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Mississippi COTTON

VARIETY TRIALS, 2013

MAFES

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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.

Mississippi Cotton Variety Trials, 2013

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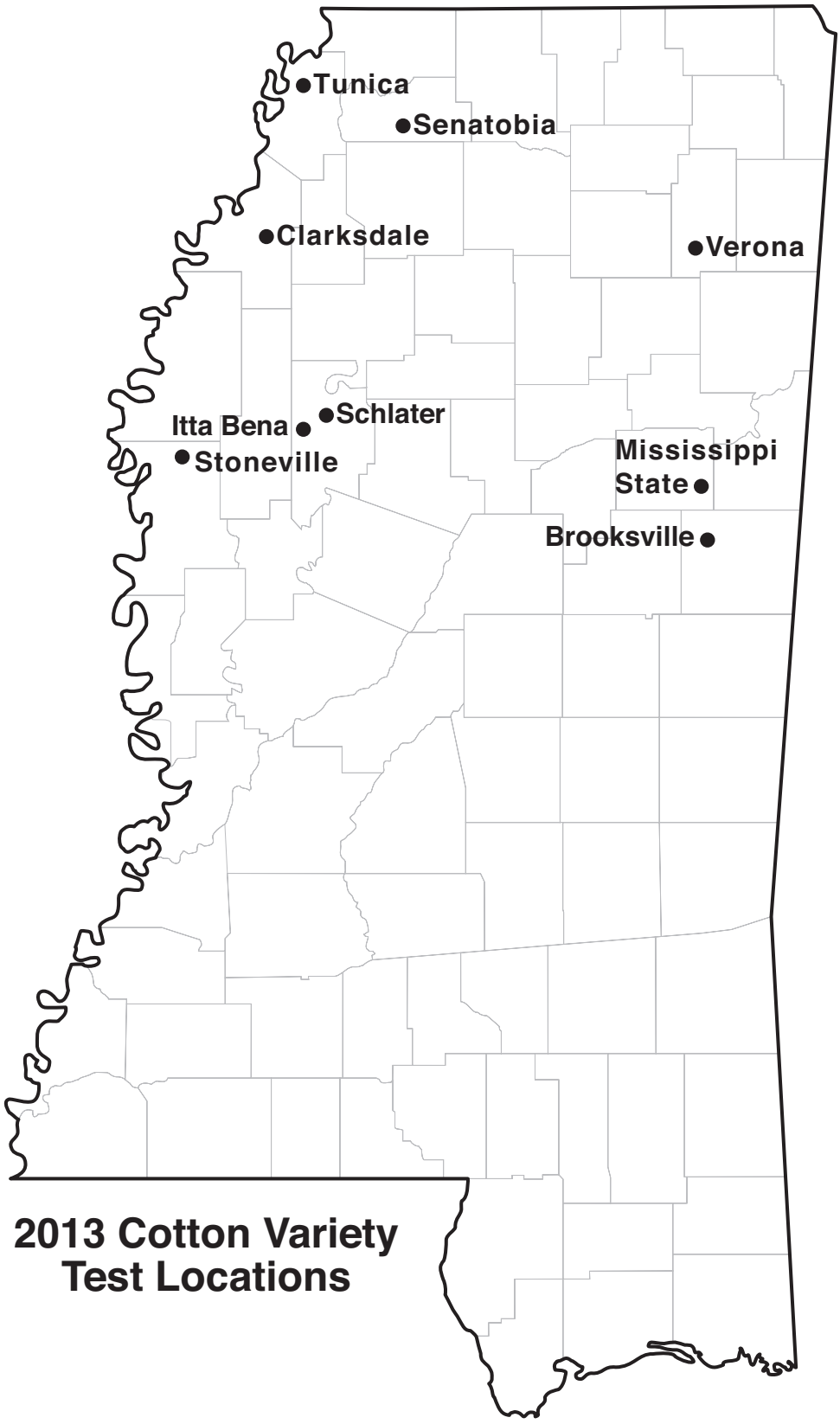
Preface

The main objective of the Mississippi Cotton Official Variety Trials (OVT) is to provide unbiased information to clientele regarding evaluation of yield and fiber performance of commercial cotton varieties and advanced lines that may become varieties in the future. The ultimate goal is to provide Mississippi producers with adequate information to make well-informed seed selection decisions for cultivation in the major production regions in Mississippi. This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted at numerous on- and off-station locations throughout Mississippi. The interpretation of data presented may change after additional experimentation over years. All information included is not to be construed as a recommendation for use or as an endorsement of a particular product or variety by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station. Trade names of commercial products used in this report are included only to provide greater clarity to the information presented.



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Introduction

Annually, Mississippi State researchers evaluate cotton varieties at numerous locations within the cotton-growing regions in the state. The purpose of the Mississippi State Official Variety Trials is to provide an unbiased comparison of varieties across a range of environments. Trial evaluation of standard, commercially available, and new and upcoming cotton cultivars throughout the state provides producers data to make well-informed variety selection decisions based upon how a particular cotton variety performed close to their bases of operation.

The Official Variety Trial (OVT) is conducted annually at the Delta Research and Extension Center, North Mississippi Research and Extension Center, main campus of Mississippi State University, and cooperating producer locations in both the Delta and Hill cotton-producing regions. At each location, all varieties entered into the trial are treated identically (Conventional) with respect to herbicide and insecticide input to strive for unbiased evaluation of genetic potential. Mississippi State personnel attempt to conduct at least eight small-plot official variety trials per year in areas that well represent the majority of the state's cotton-producing acreage.

Mississippi State also conducts the Commercial Advanced Stain Trials (CAST), which are conducted at Stoneville. CAST allows researchers and producers to get a firsthand look at possibly the next best varieties coming down the pipeline. In most instances, varieties in the New trial are closer to being on the shelf than those in the CAST.

Testing Procedures

All varieties submitted for testing are cultivated utilizing conventional chemical control for insect and weed pests. Each test plot consists of two rows of cotton approximately 40 feet in length with a row spacing of 38 or 40 inches. Each plot is analyzed statistically as a randomized complete block with four blocks or replications.

Cooperators at each location determine input management for trials based on soil texture, soil test value, and scouting for pest pressures. However, seeding rate and physical seeding is controlled by the cotton variety testing coordinator. A list of agronomically important input management dates is presented in Appendix 1. Agronomic date information allows the user to take into account management practices at each location when evaluating yield.

All estimated fiber parameters (Lint percent, individual boll weight), as well as HVI fiber quality assessment, are based upon a handpicked 50-boll sample from each replicated plot at each location. The 50-boll samples from all locations are ginned on the same 10-saw Continental laboratory gin to determine gin turnout. Utilization of the same gin for all samples is important to avoid bias in fiber quality across locations. High Volume Instrumentation analyses for fiber property determinations are conducted by Cotton Fiber Lab in Baton Rouge, Louisiana.

Lint yields are calculated using the seed cotton weight mechanically harvested from each plot, and the turnout percentage estimates from handpicked boll samples. Mean lint yields are presented as pounds of lint per acre.

The commercial varieties utilized as standard checks for comparison in 2013 were Delta Pine and Land 0912 B2RF, Phytogen 375 WRF, and Stoneville 5288B2R. These varieties were included to give the end user an idea of how newer cultivars compare to proven high-yielding varieties adapted to the Midsouth growing region.

Interpreting the Data

Field variability is inherent to production research with any cropping system. Unlike strip trials, small-plot research allows for replication with a very minimal footprint. The minimal footprint associated with small-plot research generally allows for less variability among replications due to field variability (i.e., soil textural changes, pest variations). Reduced variability lends us a greater understanding of a variety's genetic potential cultivated under uniform conditions. However, strip-trial research may lend greater information about how a variety will perform across a range of conditions (e.g., low spot in the field). Data from both small-plot and strip trials should be considered when making final variety selection decisions.

Mississippi State separates the greatest performing varieties by use of a Fisher's Protected Least Significant Difference (LSD) at a 5% level. The LSD associated with the 5% level lends us 95% positive identification of the greatest yielding varieties at each specific location. In each individual trial, the collection of varieties that yield the greatest statistically is represented in bold. These varieties will all have a numerical difference less than the LSD value shown at the bottom of the data variable columns.

The varieties listed in bold may have slightly different numerical yields, but they will perform very similarly at a given location. Statistical analysis is not conducted for across-location averages. Producers should review data tables for the closest geographical location that is representative of their operation, but they should also review yield information across locations to get an idea of a variety's yield stability over a wide range of production environments.

Selecting a Variety/Trait

Cultivar selection is possibly the most important management decision a producer must make for the duration of a growing season. Improper variety selection generally cannot be overcome with management. Starting with the best genetic potential will generally pay off at harvest. Careful consideration should go into selecting varieties that are well adapted to the Midsouth growing region and to certain geographical regions within the state due to the rising cost of seed and associated technology fees.

Multiple available transgenic traits can make selecting a variety cumbersome. At most locations, the top-yielding varieties represent a range of available trait packages. These options lend the producer multiple options to choose from with respect to herbicide and insecticide traits. Following is a synopsis of the transgenic traits that were represented in this year's trials.

