



Mississippi **COTTON**

VARIETY TRIALS, 2010



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This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted under project number 171600 at the Delta Research and Extension Center in Stoneville, Mississippi, and several other locations in the state. It is intended for the use of colleagues, cooperators, and sponsors. The interpretation of data presented herein may change after additional experimentation. Information included herein is not to be construed either as a recommendation for use or as an endorsement of a specific product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station. Trade names of commercial products used in this report are included only for clarity and understanding. All available names (trade names, chemical names, experimental product code names or numbers, etc.) of products used in this research project are listed in the tables contained in this report.

2010 Mississippi Cotton Variety Trials

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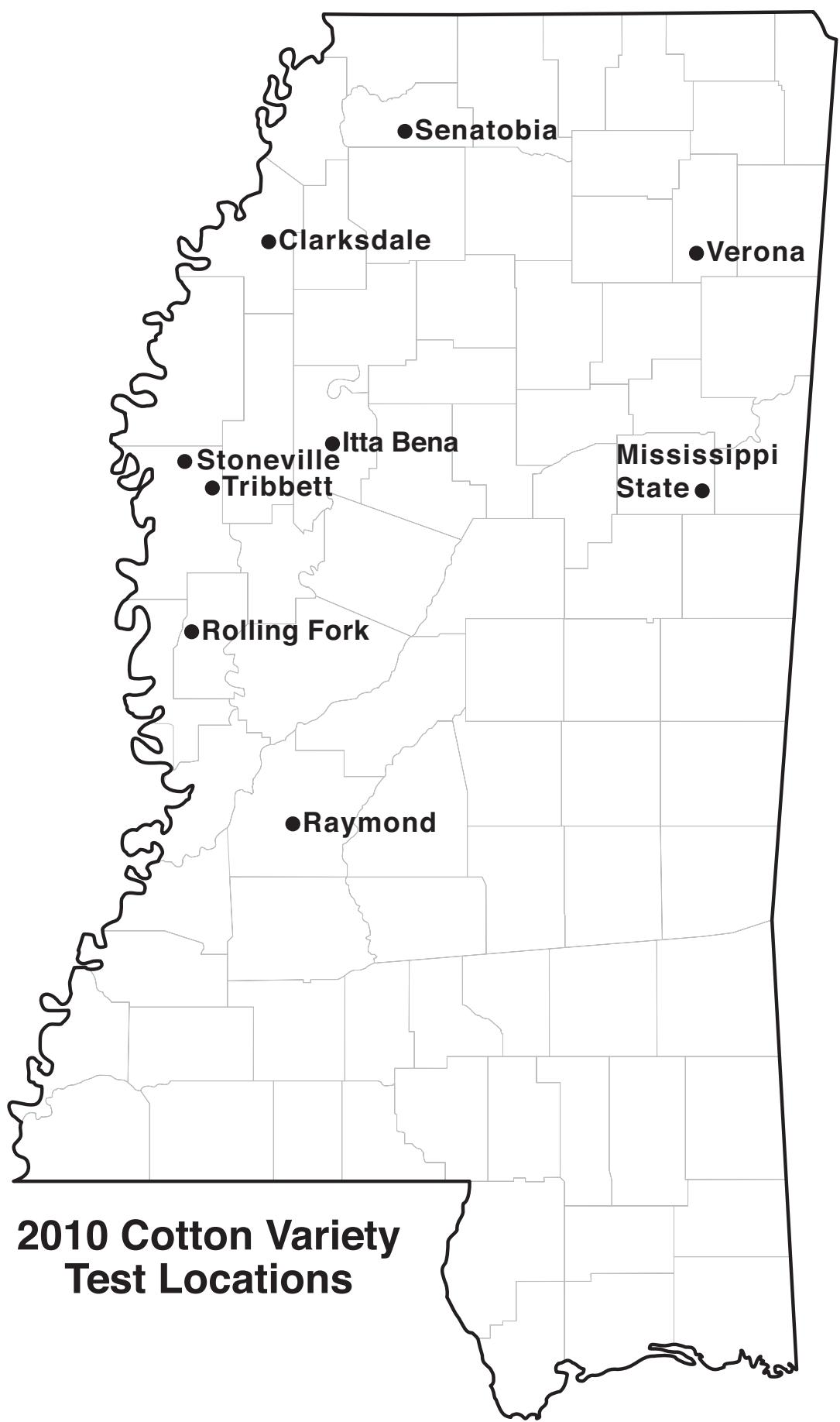
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ACKNOWLEDGMENT:

Most of the variety trial locations are on research stations throughout the state. Trials that are planted on commercial farms give an added dimension to the results. While on-farm trials present logistical obstacles to researchers and to producer-cooperators, data from these trials give an important indication of how varieties will perform in real world situations. The authors wish to express their appreciation to Robert Sullivan and Jim Nichols of the Cotton Improvement Program at Delta Research and Extension Center for their technical assistance, Mark Silva for providing weather information, Dr. Dennis Rowe for his statistical assistance, and also to the Mississippi cotton producers who allowed us to conduct these variety trials on their farms and often put up with the aggravation of farming around small-plot research:

George Perry, Senatobia Cliff Heaton, Clarksdale
Clark Carter, Rolling Fork Ray Makamson, Itta Bena



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Introduction

Variety selection is one of the first decisions a cotton producer makes each season, and perhaps the single most important. Results from this research are intended to be an aid in making this crucial decision. Certain data will also be of interest to ginners, millers, and other sectors of the cotton industry. Results are reported for varieties submitted by cottonseed companies wishing to participate in the trial.

All varieties, regardless of technology present, were grown in tests following University recommended agronomic practices, included conventional chemical control of insects and weeds. Tests were designed to estimate variety yield potential and not potential advantages offered by transgenic traits or a particular “production system”.

In all tests, seed of each variety was supplied by the company that desired to participate in the trial. The on-farm cooperators determined planting dates, fertilizer rates, amount of supplemental irrigation, defoliation date, insect, and weed control strategies, and harvest date. Test results represent growing and environmental conditions where they were conducted in the state, and these results will aid producers in selecting varieties best suited for their growing conditions.

Varieties submitted for testing were divided into two groups: Cotton Variety Trial (CVT) and New Entry Test. The CVT was comprised of thirty-one varieties and was grown at five Delta region locations (Stoneville, Itta Bena, Clarksdale, Rolling Fork, Tribbett,) and four Hill region locations (MS. State, Senatobia, Raymond, and Verona). The New Entry Test was comprised of eighteen varieties and was grown at four locations: Stoneville, Tribbett, MS. State, and Verona. The New Entry Test provides for the evaluation of varieties not previously tested in the Mississippi Cotton Variety Trials but are scheduled for commercial release within one year. Commercial varieties PHY 375 WRF, DP 0912 B2RF, and ST 5458B2RF were included as common “check” varieties in all trials.

All test plots consisted of two rows, 40 feet in length, with a row spacing of 38 or 40 inches. Experimental design for each trial consisted of a Randomized Complete Block with 4 replications. Estimation of lint percentage, boll size (seed cotton weight in grams per boll), seed index (weight in grams of 100 fuzzy seed), and fiber properties was based upon a hand-picked 50-boll sample from 4 replications at each location. Samples were ginned on a 10-saw laboratory type gin. HVI fiber property determinations were made by Starlab, Inc., Knoxville, TN. Yield determinations were based on the weight of seed cotton mechanically harvested from two-row plots and lint percentage estimates from hand-picked boll samples. The Cotton Loan Evaluation Program (Falconer and Reeves, 2010) was used to estimate Gross Return value.

Summary statistics are presented at the bottom of tables for individual locations to aid in interpreting test results. Despite efforts to provide a uniform test environment, all experiments are subject to a certain degree of error due to variation between plots arising from differences in soil type, fertility, insect damage, weed pressure, etc. Therefore, yield potential (and performance with respect to other characteristics) cannot

be measured with complete accuracy. By conducting replicated trials, we can account for, or remove some, but not all of the effect of non-uniform conditions among plots. As a result, the mean performance of some varieties may be numerically different, but not statistically different when variability in the test is taken into account. The Least Significant Difference (LSD) value estimates the smallest difference between two varieties that should be considered something other than natural variation. For example, if the LSD for lint yield in a given trial is 80 lb/A, varieties that differ by less than 80 lb/A should not be considered significantly different.

The coefficient of variation (CV) is a measure of relative precision of a given trial and is generally considered to be an estimate of the variation about the means in that trial. In general, the higher the CV value, the less precise a given trial. The R² value is another measure of relative precision. The higher the R² value, the more precise a given trial is.

For results across locations, averages were presented without statistics. Due to differences in soil texture, rainfall, and management inputs among different CVT locations, varieties did not respond similarly at each location. This resulted in significant variety by location interactions for several traits. Therefore, statistics are presented for individual locations only.

Results and Conclusions

2010 was a hot dry year. With the exception of the Verona location, rainfall was below normal. With light rains occurring in May, the variety trial locations were planted on time and stands were established. Once stands were established, there were abnormally hot temperatures and dry conditions during the growing season. These conditions resulted in very fast boll development and early cut-out. The end of September and October had little or no rainfall resulting in excellent harvest conditions, and harvests were completed earlier than normal. Plant bugs and spider mites were difficult to control at several locations, and particularly so at Stoneville where more than 10 applications were made in an attempt to control these pests. No insecticide treatments were applied at Raymond due to circumstances beyond our control.

A given variety may perform extremely well or extremely poorly due either to chance variation or response to environmental conditions in that particular site and year. Because of that, it is important to base variety selection decisions on as many environments as possible. While it is hoped that newer varieties will perform better than older varieties, this is not always the case. Greater confidence should be put in varieties that have performed well over two or more years than varieties that are in their first year of testing. Producers should consider these new varieties/technologies as not being thoroughly evaluated until multiple year, multiple locations results are available.

Results of these variety trials should be used as a guide in conjunction with all other available sources of information, such as personal experience, demonstration plots, and even out of state trials when making variety selection decisions.

Reference

Falconer, L.L. and J.M. Reeves. "2010 Cotton Loan Valuation Software." Texas AgriLife Extension Service, Corpus Christi, TX. May, 2010. Web available: <http://www.cottoninc.com/Decision-Aids/?S=AgriculturalResearch>.

Entry Designation Abbreviations and Affiliated Companies

Abbreviation	Company
AM	Americot
DG	Dyna-Grow Seed (Crop Production Services)
FM	Bayer CropScience
DP	Monsanto/Deltapine
09R or 10R	Monsanto/Deltapine Experimental
CG	Cropland Genetics (Winfield Solutions, LLC)
ST	Stoneville (Bayer CropScience)
PHY	Phytogen
PHX	Phytogen Experimental
SSG	Seed-Source Genetics

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Table 1. Average¹ lint yield and fiber quality traits over five locations in 2010 Mississippi State University Delta Region Cotton Variety Trials.

Variety	Lint Yield lb/a	Lint			Uniformity				Elongation %	Micronaire mic
		Percent %	Seed Index g	Boll Size g	Length inch	Index %	Strength g/tex	Elongation %		
PHY 499 WRF	1624	43.52	9.61	4.85	1.11	84.5	32.6	8.0	5.3	
ST 5458 B2RF ck	1552	40.09	10.23	4.96	1.11	83.5	30.7	7.0	5.4	
DP 0920 B2RF	1497	40.96	9.09	4.43	1.11	83.8	27.5	7.0	5.1	
DP 1133 B2RF	1487	42.96	9.21	4.57	1.13	85.0	31.9	7.5	5.2	
ST 5288 B2F	1474	40.35	9.09	4.75	1.10	83.6	29.3	7.2	5.5	
DP 1028 B2RF	1470	43.90	9.03	4.61	1.12	84.6	28.8	7.4	5.1	
DP 1032 B2RF	1459	42.58	8.82	4.61	1.13	83.8	30.0	6.8	5.0	
PHY 367 WRF	1456	40.68	9.46	4.53	1.13	83.8	29.4	7.3	4.9	
ST 4288 B2F	1455	37.32	10.54	5.06	1.13	83.6	28.2	6.8	5.0	
DP 0912 B2RF ck	1454	39.27	9.72	4.62	1.08	83.6	29.7	7.3	5.4	
PHY 375 WRF ck	1416	41.45	9.59	4.52	1.11	84.3	29.4	6.9	5.0	
AM 1550 B2RF	1393	40.06	9.83	4.88	1.08	83.3	27.8	6.9	4.9	
DP 1034 B2RF	1390	42.53	9.18	4.56	1.13	84.4	28.2	7.3	4.9	
DP 0935 B2RF	1382	41.60	9.74	4.94	1.09	83.7	28.5	6.9	5.0	
DP 1137 B2RF	1370	42.42	9.39	4.80	1.12	84.5	28.6	7.3	5.0	
PHY 485 WRF	1361	39.25	9.41	4.22	1.11	84.4	31.8	8.1	5.2	
PHY 569 WRF	1353	39.97	9.68	4.21	1.11	84.8	32.4	8.2	5.2	
CG 3220 B2RF	1346	39.80	10.20	4.88	1.11	84.0	29.3	7.4	5.0	
DG 2570 B2RF	1345	40.36	9.84	5.05	1.10	84.1	29.9	7.7	5.2	
DP 0924 B2RF	1342	39.37	9.75	4.46	1.09	84.0	29.6	7.3	5.2	
FM 1740 B2F	1341	40.62	10.35	4.87	1.11	84.1	30.3	6.8	5.1	
PHY 565 WRF	1327	39.87	9.50	4.16	1.14	84.9	31.9	7.7	4.9	
DP 1048 B2RF	1317	42.50	9.10	4.55	1.14	84.3	28.5	7.3	4.9	
CG 4020 B2RF	1305	38.54	9.77	4.60	1.12	83.9	27.6	7.0	4.7	
DG 2450 B2RF	1296	38.52	9.89	4.30	1.12	84.1	28.1	6.8	4.8	
CG 3035 RF	1285	41.26	9.95	4.96	1.10	84.3	29.9	7.8	5.1	
10R052B2R2	1262	43.74	9.05	4.55	1.12	84.3	28.9	7.5	5.1	
CG 3520 B2RF	1253	38.16	9.67	4.36	1.12	84.0	27.8	7.3	4.9	
CG 3020 B2RF	1224	37.45	10.24	4.64	1.09	84.1	29.1	7.3	4.8	
DP 0949 B2RF	1216	40.80	9.45	4.47	1.12	84.0	31.1	7.3	5.3	
DP 1050 B2RF	1169	42.68	9.38	4.62	1.14	84.7	28.5	7.3	5.0	
FM 1845 LLB2	1168	38.00	11.05	5.10	1.16	84.8	33.1	7.0	5.3	
FM 1773 LLB2	1146	36.56	10.88	5.32	1.18	84.5	33.2	6.6	5.3	
SSG-HG 210 CT	983	37.42	9.43	4.84	1.10	83.5	31.9	7.1	5.3	
MEAN	1351	40.43	9.68	4.67	1.12	84.1	29.8	7.3	5.1	
REPS	20	20	20	20	20	20.0	20.0	20.0	20.0	

¹Least squares means.

Table 2. 2010 Mississippi State University Delta Region Cotton Variety Trial - yield, loan value, and per acre returns.

