

2010

Cotton Varieties for Louisiana



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Introduction

Each year, scientists at the LSU AgCenter evaluate cotton varieties at four locations that are representative of Louisiana's cotton production regions. The official variety tests (OVTs) are located at the Red River Research Station near Bossier City, the Dean Lee Research Station near Alexandria, the Macon Ridge Research Station near Winnsboro, and the Northeast Research Station near St. Joseph. Varieties are managed using practices that follow AgCenter recommendations and typify commercial operations as closely as possible. All entries within a trial are replicated four or five times and data are compiled for average performance after one and two-years of testing.

Choosing Varieties

Variety selection is one of the most important decisions a cotton farmer will make for the entire growing season. The variety, and associated traits in that variety, set the stage for harvest at the time of planting. All other input decisions become supplemental after the variety is selected. Variety selection has become increasingly important since the introduction of transgenic cottons and concurrent increases in seed costs and technology fees. Moreover, variety selection is the one decision a producer makes that is not influenced by weather or other environmental factors. Therefore, choosing a high yielding variety with acceptable fiber quality that is adapted to local growing conditions should be given careful consideration because of the tremendous importance of this decision for the entire season.

Choosing a cotton variety can be difficult and the availability of many different transgenic traits complicates the process. The more informed the decision the better; therefore, this publication strives to provide as much information as possible to growers concerning cotton variety performance over a wide range of soil types and conditions. The information reported concerning

measured performance of cotton varieties in Louisiana should be extremely useful as a primary source of information for choosing varieties.

Producers should be mindful that OVTs can never identify the best single variety for all soils and conditions. Producers should always plant multiple varieties – selected from the top performers in the OVTs that are closest to their production region. This decision is one of the best to spread crop management activities and mitigate risk from adverse environmental conditions. There are always differences in performance of individual varieties from one year to the next. However, in most years those among the top 10% of the highest yielding varieties generally remain there for several seasons. So the best variety for a particular farm very likely resides among the top yielders in the OVT, but no one can be certain exactly which of those top yielding varieties will be the highest yielder for the upcoming year. This is actually a good thing because it gives producers the option to select from as many as 5 to 10 varieties with different traits, knowing that any one of those may be the best for next year's crop. The majority of a grower's acreage should be devoted to proven varieties. Newer varieties should be tried on limited acreage until further testing is completed.

Fiber Properties

Fiber quality has become a more important consideration in marketing cotton and choosing varieties. As the domestic textile industry has become very limited, most US cotton is being exported to foreign mills who generally demand cotton with the most consistent and highest quality fiber properties. The quality of Louisiana cotton has been a concern in recent years, particularly with regard to high micronaire. While premiums are small, discounts for high micronaire and other factors can be significant. Variety selection plays the largest role in fiber properties and is increasingly important for US cotton to maintain and increase share in the world market.

Fiber parameters in the OVTs were determined using the same High Volume Instrumentation (HVI) classing system utilized in a USDA classing office. Physical properties including staple length (reported as the upper half mean length or UHM), fiber strength, uniformity index, and micronaire were evaluated and are reported for each variety. Other fiber properties such as leaf, trash and color grades can be influenced by defoliation, ginning and seed cotton storage in modules. OVTs may not be representative of commercial operations for these fiber properties and therefore are not reported in this publication.

Using the Data

Yield should be the primary factor considered when selecting a variety, followed by fiber quality and maturity. Top yielding varieties should be considered first. There is often no statistical difference between the top yielding varieties in a given trial. The least significant difference (LSD) reported below each table is the smallest difference in yield that can be considered a “true” difference. The most important factor is not the absolute number reported for a cotton variety’s yield or fiber quality. The most important question to answer is “How did a variety yield relative to other varieties in the trial”? Another important number to look for is the test average yield. Considering a variety’s performance relative to the average for the entire trial will help identify varieties that are above average at a given location.

Cotton varieties should be chosen by considering their performance across several locations and years of testing. Superior performance in one year can often indicate a good variety, but superior performance over multiple years indicates consistency and reliability. Varieties are currently introduced at a rapid pace and

have shorter life spans than in the past. Data for the newest varieties are often not available for multiple years. For these new varieties that do not yet have multi-year performance records it is best to consider performance averaged across several locations during its first year of testing.

Grower experience with a past variety is important for several reasons. Cotton varieties have different growth habits and can be locally adapted to a small area. Experience with a variety should be considered, but newer varieties that perform well in OVT’s should be considered as well.

Selecting Varieties

The LSU AgCenter identifies the top tier of high yielding varieties at each location by the use of a statistical test called the least significant difference (LSD). A probability level of 5% is used, which means that the test correctly identifies variety performance for that location with 95% certainty. The group of varieties that is statistically the highest yielding is shown in each table in bold print. To identify promising varieties that are new to the market and which have only one year of testing in the OVTs, a multi-location analysis is performed. New entries that yielded within one LSD_{0.05} of the top yielding entry in the across location analysis are in bold print.

The following table lists (alphabetically) all early and medium maturity varieties that are among the top varieties in yield performance in the 2008 OVT’s at one or more locations. Not all varieties are included in the top yielding tier at all locations; therefore producers should review the data tables for variety performance at the closest location that is most representative of their individual farms and also review the statewide multi-location yield averages for consistency of performance over a range of environments.



Americot AM 1550 B2RF	FiberMax 1740 B2F FiberMax 1773 LLB2 FiberMax 1845 LLB2	Seed Tec Genetics CT 210
Bayer Crop Sci. BCSX 1010LLB2 Bayer Crop Sci. BCSX 1035LLB2	LA 1110035 RS	Stoneville 4288 B2F Stoneville 5288 B2F Stoneville 5458 B2RF
CG 3220B2RF	PHX 5922 WRF	
Dynagro DG 2570 B2RF	Phytogen 315RF Phytogen 367WRF Phytogen PHY 370 WR Phytogen PHY 375 WRF Phytogen PHY 425 WRF Phytogen PHY 485 WRF Phytogen 525 RF Phytogen 565 WRF Phytogen 569 WRF	
Deltapine 141 B2RF Deltapine 174 RF Deltapine 0912 B2RF Deltapine 0920 B2RF Deltapine 0924 B2RF Deltapine 0935 B2RF Deltapine 0949 B2RF		

Transgenic Traits

Roundup Ready. Transgenic lines are available for glyphosate tolerance, usually indicated as Roundup Ready ('R' or 'RR') or Roundup Ready Flex ('RF' or 'F'). The Flex varieties have been commercially available since 2006 and after this year will completely replace all Roundup Ready varieties. Roundup Ready Flex varieties exhibit increased tolerance, particularly in the fruiting stage, to glyphosate applications. Roundup Ready Flex labeling allows over-the-top applications of glyphosate to Roundup Ready Flex varieties into the bloom stage and does not restrict contact with the stem for directed applications. Read and follow the label closely for specific restrictions. Moreover, growers should consult the label for specific glyphosate formulations for permitted use on Roundup Ready Flex varieties. The Roundup Ready varieties that you have grown accustomed to will still have the label restrictions for glyphosate applications.