Glyphosate resistance — This trait is generally indicated on the seed bag with either an F or RF. Varieties with these designations can tolerate over-the-top applications of glyphosate. The newer Flex varieties have replaced the older Roundup Ready varieties (R or RR). In general, Flex varieties allow for over-the-top applications to be made later in the season.

Glufosinate resistance — This trait is generally indicated on the seed bag with an LL. These varieties can withstand over-the-top applications of Liberty 280. These varieties have appeal with increasing acreage infested with glyphosate-resistant weed pressure.

It is important to note that producers utilizing both glyphosate- and glufosinate-resistant varieties in close proximity must use caution to avoid crop injury from spray drift, improperly cleaned applicators, or a combination of both. For more information on utilizing herbicide-resistant traits and alternative weed control practices consult Mississippi State University Extension Service Publication 1532, *Weed Control Guidelines for Mississippi*, available online at http://msucares.com/pubs/publications/p1532/cotton.pdf.

Bollgard 2 — Varieties with designations B, BG, B2, or BG2 on the seed bag or in the brand name

contain genes that produce protein toxic to heliothis. There should no longer be seed available with the B or BG labeling due to the Bollgard 1 phase-out. However, under high and persistent pressure, supplemental chemical control strategies are necessary to prevent economic damage from caterpillar pests.

WideStrike — Phytogen varieties with the designation W or WS2 on the bag or in the variety name. Like Bollgard 2, WideStrike varieties contain two genes that produce protein toxic to insect pests. For more information on utilization of transgenic traits with insecticidal properties consult Mississippi State University Extension Service Publication 2471, *Insect Control Guide for Agronomic Crops*, available online at http://msucares.com/pubs/publications/p2471.pdf.

Considerations for Selection

Yield variability among calendar years within a variety is certain. Therefore, selection decisions should be made from within the range of top-yielding varieties. Newer varieties with limited available data should be cultivated to minimal acreage until further testing validates performance across multiple years and locations. Generally, there is no one variety that is the "silver bullet." Therefore, choosing multiple varieties allows for flexibility in relative maturity, management decisions, and risk aversion.

Lint yield should be the primary factor when you select a variety, but do not discount fiber quality as a close second. Overall, low fiber quality in Midsouth cotton-producing regions has become an issue. Do not underestimate the discounts associated with high micronaire, which can be significant.

A consideration to look at when selecting a variety is the overall mean of the trial. Comparing an individual variety to the trial mean can lend an indication of how that particular variety stacked up to the trial as a whole. A variety with a mean lint yield greater or much greater than the overall trial mean generally will perform well.

Remember, there can be a full 14-day difference in maturity between cotton varieties. However, most current leading varieties, including those submitted to this year's trial, tend to be more mid to early maturing than varieties of the past. For more information on maturity of varieties consult Mississippi State University Extension Service Publication 2697, *2012 Cotton Maturity Guide*, available online at http://msucares.com/pubs/publications/p2697.pdf.

Loan Valuation Decision Aid

For each trial conducted in 2013, data was submitted to the upland cotton loan valuation aid (Tables 21–23). This tool was developed by Larry Falconer of Texas A&M University and is supported by Cotton Inc. It allows for calculation of Commodity Credit Corporation cotton loan premium and discount values based on yields and HVI classing information. The program, which is updated annually, can be referenced via the Internet at http://www.cottoninc.com/Decision-Aids/2012-Cotton-Loan-Valuation-Model/?S=ProductionEconomics&Sort=0.

Top-Yielding Varieties

There are numerous methods to pick or highlight the top-yielding varieties across locations to develop a "short list" of promising varieties for future plantings. For soybean and corn, the short list is a powerful aid in selecting varieties due to the sheer number of available varieties. However, for cotton the list of available varieties that perform well and are adapted to the Midsouth is short on its own. The recent trend in cotton varieties submitted for testing to university OVT trials across the Midsouth has declined over the last 10 years with changes in the cotton industry. Therefore, it is important to select a variety that has performed well in the Mississippi OVT or other Midsouth university OVT trials.

Acknowledgements

The authors would like to express our appreciation first and foremost to the four producers who participated in the 2013 Official Cotton Variety Trial locations that were conducted on-farm. The on-farm trials provide an added benefit to the data by expanding the footprint of the trials into different areas of the state to better represent the environmental, soil textural, and management differences that are present throughout Mississippi. We thank Cliff Heaton (Clarksdale), Mark Kimmel (Itta Bena), and George Perry (Senatobia and Tunica). Their hard work and willingness to participate in the variety trials are deeply valued. We at the Mississippi Agricultural and Forestry Experiment Station look forward to working with you and other willing producers in the future.

We are also grateful to Robert Sullivan of the agronomy program at the Delta Research and Extension Center for his assistance with all aspects of conducting the trials. Without his diligent work and assistance the variety trials would not be a success, so we offer thanks for all he does. We also recognize Shan Beasley, Laurie Jones, and Debra White for their assistance with hand-harvesting, ginning, and preparing fiber-quality samples. Their work allows us to provide data in a timely fashion. We thank Mark Silva for supplying the equipment and technical expertise to make recording environmental data possible at both the on- and off-station testing locations.

Table 1. Varieties submitted for testing by participating industry partners in 2013.

Industry contact	Trial and variety submitted[1]		
	Official variety trial	**New variety trial**	**Commercial strain trial**
Americot Inc. *Tom Brooks*	NG 1511 B2RF NG 5315 B2RF AM 1550 B2RF		
Bayer Crop Science *Andy White*	FM 1944GLB2 ST 4946GLB2 ST 6448GLB2	ST 4747GLB2 ST 5288B2F (Std.)	ST 5288B2F (Std.)
Crop Production Services *Charlie Cook*			DG CT13125 B2RF DGX 11W351 B2RF
Crop Production Services **Dyna-Gro Seed** *Scott Cummings*	DG 2285 B2RF DG 2610 B2RF		CT13414
International Seed Technology *Stacey L. Heard*			BRS-269 BRS-286 BRS-293 BRS-335
Monsanto *Dave Albers*	DP 1321 B2RF DP 1034 B2RF DP 1311 B2RF DP 1133 B2RF DP 1048 B2RF DP 1137 B2RF	DP 1028 B2RF DP 1044 B2RF MON 12R224B2RF MON 12R242B2RF DP 0912 B2RF (Std.)	MON 13R341B2RF MON 13R347B2RF DP 0912 B2RF (Std.)
PhytoGen Seed Co. *Brooks Blanche*	PHY 333 WRF PHY 417WRF.rk PHY 427WRF.rk PHY 599 WRF Px3122b512WRF Px444413WRF PX444414WRF Px445022WRF Px553840WRF	Px554010WRF Px300304WRF Px300310WRF Px375001WRF PHY 339 WRF PHY 575 WRF PHY 499 WRF PHY 375 WRF (Std.)	PHY 375 WRF (Std.)
Seed Source Genetics *Ed Jungmann*	HQ 110 CT SSG UA 222		
Winnfield Solutions, LLC *Robert Cossar*	CG 3428 B2RF CG 3787 B2RF		

[1]"Std." designates a standard entry to be used for check purposes.