Variety	Lint Yield (Lbs/Acre)	Turnout (%)	Seed Yield (Lbs/Acre)	Lint Value (\$/Acre)	Seed Value (\$/Acre)	Gross Return (\$/Acre)	& Moduling Cost (\$/Acre)	Ginning Cost (\$/Acre)	Net Return (\$/Acre)
PHY 499 WRF	1624	43.51	2598	849	182	1031	119	195	717
PHY 367 WRF	1456	40.69	2329	786	163	949	114	175	660
ST 5458 B2RF ck	1552	40.10	2483	794	174	968	124	186	658
DP 1133 B2RF	1487	42.96	2380	779	167	946	111	178	657
ST 4288 B2F	1455	37.32	2328	786	163	949	125	175	649
DP 1028 B2RF	1470	43.91	2352	763	165	928	107	176	645
DP 0920 B2RF	1497	40.96	2395	770	168	938	117	180	641
PHY 375 WRF ck	1416	41.45	2266	760	159	919	109	170	640
DP 1032 B2RF	1459	42.58	2334	759	163	922	110	175	637
DP 1034 B2RF	1390	42.53	2224	751	156	907	105	167	635
AM 1550 B2RF	1393	40.06	2229	746	156	902	111	167	624
DP 0935 B2RF	1382	41.59	2211	741	155	896	106	166	624
ST 5288 B2F	1474	40.34	2358	743	165	908	117	177	614
PHY 565 WRF	1327	39.88	2124	725	149	874	107	159	608
DP 1048 B2RF	1317	42.50	2107	711	147	858	99	158	601
DP 1137 B2RF	1370	42.43	2192	710	153	863	103	164	596
DP 0912 B2RF ck	1454	39.27	2326	723	163	886	118	174	594
PHY 569 WRF	1353	39.96	2165	708	152	860	108	162	590
CG 4020 B2RF	1305	38.55	2088	705	146	851	108	157	586
PHY 485 WRF	1361	39.26	2177	706	152	858	111	163	584
DG 2450	1296	38.52	2073	700	145	845	108	155	582
DG 2570	1345	40.37	2153	696	151	847	107	161	579
CG 3220 B2RF	1346	39.79	2154	697	151	848	108	162	578
FM 1740 B2F	1341	40.62	2145	693	150	843	106	161	576
DP 0924 B2RF	1342	39.37	2147	694	150	844	109	161	574
CG 3520 B2RF	1253	38.16	2006	677	140	817	105	150	562
CG 3035 RF	1285	41.25	2056	664	144	808	100	154	554
10R052B2R2	1262	43.74	2020	654	141	795	92	151	552
CG 3020 B2RF	1224	37.46	1958	657	137	794	105	147	542
DP 1050 B2RF	1169	42.68	1870	633	131	764	88	140	536
DP 0949 B2RF	1216	40.79	1946	636	136	772	95	146	531
FM 1845 LLB2	1168	38.00	1869	612	131	743	98	140	505
FM 1773 LLB2	1146	36.56	1833	599	128	727	100	137	490
SSG-HG 210 CT	983	37.43	1574	510	110	620	84	118	418

1 A color and leaf grade of 41-2 was assumed for all calculations.

2 Estimates based upon a seed value of \$140 per ton.

Loan Price was determined by entering OVT fiber data into the Cotton Loan 2010 Calculator. The Loan Calculator was developed through funding from Cotton Incorporated by Dr. Larry Falconer, Texas A&M Corpus Christi. The values are based on USDA premium and discount schedules for cotton entering the Commodity Credit Corporation (CCC) loan program (US National Loan Rate is \$0.52 per lb of lint for standard fiber characteristics). The information presented presumes a standard leaf and color grade since this information is needed to calculate the values and is not available from OVT data. Color and leaf grade different than standard grades might affect the results. Value per Acre is simply the Loan Price multiplied by the lint yield per acre.

Table 3. Average¹ lint yield for each location in the 2010 Mississippi State University Delta Region Cotton Variety Trials.

Variety	Stoneville lb/a	Clarksdale lb/a	Rolling Fork lb/a	Itta Bena lb/a	Tribbett lb/a	OVER LOCATIONS lb/a
PHY 499 WRF	1604	1771	1445	1728	1572	1624
ST 5458 B2RF ck	1711	1608	1591	1194	1654	1552
DP 0920 B2RF	1568	1577	1542	1313	1487	1497
DP 1133 B2RF	1594	1577	1349	1456	1462	1487
ST 5288 B2F	1526	1583	1617	1360	1283	1474
DP 1028 B2RF	1274	1529	1470	1532	1546	1470
DP 1032 B2RF	1602	1342	1476	1334	1541	1459
PHY 367 WRF	1516	1619	1371	1251	1522	1456
ST 4288 B2F	1327	1751	1466	1275	1457	1455
DP 0912 B2RF ck	1555	1491	1485	1337	1400	1454
PHY 375 WRF ck	1343	1562	1355	1313	1507	1416
AM 1550 B2RF	1425	1579	1389	1181	1390	1393
DP 1034 B2RF	1287	1424	1521	1361	1358	1390
DP 0935 B2RF	1271	1500	1510	1303	1327	1382
DP 1137 B2RF	1244	1427	1345	1372	1462	1370
PHY 485 WRF	1471	1509	1354	1071	1399	1361
PHY 569 WRF	1471	1437	1157	1327	1374	1353
CG 3220 B2RF	1417	1396	1329	1220	1369	1346
DG 2570 B2RF	1336	1436	1339	1291	1326	1345
DP 0924 B2RF	1319	1589	1247	1243	1312	1342
FM 1740 B2F	1459	1243	1461	1059	1482	1341
PHY 565 WRF	1322	1483	1271	1196	1364	1327
DP 1048 B2RF	1314	1324	1073	1338	1537	1317
CG 4020 B2RF	1303	1384	1334	1034	1470	1305
DG 2450 B2RF	1390	1246	1322	1195	1325	1296
CG 3035 RF	1424	1561	1255	1080	1106	1285
10R052B2R2	1014	1380	1203	1345	1370	1262
CG 3520 B2RF	1326	1220	1251	1207	1263	1253
CG 3020 B2RF	1303	1262	1314	1060	1181	1224
DP 0949 B2RF	1121	1322	1227	1196	1217	1216
DP 1050 B2RF	916	1327	1176	1177	1247	1169
FM 1845 LLB2	1141	1357	1056	1076	1212	1168
FM 1773 LLB2	1141	1181	1124	1132	1152	1146
SSG-HG 210 CT	1007	1127	1037	829	918	983
MEAN	1354	1445	1337	1247	1370	1351
LSD (P=.05)	176	242	177	203	211	90.2
R-Square	0.75	0.61	0.67	0.63	0.60	0.68
CV (%)	9.29	11.94	9.46	11.63	11	10.8
REPS	4	4	4	4	4	4

¹Least squares means.

Table 4. Average¹ lint yield and fiber quality traits for four locations in 2010 Mississippi State University Hill Region Cotton Variety Trials.

Variety	Lint Yield lb/a	Lint			Uniformity				Micronaire mic
		Percent %	Seed Index g	Boll Size g	Length inch	Index %	Strength g/tex	Elongation %	
PHY 499 WRF	1468	45.71	9.20	4.66	1.09	84.9	31.4	7.8	5.1
DP 1028 B2RF	1445	45.22	9.07	4.55	1.11	84.3	28.6	7.3	5.1
DP 0935 B2RF	1421	43.50	9.76	4.88	1.09	83.5	28.8	6.8	4.9
DP 1034 B2RF	1419	44.46	9.27	4.61	1.13	84.2	28.6	7.2	4.9
DP 1137 B2RF	1400	44.18	9.34	4.75	1.10	84.6	28.4	7.1	4.9
DP 1032 B2RF	1394	44.24	9.18	4.40	1.13	84.1	29.7	6.7	5.0
10R052B2R2	1392	45.63	9.14	4.57	1.12	84.4	28.5	7.3	5.0
DP 1050 B2RF	1370	45.07	9.28	4.47	1.13	84.4	28.2	7.1	4.9
ST 5288 B2F	1357	41.79	9.14	4.79	1.09	83.4	28.4	6.9	5.2
DP 0912 B2RF ck	1344	41.59	9.79	4.57	1.07	83.8	29.4	7.1	5.2
DP 1048 B2RF	1322	44.41	9.23	4.57	1.13	84.4	27.8	7.2	4.9
DP 1133 B2RF	1321	44.96	9.02	4.41	1.13	84.4	31.6	7.3	5.0
DG 2570 B2RF	1294	42.40	9.82	4.96	1.09	84.2	29.1	7.4	5.0
ST 5458 B2RF ck	1280	41.77	10.08	4.91	1.11	83.4	29.8	6.9	5.2
DP 0924 B2RF	1280	41.29	9.86	4.40	1.08	83.7	29.4	7.2	5.1
PHY 367 WRF	1277	42.60	9.22	4.22	1.12	84.0	29.0	7.1	4.7
DP 0920 B2RF	1275	42.56	9.36	4.42	1.10	83.7	27.3	6.8	4.9
PHY 565 WRF	1262	41.37	9.39	4.25	1.12	84.3	31.5	7.7	4.9
AM 1550 B2RF	1258	42.68	9.62	4.83	1.07	83.7	26.8	6.6	4.8
PHY 375 WRF ck	1252	43.30	9.39	4.56	1.09	83.7	29.8	6.9	4.8
PHY 569 WRF	1225	41.42	9.35	3.95	1.09	84.4	30.8	7.8	5.1
FM 1740 B2F	1220	42.33	10.11	4.86	1.11	83.9	29.3	6.6	4.8
DG 2450 B2RF	1211	41.34	9.53	4.35	1.11	84.0	27.4	6.6	4.7
CG 3220 B2RF	1202	42.26	9.96	4.71	1.10	84.4	29.2	7.3	5.0
FM 1845 LLB2	1167	39.88	11.07	5.14	1.17	84.8	32.7	6.8	5.0
ST 4288 B2F	1164	39.38	10.52	5.07	1.11	83.6	27.6	6.7	4.9
DP 0949 B2RF	1158	43.12	9.55	4.27	1.10	83.9	29.9	7.1	5.1
PHY 485 WRF	1148	40.86	9.36	4.12	1.09	83.9	31.1	7.6	5.1
FM 1773 LLB2	1128	39.19	11.33	5.23	1.15	83.8	32.5	6.6	5.1
CG 3035 RF	1117	43.53	9.64	4.77	1.08	84.1	29.3	7.6	5.0
CG 3520 B2RF	1109	40.27	9.68	4.42	1.11	84.1	27.8	7.0	4.6
CG 4020 B2RF	1064	40.56	9.54	4.32	1.12	84.1	27.3	6.8	4.5
CG 3020 B2RF	1021	39.29	9.75	4.37	1.07	84.1	27.5	6.8	4.4
SSG-HG 210 CT	948	39.44	9.42	4.52	1.10	83.6	31.6	7.0	5.3
MEAN	1256	42.40	9.62	4.58	1.11	84.1	29.3	7.1	4.9
REP	16	16	16	16	16	16.0	16.0	16.0	16.0

¹Least squares means.

Table 5. 2010 Mississippi State University Hill Region Cotton Variety Trial - yield, loan value, and per acre returns.

Variety	Lint Yield (Lbs/Acre)	Turnout (%)	Seed Yield (Lbs/Acre)	Lint Value (\$/Acre)	Seed Value (\$/Acre)	Gross Return (\$/Acre)	& Moduling Cost (\$/Acre)	Ginning Cost (\$/Acre)	Net Return (\$/Acre)
DP 1034 B2RF	1419	44.46	2270	766	159	925	102	170	653
PHY 499 WRF	1468	45.71	2349	763	164	927	103	176	648
DP 0935 B2RF	1421	43.50	2273	762	159	921	105	170	646
DP 1137 B2RF	1400	44.18	2240	753	157	910	101	168	641
DP 1050 B2RF	1370	45.07	2192	740	153	893	97	164	632
DP 1028 B2RF	1445	45.22	2312	743	162	905	102	173	630
DP 1032 B2RF	1394	44.24	2230	726	156	882	101	167	614
10R052B2R2	1392	45.63	2227	721	156	877	98	167	612
DP 1048 B2RF	1322	44.41	2115	714	148	862	95	159	608
DG 2570 B2RF	1294	42.40	2071	694	145	839	98	155	586
DP 1133 B2RF	1321	44.96	2114	690	148	838	94	159	585
PHY 367 WRF	1277	42.60	2042	689	143	832	96	153	583
ST 5288 B2F	1357	41.79	2171	697	152	849	104	163	582
PHY 565 WRF	1262	41.37	2020	687	141	828	98	151	579
DP 0920 B2RF	1275	42.56	2040	684	143	827	96	153	578
PHY 375 WRF ck	1252	43.30	2004	675	140	815	93	150	572
DP 0912 B2RF ck	1344	41.59	2150	679	151	830	103	161	566
AM 1550 B2RF	1258	42.68	2013	664	141	805	94	151	560
ST 5458 B2RF ck	1280	41.77	2048	665	143	808	98	154	556
FM 1740 B2F	1220	42.33	1952	655	137	792	92	146	554
DP 0924 B2RF	1280	41.29	2047	658	143	801	99	154	548
DG 2450 B2RF	1211	41.34	1937	650	136	786	94	145	547
CG 3220 B2RF	1202	42.26	1924	645	135	780	91	144	545
PHY 569 WRF	1225	41.42	1960	636	137	773	95	147	531
ST 4288 B2F	1164	39.38	1863	629	130	759	95	140	524
FM 1845 LLB2	1167	39.88	1867	611	131	742	94	140	508
DP 0949 B2RF	1158	43.12	1853	599	130	729	86	139	504
CG 3520 B2RF	1109	40.27	1774	599	124	723	88	133	502
PHY 485 WRF	1148	40.86	1837	596	129	725	90	138	497
FM 1773 LLB2	1128	39.19	1805	590	126	716	92	135	489
CG 3035 RF	1117	43.53	1787	575	125	700	82	134	484
CG 4020 B2RF	1064	40.56	1702	574	119	693	84	128	481
CG 3020 B2RF	1021	39.29	1633	539	114	653	83	123	447
SSG-HG 210 CT	948	39.44	1517	482	106	588	77	114	397

1 A color and leaf grade of 41-2 was assumed for all calculations.

2 Estimates based upon a seed value of \$140 per ton.

Loan Price was determined by entering OVT fiber data into the Cotton Loan 2010 Calculator. The Loan Calculator was developed through funding from Cotton Incorporated by Dr. Larry Falconer, Texas A&M Corpus Christi. The values are based on USDA premium and discount schedules for cotton entering the Commodity Credit Corporation (CCC) loan program (US National Loan Rate is \$0.52 per lb of lint for standard fiber characteristics). The information presented presumes a standard leaf and color grade since this information is needed to calculate the values and is not available from OVT data. Color and leaf grade different than standard grades might affect the results. Value per Acre is simply the Loan Price multiplied by the lint yield per acre.

Table 6. Average¹ lint yield for each location in 2010 Mississippi State University Hill Region Cotton Variety Trials.

Variety	Senatobia lb/a	Raymond lb/a	MS State lb/a	Verona lb/a	OVER LOCATIONS lb/a
PHY 499 WRF	1168	1372	1963	1370	1468
DP 1028 B2RF	1239	1445	1839	1257	1445
DP 0935 B2RF	1301	1276	1811	1294	1421
DP 1034 B2RF	1204	1253	1944	1274	1419
DP 1137 B2RF	1146	1371	1804	1280	1400
DP 1032 B2RF	1384	1260	1697	1235	1394
10R052B2R2	1213	1356	1778	1222	1392
DP 1050 B2RF	1181	1363	1725	1212	1370
ST 5288 B2F	1344	1284	1636	1163	1357
DP 0912 B2RF ck	1432	1202	1527	1214	1344
DP 1048 B2RF	1204	1271	1612	1200	1322
DP 1133 B2RF	1195	1230	1610	1249	1321
DG 2570 B2RF	1262	1064	1587	1264	1294
ST 5458 B2RF ck	1268	981	1569	1302	1280
DP 0924 B2RF	1306	1144	1469	1199	1280
PHY 367 WRF	1092	1210	1516	1288	1277
DP 0920 B2RF	1297	1097	1518	1187	1275
PHY 565 WRF	968	1217	1660	1205	1262
AM 1550 B2RF	1098	1093	1646	1195	1258
PHY 375 WRF ck	1160	1158	1403	1288	1252
PHY 569 WRF	999	1234	1563	1105	1225
FM 1740 B2F	1055	1179	1423	1223	1220
DG 2450 B2RF	1262	1093	1351	1136	1211
CG 3220 B2RF	1060	1075	1449	1226	1202
FM 1845 LLB2	992	1054	1549	1071	1167
ST 4288 B2F	1135	990	1473	1059	1164
DP 0949 B2RF	1138	1029	1284	1181	1158
PHY 485 WRF	937	1051	1456	1149	1148
FM 1773 LLB2	1015	970	1441	1087	1128
CG 3035 RF	586	1124	1560	1198	1117
CG 3520 B2RF	1195	1048	1072	1120	1109
CG 4020 B2RF	1004	904	1240	1107	1064
CG 3020 B2RF	953	929	1112	1090	1021
SSG-HG 210 CT	415	1083	1314	982	948
MEAN	1124	1159	1547	1192	1256
LSD (P=.05)	247	160	244	93	88
R-Square	0.64	0.72	0.66	0.69	0.78
CV (%)	15.7	9.84	11.26	5.60	11.3
REPS	4	4	4	4	4

¹Least squares means.

Table 7. Average¹ lint yield and fiber quality traits over nine locations (Hill and Delta regions) in 2010 Mississippi State University Cotton Variety Trials.

