattville	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
	2006	5.3	2.2	3.1	0.8	3.4	2.5	3.2	20.5
Headland	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
	2006	0.7	1.9	4.1	2.6	2.7	3.5	4.5	20.0
Fairhope	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
	2006	0.4	6.1	3.2	1.3	5.4	7.1	5.3	28.8

TABLE 30. SOIL TYPES FOR 2008 COTTON TRIALS

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

TABLE 31. SOURCES OF SEED FOR THE 2008 COTTON VARIETY TRIALS

Delta and Pine Land Co., Scott, Mississippi

Deltapine DP 444BRR	Deltapine DP 121 RF
Deltapine DP 555BRR	Deltapine DP 174 RF
Deltapine DP 0924 B2RF	Deltapine DP 141 B2RF
Deltapine DP 0935 B2RF	Deltapine DP 143 B2RF
Deltapine DP 07W505DF	Deltapine DP 161B2RF
Deltapine DP 07X440DF	Deltapine DP 164 B2RF

Bayer Crop Sciences, Lubbock, Texas

FiberMax FM 960BR	FiberMax FM 1740B2RF
Stoneville ST 5599BR	BCSX 0704B2F
Stoneville ST 4427B2RF	BCSX 0721B2F
Stoneville ST 4498B2RF	BCSX 0727B2F
Stoneville ST 4554B2RF	
Stoneville ST 5327B2RF	
Stoneville ST 5458B2RF	

PhytoGen Seed Company, Collierville, Tennessee

PhytoGen PHY 315 RF	PhytoGen PHY 425 RF
PhytoGen PHY 370 WR	PhytoGen PHY 485 WRF
PhytoGen PHY 375 WRF	

Americot, Inc., Lubbock, Texas

AM 1532 B2RF	AM 4377 B2RF
AM 1550 B2RF	NG 3331 B2RF
AM 4370 B2RF	

United Agri Products, Kinston, Alabama

DynaGro 2520 B2RF
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	