Table 2. One-year mean yield performance and fiber characteristics for OVT varieties submitted for testing in 2013 averaged across all testing locations.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px375001WRF	4714	**2056**	0.45	1.16	4.63	32.72	84.01	7.71	5.68	9.69
Px312b51WRF	4931	**2029**	0.44	1.17	4.46	31.81	85.10	6.83	5.32	10.14
PHY 333 WRF	4677	**1984**	0.44	1.18	4.46	30.95	84.84	6.34	5.54	9.78
Px444414WRF	4665	**1966**	0.44	1.18	4.34	32.41	84.80	6.71	5.55	10.35
PHY 375 WRF	4572	**1951**	0.44	1.13	4.51	30.81	83.81	6.56	5.38	9.77
DP 0912 B2RF	4749	**1945**	0.43	1.12	4.99	31.18	83.84	6.83	5.54	9.88
PHY 499 WRF	4574	**1943**	0.44	1.16	4.70	34.50	84.78	7.48	5.57	9.48
NG 1511 B2RF	4461	**1919**	0.45	1.15	4.80	33.29	84.20	8.09	5.59	10.17
Px300310WRF	4666	**1914**	0.43	1.13	4.59	31.96	83.44	7.20	5.26	8.87
Px553840WRF	4638	**1909**	0.43	1.16	4.49	31.98	84.81	6.12	4.99	9.28
DP 1321 B2RF	4509	**1897**	0.44	1.15	4.81	33.17	84.45	8.46	5.81	9.98
Px444413WRF	4401	**1894**	0.45	1.24	4.13	32.30	85.73	6.49	5.72	10.87
PHY 339 WRF	4569	**1885**	0.43	1.19	4.46	32.47	84.79	6.82	5.51	9.76
Px445022WRF	4584	**1881**	0.43	1.18	4.60	33.38	84.83	6.78	5.25	9.90
Px554010WRF	4279	**1816**	0.44	1.16	4.16	31.55	84.51	6.83	4.91	8.66
DP 1048 B2RF	4249	**1810**	0.44	1.17	4.52	30.85	84.19	7.98	5.44	9.53
ST 5288B2F	4388	1788	0.42	1.15	4.69	30.41	83.71	6.77	5.41	9.28
ST 4946GLB2	4476	1779	0.41	1.18	4.66	34.01	84.90	7.22	6.24	11.12
PHY 575 WRF	4456	1776	0.42	1.21	4.25	31.48	84.60	7.16	5.33	9.77
PHY 427 WRF	4408	1776	0.42	1.15	4.37	32.36	84.02	7.30	5.22	9.39
Croplan 3787 B2RF	4112	1768	0.45	1.15	4.62	31.18	84.11	7.88	5.85	9.22
ST 6448GLB2	4311	1758	0.43	1.21	4.47	29.55	84.11	5.60	5.13	9.54
ST 4747GLB2	4311	1754	0.42	1.21	4.50	28.67	84.04	5.50	5.58	10.17
MON 12R242B2R2	4097	1747	0.44	1.15	4.75	31.51	84.35	8.74	5.29	9.08
PHY 417 WRF	4135	1737	0.44	1.14	4.14	32.29	84.06	7.55	5.13	8.76
DP 1137 B2RF	4083	1729	0.44	1.15	4.58	31.13	84.29	7.58	5.76	9.48
Px300304WRF	4378	1726	0.41	1.16	4.47	32.40	84.17	5.88	5.60	9.58
DP 1028 B2RF	3917	1720	0.46	1.14	4.73	31.61	84.28	7.75	5.57	9.21
DP 1311 B2RF	4035	1714	0.44	1.15	4.55	30.52	84.00	7.58	5.05	8.90
DP 1133 B2RF	3956	1714	0.45	1.16	4.68	34.46	84.67	7.14	5.31	9.24
MON 12R224B2R2	4271	1713	0.42	1.17	4.32	31.07	84.44	6.51	5.43	9.97
FM 1944GLB2	4325	1698	0.41	1.22	4.65	31.35	84.86	5.17	5.76	10.86
DG 2285 B2RF	4144	1692	0.42	1.17	4.47	31.67	84.51	7.58	5.83	10.10
AM 1550 B2RF	4095	1690	0.43	1.12	4.63	29.46	83.84	7.01	5.65	9.98
DG 2610 B2RF	3887	1659	0.44	1.16	4.52	31.76	84.50	7.86	5.55	9.39
DP 1034 B2RF	3859	1646	0.44	1.17	4.52	31.35	84.15	7.85	5.79	9.32
NG 5315 B2RF	3795	1633	0.45	1.15	4.58	31.62	84.54	8.17	5.40	9.34
SSG UA 222	4017	1622	0.42	1.21	4.50	33.21	84.71	7.85	5.83	10.92
DP 1044 B2RF	3964	1595	0.42	1.14	4.44	32.23	83.76	7.72	5.16	9.35
HQ 110 CT	3982	1593	0.42	1.15	4.62	32.50	83.78	6.53	5.35	9.75
Croplan 3428 B2RF	3722	1567	0.44	1.20	4.68	31.15	84.40	7.30	5.24	9.25
PHY 599 WRF	3859	1562	0.44	1.20	4.23	31.74	84.59	6.55	4.83	8.68
Overall Mean	4291	1785	0.43	1.17	4.53	31.81	84.37	7.12	5.46	9.66
LSD (0.05)	649	256	0.01	0.02	0.21	0.84	0.55	0.30	0.65	0.40
C.V. (%)	30.84	29.17	4.09	3.17	9.01	5.00	1.25	7.92	22.93	8.11

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Data does not include fiber quality for the Starkville location
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 3. Two-year mean lint yield of varieties cultivated at three locations in the Delta region during 2012 and 2013.[1]

Variety	Clarksdale		Stoneville		Tunica		Avg. across location and yr.
	2012	2013	2012	2013	2012	2013	
	lb/A	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*
NG 1511 B2RF	1442	2879	1330	2138	1687	1825	1884
DP 1321 B2RF	1398	2506	1276	2183	1792	1904	1843
DP 0912 B2RF	1265	2915	1156	2083	1586	1901	1818
PHY 375 WRF	1249	2708	1068	2548	1541	1633	1791
ST 4946GLB2	1285	2815	940	2373	1673	1565	1775
PHY 339 WRF	1448	2712	1222	2284	1493	1456	1769
PHY 499 WRF	1407	2537	1051	2316	1703	1593	1768
ST 5288B2F	1333	2866	1126	1877	1671	1542	1736
AM 1550 B2RF	1386	2463	1065	1936	1339	1736	1654
DP 1133 B2RF	978	2787	1335	2048	1216	1333	1616
DP 1311 B2RF	1261	2610	1035	1774	1275	1734	1615
CG 3787 B2RF	1105	2572	1020	2067	1339	1362	1578
FM 1944GLB2	1320	2360	967	1939	1380	1444	1568
ST 6448GLB2	1024	2403	922	2236	1331	1366	1547
DP 1044 B2RF	1137	2231	823	1809	1666	1517	1531
DP 1137 B2RF	955	2614	890	1789	1221	1396	1478
DP 1048 B2RF	966	2543	894	1995	1084	1305	1465
DP 1034 B2RF	1082	2067	854	1938	1211	1372	1421
CG 3428 B2RF	986	2148	962	1780	1139	1167	1364

[1]Table is sorted based on average across location and year lint yield means (i.e., from greatest to lowest lint yield).

Table 4. Two-year mean lint yield of varieties cultivated at three locations in the Hill region during 2012 and 2013.

Variety	Senatobia		Starkville		Verona		Avg. across location and yr.
	2012	2013	2012	2013	2012	2013	
	lb/A	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*
DP 1321 B2RF	1382	2429	1475	1491	1834	1421	1672
PHY 499 WRF	1423	2335	1347	1359	1876	1593	1656
CG 3787 B2RF	1456	1973	1529	1463	1897	1472	1632
DP 1048 B2RF	1418	2066	1530	1453	1867	1400	1622
PHY 339 WRF	1381	2298	1465	1430	1926	1226	1621
DP 1137 B2RF	1316	2037	1559	1488	1868	1435	1617
DP 0912 B2RF	1257	2336	1307	1437	1798	1487	1604
NG 1511 B2RF	1411	2223	1363	1359	1885	1291	1589
PHY 375 WRF	1351	2292	1255	1268	1679	1488	1556
ST 6448GLB2	1304	2163	1326	1274	1793	1458	1553
DP 1034 B2RF	1322	1822	1573	1302	1823	1411	1542
DP 1133 B2RF	1436	2060	1340	1439	1776	1202	1542
CG 3428 B2RF	1227	1799	1563	1468	1741	1135	1489
ST 5288B2F	1189	2148	1430	1133	1564	1296	1460
AM 1550 B2RF	1253	1980	1261	1233	1658	1318	1451
FM 1944GLB2	1133	1996	1412	1209	1704	1158	1435
DP 1311 B2RF	1285	1774	1243	1189	1637	1200	1388
ST 4946GLB2	1241	2203	1142	1021	1614	1040	1377
DP 1044 B2RF	1209	1962	1094	924	1716	1196	1350

[1]Table is sorted based on average across location and year lint yield means (i.e., from greatest to lowest lint yield).