Weed control is a major factor in producing high-yielding, high quality cotton. Because of the increased flexibility for applying glyphosate over-the-top to Roundup Ready Flex varieties, some growers may opt to wait until weeds emerge and get some size before making applications. This is not recommended, particularly for early season weed control. Early weed competition can severely reduce yield. Glyphosate is very effective on a wide range of species, particularly when they are small. Applications should therefore be timed to weed size and not other factors. Moreover, reliance on one mode of action for weed control is not

recommended and has lead to herbicide resistant weeds. Because of the concerns with glyphosate-resistant weeds, the use of other herbicides in addition to glyphosate in Roundup Ready Flex cotton is strongly encouraged. Consult the LSU AgCenter's 2010 "Controlling Weeds in Cotton" for more information on controlling weeds in Roundup Ready Flex cotton.

Liberty link. Varieties with the designation 'LL' in their brand name are transgenic varieties tolerant to over-the-top applications of Ignite 280 or Ignite (glufosinate). These varieties can be managed in a Liberty Link weed control program, which is covered in more detail in the LSU AgCenter's 2010 "Controlling Weeds in Cotton" publication. Liberty Link cotton is tolerant to Ignite, but will be injured by applications or drift of glyphosate. On farms or in areas where Liberty Link cotton is grown near Roundup Ready or Roundup Ready Flex cotton, care should be taken to avoid confusion of the herbicide systems and reduce the potential for mistaken applications or drift.

Bollgard and Bollgard 2. Varieties with the designation 'B', 'BG', 'B2', or 'BG2' in their brand name are cotton lines that are tolerant to the Louisiana caterpillar pest, tobacco budworm. These varieties should not need any supplemental insecticide sprays for control of this pest. Varieties with the Bollgard 2 (B2, BG2) traits are also tolerant to the bollworm, soybean looper, and beet armyworm. For these and other caterpillar pests, beware that under high and persistent populations, supplemental chemical control strategies will be necessary to provide

satisfactory management. In addition, the insecticidal traits in Bollgard and Bollgard 2 varieties have no activity against non-caterpillar pests (thrips, aphids, plant bugs, stink bugs, spider mites) and those pests must be managed with conventional IPM practices.

WideStrike. PhytoGen varieties with the designation ‘W’ or ‘WS2’ in their brand name are cotton lines that are tolerant to the Louisiana caterpillar pests, tobacco budworm and fall armyworm. These varieties should not need any supplemental insecticide sprays for control of these pests. The other characteristics and insect management recommendations previously mentioned for Bollgard and Bollgard 2 traits remain the same for the WideStrike trait in PhytoGen varieties.

Seeding Rate and Stand

Two to three plants per row foot is the ideal final plant population in 30- to 40-inch rows. To achieve this population, seeding rates should be slightly higher based on the actual stated germination. Seed size varies and the seed number per pound of seed ranges from a low of 3700 up to a high of 5800; therefore seeding rates have to be based on seed number per acre and not pounds of seed per acre. To ensure the best seedling emergence, planting should be scheduled during the most favorable conditions possible for existing and forecasted temperature and soil moisture.

Approximate number of seed per pound of selected cotton varieties.			
Variety	Seed/lb	Variety	Seed/lb
DP 0912B2RF	4,600	PHY 375 WRF	4,800
DP 0920B2RF	5,000	PHY 485 WRF	4,850
DP 0924B2RF	4,800	PHY 565 WRF	5,000
DP 0935B2RF	5,000	PHY 367 WRF	4,900
DP 0949B2RF	5,000	PHY 370 WR	4,800
DP 141B2RF	5,045	PHX 5922 WRF	5,000
DP 143B2RF	5,011	ST 4288 B2RF	3,982
DP 161B2RF	5,383	ST 4427 B2RF	4,336
DP 174RF	4,784	ST 4498 B2RF	4,776
DP 555BGRR	5,868	ST 4554 B2RF	4,765
FM 1740B2F	4,382	ST 5288 B2F	5,750
FM 1845LLB2	4,049	ST 5458 B2RF	4,108
FM 1773LLB2	4,850		

Most cotton seed sold will have at least an 80% germination reported on the bag. This is the result of the warm germination test. Field conditions, however, are typically more adverse than laboratory tests. The cool germination test can approximate adverse field

conditions and is a measure of seed vigor. Results from the cool germination test are not reported on the bag but can be obtained from the seed company. Growers are encouraged to request this information. Being aware of the results of the cool germination test is more important than determining what is actually a good or bad cool germ. For example, a seed lot with 85% cool germ is more vigorous than one with a 65% cool germ. If the 65% cool germ lot is planted in good, warm conditions, however, overall germination is likely to be as high as the 85% lot. Under adverse conditions, the 85% lot is likely to germinate at a much higher rate than the 65% lot. A somewhat arbitrary division of the cool germ test results is shown in the following table:

COOL GERMINATION %	VIGOR
>80	Excellent
65-80	Good
50-65	Acceptable – plant under good conditions
<50	Poor – most companies will not sell this seed

Remember, a cotton seed is a living organism that is used as delivery mechanism for genetic traits, transgenic technology, and often pesticide seed treatments. Care should be taken to preserve and plant high quality seed to insure adequate plant stand.



Table 1. Two-year performance of early maturing cotton varieties across six Louisiana locations in 2008 and 2009.