Variety	Lint Yield lb/a	Lint		Uniformity			Strength g/tex	Elongation %	Micronaire mic
		Percent %	Seed Index g	Boll Size g	Length inch	Index %			
PHY 499 WRF	1555	44.49	9.43	4.77	1.10	84.7	32.1	7.9	5.2
DP 1028 B2RF	1459	44.49	9.04	4.58	1.12	84.5	28.7	7.4	5.1
ST 5458 B2RF ck	1431	40.85	10.16	4.94	1.11	83.5	30.3	7.0	5.3
DP 1032 B2RF	1430	43.32	8.98	4.51	1.13	84.0	29.9	6.8	5.0
ST 5288 B2F	1422	40.99	9.11	4.77	1.10	83.5	28.9	7.1	5.4
DP 1133 B2RF	1413	43.85	9.13	4.50	1.13	84.7	31.8	7.4	5.1
DP 0912 B2RF ck	1405	40.31	9.75	4.60	1.07	83.7	29.6	7.2	5.3
DP 1034 B2RF	1403	43.39	9.22	4.58	1.13	84.3	28.3	7.3	4.9
DP 0935 B2RF	1399	42.44	9.75	4.92	1.09	83.6	28.6	6.8	4.9
DP 0920 B2RF	1398	41.67	9.21	4.42	1.10	83.8	27.4	6.9	5.0
DP 1137 B2RF	1384	43.21	9.37	4.77	1.11	84.5	28.5	7.2	5.0
PHY 367 WRF	1366	41.53	9.35	4.40	1.12	83.9	29.3	7.2	4.8
PHY 375 WRF ck	1343	42.27	9.50	4.54	1.10	84.0	29.6	6.9	4.9
AM 1550 B2RF	1333	41.23	9.73	4.86	1.08	83.5	27.3	6.8	4.9
ST 4288 B2F	1326	38.23	10.53	5.06	1.12	83.6	27.9	6.8	4.9
DG 2570 B2RF	1323	41.28	9.83	5.01	1.09	84.2	29.5	7.6	5.1
10R052B2R2	1320	44.58	9.09	4.55	1.12	84.3	28.7	7.4	5.1
DP 1048 B2RF	1319	43.35	9.16	4.56	1.13	84.4	28.2	7.3	4.9
DP 0924 B2RF	1314	40.22	9.79	4.43	1.08	83.9	29.5	7.2	5.2
PHY 565 WRF	1298	40.54	9.45	4.20	1.13	84.6	31.8	7.7	4.9
PHY 569 WRF	1296	40.60	9.53	4.10	1.10	84.6	31.6	8.0	5.1
FM 1740 B2F	1287	41.38	10.24	4.87	1.11	84.0	29.8	6.7	5.0
CG 3220 B2RF	1282	40.90	10.09	4.80	1.11	84.2	29.3	7.4	5.0
PHY 485 WRF	1266	39.97	9.39	4.17	1.10	84.2	31.5	7.9	5.1
DP 1050 B2RF	1258	43.74	9.34	4.55	1.14	84.5	28.4	7.2	4.9
DG 2450 B2RF	1258	39.78	9.73	4.32	1.11	84.1	27.8	6.7	4.7
CG 3035 RF	1210	42.27	9.81	4.88	1.09	84.2	29.7	7.7	5.1
CG 4020 B2RF	1198	39.45	9.67	4.48	1.12	84.0	27.5	6.9	4.6
DP 0949 B2RF	1190	41.83	9.49	4.38	1.11	84.0	30.5	7.2	5.2
CG 3520 B2RF	1189	39.10	9.68	4.39	1.12	84.0	27.8	7.2	4.8
FM 1845 LLB2	1168	38.83	11.06	5.12	1.16	84.8	32.9	6.9	5.2
FM 1773 LLB2	1138	37.73	11.08	5.28	1.17	84.2	32.9	6.6	5.2
CG 3020 B2RF	1134	38.28	10.02	4.52	1.08	84.1	28.3	7.1	4.6
SSG-HG 210 CT	968	38.33	9.43	4.70	1.10	83.5	31.8	7.0	5.3
MEAN	1303	41.31	9.65	4.63	1.11	84.1	29.6	7.2	5.0
Reps	36	36	36	36	36	36.0	36.0	36.0	36.0

¹Least squares means.

Table 8. Average¹ lint yield and fiber quality traits over four locations in Delta and Hill Regions New Entry Test in the 2010 Mississippi State University Cotton Variety Trials.

Variety	Lint Yield lb/a	Lint Percent	Seed Index	Boll Size	Length inch	Uniformity Index		Strength g/tex	Elongation %	Micronaire
		%	g	g	inch	%	mic			
PHY 499 WRF	1551	44.75	9.77	4.73	1.11	84.6	32.6	8.1	5.3	
ST 5458 B2RF ck	1490	40.85	10.27	4.95	1.13	84.0	31.1	7.3	5.4	
DP 0912 B2RF ck	1444	39.73	9.63	4.54	1.10	83.9	30.3	7.4	5.3	
BCSX 1030 B2F	1372	42.36	9.28	4.48	1.11	84.0	27.6	6.9	4.7	
PHY 375 WRF ck	1357	42.34	9.65	4.59	1.11	84.1	30.9	7.1	4.9	
PHY 519 WRF	1356	41.38	9.93	4.65	1.12	83.9	32.0	7.4	5.1	
ALL-TEX LA122	1349	42.52	9.49	4.61	1.14	84.4	30.0	7.6	5.0	
NG 4012 B2RF	1332	41.49	9.87	4.94	1.13	84.1	32.5	6.6	4.8	
BCSX 1010 B2F	1291	39.69	10.36	4.67	1.15	84.2	29.5	6.6	4.7	
NG 4010 B2RF	1213	39.83	10.03	4.72	1.14	84.5	32.7	7.2	5.0	
NGx F015 B2RF	1173	38.78	10.26	4.40	1.12	84.2	33.7	7.4	5.1	
BCSX 1040 B2F	1140	35.61	10.71	4.73	1.21	85.5	32.8	7.1	4.9	
ALL-TEX A102	1124	39.39	10.42	4.82	1.15	84.4	30.9	6.8	4.8	
MEAN	1320	40.60	9.97	4.70	1.13	84.3	31.2	7.2	5.1	
REPS	4	4	4	4	4	4.0	4.0	4.0	4.0	

¹Least squares means.

Table 9. 2010 Mississippi State University over four locations in Delta and Hill Regions New Entry Test- yield, loan value, and per acre returns.

Variety	Lint (Lbs/Acre)	Seed (%)	Lint (Lbs/Acre)	Seed Value (\$/Acre)	Gross Return (\$/Acre)	& Moduling Cost (\$/Acre)	Ginning Cost (\$/Acre)	Net Return (\$/Acre)	
PHY 499 WRF	1551	44.75	2482	812	174	986	111	186	689
ST 5458 B2RF ck	1490	40.85	2384	763	167	930	117	179	634
PHY 375 WRF ck	1357	42.34	2171	739	152	891	103	163	625
BCSX 1030 B2F	1372	42.36	2195	736	154	890	104	165	621
ALL-TEX LA122	1349	42.52	2159	732	151	883	102	162	619
DP 0912 B2RF ck	1444	39.73	2310	746	162	908	116	173	619
NG 4012 B2RF	1332	41.49	2131	725	149	874	103	160	611
PHY 519 WRF	1356	41.38	2170	709	152	861	105	163	593
BCSX 1010 B2F	1291	39.69	2065	701	145	846	104	155	587
NG 4010 B2RF	1213	39.83	1941	662	136	798	97	146	555
ALL-TEX A102	1124	39.39	1798	613	126	739	91	135	513
BCSX 1040 B2F	1140	35.61	1823	622	128	750	102	137	511
NGx F015 B2RF	1173	38.78	1878	613	131	744	97	141	506

1 A color and leaf grade of 41-2 was assumed for all calculations.

2 Estimates based upon a seed value of \$140 per ton.

Loan Price was determined by entering OVT fiber data into the Cotton Loan 2010 Calculator. The Loan Calculator was developed through funding from Cotton Incorporated by Dr. Larry Falconer, Texas A&M Corpus Christi. The values are based on USDA premium and discount schedules for cotton entering the Commodity Credit Corporation (CCC) loan program (US National Loan Rate is \$0.52 per lb of lint for standard fiber characteristics). The information presented presumes a standard leaf and color grade since this information is needed to calculate the values and is not available from OVT data. Color and leaf grade different than standard grades might affect the results. Value per Acre is simply the Loan Price multiplied by the lint yield per acre.

Table 10. Average¹ lint yield for each location in the Hill and Delta Regions New Entry Test in the 2010 Mississippi State University Cotton Variety Trials.

Variety	STONEVILLE	TRIBBETT	MS STATE	VERONA	OVER LOCATIONS
	lb/a	lb/a	lb/a	lb/a	lb/a
PHY 499 WRF	1518	1484	2001	1202	1551
ST 5458 B2RF ck	1755	1573	1470	1130	1482
DP 0912 B2RF ck	1570	1554	1540	1124	1447
BCSX 1030 B2F	1587	1434	1375	1091	1372
ALL-TEX LA122	1583	1370	1450	1006	1352
PHY 375 WRF ck	1344	1386	1532	1133	1349
PHY 519 WRF	1249	1161	1902	1082	1348
NG 4012 B2RF	1468	1239	1568	1065	1335
BCSX 1010 B2F	1371	1316	1442	1046	1294
NG 4010 B2RF	1405	1087	1399	962	1213
NGx F015 B2RF	1420	1010	1312	922	1166
BCSX 1040 B2F	1294	1173	1171	889	1132
ALL-TEX A102	1137	925	1490	955	1127
MEAN	1438	1285	1512	1047	1320
LSD (P=.05)	145	274	300	101	
R-Square	0.79	0.62	0.60	0.72	
CV (%)	7.06	14.9	13.90	6.74	
REPS	4	4	4	4	4

¹Least squares means.

Table 11. Average lint yield and fiber quality traits over two years (2009-2010) and locations in the Mississippi State University Cotton Variety Trials.

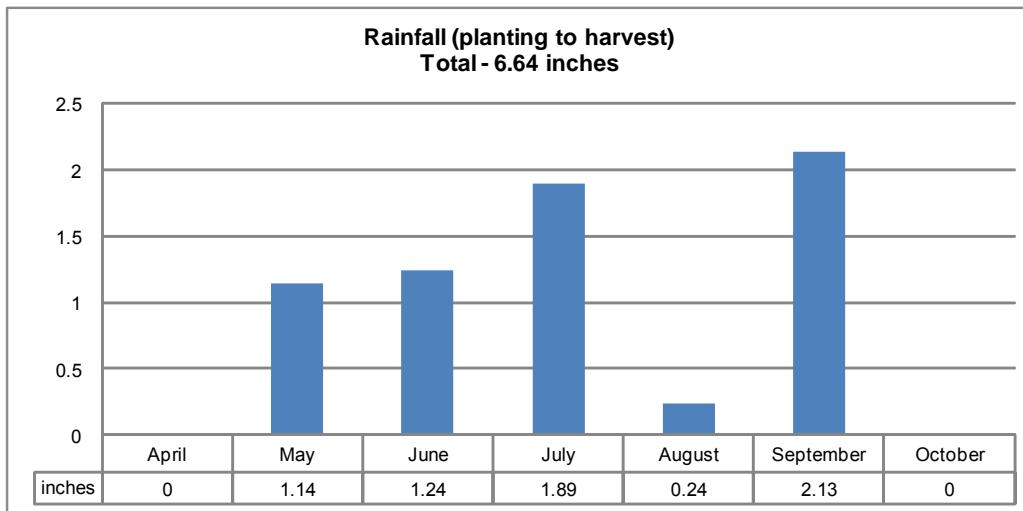
Variety	Lint			Uniformity					
	Lint Yield lb/a	Percent %	Seed Index g	Boll Size g	Length inch	Index %	Strength g/tex	Elongation %	Micronaire mic
ST 5288 B2F	1227	40.90	9.39	5.07	1.15	84.5	28.3	7.0	5.0
ST 5458 B2RF	1222	40.36	10.52	5.32	1.16	84.5	29.9	6.9	5.1
DP 0912 B2RF	1178	40.01	9.98	4.94	1.11	84.5	28.9	7.2	5.2
FM 1740 B2F	1156	41.21	10.62	5.27	1.15	85.2	29.3	6.8	4.8
DP 0935 B2RF	1155	41.60	10.17	5.29	1.13	84.6	28.1	6.9	4.8
ST 4288 B2F	1151	38.28	10.83	5.47	1.17	84.8	28.3	6.8	4.9
PHY 485 WRF	1150	39.76	9.79	4.69	1.14	85.1	30.4	7.8	4.9
DP 0920 B2RF	1133	41.44	9.53	4.75	1.14	84.8	26.9	6.9	4.9
PHY 565 WRF	1133	40.93	9.70	4.54	1.18	85.5	31.0	7.5	4.7
PHY 375 WRF	1125	41.73	9.93	4.85	1.14	84.9	28.5	6.8	4.6
DP 0949 B2RF	1115	41.84	9.67	4.70	1.15	84.8	28.8	7.1	5.0
DP 0924 B2RF	1109	40.01	9.92	4.70	1.12	84.6	28.9	7.2	5.0
DG 2570 B2RF	1089	41.08	10.20	5.36	1.13	84.9	29.0	7.4	4.9
AM 1550 B2RF	1080	40.45	10.10	5.18	1.12	84.4	27.1	6.8	4.7
CG 3220 B2RF	1018	39.92	10.41	5.19	1.14	84.9	28.5	7.3	4.8
CG 4020 B2RF	1005	38.88	9.89	4.80	1.17	84.9	26.9	6.9	4.4
CG 3035 RF	992	41.96	10.07	5.27	1.13	84.9	28.8	7.6	4.8
FM 1845 LLB2	989	38.12	11.35	5.53	1.22	85.9	32.3	6.9	4.9
CG 3520 B2RF	970	38.47	9.89	4.57	1.15	85.0	26.5	7.1	4.6
CG 3020 B2RF	936	38.05	10.23	4.85	1.12	84.7	27.4	7.0	4.4
MEAN	1097	40.25	10.11	5.02	1.15	84.9	28.7	7.1	4.8

¹Least squares means.

Table 12. Average lint yield and fiber quality traits over three years (2008-2010) and locations in the Mississippi State University Cotton Variety Trials.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity			Micronaire mic
						Index %	Strength g/tex	Elongation %	
ST 5458 B2RF	1234	40.73	10.44	5.32	1.17	84.1	30.1	6.8	5.0
FM 1740 B2F	1215	41.83	10.57	5.33	1.16	84.9	29.4	6.7	4.8
PHY 485 WRF	1166	40.01	9.69	4.69	1.15	84.9	30.6	7.7	4.9
PHY 375 WRF	1146	42.01	9.83	4.86	1.14	84.5	28.4	6.8	4.6
DG 2570 B2RF	1094	41.21	10.07	5.36	1.14	84.7	29.1	7.4	4.8
AM 1550 B2RF	1069	40.64	10.03	5.13	1.12	84.2	27.2	6.8	4.6
CG 4020 B2RF	1020	39.32	9.88	4.77	1.17	84.7	26.8	6.8	4.4
CG 3035 RF	1015	42.06	9.98	5.28	1.14	84.7	28.7	7.4	4.7
CG 3220 B2RF	1014	40.28	10.23	5.11	1.15	84.5	28.2	7.1	4.8
CG 3520 B2RF	959	38.71	9.72	4.49	1.16	84.6	26.3	7.0	4.5
CG 3020 B2RF	957	38.46	10.06	4.82	1.13	84.4	27.2	6.9	4.4
MEAN	1081	40.48	10.05	5.01	1.15	84.6	28.4	7.0	4.7

Table 13. Rainfall and agronomic information for Stoneville, MS location in the Delta Location in the 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Bosket Very Fine Sandy Loam Soil
Soil pH	
Soil Fertility	
Fertilizer Added	Potash (60% K2O). (1-14-10). UAN (32% N) @ 3.10 cwt (5-27-10).
Herbicide applications	Trifluralin 4EC @ 1.25 pt. (3-17-10), Staple XL @ 1.3 oz., Cotoran 4L @ 1.5 pt., Prowl H2O @ 1 qt. (5-26-10). Intensity One @ 16 oz. (7-14-10).
Insecticide Applications	Vydate C-LV @ 12.8 oz. (6-17-10). Bidrin 8L @ 8 oz. (7-1-10). Acephate 90SP @ 1 lb. (7-15-10). Leverage 2.7 @ 4 oz., Mepex @ 10 oz. (7-23-10). Indigo @ 4 oz. (7-30-10). Steward @ .625 pt., Centric 40WG @ 2 oz. (7-30-10). Capture 2EC @ 6.4 oz., Centric 40wg @ 2 oz. (8-20-10) (9-2-10).
Irrigation	June 17, 2010. July 7, 2010. July 23, 2010. August 16, 2010. August 25, 2010.
Planting Date	May 24, 2010
Harvest Date	October 11, 2010