Table 5. One-year mean yield performance of varieties cultivated at four locations in the Delta region during 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px312b51WRF	5864	**2494**	0.44	1.18	4.79	32.12	85.21	6.86	5.35	10.51
Px375001WRF	5374	**2363**	0.45	1.16	4.91	33.01	84.19	7.88	5.68	10.01
Px300310WRF	5670	**2349**	0.43	1.14	4.94	32.43	83.70	7.19	5.29	9.03
PHY 333 WRF	5454	**2322**	0.44	1.18	4.75	31.81	85.04	6.35	5.38	10.07
NG 1511 B2RF	5202	**2262**	0.45	1.15	5.05	33.78	84.38	8.21	5.63	10.34
Px445022WRF	5413	**2254**	0.43	1.18	4.85	34.17	85.09	6.82	5.25	10.12
DP 0912 B2RF	5434	**2232**	0.43	1.13	5.29	31.60	83.92	6.89	5.43	10.07
PHY 427 WRF	5441	**2209**	0.42	1.15	4.61	32.51	84.08	7.39	5.04	9.55
PHY 375 WRF	5142	**2208**	0.44	1.13	4.75	31.43	84.04	6.44	5.14	9.93
Px444414WRF	5208	**2208**	0.44	1.18	4.50	32.96	84.70	6.68	5.21	10.38
Px553840WRF	5335	**2206**	0.43	1.17	4.72	32.59	84.94	6.17	4.93	9.53
DP 1321 B2RF	5191	**2198**	0.44	1.15	5.06	33.37	84.40	8.56	5.71	10.11
ST 4946GLB2	5449	**2189**	0.42	1.18	5.06	34.74	84.98	7.24	6.21	11.39
PHY 499 WRF	5110	**2172**	0.44	1.17	4.91	34.91	84.99	7.56	5.38	9.63
PHY 339 WRF	5150	2144	0.43	1.19	4.64	33.19	85.13	6.71	5.32	9.96
PHY 417 WRF	5041	2135	0.44	1.14	4.48	32.88	84.13	7.79	5.02	9.13
Px300304WRF	5356	2116	0.41	1.17	4.79	32.91	84.49	5.99	5.59	9.79
Px444413WRF	4869	2112	0.45	1.24	4.33	32.61	85.87	6.45	5.51	11.06
Px554010WRF	4867	2069	0.44	1.17	4.36	32.31	84.73	6.79	4.80	8.96
DP 1311 B2RF	4781	2050	0.44	1.15	4.76	30.89	84.18	7.70	4.88	9.22
ST 5288B2F	5019	2036	0.42	1.15	4.94	30.64	83.92	6.86	5.50	9.50
DP 1133 B2RF	4469	2029	0.45	1.17	4.93	35.45	84.93	7.33	5.22	9.54
PHY 575 WRF	4915	2027	0.41	1.21	4.46	31.79	84.86	7.26	5.20	10.13
DG 2285 B2RF	4862	2023	0.43	1.16	4.79	32.15	84.40	7.55	5.50	10.37
MON 12R242B2R2	4671	2019	0.45	1.16	5.04	32.20	84.50	8.84	5.13	9.43
DP 1048 B2RF	4702	2012	0.44	1.18	4.70	31.59	84.51	8.03	5.09	9.74
MON 12R224B2R2	4933	2009	0.42	1.18	4.66	31.70	84.79	6.48	5.44	10.14
ST 4747GLB2	4938	2007	0.42	1.21	4.76	29.38	84.37	5.29	5.54	10.63
Croplan 3787 B2RF	4640	2006	0.45	1.15	4.83	31.75	84.24	7.84	5.38	9.42
FM 1944GLB2	4956	1968	0.41	1.22	4.92	31.88	85.31	5.08	5.50	11.04
AM 1550 B2RF	4715	1961	0.43	1.12	4.94	29.82	84.03	6.93	5.39	10.33
DG 2610 B2RF	4502	1935	0.44	1.16	4.69	32.30	84.56	7.90	5.43	9.56
ST 6448GLB2	4757	1933	0.42	1.22	4.69	30.48	84.51	5.46	5.04	9.81
DP 1028 B2RF	4342	1917	0.46	1.15	4.94	32.30	84.48	7.74	5.36	9.49
DP 1137 B2RF	4478	1910	0.44	1.15	4.76	31.74	84.58	7.62	5.50	9.49
DP 1034 B2RF	4403	1893	0.44	1.17	4.74	31.99	84.43	7.96	5.60	9.54
DP 1044 B2RF	4575	1875	0.42	1.14	4.79	32.40	83.78	7.87	5.08	9.64
SSG UA 222	4540	1836	0.42	1.21	4.85	33.66	84.97	7.82	5.86	11.46
HQ 110 CT	4534	1812	0.41	1.15	4.84	33.31	83.96	6.65	5.41	9.99
NG 5315 B2RF	4146	1786	0.44	1.16	4.78	32.23	84.86	8.28	5.24	9.69
PHY 599 WRF	4427	1759	0.43	1.21	4.45	32.44	84.90	6.67	4.76	8.89
Croplan 3428 B2RF	3962	1677	0.44	1.20	4.81	31.99	84.54	7.39	5.06	9.38
Overall Mean	4925	2065	0.43	1.17	4.8	32.37	84.56	7.15	5.33	9.90
LSD (0.05)	915	329	0.01	0.03	0.15	0.91	0.76	0.35	0.48	0.47
C.V. (%)	26.78	22.88	3.69	3.62	4.45	4.05	1.29	7.12	12.87	6.96

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 6. One-year mean yield performance of varieties cultivated at four locations in the Hill region during 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px375001WRF	4054	**1748**	0.45	1.15	4.25	32.33	83.77	7.48	5.69	9.29
Px444414WRF	4122	**1724**	0.44	1.17	4.13	31.68	84.94	6.77	5.98	10.32
PHY 499 WRF	4038	**1713**	0.44	1.15	4.43	33.97	84.50	7.36	5.81	9.29
PHY 375 WRF	4002	**1693**	0.44	1.14	4.18	29.98	83.50	6.73	5.69	9.58
Px444413WRF	3933	**1677**	0.45	1.24	3.88	31.88	85.53	6.54	5.97	10.64
DP 0912 B2RF	4063	**1659**	0.43	1.11	4.59	30.63	83.74	6.73	5.67	9.65
Px312b51WRF	3997	**1658**	0.43	1.17	4.01	31.39	84.94	6.78	5.28	9.69
PHY 333 WRF	3900	**1645**	0.44	1.17	4.08	29.82	84.56	6.33	5.74	9.43
PHY 339 WRF	3988	**1626**	0.43	1.18	4.22	31.51	84.33	6.98	5.76	9.51
Px553840WRF	3940	**1611**	0.43	1.16	4.18	31.18	84.63	6.06	5.07	8.98
DP 1048 B2RF	3796	**1608**	0.45	1.15	4.28	29.87	83.77	7.92	5.86	9.28
DP 1321 B2RF	3827	**1597**	0.44	1.15	4.48	32.91	84.53	8.33	5.94	9.83
PHY 575 WRF	3997	**1595**	0.42	1.20	3.98	31.07	84.26	7.03	5.50	9.34
ST 6448GLB2	3864	**1583**	0.43	1.20	4.17	28.31	83.58	5.78	5.25	9.22
NG 1511 B2RF	3719	**1576**	0.45	1.15	4.46	32.63	83.98	7.93	5.54	9.95
Px554010WRF	3691	**1564**	0.44	1.15	3.89	30.53	84.23	6.87	5.05	8.26
DP 1137 B2RF	3687	**1549**	0.44	1.16	4.33	30.33	83.91	7.53	6.08	9.47
ST 5288B2F	3757	**1541**	0.43	1.14	4.35	30.12	83.44	6.65	5.29	9.00
Croplan 3787 B2RF	3583	**1530**	0.45	1.15	4.33	30.41	83.93	7.93	6.43	8.98
DP 1028 B2RF	3492	**1523**	0.46	1.12	4.45	30.69	84.02	7.76	5.83	8.86
Px445022WRF	3754	**1508**	0.42	1.18	4.26	32.32	84.48	6.73	5.25	9.62
ST 4747GLB2	3684	**1501**	0.43	1.20	4.15	27.73	83.59	5.78	5.64	9.61
DP 1133 B2RF	3443	**1489**	0.46	1.14	4.36	33.15	84.32	6.88	5.42	8.88
NG 5315 B2RF	3445	**1481**	0.45	1.15	4.32	30.82	84.12	8.03	5.61	8.92
Px300310WRF	3661	**1478**	0.42	1.12	4.13	31.34	83.10	7.22	5.23	8.68
MON 12R242B2R2	3522	**1476**	0.44	1.14	4.37	30.60	84.14	8.61	5.50	8.65
Croplan 3428 B2RF	3481	1457	0.44	1.18	4.51	30.03	84.23	7.19	5.46	9.08
FM 1944GLB2	3693	1429	0.41	1.21	4.28	30.64	84.26	5.29	6.08	10.64
AM 1550 B2RF	3474	1418	0.43	1.12	4.22	28.98	83.58	7.12	5.98	9.55
MON 12R224B2R2	3609	1416	0.41	1.17	3.86	30.23	83.98	6.56	5.43	9.75
SSG UA 222	3494	1407	0.42	1.22	4.03	32.61	84.37	7.88	5.80	10.25
DP 1034 B2RF	3314	1400	0.45	1.16	4.22	30.51	83.78	7.69	6.02	9.05
DG 2610 B2RF	3272	1384	0.44	1.16	4.29	31.05	84.41	7.82	5.71	9.18
DP 1311 B2RF	3289	1378	0.44	1.15	4.26	30.02	83.75	7.41	5.27	8.52
PHY 599 WRF	3292	1377	0.44	1.18	3.93	30.80	84.17	6.38	4.91	8.42
HQ 110 CT	3431	1374	0.42	1.14	4.32	31.43	83.54	6.37	5.29	9.45
ST 4946GLB2	3504	1369	0.41	1.18	4.14	33.04	84.81	7.18	6.27	10.80
DG 2285 B2RF	3427	1361	0.42	1.19	4.05	31.03	84.67	7.63	6.24	9.76
PHY 427 WRF	3375	1343	0.42	1.15	4.04	32.18	83.93	7.18	5.44	9.20
PHY 417 WRF	3230	1338	0.44	1.15	3.69	31.49	83.98	7.24	5.26	8.30
Px300304WRF	3400	1337	0.41	1.15	4.04	31.72	83.73	5.74	5.60	9.32
DP 1044 B2RF	3354	1315	0.41	1.14	3.98	32.00	83.74	7.52	5.26	9.00
Overall Mean	3657	1511	0.43	1.16	4.19	31.07	84.11	7.06	5.62	9.36
LSD (0.05)	675	277	0.01	0.02	0.27	1.32	0.76	0.49	1.22	0.61
C.V. (%)	26.6	26.37	4.46	2.39	8.05	5.28	1.12	8.74	28.35	8.49