Variety	Location						Average Yield
	Alexandria		St. Joseph		Winnsboro		
	Silt Loam	Clay	Silt Loam	Clay	Irrigated	Non-irrig	
	----- lb lint/acre -----						
PHY 370 WR	1217	1144	899	1226	1134	622	1040
ST 4288B2F	1274	1101	-----	-----	1161	606	1036
PHY 375 WRF	1213	1141	907	1147	1079	645	1022
PHY 485 WRF	1272	1074	966	-----	1104	610	1005
DG 2570 B2RF	1149	1192	-----	-----	1077	569	997
ST 4498 B2RF	1196	1136	811	1068	1019	474	951
CG 3220 B2RF	1125	1101	815	1101	981	518	940
DG 2520 B2RF	1140	977	820	1052	969	458	903
CG 3020 B2RF	1070	1064	776	1008	931	510	893
CG 4020 B2RF	1059	1021	873	964	918	490	888
PHY 315 RF‡	979	640	907	1173	1061	552	885
PHY 425 RF‡	789	602	968	1230	1128	521	873
CG 3035 RF‡	897	615	889	1206	1087	531	871
CG 3520 B2RF	1058	978	843	1013	876	442	868
AM 1550 B2RF	1165	1123	-----	-----	1049	562	-----
CT 210	903	716	-----	-----	1080	464	-----
DP 0924 B2RF	1269	1128	-----	-----	-----	-----	-----
FM 1740 B2F	1419	1258	-----	-----	1175	541	-----
ST 5458 B2RF*	1292	1237	-----	-----	1172	600	-----
Mean	1123	1008	873	1016	1049	536	934
LSD_{0.05}	100	119	73	87	91	76	155
CV(%)	8.5	10.5	8.3	6.9	8.6	14.6	36

†Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P = 0.05.

*Full season variety included for comparison.

‡Low yields of non-BT varieties at the Alexandria location in 2009 were related to a combination of extremely high worm infestations and wet weather that prevented timely insecticide applications.

Table 2. One-year performance of early maturing cotton varieties across six Louisiana locations in 2009.

Variety	Location						Average Yield †
	Alexandria		St. Joseph		Winnsboro		
	Silt Loam	Clay	Silt Loam	Clay	Irrigated	Non-irrig	
	----- lb lint/acre -----						
DP 0912 B2RF	1178	1796	906	1209	1073	771	1156
FM 1740 B2F	1136	1783	708	1187	1069	678	1094
ST 5458 B2RF*	966	1794	700	1032	1203	854	1092
DP 0924 B2RF	1077	1564	896	1150	1013	763	1077
DP 0920 B2RF	1086	1690	855	1076	1081	670	1076
PHY 485 WRF	963	1537	894	1022	1174	820	1068
ST 4288 B2F	1010	1574	872	1077	1095	733	1060
DP 0935 B2RF*	898	1627	-----	942	1050	725	1048
BCSX 1035 LLB2	1009	1738	866	986	1154	520	1046
PHY 370 WR	1013	1561	796	1026	1060	809	1044
PHY 375 WRF	1001	1510	835	1031	1065	797	1040
DG 2570 B2RF	840	1697	738	967	1063	740	1008
BCSX 1010 B2F	997	1551	743	960	1054	671	996
PHY 367 WRF	897	1567	663	1005	1019	768	987
AM 1550 B2RF	963	1592	628	984	990	721	980
CG 3220 B2RF	908	1637	725	973	899	675	970
ST 4498 B2RF	924	1541	720	971	946	599	950
CG 3020 B2RF	922	1533	785	856	818	670	931
DG 2520 B2RF	1004	1305	753	900	913	588	911
CG 4020 B2RF	859	1377	773	895	886	661	909
CG 3520 B2RF	884	1376	775	839	872	618	894
PHY 315 RF‡	458	708	834	976	1046	724	791
PHY 425 RF‡	294	616	902	1061	1141	642	776
CG 3035 RF‡	564	655	758	996	1002	644	770
CT 210‡	577	600	819	906	1084	548	756
Mean	897	1437	790	1001	1031	696	977
LSD_{0.05}	119	209	76	82	123	135	194
CV(%)	9.4	10.3	6.8	5.8	8.5	13.8	17

†Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P = 0.05.

*Full season varieties included for comparison.

‡Low lint yields of non-BT varieties at the Alexandria location in 2009 were related to a combination of extremely high worm infestations and wet weather that prevented timely insecticide applications.

Table 3. Two-year performance of medium maturing cotton varieties across six Louisiana locations in 2008 and 2009.

Variety	Location						Average Yield
	Alexandria		St. Joseph		Winnsboro		
	Silt Loam	Clay	Silt Loam	Clay	Irrigated	Non-irrig	
	----- lb lint/acre -----						
DP 174 RF [‡]	971	871	1054	1480	1128	660	1119
ST 5458 B2RF	1265	-----	900	1220	1207	506	1117
DP 141 B2RF	1206	1216	701	1250	1154	593	1113
ST 5288 B2F	1344	1222	-----	-----	1234	576	1094
DP 161 B2RF	1123	1154	865	1207	1043	435	1043
FM 1845 LLB2	1142	1318	-----	-----	1116	481	1014
DP 0935 B2RF	1161	-----	-----	-----	1078	482	907
PHY 525 RF [‡]	-----	543	-----	-----	-----	-----	-----
Mean	1173	1054	887	1290	1137	533	1058
LSD_{0.05}	109	136	85	152	92	59	157
CV(%)	9.0	10.3	8.1	11.0	8.2	11.0	30.0

[†]Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P = 0.05.

[‡]Low lint yields of these non-BT varieties at the Alexandria location in 2009 were related to a combination of extremely high worm infestations and wet weather that prevented timely insecticide applications.

Table 4. One-year performance of medium maturing cotton varieties across six Louisiana locations in 2009.

Variety	Location						Average Yield
	Alexandria		St. Joseph		Winnsboro		
	Silt Loam	Clay	Silt Loam	Clay	Irrigated	Non-irrig	
	----- lb lint/acre -----						
DP 0949 B2RF	1187	1928	696	1153	1023	738	1121
FM 1740 B2F*	1214	1881	666	1215	1106	633	1119
ST 5288 B2F	1122	1683	764	1043	1243	810	1111
DP 0912 B2RF*	998	1779	732	1056	1148	716	1072
ST 5458 B2RF	926	1879	672	991	1118	686	1045
PHX 5922 WRF	1065	1740	594	1075	1069	717	1043
PHY 370 WVR*	995	1761	720	1012	965	725	1030
PHY 565W RF	1005	1494	600	1052	1144	769	1011
DP 141 B2RF	945	1662	367	1015	1098	790	980
DP 174 RF	425‡	960	822	1115	1104	898	980
FM 1845 LLB2	877	1798	663	917	949	596	967
BCSX 1025 LLB2	819	1537	604	942	994	744	940
DP 0935 B2RF	962	1517	602	922	921	631	926
BCSX 1015 LLB2	948	1715	603	855	905	495	920
FM 1773 LLB2	883	1460	660	879	1026	593	917
DP 161 B2RF	904	1612	552	928	815	586	900
BCSX 1010 B2F	921	1363	597	990	861	635	895
LA 1110017	222‡	579	523	985	1037	683	761
PHY 525 RF	285‡	456	620	952	951	806	757
LA 1110035 RS	470‡	648	397	975	937	819	755
Mean	858	1472	622	1004	1174	703	952
LSD0.05	126	220	161	114	126	112	166
CV(%)	10.4	10.6	18.1	8.0	8.7	11.0	29

†Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P = 0.05.