Table 14. Stoneville, MS location of the Delta Region 2010 Mississippi State University Cotton Variety Trial grown on a Bosket Very Fine Sandy Loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity Index %		Strength g/tex	Elongation %	Micronaire mic
ST 5458 B2RF ck	1711	39.80	10.98	4.93	1.15	84.0	31.2	7.4	5.6	
PHY 499 WRF	1604	43.55	10.25	4.53	1.17	84.8	33.0	8.1	5.3	
DP 1032 B2RF	1602	41.93	9.30	4.45	1.18	84.7	30.5	6.8	5.0	
DP 1133 B2RF	1594	43.18	9.38	4.25	1.18	85.4	32.0	7.5	5.0	
DP 0920 B2RF	1568	40.55	9.58	4.08	1.14	83.7	28.7	7.1	5.1	
DP 0912 B2RF ck	1555	37.70	10.20	4.63	1.12	84.2	29.9	7.5	5.6	
ST 5288 B2F	1526	39.55	9.68	4.65	1.15	83.4	29.5	7.3	5.7	
PHY 367 WRF	1516	39.93	9.85	4.33	1.18	84.6	29.8	7.4	5.1	
PHY 485 WRF	1471	39.18	9.75	4.13	1.15	84.8	31.9	8.3	5.2	
PHY 569 WRF	1471	39.33	10.13	4.08	1.17	84.9	31.7	8.0	5.1	
FM 1740 B2F	1459	40.30	10.45	4.95	1.14	84.6	31.2	6.9	5.3	
AM 1550 B2RF	1425	38.40	10.48	4.65	1.12	84.2	27.8	7.1	4.9	
CG 3035 RF	1424	40.90	10.25	4.55	1.13	84.5	29.7	8.0	5.1	
CG 3220 B2RF	1417	38.55	10.53	4.83	1.15	84.3	29.3	7.5	5.1	
DG 2450 B2RF	1390	36.80	10.58	4.15	1.17	84.8	28.8	7.0	4.6	
PHY 375 WRF ck	1343	40.48	10.08	4.33	1.16	84.2	30.0	6.9	4.8	
DG 2570 B2RF	1336	39.18	10.28	5.03	1.13	84.7	30.0	7.8	5.2	
ST 4288 B2F	1327	36.33	11.20	4.85	1.18	83.8	28.9	6.9	5.0	
CG 3520 B2RF	1326	37.58	10.35	4.25	1.16	84.5	29.3	7.5	5.1	
PHY 565 WRF	1322	39.58	9.90	4.05	1.21	85.8	32.4	7.6	4.9	
DP 0924 B2RF	1319	38.60	10.55	4.13	1.14	84.9	29.9	7.5	5.2	
DP 1048 B2RF	1314	42.60	9.23	4.30	1.17	84.8	27.8	7.3	4.8	
CG 4020 B2RF	1303	37.18	10.38	4.33	1.15	83.8	27.6	6.9	4.9	
CG 3020 B2RF	1303	36.33	10.90	4.55	1.13	84.5	28.9	7.3	4.9	
DP 1034 B2RF	1287	41.63	9.55	4.18	1.20	84.9	27.5	7.3	4.7	
DP 1028 B2RF	1274	43.20	9.25	4.38	1.17	85.2	29.9	7.5	4.8	
DP 0935 B2RF	1271	40.95	10.63	4.80	1.16	84.6	29.3	6.9	5.1	
DP 1137 B2RF	1244	42.18	9.68	4.48	1.17	84.9	29.4	7.4	4.8	
FM 1773 LLB2	1141	35.30	12.15	4.93	1.23	84.9	34.7	6.8	5.3	
FM 1845 LLB2	1141	36.73	12.33	5.05	1.22	85.3	34.1	7.0	5.4	
DP 0949 B2RF	1121	39.25	10.23	4.40	1.19	84.7	31.1	7.4	5.1	
10R052B2R2	1014	44.18	9.48	4.48	1.18	84.7	29.4	7.5	5.0	
SSG-HG 210 CT	1007	36.20	9.80	4.50	1.16	84.1	32.0	7.2	5.1	
DP 1050 B2RF	916	41.63	9.78	4.47	1.20	85.6	27.4	7.2	4.8	
MEAN	1354	39.67	10.21	4.49	1.16	84.61	30.12	7.34	5.06	
LSD (P=.05)	176	1.00	0.64	0.42	0.03	1.1	1.4	0.3	0.3	
R-Square	0.75	0.9	0.77	0.59	0.67	0.4	0.8	0.8	0.7	
CV (%)	9.29	1.8	4.45	6.65	1.92	0.93	3.2	3.18	3.57	
REPS	4	4	4	4	4	4	4	4	4	

Planted May 24, Harvested on October 11, 2010.

All values represent least squares means.

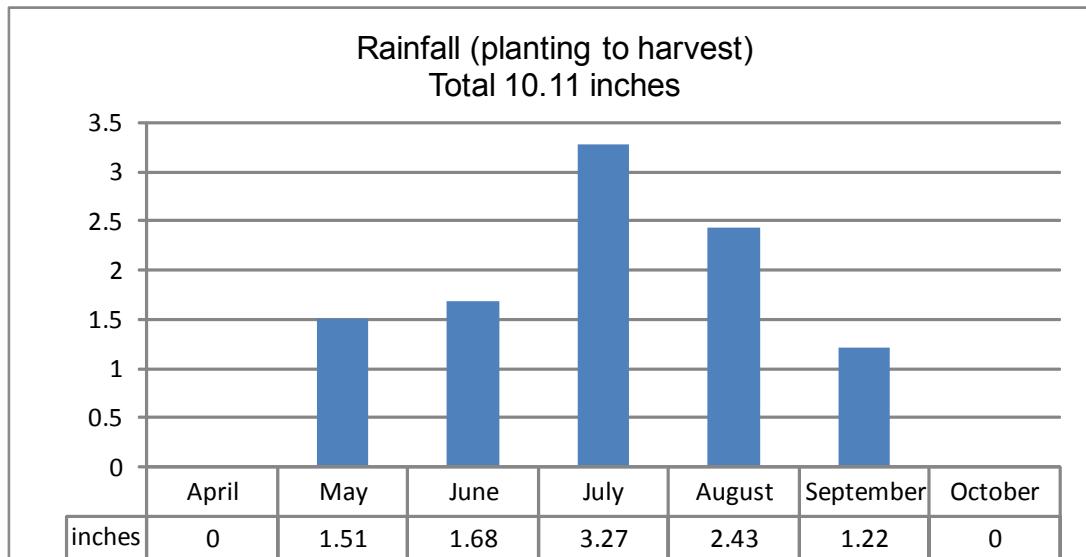
Table 15. Stoneville, MS location of the Delta Region New Entry Test in the 2010 Mississippi State University Cotton Variety Trial grown on Bosket Very Fine Sandy Loam Soil.

Variety	Lint Yield lb/a	Lint	Seed	Uniformity			Strength g/tex	Elongation %	Micronaire mic
		Percent %	Index g	Boll Size g	Length inch	Index %			
ST 5458 B2RF ck	1755	38.20	10.80	5.05	1.18	84.7	32.8	7.4	5.3
BCSX 1030 B2F	1587	40.65	9.58	4.35	1.15	84.5	28.2	7.1	4.7
ALL-TEX LA122	1583	41.13	10.00	4.18	1.17	85.0	31.5	7.6	4.9
DP 0912 B2RF ck	1570	37.55	10.05	4.3	1.12	84.5	31.9	7.8	5.5
PHY 499 WRF	1518	42.45	10.50	4.55	1.17	85.7	34.3	8.2	5.4
NG 4012 B2RF	1468	39.95	10.15	4.65	1.21	85.6	34.6	6.8	4.7
NGx F015 B2RF	1420	38.00	10.43	4.28	1.17	84.9	36.3	7.6	5.0
NG 4010 B2RF	1405	38.15	10.40	4.25	1.20	85.3	34.8	7.3	4.8
BCSX 1010 B2F	1371	37.20	11.38	4.55	1.19	84.2	31.7	6.7	4.6
PHY 375 WRF ck	1344	40.38	10.45	4.33	1.16	84.7	32.3	7.2	4.8
BCSX 1040 B2F	1294	34.05	11.20	4.85	1.24	85.7	34.2	7.2	5.0
PHY 519 WRF	1249	39.88	10.55	4.25	1.17	84.8	33.4	7.6	5.0
ALL-TEX A102	1137	38.15	10.68	4.43	1.19	85.2	32.3	7.0	4.8
MEAN	1438	38.90	10.47	4.46	1.18	84.98	32.94	7.33	4.96
LSD (P=.05)	145	1.46	0.73	0.25	0.03	1.0	1.4	0.3	0.2
R-Square	0.79	0.87	0.55	0.75	0.76	0.42	3.00	0.84	0.84
CV (%)	7.06	2.62	4.88	3.98	1.83	0.8	3.0	2.9	3.0
REPS	4	4	4	4	4	4	4	4	4

Planted May 24, Harvested on October 11, 2010.

All values represent least squares means.

Table 16. Rainfall and agronomic information for Clarksdale, MS location in the Delta Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Dubbs Soil
Soil pH	
Soil Fertility	28-0-0-5 @ 20 Gallons. (5-25-10). 32-0-0 @ 17 Gallons. (6-16-10).
Fertilizer Added	Round Up @ 32 oz., 2,4-D @ 32 oz. (3-6-10). Reflex @ 16 oz., Ammo @ 1-100. (4-30-10).
Herbicide applications	Staple LX @ 1.3 oz., Cotoran 4L @ 1.5 pts., Prowl H2O @ 1 qt. (5-6-10). Staple LX @ 2.6 oz. (6-19-10). Select @ 12 oz. (6-24-10).
Insecticide Applications	Centric @ 1 oz., Orthene @ 1/3 lb.(5-29-10). Centric @ 1 oz., Orthene @ .4lb. (6-3-10). Centric @ 2 oz.(6-10-10). (6-10-15). Carbine @ 1.75 oz., Orthene @ 1/2 lb. (6-19-10). Centrc @ 2 oz., Orthene @ 1/3 lb., Reaper @ 4 oz. (6-24-10). Carbine @ 2 oz., Brigade @1-33., Orthene @ 1/2 lb. (6-30-10). Brigade @ 1-27, Orthene @ 2/3 lb., Trimax @ 2 oz., Pix @ 12 oz. (7-10-10). Brigade @ 1-25, Orthene @ 2/3 lb., Trimax @ 2 oz. (7-15-10). Ammo 1-50, Orthene @ 3/4 Trimax @ 2 oz. (7-29-10).
Irrigation	Non-irrigated
Planting Date	May 6, 2010
Harvest Date	September 22, 2010

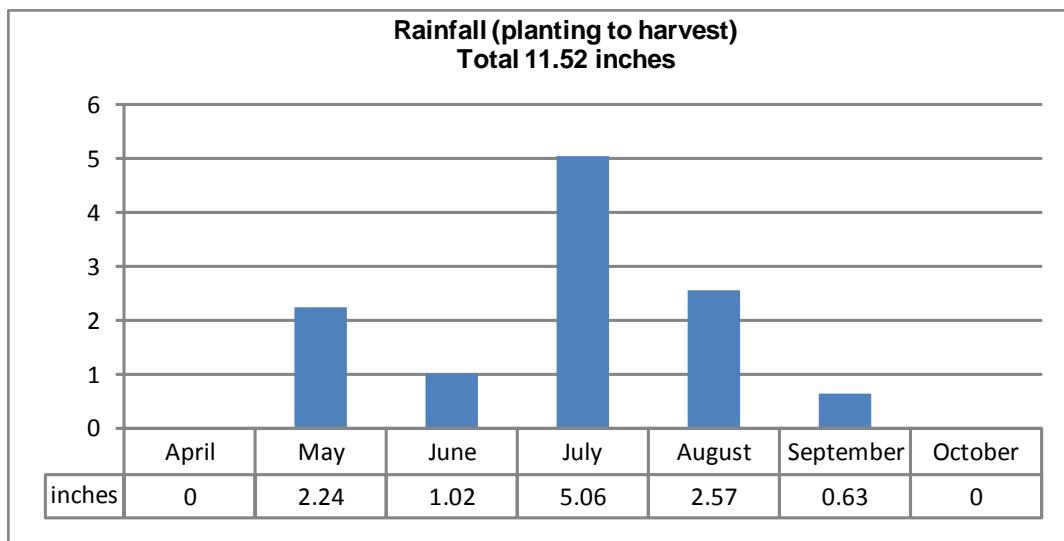
Table 17. Clarksdale, MS location of the Delta Region 2010 Mississippi State University Cotton Variety Trial grown on a Dubbs Soil.

Variety	Lint Yield lb/a	Lint Percent	Seed Index	Boll Size g	Length inch	Uniformity		Strength g/tex	Elongation %	Micronaire mic
		%	g	g	inch	Index %	Strength g/tex			
PHY 499 WRF	1771	44.4	8.83	5.03	1.05	83.7	33.2	8.0	5.0	
ST 4288 B2F	1751	37.9	10.23	5.13	1.10	83.1	26.5	6.5	4.9	
PHY 367 WRF	1619	41.0	8.55	4.50	1.07	82.4	27.8	6.9	4.8	
ST 5458 B2RF ck	1608	41.0	9.40	4.80	1.06	82.6	27.7	6.6	5.3	
DP 0924 B2RF	1589	40.8	8.75	4.50	1.04	82.7	28.4	6.9	5.1	
ST 5288 B2F	1583	41.2	8.45	4.73	1.03	82.9	28.6	7.0	5.4	
AM 1550 B2RF	1579	41.6	9.23	5.15	1.05	82.3	27.5	6.6	4.9	
DP 1133 B2RF	1577	43.9	8.65	4.55	1.07	84.0	32.3	7.5	5.1	
DP 0920 B2RF	1577	41.8	8.90	4.73	1.06	82.9	26.0	6.8	5.1	
PHY 375 WRF ck	1562	42.9	8.75	4.80	1.04	83.0	28.3	6.6	4.9	
CG 3035 RF	1561	42.6	8.98	5.38	1.06	84.0	30.8	7.8	5.1	
DP 1028 B2RF	1529	44.3	8.68	4.75	1.08	83.9	29.9	7.5	5.1	
PHY 485 WRF	1509	40.1	8.60	4.15	1.06	83.5	31.6	7.9	5.0	
DP 0935 B2RF	1500	42.4	9.15	5.15	1.05	83.0	28.0	6.6	4.9	
DP 0912 B2RF ck	1491	39.9	9.10	4.65	1.04	83.0	29.4	7.2	5.3	
PHY 565 WRF	1483	40.5	9.00	4.35	1.10	84.3	32.2	7.5	4.9	
PHY 569 WRF	1437	39.7	9.00	4.35	1.06	84.3	33.7	8.0	5.1	
DG 2570 B2RF	1436	41.1	9.23	5.20	1.05	83.0	29.1	7.5	5.0	
DP 1137 B2RF	1427	42.6	8.83	4.88	1.05	84.0	28.5	7.2	4.9	
DP 1034 B2RF	1424	42.7	9.10	4.85	1.11	84.6	28.9	7.3	5.0	
CG 3220 B2RF	1396	40.5	9.50	5.08	1.06	83.1	27.9	7.2	5.1	
CG 4020 B2RF	1384	38.9	9.28	4.60	1.07	83.4	26.6	6.8	4.7	
10R052B2R2	1380	44.5	8.60	4.48	1.06	83.5	29.6	7.5	5.1	
FM 1845 LLB2	1357	37.8	10.10	5.38	1.12	83.8	31.6	6.6	5.0	
DP 1032 B2RF	1342	42.9	8.58	4.70	1.09	83.3	29.0	6.5	5.0	
DP 1050 B2RF	1327	43.6	9.13	4.80	1.09	83.1	28.5	7.1	5.0	
DP 1048 B2RF	1324	42.6	9.15	4.70	1.10	83.7	29.6	7.3	4.9	
DP 0949 B2RF	1322	41.9	8.53	4.83	1.07	82.8	30.8	7.4	5.2	
CG 3020 B2RF	1262	38.4	9.53	5.03	1.03	83.1	27.6	7.0	4.6	
DG 2450 B2RF	1246	40.0	9.23	4.38	1.07	83.0	26.2	6.5	5.0	
FM 1740 B2F	1243	40.7	9.70	4.88	1.06	83.2	28.8	6.5	5.0	
CG 3520 B2RF	1220	39.2	8.40	4.48	1.08	83.2	25.6	6.9	4.7	
FM 1773 LLB2	1181	37.8	10.25	5.40	1.13	83.6	31.3	6.4	5.1	
SSG-HG 210 CT	1127	38.9	8.80	4.80	1.05	82.3	30.5	6.7	5.5	
MEAN	1445	41.2	9.06	4.80	1.07	83.3	29.2	7.1	5.0	
LSD (P=.05)	242	0.88	0.66	0.41	0.03	0.9	2.2	0.4	0.3	
R-Square	0.61	0.93	0.6	0.61	0.68	0.5	0.7	0.8	0.6	
CV (%)	11.94	1.52	5.19	6.03	1.87	0.8	5.3	4.0	4.1	
REPS	4	4	4	4	4	4	4	4	4	

Planted on May 6, 2010, Harvested on September 22, 2010.