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 7. Mean yield performance and fiber characteristics for cotton varieties cultivated on nonirrigated Dubbs very fine sandy loam on Cliff Heaton Farms near Clarksdale, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px312b51WRF	7638	**3039**	0.42	1.22	4.88	32.70	85.95	6.75	6.05	10.95
Px300310WRF	7520	**2949**	0.41	1.16	5.00	33.03	84.38	6.93	6.63	8.93
Px375001WRF	6973	**2943**	0.44	1.19	4.90	34.53	84.50	7.30	5.85	10.35
PHY 333 WRF	7278	**2925**	0.42	1.21	4.68	31.80	85.55	6.25	5.55	9.98
DP 0912 B2RF	7539	**2915**	0.41	1.17	5.28	32.95	84.85	6.75	6.20	9.98
NG 1511 B2RF	6938	**2879**	0.44	1.19	4.98	35.55	85.23	8.08	6.23	10.35
ST 5288B2F	7298	**2866**	0.41	1.21	4.68	32.20	84.88	6.85	5.70	9.23
ST 4946GLB2	7446	**2815**	0.40	1.23	5.08	35.50	85.85	6.78	7.40	11.48
Px444414WRF	7037	**2807**	0.42	1.23	4.40	34.35	85.88	6.35	5.85	10.18
DP 1133 B2RF	6726	**2787**	0.44	1.20	4.85	36.65	85.58	7.60	5.68	9.25
PHY 427 WRF	7101	**2713**	0.40	1.18	4.65	32.95	84.38	7.25	5.53	9.45
PHY 339 WRF	6913	**2712**	0.41	1.22	4.55	34.40	85.85	6.28	5.80	10.28
PHY 375 WRF	6495	**2708**	0.44	1.15	4.78	31.58	84.53	6.05	5.73	9.85
DG 2610 B2RF	6544	2693	0.43	1.20	4.68	33.93	85.43	7.75	5.90	9.55
ST 4747GLB2	6884	2670	0.41	1.25	4.60	31.48	85.35	4.75	6.48	9.98
DP 1137 B2RF	6307	2614	0.44	1.18	4.65	32.18	84.95	7.45	5.40	9.05
PHY 599 WRF	6549	2614	0.42	1.26	4.25	33.25	86.15	6.68	5.50	8.20
DP 1311 B2RF	6519	2610	0.42	1.19	4.80	31.38	85.00	7.78	5.45	9.18
MON 12R242B2R2	6307	2598	0.43	1.20	4.83	32.90	85.03	8.70	5.23	8.53
Px445022WRF	6711	2598	0.41	1.24	4.85	36.00	86.30	6.93	5.93	10.30
Px554010WRF	6450	2577	0.42	1.25	4.08	34.03	86.08	6.83	5.50	8.78
PHY 417 WRF	6524	2575	0.42	1.23	4.45	34.13	86.18	6.18	5.35	8.98
Px553840WRF	6820	2575	0.40	1.17	4.58	33.88	84.58	7.38	5.70	9.30
Croplan 3787 B2RF	6258	2572	0.44	1.19	4.88	32.75	85.03	7.68	5.85	9.43
Px300304WRF	6736	2561	0.40	1.23	4.85	32.85	85.25	6.03	6.23	10.33
DP 1048 B2RF	6386	2543	0.42	1.23	4.70	32.58	85.43	8.38	5.55	9.60
PHY 499 WRF	6278	2537	0.43	1.20	4.63	35.10	85.88	7.50	6.03	9.40
HQ 110 CT	6603	2531	0.40	1.18	4.80	34.43	84.58	6.65	6.10	9.58
DP 1321 B2RF	6219	2506	0.43	1.19	5.15	35.20	85.25	8.58	6.13	10.53
AM 1550 B2RF	6288	2463	0.41	1.16	4.85	30.23	84.95	6.53	5.90	10.25
DP 1028 B2RF	5805	2455	0.45	1.18	4.83	33.38	85.38	8.35	5.80	8.78
NG 5315 B2RF	5938	2449	0.43	1.19	4.68	33.28	85.30	7.95	5.75	9.75
MON 12R224B2R2	6411	2433	0.40	1.21	4.68	33.03	85.45	6.25	6.13	10.18
PHY 575 WRF	6332	2431	0.40	1.23	4.50	32.45	85.85	7.28	5.63	10.20
Px444413WRF	5982	2418	0.43	1.29	4.43	33.73	86.53	6.40	6.08	11.55
ST 6448GLB2	6169	2403	0.41	1.25	4.50	31.08	85.00	5.35	5.50	9.25
DG 2285 B2RF	6056	2378	0.41	1.22	4.78	33.58	85.18	7.28	5.95	10.40
FM 1944GLB2	6155	2360	0.40	1.27	4.95	33.53	86.15	4.90	6.03	11.08
SSG UA 222	5829	2274	0.41	1.25	5.00	34.13	85.88	7.50	6.80	11.30
DP 1044 B2RF	5775	2231	0.41	1.16	4.73	33.43	83.88	7.98	5.48	9.18
Croplan 3428 B2RF	5322	2148	0.43	1.24	4.70	32.53	85.73	8.05	5.33	9.13
DP 1034 B2RF	5578	2067	0.43	1.20	4.68	32.93	84.93	8.03	6.05	9.40
Overall Mean	6539	2597	0.42	1.21	4.73	33.37	85.33	7.05	5.88	9.79
LSD(0.05)	987	340	0.01	0.04	0.27	1.41	1.10	0.67	0.72	0.83
C.V. (%)	10.78	10.94	2.29	2.29	4.13	3.02	0.92	6.81	8.77	6.09

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 8. Mean yield performance and fiber characteristics for cotton varieties cultivated on nonirrigated Tensas silty clay loam on Mark Kimmel Farms near Itta Bena, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px312b51WRF	5149	**2353**	0.46	1.13	4.88	31.58	84.08	6.68	5.50	9.70
NG 1511 B2RF	4834	**2207**	0.46	1.09	5.15	32.80	83.65	8.50	5.75	10.05
DP 1048 B2RF	4883	**2204**	0.45	1.16	4.80	30.40	83.63	8.28	5.18	9.45
DP 1321 B2RF	4967	**2200**	0.44	1.11	5.23	32.83	83.15	8.73	5.38	9.35
Px445022WRF	4721	**2146**	0.45	1.12	5.00	33.08	83.40	6.95	4.78	9.85
Px300310WRF	4809	**2127**	0.44	1.11	5.15	30.83	82.03	7.40	5.13	8.88
Px444414WRF	4548	2110	0.46	1.11	4.65	31.53	83.18	7.13	5.20	9.80
Px375001WRF	4607	2106	0.46	1.11	5.00	31.30	83.35	8.03	5.68	9.08
DP 1311 B2RF	4593	2083	0.45	1.12	4.83	31.25	84.10	7.90	4.90	8.98
Px444413WRF	4336	2081	0.48	1.17	4.50	31.05	84.83	6.68	5.48	9.60
PHY 333 WRF	4474	2029	0.45	1.14	4.93	31.05	83.85	6.88	6.05	9.83
DP 0912 B2RF	4597	2028	0.44	1.06	5.30	30.00	81.95	7.10	5.00	9.50
Croplan 3787 B2RF	4499	2023	0.45	1.12	4.90	30.85	83.30	8.00	5.28	9.28
ST 4946GLB2	4632	2004	0.43	1.13	5.08	34.10	83.70	7.48	6.13	9.73
FM 1944GLB2	4642	1999	0.43	1.17	4.85	29.85	83.63	5.35	5.50	9.73
PHY 499 WRF	4445	1990	0.45	1.13	5.03	33.23	83.85	7.88	5.13	9.15
PHY 339 WRF	4459	1978	0.44	1.16	4.73	32.95	83.93	7.13	5.15	9.15
DG 2610 B2RF	4390	1976	0.45	1.11	4.83	30.58	83.15	8.05	5.55	9.20
DP 1034 B2RF	4450	1975	0.44	1.16	4.75	31.78	83.83	8.00	5.33	9.68
PHY 427 WRF	4450	1964	0.44	1.10	4.80	31.23	83.10	7.60	4.70	9.43
PHY 375 WRF	4450	1944	0.44	1.12	4.88	30.40	83.38	7.00	5.13	9.65
DP 1044 B2RF	4504	1944	0.43	1.09	4.88	32.05	83.33	8.10	4.60	9.55
MON 12R242B2R2	4233	1919	0.45	1.13	5.15	31.68	83.90	9.00	5.08	9.88
MON 12R224B2R2	4459	1915	0.43	1.14	4.78	30.45	83.25	6.55	5.05	9.73
DP 1028 B2RF	4085	1908	0.47	1.12	5.05	31.10	83.10	7.88	5.48	9.80
Px553840WRF	4164	1877	0.45	1.09	5.10	31.85	83.35	6.10	4.70	9.48
ST 5288B2F	4351	1857	0.43	1.11	5.05	29.23	82.73	7.25	5.43	9.50
Px300304WRF	4479	1843	0.41	1.12	4.83	32.30	83.80	5.70	5.38	9.25
DP 1137 B2RF	4198	1842	0.44	1.12	4.80	31.85	83.93	7.58	5.45	9.20
DG 2285 B2RF	4464	1839	0.45	1.09	4.80	31.03	82.80	7.78	5.53	9.58
Px554010WRF	4026	1839	0.46	1.11	4.83	30.50	83.20	7.10	4.53	9.25
PHY 417 WRF	4016	1829	0.46	1.11	4.58	32.45	83.28	8.60	5.05	9.23
PHY 575 WRF	4341	1808	0.42	1.17	4.63	31.08	83.90	7.25	5.33	9.70
NG 5315 B2RF	3903	1782	0.46	1.13	4.95	31.28	84.25	8.25	5.40	9.38
DP 1133 B2RF	3962	1774	0.45	1.14	4.95	34.33	83.88	7.60	5.05	9.68
SSG UA 222	4179	1750	0.42	1.19	4.78	33.38	84.63	7.70	5.50	11.55
ST 6448GLB2	4075	1727	0.42	1.18	4.95	29.65	84.23	5.60	5.08	9.55
AM 1550 B2RF	3932	1711	0.44	1.08	5.03	29.48	82.95	7.28	5.65	10.05
Croplan 3428 B2RF	3666	1616	0.44	1.18	4.83	31.85	83.60	7.08	4.85	9.18
HQ 110 CT	3794	1588	0.42	1.12	4.93	32.73	83.18	6.83	5.10	9.65
ST 4747GLB2	3568	1559	0.44	1.15	4.98	26.95	83.30	5.98	5.20	10.18
PHY 599 WRF	3385	1500	0.44	1.16	4.90	31.28	83.88	6.88	4.65	9.08
Overall Mean	4350	1928	0.44	1.13	4.90	31.41	83.51	7.35	5.24	9.56
LSD (0.05)	505	231	0.18	0.04	0.22	1.38	0.99	0.59	0.54	0.74
C.V. (%)	8.30	8.51	2.88	2.29	3.20	3.15	0.85	5.78	7.34	5.52