*Early season varieties included for comparison.

‡Low lint yields of non-BT varieties at the Alexandria location in 2009 were related to a combination of extremely high worm infestations and wet weather that prevented timely insecticide applications.

Table A1. Performance of early maturing cotton varieties on Coushatta silt loam at the LSU AgCenter Dean Lee Research Station, Alexandria, LA in 2008 and 2009.

Variety	Lint Yield			Lint %	2009 Fiber Properties			
	2009	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				in.		g/tex	%
DP 0912 B2RF	1178	-----	-----	40	1.11	4.95	27.7	82.4
FM 1740 B2F	1136	1703	1419	41	1.16	4.85	28.0	82.8
DP 0920 B2RF	1086	-----	-----	41	1.12	4.75	26.7	82.8
DP 0924 B2RF	1077	1461	1269	39	1.12	4.87	27.8	82.9
PHY 370 WR	1013	1421	1217	41	1.10	4.70	28.3	83.1
ST 4288 B2F	1010	-----	-----	38	1.16	4.70	27.7	82.6
BCSX 1035 LLB2	1009	-----	-----	39	1.15	5.17	29.1	83.5
DG 2520 B2RF	1004	1277	1140	38	1.14	4.42	26.9	82.7
PHY 375 WRF	1001	1425	1213	40	1.13	4.52	27.8	82.7
BCSX 1010 B2F	997	-----	-----	39	1.16	4.40	27.7	82.4
ST 5458 B2RF*	966	1618	1292	40	1.15	4.85	28.1	82.6
AM 1550 B2RF	963	1368	1165	41	1.15	4.70	26.7	82.4
PHY 485 WRF	963	1581	1272	39	1.16	4.50	29.2	83.7
ST 4498 B2RF	924	1468	1196	39	1.11	4.52	30.0	83.0
CG 3020 B2R	922	1218	1070	37	1.10	4.25	26.4	82.0
CG 3220 B2RF	908	1343	1125	39	1.12	4.62	27.0	82.4
DP 0935 B2RF*	898	-----	-----	41	1.13	4.80	27.7	82.6
PHY 367 WRF	897	-----	-----	39	1.14	4.25	29.0	82.2
CG 3520 B2RF	884	1233	1058	36	1.13	4.42	26.8	82.8
CG 4020 B2RF	859	1260	1059	38	1.13	4.40	26.7	82.5
DG 2570 B2RF	840	1459	1149	40	1.12	4.80	27.9	82.6
CT 210 [‡]	577	1244	903	38	1.15	4.15	31.9	83.4
CG 3035 RF [‡]	564	1230	897	40	1.15	3.80	30.3	84.1
PHY 315 RF [‡]	458	1501	979	41	1.16	3.82	28.7	83.5
PHY 425 RF [‡]	294	1284	789	37	1.18	3.75	31.3	84.2
Mean	897	1407	1123	39	1.13	4.51	28.2	82.9
LSD (P=.05)	119	183	100	2.0	0.03	0.25	1.3	0.8
CV	9.4	8.0	8.5	2.9	1.6	3.9	3.2	0.7

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Full season varieties included for comparison.

[†]Planted 4 May 2009. Harvested 3 November 2009.

[‡]Low yields of non-Bt cotton varieties were related to a combination of extremely high worm infestations and wet weather that prevented timely applications of insecticides.

Table A2. Performance of medium maturing cotton varieties on Coushatta silt loam at the LSU AgCenter Dean Lee Research Station, Alexandria, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009 †	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
FM 1740 B2F*	1214	-----	-----	42	1.15	4.80	28.2	82.4
DP 0949 B2RF	1187	-----	-----	42	1.18	4.40	29.6	83.2
ST 5288 B2F	1122	-----	-----	40	1.16	4.70	28.9	83.2
PHX 5922 WRF	1065	-----	-----	40	1.18	4.22	31.9	84.0
PHY 565 WRF	1005	-----	-----	40	1.18	3.97	30.6	83.0
DP 0912 B2RF*	998	-----	-----	38	1.12	4.97	28.1	82.9
PHY 370 WRF*	995	-----	-----	41	1.15	4.45	29.0	83.0
DP 0935 B2RF	962	1360	1161	41	1.14	4.60	28.0	82.4
BCSX 1015 LLB2	948	-----	-----	38	1.24	4.75	29.1	83.3
DP 141 B2RF	945	1467	1206	39	1.18	4.22	28.9	82.6
ST 5458 B2RF	926	1605	1265	41	1.15	4.72	28.5	82.0
BCSX 1010 B2F	921	-----	-----	41	1.17	4.52	28.3	82.7
DP 161 B2RF	904	1342	1123	38	1.17	4.37	29.5	83.0
FM 1773 LLB2	883	-----	-----	38	1.21	4.77	29.7	83.4
FM 1845 LLB2	877	-----	-----	40	1.22	4.77	29.8	84.6
BCSX 1025 LLB2	819	-----	-----	40	1.23	4.62	29.8	84.0
LAI 110035 RS [‡]	470	-----	-----	38	1.25	3.90	33.2	84.9
DP 174 RF [‡]	425	1517	971	41	1.22	3.90	29.5	84.4
PHY 525 RF [‡]	285	-----	-----	39	1.23	3.22	31.2	83.1
LAI 110017 [‡]	222	-----	-----	37	1.24	3.80	33.4	85.6
Mean	858	1215	1173	40	1.19	4.38	29.8	83.3
LSD (P=0.05)	126	163	109	3.0	0.04	0.38	1.5	1.2
CV	10.4	9.5	9.0	5.3	2.2	6.0	3.7	1.0

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Early season varieties included for comparison.

†Planted 4 May 2009. Harvested 3 November 2009.

‡Low yields of non-Bt cotton varieties were related to a combination of extremely high worm infestations and wet weather that prevented timely applications of insecticides.