All values represent least squares means.

Table 18. Rainfall and agronomic information for Rolling Fork, MS Location in the Delta Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Silty Clay Soil
Soil pH	
Soil Fertility	
Fertilizer Added	
Herbicide applications	Staple XL @ 1.3 oz., Cotoran 4L @ 1.5 pt., Prowl H2O @ 1 qt. (5-7-10).
Insecticide Applications	TRIMAZ Pro@ 1 oz (6-12-10), TRIMAX PRO @ 1.85oz (6-23-10), Bidrin@1-16., Diamond@ 6oz (6-28-10), Acephate@1 lb(7-2-10), Leverage@ 3.2 oz (7-7-10), BIDRIN@1-24 (7-12-10), Leverage@ 3.8oz (7-17-10), Acephate@ .75 lb (7-26-10), Acephate@ 1 lb (8-3-10), Acephate@ .75 lb (8-9-10) Acephate@ .5 lb (8-19-10)
Irrigation	June 10, 2010
Planting Date	May 7, 2010
Harvest Date	October 4, 2010

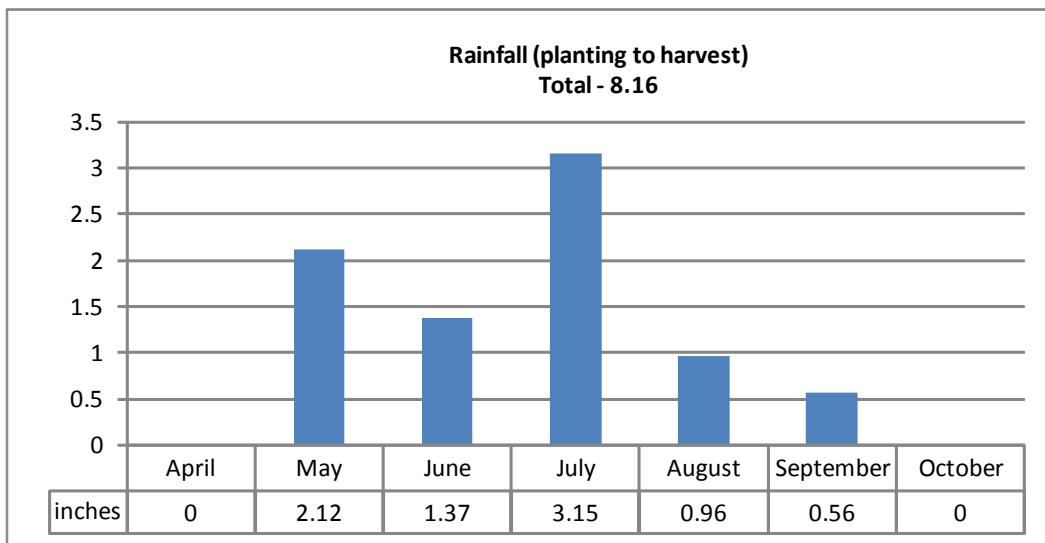
Table 19. Rolling Fork, MS location of the Delta Region 2010 Mississippi State University Cotton Variety Trial grown on a Silty Clay Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity		Strength g/tex	Elongation %	Micronaire mic
						Index %	Strength g/tex			
ST 5288 B2F	1617	39.2	9.50	5.43	1.15	84.6	29.1	7.0	5.0	
ST 5458 B2RF ck	1591	37.6	11.48	5.85	1.15	84.2	32.6	7.0	5.2	
DP 0920 B2RF	1542	40.1	10.10	4.85	1.14	84.6	27.7	6.9	4.9	
DP 1034 B2RF	1521	41.0	9.80	5.05	1.15	84.5	29.1	7.1	4.6	
DP 0935 B2RF	1510	40.3	10.65	5.33	1.10	84.5	28.9	6.9	4.7	
DP 0912 B2RF ck	1485	38.2	10.65	5.03	1.10	83.6	29.7	7.1	5.3	
DP 1032 B2RF	1476	40.2	9.40	5.13	1.14	84.4	31.4	7.0	4.8	
DP 1028 B2RF	1470	42.6	9.83	5.20	1.14	85.0	27.9	7.2	5.0	
ST 4288 B2F	1466	36.8	11.03	6.00	1.14	84.4	30.1	7.0	5.0	
FM 1740 B2F	1461	40.3	11.23	5.25	1.14	84.4	31.3	6.9	5.0	
PHY 499 WRF	1445	43.1	10.23	5.08	1.12	84.8	32.3	7.9	5.3	
AM 1550 B2RF	1389	38.8	10.55	5.30	1.11	84.4	28.9	7.1	4.8	
PHY 367 WRF	1371	38.3	10.65	4.53	1.17	84.8	30.9	7.3	4.5	
PHY 375 WRF ck	1355	40.0	10.50	4.90	1.14	85.4	29.7	6.9	4.7	
PHY 485 WRF	1354	38.5	10.85	4.85	1.14	85.5	32.0	7.9	5.1	
DP 1133 B2RF	1349	41.4	10.13	5.30	1.15	85.4	31.4	7.2	5.0	
DP 1137 B2RF	1345	42.3	10.28	5.65	1.13	84.7	28.0	7.0	4.9	
DG 2570 B2RF	1339	38.8	10.85	5.48	1.13	84.7	30.7	7.5	5.0	
CG 4020 B2RF	1334	37.3	10.38	5.10	1.15	84.9	28.1	6.9	4.4	
CG 3220 B2RF	1329	38.2	11.70	5.33	1.15	85.2	30.3	7.5	4.9	
DG 2450 B2RF	1322	37.1	11.00	5.00	1.16	85.5	30.1	7.0	4.7	
CG 3020 B2RF	1314	37.5	11.15	5.03	1.13	85.3	30.1	7.2	4.7	
PHY 565 WRF	1271	39.5	10.60	4.50	1.16	85.0	32.0	7.7	4.8	
CG 3035 RF	1255	38.8	11.10	5.10	1.13	84.6	29.5	7.5	4.8	
CG 3520 B2RF	1251	36.9	10.88	4.88	1.15	84.9	27.9	7.2	4.7	
DP 0924 B2RF	1247	38.4	10.93	5.00	1.11	84.6	29.7	7.1	5.2	
DP 0949 B2RF	1227	39.7	10.30	4.93	1.14	85.2	29.9	7.1	4.9	
10R052B2R2	1203	43.0	9.68	5.18	1.15	85.0	28.0	7.4	4.9	
DP 1050 B2RF	1176	41.6	10.18	5.08	1.17	85.4	28.2	7.2	4.7	
PHY 569 WRF	1157	39.5	10.60	4.43	1.13	85.3	32.7	8.2	5.0	
FM 1773 LLB2	1124	35.2	11.60	5.93	1.21	85.8	34.1	6.7	5.2	
DP 1048 B2RF	1073	40.8	9.70	5.28	1.16	85.0	29.0	7.1	4.6	
FM 1845 LLB2	1056	37.8	12.18	5.55	1.19	85.9	33.3	7.0	5.2	
SSG-HG 210 CT	1037	36.4	10.38	5.73	1.12	84.1	32.6	7.0	5.1	
MEAN	1337	39.3	10.59	5.18	1.14	84.9	30.2	7.2	4.9	
LSD (P=.05)	177	1.65	0.71	0.45	0.03	1.05	2.05	0.31	0.25	
R-Square	0.67	0.79	0.7	0.65	0.64	0.4	0.7	0.8	0.7	
CV (%)	9.46	3	4.8	6.18	1.74	0.9	4.9	3.1	3.7	
REPS	4	4	4	4	4	4	4	4	4	

Planted on May 7, 2010, Harvested on October 4, 2010

All values represent least squares means.

Table 20. Rainfall and agronomic information for Tribbett, MS location in the Delta Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Forestdale-like Silty Clay Loam Soil
Soil pH	
Soil Fertility	
Fertilizer Added	
Herbicide applications	Staple XL @ 1.3 oz., Cotoran 4L @ 1.5 pt., Prowl H2O @ 1 qt. (5-11-10). Staple XL @ 3 oz, Select 2EC @ 13 oz. (6-15-10).
	Vydate C-LV @ 12.8 oz. (6-18-10) (6-24-10). Bidrin 8L @ 8 oz. (7-1-10).
Insecticide Applications	Acephate 90SP @ 1 lb., Diamond @ 5 oz. (7-15-10) (7-21-10). Indigo @ 4 oz. (7-30-10). Bidrin 8L @ 8 oz., Capture 2EC @ 5.12 oz. (8-18-10).
Irrigation	July 1, 2010. July 22, 2010. August 20, 2010.
Planting Date	May 11, 2010
Harvest Date	September 29, 2010

Table 21. Tribbett, MS location of the Delta Region 2010 Mississippi State University Cotton Variety Trial grown on a Forestdale-like Silty Clay Loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity Index %		Strength g/tex	Elongation %	Micronaire mic
						Uniformity Index %	Strength g/tex			
ST 5458 B2RF ck	1654	41.05	9.75	4.90	1.11	83.5	30.6	7.2	5.5	
PHY 499 WRF	1572	42.88	9.60	5.18	1.10	84.4	31.4	7.7	5.4	
DP 1028 B2RF	1546	45.45	8.63	4.40	1.10	84.3	27.3	7.6	5.2	
DP 1032 B2RF	1541	44.10	8.63	4.58	1.10	83.1	29.0	7.0	5.2	
DP 1048 B2RF	1537	44.55	8.73	4.35	1.13	84.3	26.8	7.6	5.2	
PHY 367 WRF	1522	43.05	9.20	5.25	1.10	83.5	29.3	7.7	5.3	
PHY 375 WRF ck	1507	42.18	9.13	4.45	1.08	84.2	28.8	7.1	5.1	
DP 0920 B2RF	1487	40.80	8.73	4.35	1.10	84.1	27.5	7.2	5.3	
FM 1740 B2F	1482	41.20	10.28	4.88	1.10	84.6	31.0	7.1	5.4	
CG 4020 B2RF	1470	40.35	9.40	4.88	1.12	83.7	27.8	7.3	5.1	
DP 1137 B2RF	1462	42.75	9.08	4.93	1.10	84.1	27.8	7.6	5.3	
DP 1133 B2RF	1462	44.00	9.20	4.60	1.12	84.9	30.9	7.8	5.4	
ST 4288 B2F	1457	37.73	9.98	4.75	1.13	83.5	27.4	6.9	5.1	
DP 0912 B2RF ck	1400	39.93	9.30	4.65	1.06	83.7	30.0	7.6	5.4	
PHY 485 WRF	1399	40.63	8.85	4.28	1.08	84.2	30.8	8.2	5.4	
AM 1550 B2RF	1390	40.95	9.45	4.85	1.07	82.4	27.6	6.9	5.1	
PHY 569 WRF	1374	41.85	9.23	4.45	1.09	84.6	29.7	8.2	5.3	
10R052B2R2	1370	42.40	8.95	4.63	1.10	84.4	28.0	7.4	5.1	
CG 3220 B2RF	1369	40.00	9.88	4.90	1.10	83.5	29.3	7.3	5.1	
PHY 565 WRF	1364	40.78	9.03	4.25	1.12	84.4	30.5	7.9	5.0	
DP 1034 B2RF	1358	44.25	8.88	4.55	1.10	83.4	26.8	7.6	5.2	
DP 0935 B2RF	1327	41.93	9.20	4.90	1.07	83.3	27.6	7.1	5.1	
DG 2570 B2RF	1326	41.48	9.45	4.88	1.07	83.9	29.0	7.8	5.4	
DG 2450 B2RF	1325	38.88	9.35	4.40	1.10	83.9	27.6	7.0	4.9	
DP 0924 B2RF	1312	39.10	9.30	4.28	1.07	83.6	29.2	7.6	5.4	
ST 5288 B2F	1283	41.85	8.95	4.58	1.08	83.3	28.9	7.3	5.7	
CG 3520 B2RF	1263	38.50	9.53	4.25	1.10	83.8	27.1	7.6	5.2	
DP 1050 B2RF	1247	42.65	9.00	4.70	1.12	84.5	28.6	7.6	5.2	
DP 0949 B2RF	1217	42.18	8.98	4.35	1.08	83.6	31.0	7.5	5.5	
FM 1845 LLB2	1212	39.70	10.45	5.10	1.14	84.7	32.6	7.2	5.5	
CG 3020 B2RF	1181	38.65	9.55	4.45	1.09	83.7	29.0	7.6	4.9	
FM 1773 LLB2	1152	36.80	10.65	5.65	1.17	83.9	32.1	6.7	5.4	
CG 3035 RF	1106	42.38	9.68	5.08	1.09	84.1	29.1	8.0	5.4	
SSG-HG 210 CT	918	37.60	9.23	4.88	1.10	83.9	31.6	7.3	5.3	
MEAN	1370	41.25	9.33	4.69	1.10	83.9	29.2	7.4	5.3	
LSD (P=.05)	211	2.45	0.83	0.57	0.03	1.042	1.977	0.449	0.277	
R-Square	0.60	0.66	0.49	0.49	0.55	0.4	0.71	0.65	0.53	
CV (%)	11	4.24	6.33	8.6	2.13	0.89	4.84	4.32	3.76	
REPS	4	4	4	4	4	4	4	4	4	

Planted May 11, 2010, Harvested September 29, 2010

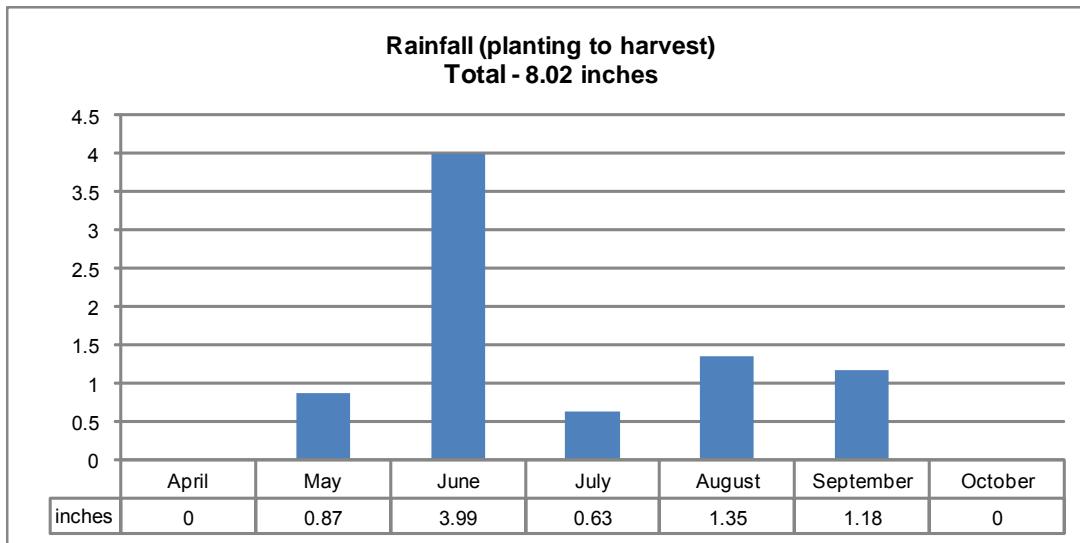
Table 22. Tribbett, MS location of the Delta Region New Entry Test in the 2010 Mississippi State University Cotton Variety Trial grown on a Forestdale-like Silty Clay Loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed		Uniformity			Elongation %	Micronaire mic
			Index g	Boll Size g	Length inch	Index %	Strength g/tex		
ST 5458 B2RF ck	1573	41.40	9.68	5.10	1.09	83.0	28.2	6.9	5.5
DP 0912 B2RF ck	1554	40.05	9.43	4.73	1.07	83.6	28.0	7.2	5.4
PHY 499 WRF	1484	45.33	9.00	4.70	1.08	83.9	31.7	8.2	5.2
BCSX 1030 B2F	1434	42.08	8.88	4.83	1.07	83.1	25.6	6.7	4.9
PHY 375 WRF ck	1386	42.68	9.10	4.70	1.07	83.0	28.3	6.9	5.0
ALL-TEX LA122	1370	42.90	9.30	4.98	1.12	84.0	28.0	7.6	5.2
BCSX 1010 B2F	1316	39.83	9.75	4.75	1.10	83.7	27.2	6.6	4.9
NG 4012 B2RF	1239	41.20	9.78	5.10	1.09	82.9	31.5	6.5	4.7
BCSX 1040 B2F	1173	35.90	9.80	4.88	1.17	84.4	31.1	7.0	4.9
PHY 519 WRF	1161	42.05	9.03	4.75	1.06	82.8	30.2	7.3	5.3
NG 4010 B2RF	1087	39.05	9.73	4.85	1.11	83.3	30.1	6.7	4.8
NGx F015 B2RF	1010	37.83	10.00	4.45	1.10	83.4	30.5	7.0	5.1
ALL-TEX A102	925	39.23	10.20	4.78	1.11	84.2	29.6	6.8	5.2
MEAN	1285	40.73	9.51	4.82	1.09	83.5	29.2	7.0	5.1
LSD (P=.05)	274	1.01	0.67	0.57	0.03	1.1	2.1	0.3	0.3
R-Square	0.62	0.94	0.54	0.31	0.76	0.44	0.69	0.85	0.72
CV (%)	14.9	1.84	4.76	7.41	1.67	0.8	4.9	3.3	3.6
REPS	4	4	4	4	4	4	4	4	4

Planted May 11, 2010, Harvested September 29, 2010.