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 9. Mean yield performance and fiber characteristics for cotton varieties cultivated on a nonirrigated Brooksville silty clay loam at the Black Belt Research and Extension Center in Noxubee County, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
PHY 375 WRF	3829	**1723**	0.45	1.12	4.03	28.78	83.03	6.63	4.30	9.05
DP 1048 B2RF	3375	**1676**	0.45	1.13	3.95	28.68	82.80	7.63	5.10	8.80
Px375001WRF	3696	**1665**	0.45	1.15	3.85	30.23	83.10	7.20	4.20	8.65
Px444413WRF	3587	**1606**	0.45	1.23	3.70	30.50	84.63	6.35	4.70	10.50
ST 5288B2F	3641	**1587**	0.44	1.13	4.10	28.55	82.85	6.48	4.35	8.85
Px444414WRF	3632	**1587**	0.44	1.15	3.85	28.93	84.40	6.85	4.30	9.45
PHY 575 WRF	3412	**1580**	0.43	1.19	3.85	30.25	83.93	7.20	4.25	8.60
Px553840WRF	3703	**1574**	0.43	1.14	4.18	29.70	84.00	5.88	4.30	10.25
PHY 499 WRF	3631	**1566**	0.43	1.14	4.20	32.03	84.13	6.90	4.35	8.55
PHY 339 WRF	3580	**1552**	0.43	1.16	3.95	29.58	83.73	7.35	4.15	8.95
Px312b51WRF	3428	**1500**	0.44	1.17	3.60	29.78	84.78	6.83	4.10	9.70
Px300310WRF	3465	1475	0.43	1.11	3.93	29.63	82.83	6.90	4.45	8.15
PHY 333 WRF	3398	1472	0.43	1.16	3.68	27.90	84.13	6.40	4.00	8.80
Px554010WRF	3262	1461	0.45	1.12	3.73	28.53	83.40	7.15	3.85	8.45
PHY 599 WRF	3215	1441	0.45	1.14	3.95	28.85	82.93	7.05	4.25	7.90
PHY 427 WRF	2975	1437	0.43	1.14	3.85	30.93	82.90	6.95	4.35	8.40
ST 6448GLB2	3203	1437	0.45	1.16	3.90	25.98	82.43	5.85	4.10	8.15
NG 1511 B2RF	3178	1434	0.45	1.14	4.05	31.23	83.38	7.88	4.20	9.20
Croplan 3428 B2RF	3146	1427	0.45	1.16	4.48	28.73	83.63	7.55	4.55	9.15
DP 0912 B2RF	3216	1375	0.43	1.08	4.38	28.70	83.53	6.20	3.90	9.25
DP 1028 B2RF	2925	1374	0.47	1.10	4.20	29.18	83.33	7.75	4.60	8.00
FM 1944GLB2	3394	1353	0.40	1.18	4.00	28.78	83.28	5.23	4.60	10.55
DP 1311 B2RF	3026	1351	0.45	1.13	3.95	27.63	82.65	7.40	3.90	8.50
AM 1550 B2RF	3158	1345	0.43	1.10	3.88	27.75	82.53	7.28	4.30	9.45
NG 5315 B2RF	2891	1321	0.46	1.11	4.18	29.20	83.15	7.83	4.60	7.60
Px300304WRF	3188	1285	0.40	1.14	3.75	29.30	83.35	5.65	4.50	8.90
HQ 110 CT	3008	1281	0.43	1.11	4.08	28.95	82.55	6.25	3.90	8.90
DG 2610 B2RF	2851	1272	0.45	1.15	4.20	30.23	84.15	7.63	4.75	9.25
MON 12R224B2R2	3060	1263	0.41	1.16	3.40	28.63	83.15	6.45	3.90	8.95
DP 1133 B2RF	2743	1256	0.46	1.14	4.20	31.50	83.90	6.35	4.45	8.75
DP 1137 B2RF	2796	1236	0.44	1.16	4.08	29.43	83.50	6.85	4.60	9.70
DP 1321 B2RF	2799	1235	0.44	1.14	4.03	31.63	83.83	7.63	4.05	9.05
MON 12R242B2R2	2822	1214	0.43	1.12	3.98	28.80	83.28	8.60	4.30	8.20
Croplan 3787 B2RF	2619	1211	0.46	1.12	4.05	29.25	82.50	7.75	4.45	8.55
Px445022WRF	2981	1197	0.40	1.17	3.78	29.65	83.73	6.85	3.80	8.95
DP 1044 B2RF	2895	1177	0.41	1.14	3.73	31.43	83.43	7.30	4.30	8.50
ST 4747GLB2	2757	1143	0.41	1.20	3.60	26.53	83.28	5.83	4.20	8.85
SSG UA 222	2774	1142	0.41	1.21	3.53	30.78	83.13	7.63	3.85	9.50
ST 4946GLB2	2843	1140	0.40	1.17	3.80	31.30	84.43	6.93	5.00	10.45
PHY 417 WRF	2554	1122	0.44	1.13	3.48	28.93	83.25	7.13	3.95	7.65
DP 1034 B2RF	2403	1066	0.44	1.16	4.03	29.63	83.23	7.08	4.65	9.15
DG 2285 B2RF	2549	958	0.38	1.17	3.53	29.95	83.50	7.30	4.10	8.75
Overall Mean	3133	1366	0.43	1.14	3.91	29.42	83.42	6.94	4.3	8.93
LSD(0.05)	599	244	0.16	0.03	0.35	1.29	1.77	0.8	0.62	1.16
C.V. (%)	13.67	12.62	2.71	1.94	6.39	3.14	1.01	8.23	7.11	6.47