Table A3. Performance of early maturing cotton varieties on Moreland Clay loam at the LSU AgCenter Dean Lee Research Station, Alexandria, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 0912 B2RF	1796	-----	-----	40	1.13	4.72	27.5	82.4
ST 5458 B2RF*	1794	679	1237	40	1.17	4.85	28.5	82.9
FM 1740 B2F	1783	732	1258	40	1.17	4.77	28.3	83.4
BCSX 1035 LLB2	1738	-----	-----	39	1.16	5.22	29.5	84.0
DG 2570 B2RF	1697	688	1192	40	1.14	4.70	28.1	82.8
DP 0920 B2RF	1690	-----	-----	41	1.16	4.55	27.4	83.0
CG 3220 B2RF	1637	565	1101	39	1.16	4.55	27.8	83.0
DP 0935 B2RF*	1627	-----	-----	41	1.13	4.47	27.0	82.6
AM 1550 B2RF	1592	654	1123	41	1.12	4.57	26.2	82.8
ST 4288 B2F	1574	-----	-----	38	1.16	4.77	27.3	82.7
PHY 367 WRF	1567	-----	-----	39	1.16	4.35	28.6	82.9
DP 0924 B2RF	1564	692	1128	39	1.13	4.7	28.0	82.6
PHY 370 WR	1561	727	1144	41	1.13	4.77	28.1	82.9
BCSX 1010 B2F	1551	-----	-----	39	1.15	4.42	26.0	81.9
ST 4498 B2RF	1541	732	1136	39	1.13	4.47	29.4	83.0
PHY 485 WRF	1537	612	1074	38	1.18	4.52	29.1	83.7
CG 3020 B2R	1533	595	1064	37	1.37	4.10	26.3	82.8
PHY 375 WRF	1510	773	1141	40	1.16	4.37	26.8	82.5
CG 4020 B2RF	1377	666	1021	38	1.16	4.27	26.9	82.8
CG 3520 B2RF	1376	581	978	36	1.16	4.35	27.0	82.8
DG 2520 B2RF	1305	649	977	38	1.17	4.17	26.8	82.4
PHY 315RF [‡]	708	572	640	40	1.16	4.52	26.6	82.9
CG 3035 RF [‡]	655	575	615	40	1.13	4.42	26.9	82.1
PHY 425 RF [‡]	616	588	602	37	1.15	4.95	28.9	83.5
CT 210 [‡]	600	833	716	37	1.14	4.37	26.7	82.0
Mean	1437	662	1008	39	1.15	4.6	27.6	82.8
LSD (P=.05)	209	152	119	1.5	0.02	0.2	0.9	0.8
CV	10.3	14.1	10.5	2.7	1.4	2.9	2.3	0.7

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05. *Full season varieties included for comparison.

[†]Planted 24 April 2009. Harvested. 30 September 2009.

[‡]Low yields of non-Bt cotton varieties were related to a combination of extremely high worm infestations and wet weather that prevented timely applications of insecticides.

Table A4. Performance of medium maturing cotton varieties on Moreland Clay loam at the LSU AgCenter Dean Lee Research Station, Alexandria, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009 †±	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 0949 B2RF	1928	-----	-----	42	1.18	4.60	28.0	83.2
FM 1740 B2F*	1881	-----	-----	42	1.15	4.75	27.7	82.9
ST 5458 B2RF	1879	653	1266	42	1.15	4.85	27.8	82.5
FM 1845 LLB2	1798	-----	-----	40	1.22	4.72	28.7	83.9
DP 0912 B2RF*	1779	-----	-----	40	1.13	4.80	27.7	82.9
PHY 370 WR*	1761	-----	-----	41	1.13	4.72	27.9	83.1
PHX 5922 WRF	1740	-----	-----	40	1.15	4.52	29.7	82.8
BCSX 1015 LLB2	1715	-----	-----	38	1.23	4.60	27.1	82.6
ST 5288 B2F	1683	-----	-----	41	1.17	4.50	26.7	82.5
DP 141 B2RF	1662	770	1216	39	1.22	4.20	26.7	82.0
DP 161 B2RF	1612	695	1154	38	1.20	4.30	28.2	82.8
BCSX 1025 LLB2	1537	-----	-----	41	1.22	4.40	27.0	82.4
DP 0935 B2RF	1517	-----	-----	41	1.15	4.20	26.4	82.0
PHY 565 WRF	1494	-----	-----	40	1.19	4.22	29.7	83.1
FM 1773 LLB2	1460	-----	-----	38	1.23	4.67	28.6	83.4
BCSX 1010 B2F	1363	-----	-----	38	1.18	4.45	26.8	82.7
DP 174 RF±	960	782	871	44	1.17	4.67	26.0	82.9
LA1110035 RS±	648	-----	-----	38	1.21	4.65	28.0	83.5
LA1110017±	579	-----	-----	37	1.22	4.60	28.6	84.3
PHY 525 RF±	456	630	543	39	1.18	4.27	27.5	82.1
Mean	1472	714	1054	40	1.18	4.54	27.7	82.9
LSD (P=.05)	220	143	136	1.3	0.02	0.21	0.9	0.7
CV	10.6	12.1	10.3	2.4	1.4	3.2	2.4	0.6

†Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

Planted 24 April 2009. Harvested 30 September 2009.

‡Low yields of non-Bt cotton varieties were related to a combination of extremely high worm infestations and wet weather that prevented timely applications of insecticides.

Table W1. Performance of early maturing cotton varieties on irrigated Gigger silt loam at the LSU AgCenter Macon Ridge Research Station, Winnsboro, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009 [†]	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
ST 5458B2RF*	1203	1142	1172	41	1.12	5.1	27.4	82.5
PHY 485VWRF	1174	1035	1104	39	1.13	5.0	30.1	83.4
BCSX 1035LLB2	1154	-----	-----	39	1.13	5.3	29.7	82.9
PHY 425RF	1141	1115	1128	39	1.14	5.1	29.9	82.9
ST 4288B2F	1095	-----	-----	37	1.15	4.7	27.4	83.1
CT 210	1084	1075	1080	38	1.09	5.0	27.5	81.9
DP 0920B2RF	1081	-----	-----	41	1.10	5.1	26.1	82.7
DP 0912B2RF	1073	-----	-----	39	1.08	5.2	27.2	82.5
FM 1740B2F	1069	1282	1175	41	1.12	4.9	27.8	83.0
PHY 375VWRF	1065	1094	1079	40	1.10	4.7	26.8	82.2
DG 2570B2RF	1063	1092	1077	40	1.10	5.1	28.3	82.6
PHY 370VWR	1060	1209	1134	39	1.09	5.0	29.2	82.8
BCSX 1010 B2F	1054	-----	-----	37	1.13	4.7	25.7	82.0
DP 0935B2RF*	1050	-----	-----	40	1.10	4.9	27.2	82.4
PHY 315RF	1046	1077	1061	41	1.11	4.6	26.8	82.4
PHY 367VWRF	1019	-----	-----	39	1.13	4.4	28.6	83.0
DP 0924B2RF	1013	-----	-----	39	1.08	5.1	28.1	83.0
CG 3035RF	1002	1173	1087	40	1.09	4.9	28.2	82.8
AM 1550B2RF	990	1109	1049	39	1.09	5.0	26.4	82.4
ST 4498B2RF	946	1093	1019	37	1.10	4.6	31.9	83.1
DG 2520B2RF	913	1026	969	38	1.13	4.6	26.3	82.8
CG 3220B2RF	899	1064	981	38	1.10	4.9	27.0	82.4
CG 4020B2RF	886	950	918	37	1.12	4.6	26.9	82.7
CG 3520B2RF	872	881	876	36	1.12	4.5	26.5	82.3
CG 3020B2RF	818	1044	931	35	1.10	4.5	26.5	83.0
Mean	1031	1092	1049	39	1.11	4.9	27.7	82.7
LSD (P=.05)	123	126	91	1.0	0.02	0.1	1.1	0.8
CV	8.5	8.1	8.6	1.9	1.5	2.2	2.8	0.7