All values represent least squares means.

Table 23. Rainfall and agronomic information for Itta Bena, MS Location in the Delta Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Dubbs Soil
Soil pH	
Soil Fertility	
Fertilizer Added	
Herbicide applications	Staple XL @ 1.3 oz., Cotoran 4L @ 1.5 pt., Prowl H2O @ 1 qt. (5-13-10).
Insecticide Applications	Not available
Irrigation	Not available
Planting Date	May 13, 2010
Harvest Date	September 28, 2010

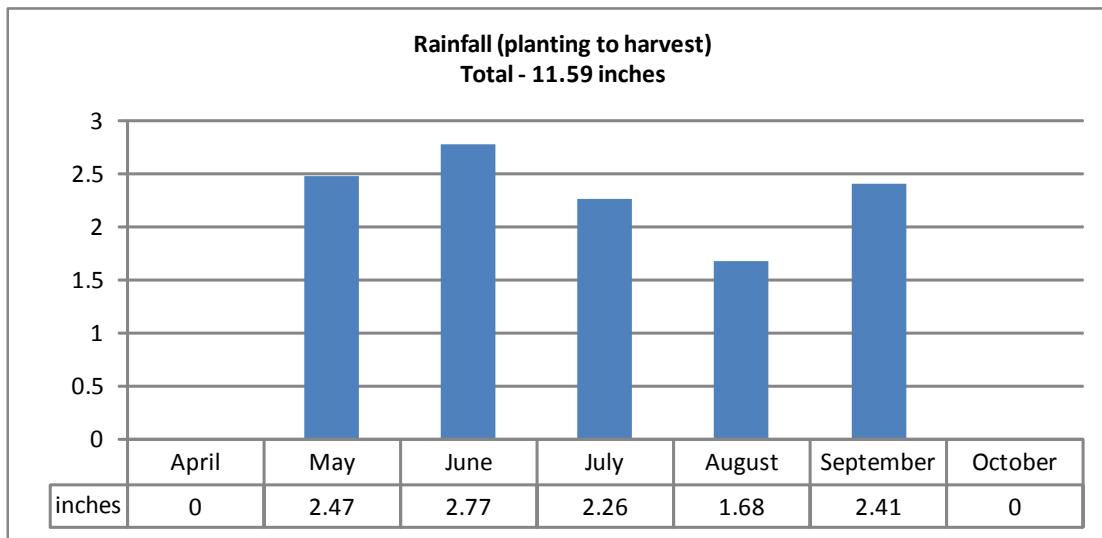
Table 24. Itta Bena, MS location of the Delta Region 2010 Mississippi State University Cotton Variety Trial grown on a Dubbs Soil.

Variety	Lint Yield lb/a	Lint Percent	Seed Index g	Boll Size g	Length inch	Uniformity Index %	Strength g/tex	Elongation %	Micronaire mic
		%	g	g	inch	Index %	g/tex	%	mic
PHY 499 WRF	1728	43.7	9.13	4.48	1.11	84.8	33.1	8.2	5.3
DP 1028 B2RF	1532	44.0	8.75	4.35	1.13	84.7	28.9	7.3	5.2
DP 1133 B2RF	1456	42.4	8.70	4.13	1.14	85.1	33.2	7.6	5.5
DP 1137 B2RF	1372	42.3	9.10	4.15	1.13	84.7	29.3	7.3	5.2
DP 1034 B2RF	1361	43.1	8.58	4.18	1.11	84.5	28.5	7.3	5.2
ST 5288 B2F	1360	40.0	8.85	4.43	1.10	83.8	30.5	7.3	5.8
10R052B2R2	1345	44.7	8.55	4.00	1.12	84.1	29.5	7.6	5.4
DP 1048 B2RF	1338	42.0	8.70	4.13	1.12	83.9	29.1	7.4	5.2
DP 0912 B2RF ck	1337	40.7	9.33	4.20	1.07	83.6	29.6	7.2	5.5
DP 1032 B2RF	1334	43.8	8.20	4.20	1.12	83.8	29.9	6.8	5.2
PHY 569 WRF	1327	39.5	9.45	3.80	1.12	85.0	34.0	8.5	5.4
PHY 375 WRF ck	1313	41.8	9.48	4.13	1.11	84.7	30.3	7.1	5.3
DP 0920 B2RF	1313	41.6	8.15	4.15	1.11	84.0	27.5	7.0	5.3
DP 0935 B2RF	1303	42.4	9.08	4.53	1.07	83.3	28.9	6.8	5.1
DG 2570 B2RF	1291	41.3	9.38	4.68	1.10	84.3	30.7	7.8	5.3
ST 4288 B2F	1275	37.9	10.28	4.58	1.11	83.1	28.0	6.8	5.0
PHY 367 WRF	1251	41.2	9.03	4.08	1.11	83.6	29.5	7.1	5.0
DP 0924 B2RF	1243	40.0	9.20	4.40	1.08	84.1	30.7	7.2	5.3
CG 3220 B2RF	1220	41.7	9.38	4.28	1.11	84.0	29.9	7.6	5.0
CG 3520 B2RF	1207	38.6	9.20	3.90	1.11	83.7	29.0	7.3	5.0
PHY 565 WRF	1196	39.0	8.98	3.65	1.13	84.9	32.7	7.9	5.2
DP 0949 B2RF	1196	41.0	9.20	3.80	1.12	83.9	32.6	7.4	5.5
DG 2450 B2RF	1195	39.8	9.28	3.58	1.10	83.4	27.8	6.5	4.7
ST 5458 B2RF ck	1194	41.1	9.53	4.30	1.09	83.2	31.2	6.9	5.5
AM 1550 B2RF	1181	40.6	9.43	4.45	1.07	83.2	27.3	6.8	5.0
DP 1050 B2RF	1177	43.9	8.84	4.05	1.12	84.7	29.9	7.4	5.2
FM 1773 LLB2	1132	37.8	9.73	4.68	1.15	84.1	33.9	6.7	5.4
CG 3035 RF	1080	41.6	9.75	4.68	1.09	84.1	30.6	7.7	5.2
FM 1845 LLB2	1076	37.9	10.18	4.43	1.13	84.4	34.0	7.0	5.4
PHY 485 WRF	1071	38.0	9.00	3.65	1.11	83.9	33.0	8.2	5.1
CG 3020 B2RF	1060	36.4	10.05	4.23	1.09	84.0	29.8	7.3	5.0
FM 1740 B2F	1059	40.7	10.08	4.45	1.10	83.6	29.2	6.7	4.9
CG 4020 B2RF	1034	39.0	9.40	4.15	1.11	83.8	27.9	6.8	4.7
SSG-HG 210 CT	829	38.1	8.95	4.28	1.09	83.2	32.9	7.1	5.4
MEAN	1247	40.8	9.20	4.21	1.11	84.0	30.4	7.3	5.2
LSD (P=.05)	203	1.50	0.76	0.41	0.03	1.1	1.9	0.3	0.2
R-Square	0.63	0.85	0.55	0.59	0.50	0.40	0.74	0.83	0.72
CV (%)	11.63	2.55	5.9	7.01	2.10	1.0	4.6	3.4	3.2
REPS	4	4	4	4	4	4	4	4	4

Planted April 12, replanted May 13, Harvested on September 10, 2010.

All values represent least squares means.

Table 25. Rainfall and agronomic information for Miss. State, MS location in the Hill Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Texture and Maintain Information for Starkville, MS Location in the 2010 MSU Cotton Variety Trials	
Soil Type	Marietta Fine Sandy Loam
Soil pH	
Soil Fertility	
Fertilizer Added	0-0-60 @ 200 lbs. (3-1-10). 32% N @ 50 lbs. (4-18-10). 32% N @ 75 lbs. (6-28-10).
Herbicide applications	Roundup PowerMax @ 32 oz. (4-18-10). Roundup PowerMax @ 22 oz. (5-20-10). Dual II Magnum @ 16 oz. (5-20-10). Select @ 32 oz. (6-14-10). Envoke @ .1 oz. (7-9-10).
Insecticide Applications	Consero @ 4 oz. (7-20-10). Karate @ 4 oz. (8-6-10). Centric @ 2.4 oz. (8-6-10). Karate @ 4 oz. (8-13-10).
Irrigation	Yes
Planting Date	May 19, 2010
Harvest Date	October 7, 2010

Table 26. Miss. State, MS location of the Hill Region 2010 Mississippi State University Cotton Variety Trial grown on a Marietta Fine Sandy Loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity			Micronaire mic
						Index %	Strength g/tex	Elongation %	
PHY 499 WRF	1963	44.85	9.53	5.03	1.13	85.2	30.9	7.6	5.1
DP 1034 B2RF	1944	44.13	9.48	4.73	1.17	84.8	27.3	7.0	4.7
DP 1028 B2RF	1839	44.83	9.18	4.68	1.17	85.2	27.8	7.2	4.8
DP 0935 B2RF	1811	42.60	10.13	5.05	1.15	83.9	28.3	6.8	4.6
DP 1137 B2RF	1804	43.93	9.48	4.93	1.13	84.5	27.9	7.0	4.8
10R052B2R2	1778	45.18	9.48	4.68	1.16	84.7	27.3	7.1	4.9
DP 1050 B2RF	1725	45.25	9.58	4.75	1.16	84.3	27.7	7.0	4.9
DP 1032 B2RF	1697	43.78	10.05	4.53	1.16	84.3	29.5	6.6	4.9
PHY 565 WRF	1660	40.95	9.58	4.65	1.15	84.8	31.1	7.4	5.0
AM 1550 B2RF	1646	41.50	10.03	5.10	1.11	83.8	26.5	6.6	4.8
ST 5288 B2F	1636	41.30	9.95	4.98	1.13	83.5	28.6	6.9	5.3
DP 1048 B2RF	1612	44.65	9.40	4.70	1.16	84.4	27.0	6.9	4.8
DP 1133 B2RF	1610	44.65	9.43	4.68	1.17	85.1	31.1	7.0	4.9
DG 2570 B2RF	1587	41.03	10.13	4.78	1.13	84.1	28.9	7.2	5.0
ST 5458 B2RF ck	1569	40.98	9.90	5.15	1.15	83.6	30.1	6.9	5.2
PHY 569 WRF	1563	39.95	9.88	4.15	1.14	84.6	30.7	7.8	5.2
CG 3035 RF	1560	41.98	9.88	4.88	1.12	83.7	29.0	7.3	4.8
FM 1845 LLB2	1549	39.38	11.58	5.58	1.21	85.5	32.6	6.8	5.0
DP 0912 B2RF ck	1527	40.63	9.68	4.85	1.09	83.9	29.1	7.1	5.2
DP 0920 B2RF	1518	41.20	9.58	4.55	1.13	83.6	27.3	6.6	4.9
PHY 367 WRF	1516	41.38	9.80	4.30	1.17	84.3	29.3	6.9	4.7
ST 4288 B2F	1473	39.20	11.28	5.38	1.14	83.2	26.5	6.6	4.9
DP 0924 B2RF	1469	39.63	9.98	4.63	1.13	83.9	28.7	6.9	4.9
PHY 485 WRF	1456	40.15	10.10	4.20	1.13	84.2	30.7	7.3	5.0
CG 3220 B2RF	1449	40.48	10.15	5.10	1.14	84.9	29.5	7.2	4.8
FM 1773 LLB2	1441	38.70	12.38	5.78	1.16	83.9	32.4	6.6	5.4
FM 1740 B2F	1423	41.55	10.45	4.90	1.14	84.6	28.1	6.4	4.9
PHY 375 WRF ck	1403	41.90	9.95	4.58	1.14	84.6	29.8	6.8	4.7
DG 2450 B2RF	1351	40.18	9.85	4.45	1.12	84.4	27.6	6.6	4.6
SSG-HG 210 CT	1314	38.05	9.73	4.63	1.14	83.7	30.2	6.7	5.2
DP 0949 B2RF	1284	41.53	9.93	4.53	1.12	84.0	28.5	6.6	4.9
CG 4020 B2RF	1240	38.93	9.50	4.43	1.15	84.9	28.3	6.6	4.4
CG 3020 B2RF	1112	37.10	10.15	4.25	1.09	83.9	28.4	6.7	4.3
CG 3520 B2RF	1072	38.15	9.88	4.35	1.15	84.0	27.9	6.8	4.5
MEAN	1547	41.50	9.97	4.76	1.14	84.3	28.9	6.9	4.9
LSD (P=.05)	244	1.31	0.75	0.43	0.03	1.1	1.7	0.3	0.3
R-Square	0.66	0.89	0.69	0.66	0.67	0.42	0.71	0.77	0.70
CV (%)	11.26	2.26	5.40	6.50	1.96	0.94	4.14	3.03	3.72
REPS	4	4	4	4	4	4	4	4	4

Planted on May 10, 2010, Harvested on October 7, 2010.

All values represent least squares means.

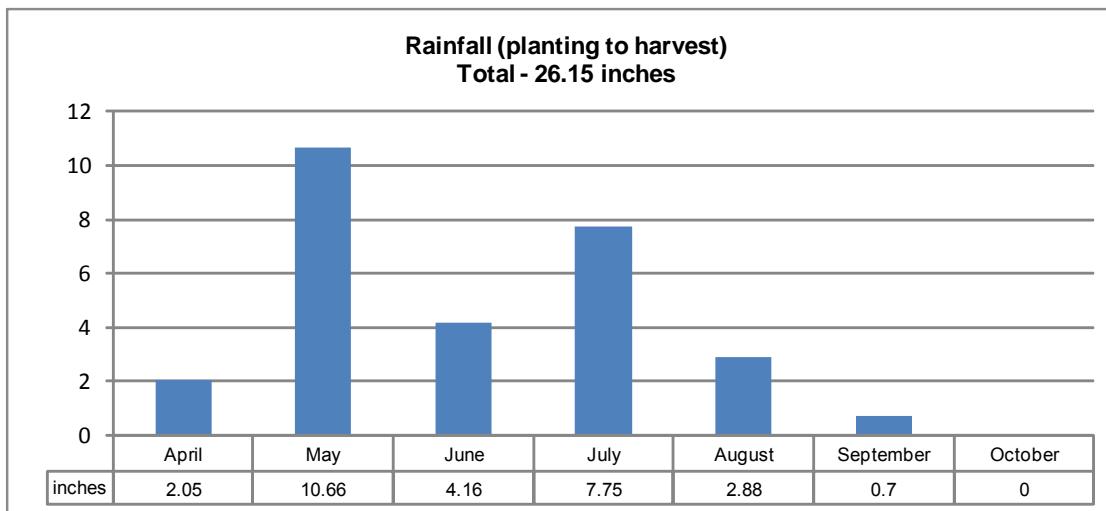
Table 27. Miss. State, MS location of the Hill Region New Entry Test in the 2010 Mississippi State University Cotton Variety Trial grown on a Marietta Fine Sandy Loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity		Strength g/tex	Elongation %	Micronaire mic
						Index	%			
PHY 499 WRF	2001	45.81	9.85	4.88	1.09	84.1	32.1	8.1	5.3	
PHY 519 WRF	1902	41.44	10.15	4.86	1.13	83.8	31.9	7.2	4.9	
NG 4012 B2RF	1568	41.95	9.95	5.17	1.14	83.3	31.5	6.4	4.7	
DP 0912 B2RF ck	1540	40.10	9.55	4.59	1.10	83.4	29.7	7.1	5.0	
PHY 375 WRF ck	1532	42.64	9.25	4.62	1.12	84.3	31.8	7.0	4.7	
ALL-TEX A102	1490	39.74	10.70	5.31	1.15	83.9	29.9	6.5	4.6	
ST 5458 B2RF ck	1470	41.56	10.20	4.84	1.13	82.9	31.2	7.1	5.2	
ALL-TEX LA122	1450	43.61	9.30	4.76	1.13	83.8	30.5	7.5	5.1	
BCSX 1010 B2F	1442	40.34	10.25	4.64	1.17	83.9	29.8	6.5	4.7	
NG 4010 B2RF	1399	40.92	9.98	5.27	1.12	84.5	33.1	7.3	5.1	
BCSX 1030 B2F	1375	42.67	9.33	4.51	1.11	84.4	29.3	6.8	4.3	
NGx F015 B2RF	1312	39.49	10.38	4.55	1.13	84.0	34.1	7.3	5.2	
BCSX 1040 B2F	1171	36.30	10.80	4.74	1.21	85.4	32.7	6.8	4.8	
MEAN	1512	41.27	9.98	4.83	1.13	84.5	31.3	7.0	4.9	
LSD (P=.05)	300	1.38	0.61	0.58	0.03	1.3	1.7	0.3	0.3	
R-Square	0.60	0.89	0.69	0.48	0.7	0.42	0.7	0.89	0.7	
CV (%)	13.90	4.30	4.30	8.40	2.14	1.1	3.8	2.7	4.6	
REPS	4	4	4	4						

Planted May 13, 2010 , Harvested on October 7, 2010.