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 10. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Falaya Silt loam on Pace Perry Farms near Senatobia, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px312b51WRF	5612	**2472**	0.42	1.20	4.03	31.55	85.08	6.70	4.33	10.65
Px375001WRF	5162	**2431**	0.45	1.18	4.33	32.90	84.30	7.43	5.53	10.33
DP 1321 B2RF	5015	**2429**	0.42	1.16	4.50	33.13	85.10	8.28	5.48	10.63
Px444414WRF	5316	**2375**	0.42	1.20	3.98	31.65	85.10	6.45	5.35	11.10
PHY 333 WRF	5153	**2345**	0.43	1.20	4.23	30.15	84.78	6.30	5.13	10.58
DP 0912 B2RF	5405	**2336**	0.41	1.14	4.50	30.88	84.20	6.90	5.03	10.18
PHY 499 WRF	5173	**2335**	0.43	1.18	4.45	35.08	85.58	6.98	5.05	10.00
ST 4747GLB2	5256	**2307**	0.42	1.19	4.25	27.55	83.28	5.73	5.38	10.55
PHY 339 WRF	5283	**2298**	0.41	1.20	4.08	31.75	84.63	6.85	5.23	10.20
PHY 375 WRF	5049	**2292**	0.43	1.16	4.10	30.23	84.48	6.55	4.93	10.65
Px444413WRF	4911	2224	0.43	1.26	3.75	31.48	85.83	6.48	5.63	11.65
NG 1511 B2RF	4908	2223	0.43	1.16	4.55	33.00	84.68	7.70	4.88	10.90
ST 4946GLB2	5282	2203	0.40	1.19	4.40	33.45	85.05	7.23	5.95	12.40
PHY 575 WRF	5175	2187	0.40	1.22	3.88	30.60	84.35	6.80	4.88	10.00
ST 6448GLB2	5116	2163	0.40	1.24	4.15	29.00	83.70	5.60	4.75	10.10
ST 5288B2F	5035	2148	0.40	1.17	4.28	29.88	83.65	6.55	4.90	9.33
SSG UA 222	4946	2145	0.41	1.23	4.20	33.40	85.18	7.73	5.38	11.40
Px554010WRF	4620	2125	0.44	1.18	3.85	30.75	84.30	6.80	4.68	8.55
Px445022WRF	4856	2123	0.41	1.19	4.48	32.25	85.00	6.63	4.73	10.73
Px553840WRF	4820	2081	0.41	1.18	4.03	31.18	84.65	5.88	4.00	9.13
DG 2285 B2RF	4790	2072	0.41	1.21	4.18	31.43	85.58	7.48	4.90	10.78
DP 1048 B2RF	4604	2066	0.43	1.17	4.25	30.30	84.35	7.60	5.28	10.10
DP 1133 B2RF	4425	2060	0.44	1.16	4.13	33.70	84.55	6.73	5.00	8.75
DP 1028 B2RF	4397	2046	0.44	1.14	4.40	31.20	84.40	7.33	5.15	9.60
DP 1137 B2RF	4598	2037	0.42	1.17	4.18	30.50	84.10	7.05	5.63	9.80
PHY 417 WRF	4556	2032	0.42	1.17	3.83	32.05	84.40	7.30	4.50	8.93
Px300310WRF	4686	2020	0.41	1.15	4.33	32.35	83.30	6.95	4.63	9.45
MON 12R242B2R2	4597	2013	0.41	1.17	4.35	31.30	84.58	7.95	4.83	9.38
FM 1944GLB2	4852	1996	0.39	1.22	4.35	31.08	84.83	5.18	5.83	11.63
AM 1550 B2RF	4072	1980	0.41	1.15	4.10	29.30	84.28	7.03	5.75	10.20
Croplan 3787 B2RF	4368	1973	0.43	1.17	4.30	30.48	84.55	7.80	5.60	9.58
MON 12R224B2R2	4731	1969	0.39	1.20	3.90	30.40	84.20	6.60	5.15	10.63
DP 1044 B2RF	4663	1962	0.40	1.15	4.05	32.08	83.88	7.30	4.03	9.83
PHY 427 WRF	4583	1944	0.40	1.17	4.13	32.88	84.38	7.08	4.93	10.15
HQ 110 CT	4397	1890	0.41	1.16	4.45	32.23	84.13	6.30	4.93	10.88
Px300304WRF	4255	1838	0.41	1.17	4.23	31.65	83.73	5.58	5.28	10.38
DP 1034 B2RF	4134	1822	0.42	1.17	4.08	30.30	83.93	7.80	5.73	9.60
NG 5315 B2RF	4034	1819	0.43	1.18	4.15	31.58	85.13	7.43	5.60	9.58
Croplan 3428 B2RF	4070	1799	0.42	1.20	4.35	30.55	83.93	6.83	5.03	9.68
DP 1311 B2RF	4034	1774	0.42	1.17	4.03	30.05	83.75	7.10	4.63	9.05
PHY 599 WRF	3722	1633	0.42	1.22	3.78	31.38	84.55	5.78	3.95	8.93
DG 2610 B2RF	3153	857	0.42	1.16	4.15	31.13	85.00	7.58	5.28	9.48
Overall Mean	4709	2081	0.42	1.18	4.18	31.37	84.48	6.88	5.06	10.13
LSD(0.05)	636	242	0.14	0.03	0.27	1.25	1.05	0.71	0.91	0.71
C.V. (%)	9.65	8.13	2..47	1.96	4.63	2.84	0.89	7.33	12.95	4.96

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 11. Mean yield performance and fiber characteristics for cotton varieties cultivated on a nonirrigated Marietta Fine Sandy loam at Mississippi State University near Starkville, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
DP 1321 B2RF	4144	**1491**	0.44	1.18	4.13	32.37	85.17	8.70	5.67	9.40
DP 1137 B2RF	4051	**1488**	0.44	1.16	4.37	31.30	84.57	7.60	5.94	9.77
Croplan 3428 B2RF	4025	**1468**	0.44	1.20	4.13	32.50	85.10	7.33	5.26	8.70
Croplan 3787 B2RF	3967	**1463**	0.45	1.15	4.23	32.20	83.13	7.87	5.42	8.90
DP 1048 B2RF	3942	**1453**	0.45	1.19	4.23	31.57	84.07	7.47	5.45	9.37
DP 1133 B2RF	3847	**1439**	0.45	1.17	4.40	34.43	85.43	7.67	5.17	9.10
DP 0912 B2RF	4050	**1437**	0.43	1.17	4.27	32.23	84.70	6.60	5.89	9.30
NG 5315 B2RF	3676	**1431**	0.45	1.17	4.07	31.00	84.43	8.30	5.55	9.40
PHY 339 WRF	4113	**1430**	0.42	1.21	3.87	32.40	83.83	7.10	5.38	9.43
Px444413WRF	3878	**1406**	0.44	1.27	3.47	32.87	86.07	6.43	5.77	10.23
Px444414WRF	3993	**1397**	0.42	1.19	3.70	33.30	84.90	6.93	5.84	10.17
PHY 333 WRF	3843	**1391**	0.44	1.20	3.87	31.67	84.63	6.40	5.62	9.33
DG 2610 B2RF	3755	**1388**	0.45	1.20	4.17	30.90	83.53	7.87	5.46	9.33
PHY 575 WRF	4051	**1360**	0.41	1.19	3.60	31.93	84.27	7.07	5.09	9.03
PHY 499 WRF	3710	**1359**	0.44	1.18	4.37	35.60	85.57	7.60	5.85	9.60
NG 1511 B2RF	3739	**1359**	0.44	1.18	3.93	32.67	85.10	7.47	5.38	9.50
DP 1028 B2RF	3584	**1338**	0.45	1.17	4.30	31.97	84.63	7.43	5.64	8.90
DP 1034 B2RF	3484	**1302**	0.45	1.15	3.90	32.50	84.30	7.60	5.17	8.73
ST 4747GLB2	3634	**1292**	0.43	1.22	3.53	28.90	83.87	5.80	5.08	9.17
Px375001WRF	4125	**1288**	0.44	1.20	3.80	32.97	84.80	7.53	5.58	8.97
Px445022WRF	3747	**1281**	0.41	1.20	3.83	33.63	84.20	6.97	5.29	9.27
Px554010WRF	3594	**1276**	0.43	1.20	3.70	31.70	84.00	6.95	4.80	8.80
MON 12R224B2R2	3756	**1274**	0.41	1.18	3.67	31.73	84.23	6.73	5.09	9.40
ST 6448GLB2	3612	**1274**	0.43	1.23	3.77	30.57	84.27	5.50	5.14	9.20
PHY 375 WRF	3631	1268	0.42	1.16	3.53	30.80	83.93	6.90	5.34	9.43
Px553840WRF	3644	1264	0.42	1.21	4.03	32.97	85.60	6.13	5.15	9.10
MON 12R242B2R2	3390	1252	0.45	1.15	4.10	31.23	84.07	8.50	5.28	8.43
AM 1550 B2RF	3568	1233	0.42	1.15	3.77	29.33	82.70	7.47	5.49	9.47
Px312b51WRF	3553	1211	0.41	1.20	3.50	31.77	84.93	6.50	5.21	9.07
FM 1944GLB2	3548	1209	0.41	1.22	3.77	31.63	83.57	5.23	5.79	9.70
PHY 417 WRF	3375	1208	0.43	1.17	3.50	32.43	84.10	7.37	4.94	8.07
DG 2285 B2RF	3418	1198	0.42	1.17	3.67	30.57	84.80	7.47	5.39	9.50
DP 1311 B2RF	3357	1189	0.43	1.14	4.20	31.47	83.93	7.63	5.01	8.27
PHY 427 WRF	3489	1189	0.41	1.17	3.80	32.23	83.63	6.63	4.95	9.00
PHY 599 WRF	3227	1140	0.43	1.23	4.20	32.17	85.50	6.67	5.38	8.87
HQ 110 CT	3385	1138	0.41	1.18	3.80	34.03	84.33	6.13	4.88	9.00
ST 5288B2F	3206	1133	0.43	1.15	3.93	29.83	83.13	6.97	5.19	9.27
Px300310WRF	3318	1129	0.41	1.18	3.87	32.13	84.73	7.30	5.62	8.97
Px300304WRF	3183	1050	0.40	1.21	3.53	32.50	84.30	5.73	5.11	8.90
SSG UA 222	2976	1024	0.42	1.27	3.60	33.67	84.13	7.77	5.30	9.37
ST 4946GLB2	3026	1021	0.41	1.18	3.43	33.37	84.27	6.87	5.61	9.93
DP 1044 B2RF	2824	924	0.39	1.18	3.63	33.33	83.77	7.53	4.74	8.77
Overall Mean	3629	1281	0.43	1.19	3.88	32.11	84.39	7.1	5.35	9.2
LSD(0.05)	658	222	0.01	0.03	0.35	1.73	1.31	0.85	0.69	0.98
C.V. (%)	12.94	12.26	2.02	1.76	5.51	3.3	0.95	7.35	7.87	6.53