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Full season varieties included for comparison.

[†]Planted 29 April 2009. Harvested 29 September 2009.

Table W2. Performance of medium maturing cotton varieties on irrigated Gigger silt loam at the LSU AgCenter Macon Ridge Research Station, Winnsboro, LA in 2008 and 2009

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
ST 5288 B2F	1243	-----	-----	42	1.15	5.0	27.5	82.8
DP 0912 B2RF*	1148	-----	-----	39	1.08	5.3	27.9	82.8
PHY 565 WRF	1144	-----	-----	41	1.17	4.6	30.9	83.7
ST 5458 B2RF	1118	1297	1207	41	1.15	5.1	28.1	82.5
FM 1740 B2F*	1106	-----	-----	41	1.15	4.8	28.5	83.2
DP 174 RF	1104	1151	1128	43	1.16	4.8	28.5	82.9
DP 141B2 RF	1098	1211	1154	39	1.20	4.6	27.8	82.6
PHX 5922 WRF	1069	-----	-----	40	1.15	4.9	30.6	83.2
LA 1110017	1037	-----	-----	37	1.22	4.7	31.9	84.4
FM 1773 LLB2	1026	-----	-----	39	1.20	4.9	28.5	83.3
DP 0949 B2RF	1023	-----	-----	41	1.11	5.0	27.4	82.4
BCSX 1025 LLB2	994	-----	-----	40	1.20	4.6	28.2	83.1
PHY 370 WR*	965	-----	-----	39	1.09	5.0	28.9	82.4
PHY 525 RF	951	-----	-----	42	1.15	4.5	29.2	82.7
FM 1845 LLB2	949	-----	-----	38	1.20	4.8	30.2	84.3
LA 1110035 RS	937	-----	-----	38	1.19	4.7	30.3	84.0
DP 0935B2 RF	921	1234	1078	41	1.10	4.8	27.0	82.8
BCSX 1015 LLB2	905	-----	-----	38	1.21	4.6	26.8	82.7
BCSX 1010 B2F	861	-----	-----	37	1.13	4.8	26.8	82.1
DP 161B2 RF	815	1272	1043	38	1.16	4.9	27.7	83.1
Mean	1021	1174	1137	39.5	1.16	4.8	28.5	83.0
LSD (P=.05)	126	100	92	1.0	0.03	0.1	1.06	0.9
CV	8.7	6.7	8.2	1.86	1.99	2.0	2.64	0.8

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Early season varieties included for comparison.

†Planted 29 April 2009. Harvested 30 September 2009.

Table W3. Performance of early maturing cotton varieties on non-irrigated Gigger silt loam at the LSU AgCenter Macon Ridge Research Station, Winnsboro, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
ST 5458 B2RF*	854	347	600	43	1.11	5.0	28.4	82.5
PHY 485 WRF	820	400	610	39	1.11	4.7	30.9	83.3
PHY 370 WR*	809	436	622	40	1.08	4.8	29.7	82.9
PHY 375 WRF	797	493	645	44	1.08	4.7	27.9	82.2
DP 0912 B2RF	771	-----	-----	42	1.07	4.9	28.2	82.7
PHY 367 WRF	768	-----	-----	41	1.14	4.5	30.7	83.4
DP 0924 B2RF	763	-----	-----	41	1.10	4.9	29.1	83.1
DG 2570 B2RF	740	399	569	41	1.08	4.7	29.8	83.1
ST 4288 B2F	733	-----	-----	42	1.14	4.5	27.9	83.4
DP 0935 B2RF*	725	-----	-----	41	1.11	4.7	29.1	82.9
PHY 315 RF	724	380	552	43	1.09	4.7	27.3	82.2
AM 1550 B2RF	721	404	562	39	1.09	4.4	26.8	82.6
FM 1740 B2F	678	404	541	43	1.10	4.9	27.7	82.7
CG 3220 B2RF	675	361	518	39	1.09	4.8	28.6	83.3
BCSX 1010 B2F	671	-----	-----	40	1.15	4.4	26.7	82.7
CG 3020 B2RF	670	350	510	40	1.09	4.4	27.6	83.2
DP 0920 B2RF	670	-----	-----	41	1.09	4.9	26.5	82.8
CG 4020 B2RF	661	320	490	43	1.12	4.5	26.9	82.6
CG 3035 RF	644	418	531	41	1.08	4.8	29.9	82.6
PHY 425 RF	642	401	521	39	1.12	4.9	30.8	83.1
CG 3520 B2RF	618	266	442	38	1.11	4.6	27.5	82.7
ST 4498 B2RF	599	349	474	38	1.10	4.7	33.5	83.1
DG 2520 B2RF	588	329	458	39	1.10	4.6	27.2	82.6
CT 210	548	381	464	38	1.11	4.3	29.4	82.8
BCSX 1035 LLB2	528	-----	-----	38	1.11	4.7	29.4	82.8
Mean	696	387	536	40.3	1.1	4.7	28.7	82.8
LSD (P=.05)	135	121	76	1.3	0.02	0.2	1.2	0.8
CV	13.8	22.2	14.6	5.7	1.6	3.8	3.0	0.7

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Full season varieties included for comparison.

†Planted 29 April 2009. Harvested 16 September 2009.