All values represent least squares means.

Table 28. Rainfall and agronomic information for Verona, MS location in the Hill Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Leeper Silty loam
Soil pH	
Soil Fertility	
Fertilizer Added	0-0-60 @ 200 lb., 18-46-0 @ 150 lb. (11-16-09). 32 % UAN @ 70 lb. (6-22-10).
Herbicide applications	Roundup PowerMax @ 30 oz. (4-6-10). Roundup PowerMax @ 22oz., Aim @ 1.5 oz. (5-18-10). Gramoxone @ 2.5 pt., Dual Magnum @ 1.2 pt., Cotoran @ 2 pt., Staple LX @ 1.5 oz. (6-4-10). Assure II @ 12 oz., Staple LX @ 2.6 oz. (7-6-10). MSMA @ 2.7 pt., Diuron @ 1.6 pt. (7-23-10).
Insecticide Applications	Centric @ 2 oz. (7-16-10). Tracer @ 10 oz., Karate @ 10 oz. (7-21-10). Tracer @ 2 oz., Karate @ 2 oz. (8-3-10) (8-11-10). Tracer @ 2.5 oz., Karate @ 2 oz. (8-26-10).
Irrigation	Non-irrigated
Planting Date	June 1, 2010
Harvest Date	October 14, 2010

Table 29. Verona , MS location of the Hill Region 2010 Mississippi State University Cotton Variety Trial grown on a Leeper Silty loam Soil.

Variety	Lint Yield lb/a	Percent	Seed Index g	Boll Size g	Length inch	Uniformity			
						Index %	Strength g/tex	Elongation %	Micronaire mic
PHY 499 WRF	1370	44.23	9.58	4.73	1.15	85.8	31.8	8.0	5.1
ST 5458 B2RF ck	1302	40.25	10.85	4.85	1.16	84.4	32.4	7.3	5.2
DP 0935 B2RF	1294	41.80	9.83	4.98	1.14	84.8	29.6	7.1	4.7
PHY 367 WRF	1288	42.27	9.65	4.60	1.17	84.8	29.4	7.3	4.8
PHY 375 WRF ck	1288	42.28	9.65	4.60	1.13	84.0	30.3	7.0	4.7
DP 1137 B2RF	1280	43.50	9.38	4.45	1.15	85.6	29.9	7.4	4.9
DP 1034 B2RF	1274	43.05	9.53	4.35	1.17	84.5	29.6	7.4	4.9
DG 2570 B2RF	1264	41.23	10.15	5.10	1.12	85.0	30.3	7.9	5.1
DP 1028 B2RF	1257	44.53	9.28	4.35	1.14	84.8	28.7	7.5	5.2
DP 1133 B2RF	1249	43.35	9.15	3.98	1.18	85.4	32.9	7.7	4.9
DP 1032 B2RF	1235	42.38	9.05	4.43	1.18	85.4	31.1	7.1	4.9
CG 3220 B2RF	1226	41.13	10.13	4.88	1.14	85.2	30.1	7.8	5.1
FM 1740 B2F	1223	41.18	10.78	4.83	1.15	84.8	30.9	6.9	5.0
10R052B2R2	1222	44.20	9.03	4.28	1.16	84.6	29.6	7.5	4.9
DP 0912 B2RF ck	1214	40.25	10.13	4.35	1.12	85.0	30.9	7.4	5.2
DP 1050 B2RF	1212	43.50	9.43	4.15	1.19	85.2	28.9	7.1	4.7
PHY 565 WRF	1205	39.08	9.88	3.80	1.18	85.0	32.9	7.8	4.6
DP 1048 B2RF	1200	42.95	9.53	4.40	1.18	85.7	28.7	7.6	4.9
DP 0924 B2RF	1199	40.15	9.98	3.85	1.13	84.6	31.2	7.4	5.1
CG 3035 RF	1198	42.55	9.58	4.83	1.12	85.1	29.9	7.9	5.1
AM 1550 B2RF	1195	41.70	9.55	4.58	1.10	84.1	28.0	7.0	4.9
DP 0920 B2RF	1187	41.35	9.33	4.10	1.16	85.0	28.4	7.0	4.8
DP 0949 B2RF	1181	42.30	9.63	4.13	1.16	85.0	32.2	7.5	4.9
ST 5288 B2F	1163	39.48	9.20	4.85	1.15	84.5	29.8	7.2	5.1
PHY 485 WRF	1149	39.43	9.53	4.18	1.14	84.6	32.1	8.0	5.0
DG 2450 B2RF	1136	39.15	9.85	4.23	1.16	84.9	29.0	6.9	4.6
CG 3520 B2RF	1120	39.18	9.88	4.10	1.17	85.5	29.2	7.3	4.7
CG 4020 B2RF	1107	38.98	10.03	4.10	1.18	85.5	29.1	7.2	4.6
PHY 569 WRF	1105	39.18	9.53	3.85	1.15	85.5	31.3	7.7	4.9
CG 3020 B2RF	1090	38.48	9.98	4.35	1.12	85.2	29.0	7.3	4.7
FM 1773 LLB2	1087	37.48	11.63	4.80	1.23	85.4	34.5	6.9	5.1
FM 1845 LLB2	1071	38.05	11.30	4.98	1.22	85.8	34.4	7.1	4.9
ST 4288 B2F	1059	38.13	11.20	4.85	1.16	84.3	29.1	6.9	5.0
SSG-HG 210 CT	982	39.00	9.35	4.40	1.15	84.4	32.1	7.1	5.2
MEAN	1192	41.16	9.80	4.44	1.16	85.0	30.5	7.3	4.9
LSD (P=.05)	93	1.11	0.47	0	0.03	1.0	1.3	0.3	0.3
R-Square	0.69	0.90	0.84	0.61	0.75	0.39	0.81	0.77	0.56
CV (%)	5.60	3.43	7.81	5.59	1.73	0.9	3.1	3.1	4.0
REPS	4	4	4	4	4	4	4	4	4

Planted on June 1, 2010, Harvested on October 14, 2010.

All values represent least squares means.

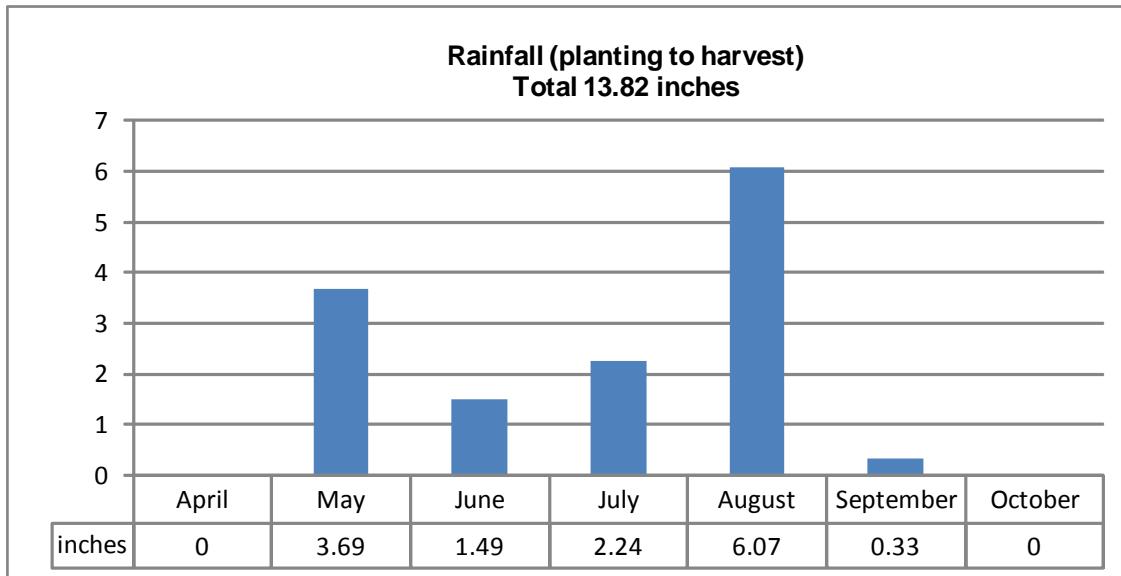
Table 30. Verona, MS location of the Hill Region New Entry Test in the 2010 Mississippi State University Cotton Variety Trial grown on a Leeper Silty loam Soil.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity			Micronaire mic
						Index %	Strength g/tex	Elongation %	
PHY 499 WRF	1202	45.45	9.73	4.78	1.10	84.8	32.5	8.0	5.2
PHY 375 WRF ck	1133	43.60	9.75	4.70	1.10	84.3	31.1	7.4	5.2
ST 5458 B2RF ck	1130	42.15	10.35	4.83	1.13	85.2	32.2	7.6	5.4
DP 0912 B2RF ck	1124	41.28	9.53	4.53	1.10	84.2	31.2	7.5	5.3
BCSX 1030 B2F	1091	43.98	9.35	4.28	1.10	84.1	27.3	6.9	5.0
PHY 519 WRF	1082	42.10	9.93	4.68	1.12	84.1	32.3	7.6	5.1
NG 4012 B2RF	1065	42.88	9.65	4.78	1.11	84.5	32.3	6.8	5.0
BCSX 1010 B2F	1046	41.43	10.10	4.75	1.13	84.9	29.1	6.6	4.9
ALL-TEX LA122	1006	42.45	9.43	4.48	1.13	85.0	29.8	7.6	4.8
NG 4010 B2RF	962	41.15	10.03	4.53	1.13	85.0	32.6	7.5	5.2
ALL-TEX A102	955	40.48	10.15	4.73	1.14	84.4	31.5	6.9	4.8
NGx F015 B2RF	922	39.70	10.20	4.38	1.10	84.3	33.8	7.7	5.3
BCSX 1040 B2F	889	36.05	11.00	4.45	1.21	86.2	33.1	7.3	5.0
MEAN	1047	41.75	9.94	4.61	1.12	84.7	31.4	7.3	5.1
LSD (P=.05)	101	0.89	0.63	0.19	0.03	0.9	1.6	0.3	0.2
R-Square	0.72	0.95	0.68	0.76	0.71	0.54	0.77	0.8	0.65
CV (%)	6.74	1.45	4.40	2.82	2.04	0.8	3.6	3.3	3.4
REPS	4	4	4	4	4	4	4	4	4

Planted June 1 , Harvested on October 14, 2010.

All values represent least squares means.

Table 31. Rainfall and agronomic information for Raymond, MS location in the Hill Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Type	Loring Silt Loam
Fertilizer Added	
Herbicide applications	Staple LX @ 1.3 oz., Cotoran 4L @ 1.5 pt., Prowl H2O @ 1qt. (5-5-10).
	Staple LX @ 3.8 oz. (6-23-10).
Insecticide Applications	n/a
Irrigation	Non-irrigated
Planting Date	May 5, 2010
Harvest Date	September 21, 2010

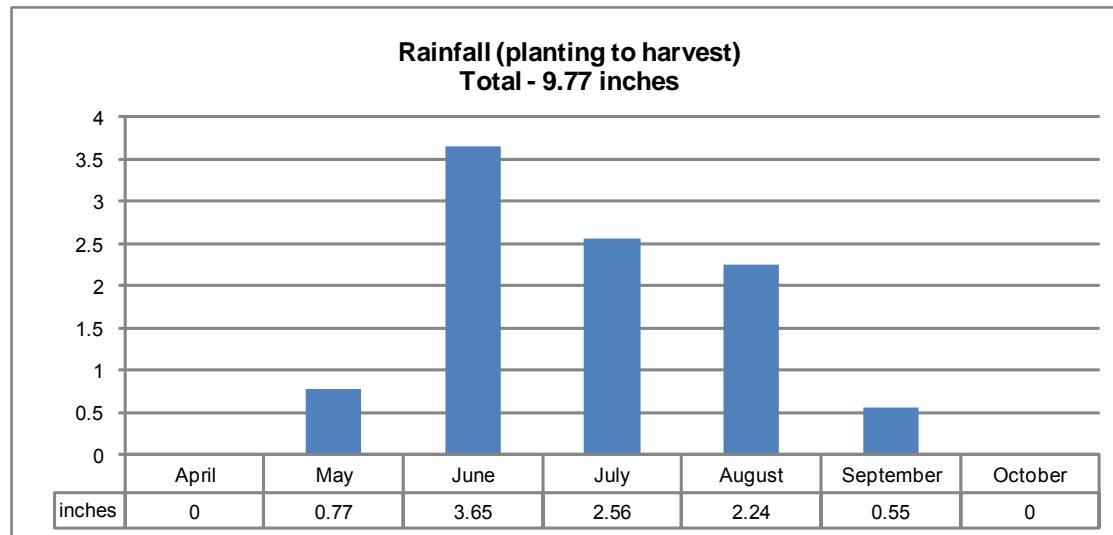
Table 32. Raymond, MS location of the Hill Region 2010 Mississippi State University Cotton Variety Trial grown on a Loring Silty Loam Soil.

Variety	Lint Yield lb/a	Percent %	Seed Index g	Boll Size g	Length inch	Uniformity Index %	Uniformity		
							Strength g/tex	Elongation %	Micronaire mic
DP 1028 B2RF	1445	46.9	8.75	4.70	1.06	83.7	29.0	7.4	5.3
PHY 499 WRF	1372	47.9	9.00	4.75	1.04	84.1	31.6	8.0	5.2
DP 1137 B2RF	1371	46.3	9.25	4.75	1.05	84.0	27.8	7.1	5.1
DP 1050 B2RF	1363	47.3	8.73	4.63	1.09	84.2	28.1	7.2	5.1
10R052B2R2	1356	47.9	8.70	4.65	1.06	83.9	28.6	7.5	5.3
ST 5288 B2F	1284	44.2	8.63	4.73	1.02	82.4	28.1	6.8	5.3
DP 0935 B2RF	1276	46.0	9.10	5.15	1.02	83.0	28.7	6.7	5.3
DP 1048 B2RF	1271	46.1	9.20	4.73	1.08	84.8	28.4	7.4	4.9
DP 1032 B2RF	1260	46.5	8.75	4.50	1.08	83.8	29.3	6.7	5.2
DP 1034 B2RF	1253	46.5	9.05	4.65	1.07	83.9	28.4	7.3	5.0
PHY 569 WRF	1234	44.8	8.85	4.28	1.03	83.9	30.1	7.8	5.2
DP 1133 B2RF	1230	47.0	8.68	4.55	1.08	83.6	31.5	7.3	5.2
PHY 565 WRF	1217	43.7	8.85	4.73	1.05	83.4	30.7	7.7	5.0
PHY 367 WRF	1210	44.2	8.83	4.55	1.07	83.6	28.9	7.0	4.7
DP 0912 B2RF ck	1202	44.6	9.18	4.48	1.01	83.6	29.2	7.1	5.5
FM 1740 B2F	1179	44.4	9.18	4.88	1.05	83.2	28.7	6.5	4.7
PHY 375 WRF ck	1158	44.9	8.85	4.75	1.03	82.8	28.6	6.8	4.8
DP 0924 B2RF	1144	44.0	9.05	4.73	1.01	83.3	28.1	7.2	5.2
CG 3035 RF	1124	45.8	9.10	5.05	1.04	83.9	27.8	7.3	5.1
DP 0920 B2RF	1097	44.8	9.23	4.48	1.04	83.5	27.1	6.9	5.0
AM 1550 B2RF	1093	44.6	9.28	4.85	1.02	83.6	26.0	6.5	4.7
DG 2450 B2RF	1093	43.6	9.10	4.33	1.06	83.2	26.7	6.6	4.8
SSG-HG 210 CT	1083	42.0	9.18	4.38	1.03	82.9	31.3	7.0	5.4
CG 3220 B2RF	1075	45.1	9.43	4.55	1.05	83.2	28.2	7.1	4.9
DG 2570 B2RF	1064	44.4	9.10	5.30	1.04	83.7	28.1	7.2	5.0
FM 1845 LLB2	1054	42.1	9.75	5.28	1.11	84.1	31.5	6.7	5.0
PHY 485 WRF	1051	42.7	8.85	4.23	1.03	83.6	30.8	7.6	5.1
CG 3520 B2RF	1048	42.8	9.35	4.85	1.05	83.2	27.9	7.1	4.7
DP 0949 B2RF	1029	45.5	9.08	4.18	1.03	83.1	29.3	7.2	5.4
ST 4288 B2F	990	40.7	9.25	5.15	1.08	83.7	28.2	6.9	4.9
ST 5458 B2RF ck	981	43.8	9.53	4.75	1.04	82.9	27.4	6.7	5.4
FM 1773 LLB2	970	42.1	9.78	5.28	1.09	82.9	31.6	6.4	4.9
CG 3020 B2RF	929	41.3	9.13	4.90	1.04	83.9	26.2	6.8	4.2
CG 4020 B2RF	904	42.5	9.15	4.33	1.06	83.1	26.1	6.7	4.5
MEAN	1159	44.6	9.08	4.71	1.05	83.5	28.8	7.1	5.0
LSD (P=.05)	160	1.13	0.69	0.53	0.02	0.8	1.6	0.3	0.2
R-Square	0.72	0.88	0.35	0.52	0.73	0.5	0.8	0.8	0.8
CV (%)	9.84	1.82	5.44	8.07	1.66	0.7	4.0	3.3	3.5
REPS	4	4	4	4	4	4	4	4	4

Planted on May 5, 2010, Harvested on September 21, 2010

All values represent least squares means.