Table W4. Performance of medium maturing cotton varieties on non-irrigated Gigger silt loam at the LSU AgCenter Macon Ridge Research Station, Winnsboro, LA in 2008 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2008	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 174 RF	898	424	660	42	1.13	4.7	27.3	83.4
LA 1110035 RS	819	-----	-----	37	1.19	4.4	33.2	83.8
ST 5288 B2F	810	-----	-----	40	1.09	5.3	28.5	81.7
PHY 525 RF	806	-----	-----	38	1.16	4.4	31.4	82.7
DP 141 B2RF	790	396	593	38	1.17	4.6	28.4	82.5
PHY 565 WRF	769	-----	-----	38	1.13	4.8	31.8	82.9
BCSX 1025 LLB2	744	-----	-----	38	1.19	4.3	28.7	83.3
DP 0949 B2RF	738	-----	-----	40	1.11	5.0	29.9	82.3
PHY 370 WR*	725	-----	-----	38	1.01	5.5	30.0	82.9
PHX 5922 WRF	717	-----	-----	38	1.09	4.7	31.0	83.6
DP 0912 B2RF*	716	-----	-----	38	1.08	4.9	28.1	82.6
ST 5458 B2RF	686	327	506	40	1.11	5.2	28.5	82.6
LA 1110017	683	-----	-----	35	1.20	4.4	33.2	84.3
BCSX 1010 B2F	635	-----	-----	38	1.14	4.5	26.6	82.6
FM 1740 B2F*	633	-----	-----	39	1.12	5.2	29.8	83.5
DP 0935 B2RF	631	334	482	38	1.11	4.9	28.9	82.8
FM 1845 LLB2	596	-----	-----	37	1.18	4.6	31.0	84.1
FM 1773 LLB2	593	-----	-----	37	1.19	4.6	30.3	83.0
DP 161 B2RF	586	285	435	36	1.15	4.9	29.9	82.9
BCSX 1015 LLB2	495	-----	-----	35	1.20	4.1	28.3	83.5
Mean	703	331	533	38	1.14	4.7	29.6	83.0
LSD (P=.05)	112	95	59	0.9	0.03	0.4	1.2	0.7
CV	11	20.2	11.0	1.7	1.61	5.8	2.7	0.6

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Early season varieties included for comparison.

†Planted 29 April 2009. Harvested 16 September 2009.

Table SJI. Performance of early maturing cotton varieties on Commerce silt loam at the LSU AgCenter Northeast Research Station, St. Joseph, LA in 2007 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2007 [‡]	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 0912 B2RF	906	-----	-----	39	1.11	4.9	28.0	82.4
PHY 425 RF	902	1034	968	37	1.17	4.6	30.4	83.6
DP 0924 B2RF	896	-----	-----	39	1.09	4.8	27.4	82.2
PHY 485 WRF	894	1037	966	38	1.15	4.5	30.5	83.0
ST 4288 B2F	872	-----	-----	38	1.16	4.7	28.1	82.5
BCSX 1035 LLB2	866	-----	-----	39	1.14	4.8	30.7	83.3
DP 0920 B2RF	855	-----	-----	40	1.12	4.5	26.9	82.9
PHY 375 WRF	835	978	907	39	1.12	4.3	27.7	82.9
PHY 315 RF	834	980	907	40	1.14	4.4	28.2	82.5
CT 210	819	-----	-----	39	1.12	4.7	28.7	82.3
PHY 370 WR	796	1001	899	39	1.12	4.6	29.3	82.8
CG 3020 B2RF	785	767	776	36	1.12	4.3	27.1	82.9
CG 3520 B2RF	775	911	843	37	1.13	4.3	27.7	83.3
CG 4020 B2RF	773	972	873	38	1.15	4.3	27.1	82.7
CG 3035 RF	758	1020	889	40	1.12	4.6	28.4	82.8
DG 2520 B2RF	753	886	820	36	1.15	4.5	27.0	82.8
BCSX 1010 B2F	743	-----	-----	36	1.15	4.3	28.1	83.0
DG 2570 B2RF	738	-----	-----	39	1.13	4.6	29.1	82.7
CG 3220 B2RF	725	905	815	38	1.12	4.6	27.9	83.1
ST 4498 B2RF	720	901	811	38	1.13	4.5	31.8	83.2
FM 1740 B2F	708	-----	-----	41	1.16	4.6	28.4	83.3
ST 5458 B2RF*	700	-----	-----	38	1.18	4.5	29.9	82.8
PHY 367 WRF	663	-----	-----	38	1.15	4.3	29.7	82.5
AM 1550 B2RF	628	-----	-----	37	1.11	4.6	27.3	82.9
DP 0935 B2RF*	-----	-----	-----	39	1.12	4.9	27.7	82.0
Mean	790	945	873	38	1.13	4.6	28.5	82.8
LSD (P=.05)	76	123	73	1.3	0.03	0.2	1.1	0.7
CV	6.8	8.3	8.3	2.4	1.7	3.6	2.8	0.6

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Full season varieties included for comparison.

†Planted 24 April 2009. Harvested 26 October and 2nd pick on 11 November 2009.

‡2007 yields were used to calculate the 2-yr. avg. because 2008 trials were damaged by Hurricane Gustav.

Table SJ2. Performance of medium maturing cotton varieties on Commerce silt loam at the LSU AgCenter Northeast Research Station, St. Joseph, LA in 2007 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2007 [‡]	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 174 RF	822	1229	1025	40	1.21	4.3	28.3	83.1
ST 5288 B2F	764	-----	-----	40	1.15	4.6	28.3	81.9
DP 0912 B2RF*	732	-----	-----	38	1.09	4.8	27.6	82.6
PHY 370 WR*	720	-----	-----	38	1.10	4.7	28.9	82.5
DP 0949 B2RF	696	-----	-----	40	1.14	4.6	29.0	82.9
ST 5458 B2RF	672	1127	900	39	1.17	4.4	29.1	82.4
FM 1740 B2F*	666	-----	-----	39	1.19	4.6	29.4	83.4
FM 1845 LLB2	663	-----	-----	36	1.23	4.5	30.0	83.6
FM 1773 LLB2	660	-----	-----	38	1.21	4.5	29.2	82.8
PHY 525 RF	620	-----	-----	39	1.21	3.5	30.3	82.3
BCSX 1025 LLB2	604	-----	-----	38	1.22	4.2	29.6	82.6
BCSX 1015 LLB2	603	-----	-----	36	1.25	4.4	28.4	82.1
DP 0935 B2RF	602	-----	-----	39	1.14	4.6	28.7	82.0
PHY 565 WRF	600	-----	-----	40	1.20	3.8	30.6	82.8
BCSX 1010 B2F	597	-----	-----	36	1.16	4.2	29.1	83.0
PHX 5922 WRF	594	-----	-----	48	1.16	4.1	29.7	83.0
DP 161 B2RF*	552	1100	826	37	1.16	4.2	29.2	82.8
LA 1110017	523	-----	-----	35	1.23	4.1	31.4	84.1
LA 1110035 RS	397	-----	-----	35	1.25	4.2	31.5	83.8
DP 141 B2RF	367	1035	701	37	1.22	3.6	29.6	82.6
Mean	622	1002	887	40	1.18	4.3	29.4	82.8
LSD (P=.05)	161	159	85	0.7	0.02	0.3	1.1	0.7
CV	18.1	10.0	8.1	1.2	1.2	4.2	2.7	0.6

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Early season varieties included for comparison.

†Planted 24 April 2009. Harvested 28 October and 2nd pick on 14 November 2009.

‡2007 yields were used to calculate the 2-yr. avg. because 2008 trials were damaged by Hurricane Gustav.

Table SJ3. Performance of early maturing cotton varieties on Sharkey clay at the LSU AgCenter Northeast Research Station, St. Joseph, LA. in 2007 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2007 [‡]	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
DP 0912 B2RF	1209	-----	-----	41	1.09	4.8	28.2	82.8
FM 1740 B2F	1187	-----	-----	42	1.14	4.3	29.0	83.3
DP 0924 B2RF	1150	-----	-----	42	1.10	4.6	28.8	82.8
ST 4288 B2F	1077	-----	-----	40	1.13	4.5	28.2	82.6
DP 0920 B2RF	1076	-----	-----	42	1.12	4.5	26.8	82.6
PHY 425 RF	1061	1398	1230	40	1.13	4.8	29.9	83.6
ST 5458 B2RF*	1032	-----	-----	41	1.14	4.5	29.6	83.0
PHY 375 WRF	1031	1264	1147	42	1.11	4.2	27.3	82.4
PHY 370 WR*	1026	1427	1226	41	1.09	4.6	28.7	83.2
PHY 485 WRF	1022	1408	-----	39	1.14	4.6	30.0	83.1
PHY 367 WRF	1005	-----	-----	41	1.14	4.2	28.7	82.9
CG 3035 RF	996	1417	1206	42	1.13	4.5	28.8	83.1
BCSX 1035 LLB2	986	-----	-----	40	1.12	4.9	30.0	83.1
AM 1550 B2RF	984	-----	-----	41	1.09	4.4	27.2	82.6
PHY 315 RF	976	1370	1173	42	1.12	4.2	27.6	82.2
CG 3220 B2RF	973	1229	1101	41	1.14	4.6	28.5	83.3
ST 4498 B2RF	971	1165	1068	41	1.11	4.3	31.4	83.4
DG 2570 B2RF	967	-----	-----	42	1.11	4.5	29.1	83.2
BCSX 1010 B2F	960	-----	-----	38	1.16	4.3	28.2	82.9
DP 0935 B2RF*	942	-----	-----	42	1.12	4.6	28.0	82.4
CT 210	906	-----	-----	41	1.11	4.5	29.1	82.1
DG 2520 B2RF	900	1204	1052	39	1.14	4.3	26.9	83.0
CG 4020 B2RF	895	1034	964	39	1.15	4.3	27.3	83.3
CG 3020 B2RF	856	1160	1008	37	1.12	4.1	27.0	82.6
CG 3520 B2RF	839	1187	1013	39	1.14	4.4	27.8	83.7
						0.2	1.0	0.7
Mean	1001	1305	1016	41	1.12	4.5	28.5	82.9
LSD (P=.05)	82	228	87	0.7	0.02	0.2	1.0	0.7
CV	5.8	9.6	6.9	1.4	1.3	2.4	2.4	0.6

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Full season varieties included for comparison.

†Planted 24 April 2009. Harvested 19 November 2009.

‡2007 yields were used to calculate the 2-yr. avg. because 2008 trials were damaged by Hurricane Gustav.

Table SJ4. Performance of medium maturing cotton varieties on Sharkey clay at the LSU AgCenter Northeast Research Station, St. Joseph, LA in 2007 and 2009.

Variety	Lint Yield			Lint	2009 Fiber Properties			
	2009	2007 [‡]	2 yr. avg		Length UHM	Micronaire	Strength	Uniformity
	----- lb/ac -----				%	in.		g/tex
FM 1740 B2F*	1215	-----	-----	42	1.14	4.4	29.1	83.2
DP 0949 B2RF	1153	-----	-----	43	1.15	4.6	30.0	83.3
DP 174 RF	1115	1783	1449	43	1.18	4.3	28.4	83.4
PHX 5922 WRF	1075	-----	-----	41	1.13	4.3	30.7	83.5
DP 0912 B2RF*	1056	-----	-----	41	1.12	4.7	28.8	83.0
PHY 565 WRF	1052	-----	-----	42	1.16	3.9	30.7	83.2
ST 5288 B2F	1043	-----	-----	41	1.14	4.3	28.3	82.3
DP 141 B2RF	1015	1485	1250	39	1.20	3.8	29.3	82.5
PHY 370 WR*	1012	-----		41	1.11	4.4	28.7	82.6
ST 5458 B2RF	991	1542	1266	40	1.15	4.5	29.2	82.7
BCSX 1010 B2F	990	-----	-----	38	1.16	4.3	28.7	83.5
LA 1110017	985	-----	-----	39	1.21	4.3	31.7	84.2
LA 1110035 RS	975	-----	-----	39	1.22	4.4	30.6	84.2
PHY 525 RF	952	-----	-----	42	1.19	3.7	30.6	83.6
BCSX 1025 LLB2	942	-----	-----	41	1.21	4.1	29.4	83.7
DP 161 B2RF	928	1487	1207	40	1.19	4.2	29.6	83.6
DP 0935 B2RF	922	-----	-----	42	1.13	4.4	28.1	82.8
FM 1845 LLB2	917	-----	-----	39	1.20	4.3	30.5	83.9
FM 1773 LLB2	879	-----	-----	40	1.20	4.5	29.3	82.8
BCSX 1015 LLB2	855	-----	-----	39	1.24	4.3	28.5	83.4
Mean	1004	1458	1290	40	1.17	4.3	29.5	83.3
LSD (P=.05)	114	263	152	1.0	0.02	0.2	0.9	0.8
CV	8.0	9.0	11.0	1.1	1.4	3.4	2.2	0.7

Lint yields in bold type within a column are not significantly different from the highest yielding variety based on the Least Significant Difference Test at P= 0.05.

*Early season varieties included for comparison.

†Planted 24 April 2009. Harvested 12 November 2009.

‡2007 yields were used to calculate the 2-yr. avg. because 2008 trials were damaged by Hurricane Gustav.

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