Table 33. Rainfall and agronomic information for Senatobia, MS location in the Hill Region of 2010 Mississippi State University Cotton Variety Trials.



Soil Texture and Maintain Information for Senatobia, MS Location in the 2010 MSU Cotton Variety Trials	
Soil Type	Memphis Silt Loam
Soil pH	
Soil Fertility	
Fertilizer Added	Nsol @ 12 gal. (4-21-10). Nsol @ 10 gal. (6-10-10). (6-12-10).
	Honcho @ 32 oz. (4-16-10). Pendimethalin @ 1:6.6 (4-21-10).
Herbicide applications	Staple LX @ 1.2 oz., Cotoran @ 1 qt., Roundup @ 22 oz. (5-13-10). Sequence @ 1:3.2 (6-9-10). MSMA @ 1:3, Cotton Pro @ 1:6. (6-22-10).
Insecticide Applications	Dimethoate @ 1:20. (6-3-10). Acephate @ 1:2.5. (6-9-10). Acephate @ 1:2 (7-12-10). Leverage @ 1:40 (7-29-10). Acephate @ 1:2, Upside @ 1:40. (8-13-10).
Irrigation	Non-irrigated
Planting Date	May 13, 2010
Harvest Date	October 5, 2010

Table 34. Senatobia, MS location of the Hill Region 2010 Mississippi State University Cotton Variety Trial grown on a Memphis Silty Loam.

Variety	Lint Yield lb/a	Lint Percent %	Seed Index g	Boll Size g	Length inch	Uniformity			
						Index %	Strength g/tex	Elongation %	Micronaire mic
DP 0912 B2RF ck	1432	41.00	10.18	4.60	1.06	82.9	28.4	6.9	5.0
DP 1032 B2RF	1384	44.38	8.85	4.18	1.10	83.1	29.1	6.5	5.1
ST 5288 B2F	1344	42.23	8.80	4.63	1.06	83.2	27.4	6.8	5.2
DP 0924 B2RF	1306	41.45	10.43	4.33	1.06	83.1	29.6	7.1	5.1
DP 0935 B2RF	1301	43.58	10.00	4.30	1.05	82.4	28.5	6.6	4.9
DP 0920 B2RF	1297	42.95	9.30	4.58	1.08	82.8	26.4	6.7	5.0
ST 5458 B2RF ck	1268	42.08	10.05	4.85	1.09	82.9	29.5	6.8	5.1
DG 2570 B2RF	1262	42.95	9.90	4.68	1.05	84.2	29.1	7.4	4.8
DG 2450 B2RF	1262	42.43	9.33	4.43	1.08	83.6	26.2	6.4	4.7
DP 1028 B2RF	1239	44.63	9.08	4.45	1.07	83.6	29.2	7.1	5.0
10R052B2R2	1213	45.30	9.38	4.60	1.10	84.4	28.5	7.3	5.1
DP 1034 B2RF	1204	44.20	9.03	4.68	1.10	83.7	29.0	7.2	4.9
DP 1048 B2RF	1204	43.95	8.80	4.43	1.09	82.8	27.2	6.9	5.0
DP 1133 B2RF	1195	44.88	8.83	4.45	1.08	83.6	30.9	7.2	5.2
CG 3520 B2RF	1195	40.93	9.63	4.40	1.09	83.7	26.2	6.8	4.6
DP 1050 B2RF	1181	44.25	9.40	4.38	1.10	83.7	28.3	7.0	4.9
PHY 499 WRF	1168	45.85	8.70	4.08	1.05	84.5	31.4	7.8	4.9
PHY 375 WRF ck	1160	44.13	9.13	4.30	1.07	83.5	30.4	6.9	5.0
DP 1137 B2RF	1146	42.98	9.28	4.93	1.08	84.4	28.0	6.9	5.0
DP 0949 B2RF	1138	43.25	9.58	4.25	1.09	83.3	29.7	7.1	5.2
ST 4288 B2F	1135	39.50	10.35	4.90	1.08	83.5	26.7	6.5	4.8
AM 1550 B2RF	1098	42.98	9.63	4.80	1.04	83.2	26.6	6.5	4.8
PHY 367 WRF	1092	43.23	9.08	3.80	1.09	83.2	28.6	7.0	4.9
CG 3220 B2RF	1060	42.45	10.13	4.40	1.07	84.2	29.0	7.1	5.0
FM 1740 B2F	1055	42.18	10.05	4.83	1.08	83.1	29.5	6.7	4.8
FM 1773 LLB2	1015	38.50	11.55	5.05	1.14	83.1	31.6	6.4	4.9
CG 4020 B2RF	1004	41.90	9.50	4.43	1.08	82.8	25.9	6.6	4.6
PHY 569 WRF	999	41.70	9.15	3.55	1.04	83.7	31.0	8.0	5.2
FM 1845 LLB2	992	39.98	11.65	4.73	1.15	83.9	32.2	6.6	5.1
PHY 565 WRF	968	41.78	9.25	3.83	1.08	84.1	31.5	7.8	5.0
CG 3020 B2RF	953	40.33	9.75	3.98	1.05	83.5	26.3	6.6	4.5
PHY 485 WRF	937	41.18	8.98	3.90	1.06	83.2	30.7	7.4	5.2
CG 3035 RF	586	43.83	10.00	4.30	1.05	83.8	30.7	7.8	5.2
SSG-HG 210 CT	415	38.80	9.43	4.65	1.08	83.3	32.9	7.2	5.6
MEAN	1124	42.52	9.59	4.43	1.08	83.5	29.0	7.0	5.0
LSD (P=.05)	247	1.15	0.69	0.60	0.03	0.9	1.8	0.3	0.3
R-Square	0.64	0.87	0.73	0.47	0.58	0.5	0.8	0.8	0.6
CV (%)	15.7	1.93	5.14	9.67	2.24	0.8	4.4	3.4	4.2
REPS	4	4	4	4	4	4	4	4	4

Planted on May 13, 2010, Harvested on October 5, 2010.
All values represent least squares means.

PREMIUMS AND DISCOUNTS FOR GRADE, STAPLE LENGTH, AND LEAF CONTENT OF 2010-CROP AMERICAN UPLAND COTTON 1

Color 2/ W H I T E	Leaf	2010 Loan Rates (points per lb.)								
		Staple 3/								
		26-29	30	31	32	33	34	35	36	37 +
11 & 21	SM & better Leaf 1-2	-190	-170	-160	-150	15	210	400	475	485
		3	-240	-185	-175	-165	10	185	345	410
		4	-290	-215	-195	-185	-80	110	230	300
		5	-405	-330	-315	-300	-195	-50	135	190
		6	-620	-520	-475	-460	-375	-305	-230	-215
		7	-695	-620	-605	-590	-525	-445	-385	-370
		MID 31	-240	-185	-175	-165	10	170	330	410
W H I T E	Leaf 1-2	3	-290	-210	-185	-175	-5	150	310	370
		4	-360	-290	-230	-220	-115	75	190	260
		5	-455	-380	-345	-335	-210	-95	105	150
		6	-670	-570	-495	-480	-385	-320	-265	-245
		7	-745	-665	-625	-610	-530	-450	-415	-390
		SLM 41	Leaf 1-3	-420	-370	-295	-285	-135	45	135
		4	-495	-420	-315	-305	-200	Base	85	125
L I G	Leaf 1-2	5	-525	-455	-420	-410	-290	-195	-115	-60
		6	-720	-625	-555	-540	-470	-395	-355	-335
		7	-795	-745	-710	-695	-630	-565	-535	-520
		LM 51	Leaf 1-4	-575	-525	-495	-480	-310	-260	-190
		5	-600	-575	-550	-540	-450	-365	-305	-280
		6	-815	-740	-715	-660	-585	-535	-495	-475
		7	-890	-840	-815	-775	-740	-695	-665	-650
S P O	Leaf 1-5	SGO 61	Leaf 1-5	-630	-620	-610	-600	-525	-455	-420
		6	-840	-775	-765	-755	-690	-645	-625	-605
		7	-915	-895	-885	-875	-795	-730	-710	-700
		GO 71	Leaf 1-6	-970	-960	-950	-940	-880	-775	-760
		7	-1015	-1005	-995	-985	-930	-825	-810	-810
		SM & better 12 & 22	Leaf 1-2	-305	-255	-225	-205	-45	75	190
		3	-355	-305	-240	-225	-60	60	165	230
H T	Leaf 1-2	4	-405	-330	-275	-265	-155	-10	105	180
		5	-500	-450	-420	-410	-350	-205	-130	-100
		6	-700	-625	-550	-530	-480	-405	-375	-365
		7	-780	-705	-670	-660	-620	-560	-535	-515
		MID 32	Leaf 1-2	-355	-305	-285	-275	-125	-20	40
		3	-405	-350	-310	-300	-140	-45	15	90
		4	-490	-400	-390	-355	-220	-145	-50	10
T T E D	Leaf 1-2	5	-550	-520	-510	-500	-400	-305	-255	-225
		6	-745	-695	-620	-595	-545	-480	-445	-430
		7	-875	-800	-745	-730	-670	-630	-605	-595
		SLM 42	Leaf 1-3	-470	-415	-395	-365	-265	-170	-95
		4	-540	-475	-465	-420	-285	-210	-140	-85
		5	-600	-585	-570	-550	-430	-370	-305	-290
		6	-850	-800	-720	-660	-595	-520	-485	-470
S G O	Leaf 1-4	7	-930	-880	-840	-820	-745	-690	-655	-650
		LM 52	Leaf 1-4	-665	-615	-565	-525	-420	-395	-355
		5	-740	-690	-665	-610	-540	-495	-460	-460
		6	-965	-915	-865	-790	-745	-665	-640	-640
		7	-1040	-990	-965	-890	-855	-790	-770	-770
		SGO 62	Leaf 1-5	-815	-785	-760	-745	-695	-610	-595
		6	-995	-985	-975	-960	-905	-810	-795	-795
		7	-4000	-4000	-4000	-4000	-4000	-4000	-4000	-4000

See footnotes page 2.

PREMIUMS AND DISCOUNTS FOR GRADE, STAPLE LENGTH, AND LEAF CONTENT OF 2010-CROP AMERICAN UPLAND COTTON 1/

	Color 2/	Leaf	2010 Loan Rates (points per lb.)								
			Staple 3/								
			26-29	30	31	32	33	34	35	36	37 +
S P O T T E D	SM & better 13 & 23	Leaf 1-2	-465	-365	-315	-235	-185	-130	-100	-90	-80
		3	-465	-410	-340	-260	-210	-155	-125	-115	-115
		4	-540	-440	-415	-335	-280	-205	-175	-165	-165
		5	-665	-565	-540	-435	-405	-330	-300	-290	-290
		6	-765	-690	-590	-535	-495	-420	-380	-370	-370
		7	-840	-765	-675	-665	-625	-565	-535	-525	-515
		MID 33	Leaf 1-2	-560	-485	-435	-310	-260	-200	-190	-180
	SLM 43	3	-560	-485	-435	-310	-260	-200	-190	-180	-180
		4	-610	-560	-485	-385	-330	-250	-240	-235	-235
		5	-710	-660	-610	-510	-450	-400	-370	-365	-365
		6	-835	-785	-685	-605	-565	-500	-485	-475	-475
		7	-960	-860	-785	-735	-675	-635	-610	-600	-600
		Leaf 1-3	-610	-565	-555	-545	-445	-395	-365	-345	-345
		4	-660	-615	-605	-595	-490	-440	-390	-375	-375
T I N G E D	LM 53	5	-735	-705	-670	-660	-595	-575	-530	-525	-525
		6	-885	-835	-785	-775	-730	-710	-695	-690	-690
		7	-985	-925	-910	-880	-830	-820	-805	-805	-805
		Leaf 1-4	-825	-745	-735	-725	-650	-550	-530	-525	-525
		5	-900	-825	-785	-775	-735	-640	-620	-615	-615
		6	-1000	-945	-935	-925	-865	-770	-760	-755	-755
		7	-1075	-1020	-1005	-995	-975	-875	-855	-855	-855
	SGO 63	Leaf 1-5	-1045	-975	-965	-955	-890	-790	-760	-755	-755
		6	-1105	-1095	-1085	-1075	-995	-890	-875	-875	-875
		SM 24	Leaf 1-2	-665	-565	-515	-480	-405	-320	-320	-320
		3	-665	-565	-515	-480	-405	-320	-320	-320	-320
		4	-790	-690	-640	-570	-495	-420	-420	-420	-420
		5	-890	-790	-740	-670	-620	-545	-545	-545	-545
		6	-1015	-940	-890	-820	-770	-695	-695	-695	-695
Yellow Staine d	MID 34	Leaf 1-2	-680	-580	-530	-495	-420	-335	-335	-335	-335
		3	-680	-580	-530	-495	-420	-335	-335	-335	-335
		4	-805	-705	-655	-585	-510	-435	-435	-435	-435
		5	-905	-805	-755	-685	-635	-560	-560	-560	-560
		6	-1030	-955	-905	-835	-785	-710	-710	-710	-710
	SLM 44	Leaf 1-3	-805	-705	-655	-580	-530	-455	-455	-455	-455
		4	-875	-780	-725	-680	-580	-505	-505	-505	-505
		5	-975	-875	-830	-755	-680	-605	-605	-605	-605
		6	-1100	-1025	-975	-900	-850	-775	-775	-775	-775
	LM 54	Leaf 1-4	-905	-805	-780	-730	-655	-580	-580	-580	-580
		5	-1000	-900	-855	-780	-740	-645	-630	-630	-630
	25	Leaf 1 & 2	-865	-765	-715	-680	-605	-520	-520	-520	-520
		3	-865	-765	-715	-680	-605	-520	-520	-520	-520
		4	-990	-890	-840	-770	-695	-620	-620	-620	-620
		Leaf 1 & 2	-880	-780	-730	-695	-620	-535	-535	-535	-535
		3	-880	-780	-730	-695	-620	-535	-535	-535	-535

1/ Discounts for all cells not shown are -400

2/ COLOR GRADE SYMBOLS: SM=Strict Middling; MID=Middling; SLM=Strict Low Middling; LM=Low Middling; SGO=Strict Good Ordinary; GO=Good Ordinary

3/ STAPLE LENGTH IN INCHES: (26-29)=13/16 thru 29/32; (30)=15/16; (31)=31/32; (32)=1; (33)=1-1/32; (34)=1-1/16; (35)=1-3/32; (36)=1-1/8; (37)=1-5/32 & longer



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