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 12. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Commerce very fine sandy loam at the Delta Research and Extension Center near Stoneville, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px553840WRF	6034	**2649**	0.44	1.16	4.65	31.83	84.30	6.20	5.08	9.83
Px300310WRF	6137	**2604**	0.42	1.13	4.85	32.08	83.48	7.08	5.20	9.08
Px375001WRF	5674	**2602**	0.46	1.14	4.80	32.83	83.60	7.90	5.80	10.20
Px445022WRF	6011	**2569**	0.43	1.17	4.70	33.03	84.95	6.60	5.45	9.90
PHY 375 WRF	5707	**2548**	0.45	1.13	4.65	31.18	83.98	6.53	5.33	10.28
Px312b51WRF	6296	**2531**	0.44	1.17	4.70	31.63	85.00	7.03	5.30	10.30
PHY 427 WRF	6034	**2525**	0.42	1.14	4.53	32.48	83.63	7.18	5.18	9.48
PHY 417 WRF	5655	**2524**	0.45	1.13	4.40	32.28	84.50	7.73	5.53	9.28
PHY 333 WRF	5665	**2524**	0.45	1.18	4.70	31.38	84.65	5.75	5.60	9.83
Px300304WRF	6085	**2436**	0.40	1.15	4.75	32.53	84.48	5.88	5.63	9.78
Px444413WRF	5380	2408	0.45	1.25	4.28	32.40	85.83	6.08	5.43	11.13
Px554010WRF	5473	2392	0.44	1.17	4.35	32.50	84.75	6.58	5.00	8.73
Px444414WRF	5478	2387	0.44	1.19	4.43	32.50	84.48	6.50	5.40	10.73
ST 4946GLB2	5674	2373	0.42	1.19	5.03	34.03	84.53	6.98	6.13	12.05
PHY 499 WRF	5847	2316	0.44	1.17	4.93	34.80	84.70	7.33	5.65	9.65
PHY 575 WRF	5552	2305	0.42	1.21	4.43	31.98	84.45	7.05	5.65	10.28
PHY 339 WRF	5585	2284	0.44	1.17	4.60	31.98	84.85	6.55	5.48	10.18
PHY 599 WRF	5160	2260	0.44	1.22	4.50	32.70	84.53	6.65	5.13	9.48
ST 6448GLB2	5197	2236	0.43	1.22	4.65	30.58	83.98	5.40	5.03	10.05
ST 4747GLB2	5258	2217	0.42	1.21	4.60	29.00	84.05	5.23	5.63	10.70
DP 1321 B2RF	4987	2183	0.44	1.13	5.15	32.98	84.55	8.60	5.95	10.05
NG 1511 B2RF	4688	2138	0.46	1.15	5.10	33.05	83.93	7.88	5.43	10.18
DP 0912 B2RF	4837	2083	0.43	1.12	5.35	31.25	84.10	6.98	5.38	9.88
Croplan 3787 B2RF	4496	2067	0.46	1.13	4.93	30.88	83.68	7.88	5.68	9.08
DP 1133 B2RF	4370	2048	0.47	1.13	5.18	34.55	84.23	6.60	5.35	9.50
MON 12R224B2R2	4702	2016	0.43	1.16	4.68	31.05	84.75	6.70	5.40	10.03
DP 1048 B2RF	4328	1995	0.46	1.16	4.75	31.45	84.33	7.58	5.30	9.55
DP 1028 B2RF	4277	1992	0.47	1.12	5.18	31.25	84.25	7.68	5.63	9.15
FM 1944GLB2	5197	1939	0.40	1.23	4.88	31.53	85.73	4.80	5.70	11.40
DP 1034 B2RF	4230	1938	0.46	1.14	4.90	30.90	83.88	7.95	5.63	9.08
AM 1550 B2RF	4393	1936	0.44	1.09	5.08	29.30	83.68	7.25	5.60	10.13
HQ 110 CT	4548	1924	0.42	1.13	4.85	32.78	83.25	6.73	5.68	10.33
DG 2285 B2RF	4912	1914	0.43	1.16	4.90	31.75	84.43	7.50	5.55	10.83
SSG UA 222	4449	1888	0.42	1.16	4.93	32.70	83.98	7.78	6.05	10.80
ST 5288B2F	4538	1877	0.41	1.13	5.23	30.05	83.33	6.50	5.38	9.75
MON 12R242B2R2	4459	1875	0.46	1.13	5.25	31.45	83.95	8.85	5.25	9.50
DP 1044 B2RF	4192	1809	0.43	1.14	4.85	31.60	83.83	7.10	5.30	9.85
DP 1137 B2RF	3949	1789	0.45	1.13	4.98	30.85	83.88	7.58	5.70	9.35
Croplan 3428 B2RF	3921	1780	0.45	1.18	5.00	30.95	83.98	7.25	5.33	9.25
DP 1311 B2RF	3931	1774	0.45	1.11	4.85	29.85	83.65	7.68	4.90	9.75
DG 2610 B2RF	3889	1768	0.45	1.14	4.80	31.75	84.03	7.63	5.63	9.48
NG 5315 B2RF	3692	1677	0.46	1.12	4.98	31.65	83.88	8.15	5.18	9.10
Overall Mean	5021	2170	0.44	1.16	4.82	31.84	84.24	7.02	5.46	9.92
LSD(0.05)	647	236	0.02	0.04	0.18	1.41	1.01	0.65	0.61	0.83
C.V. (%)	9.2	7.6	3.22	2.18	2.64	3.16	0.85	6.62	8.02	5.97

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 13. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Sharkey Clay on George Perry Farms near Tunica, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
DP 1321 B2RF	4320	**1904**	0.44	1.17	4.70	32.48	84.65	8.33	5.40	10.50
DP 0912 B2RF	4500	**1901**	0.42	1.15	5.23	32.20	84.78	6.75	5.15	10.93
NG 1511 B2RF	4095	**1825**	0.45	1.17	4.98	33.73	84.70	8.38	5.10	10.80
PHY 333 WRF	4092	**1812**	0.44	1.20	4.70	33.00	86.13	6.53	4.33	10.65
Px312b51WRF	4033	**1801**	0.45	1.19	4.73	32.58	85.83	7.00	4.55	11.08
Px375001WRF	3934	**1800**	0.46	1.20	4.95	33.40	85.30	8.30	5.40	10.43
AM 1550 B2RF	4009	**1736**	0.43	1.14	4.83	30.28	84.53	6.65	4.40	10.90
DP 1311 B2RF	3866	**1734**	0.45	1.16	4.58	31.10	83.98	7.45	4.25	8.98
Px553840WRF	3996	**1723**	0.43	1.21	4.68	32.55	85.95	6.20	4.25	9.53
Px300310WRF	3880	**1716**	0.44	1.16	4.75	33.80	84.93	7.35	4.23	9.23
Px445022WRF	3884	**1704**	0.44	1.19	4.85	34.58	85.70	6.80	4.85	10.43
MON 12R224B2R2	3904	**1673**	0.43	1.21	4.53	32.28	85.70	6.43	5.18	10.65
PHY 375 WRF	3606	1633	0.45	1.18	4.68	32.25	85.20	7.65	4.38	9.93
PHY 427 WRF	3852	1632	0.42	1.13	4.70	32.55	84.28	6.20	4.78	9.85
Px300304WRF	3792	1622	0.43	1.17	4.48	33.38	85.23	7.55	5.15	9.83
PHY 417 WRF	3660	1612	0.44	1.18	4.73	33.98	84.45	6.35	4.15	9.05
DG 2285 B2RF	3748	1609	0.43	1.14	4.35	32.93	84.15	7.45	4.98	10.68
PHY 499 WRF	3553	1593	0.45	1.17	5.08	36.50	85.55	7.55	4.73	10.30
ST 4747GLB2	3758	1582	0.42	1.25	4.88	30.08	84.78	5.20	4.85	11.65
ST 4946GLB2	3735	1565	0.42	1.20	5.05	35.35	85.83	7.75	5.18	12.30
ST 5288B2F	3644	1542	0.42	1.17	4.83	31.08	84.75	6.83	5.50	9.53
Px444413WRF	3486	1542	0.44	1.26	4.10	33.25	86.30	6.65	5.08	11.95
Px444414WRF	3472	1527	0.44	1.20	4.53	33.45	85.28	6.73	4.38	10.83
DP 1044 B2RF	3601	1517	0.42	1.16	4.73	32.53	84.10	8.30	4.95	9.98
MON 12R242B2R2	3443	1512	0.44	1.17	4.95	32.78	85.13	8.83	4.98	9.83
Px554010WRF	3222	1467	0.46	1.16	4.20	32.20	84.90	6.68	4.18	9.10
PHY 339 WRF	3340	1456	0.44	1.22	4.68	33.43	85.88	6.88	4.85	10.23
FM 1944GLB2	3547	1444	0.41	1.23	5.00	32.63	85.75	5.28	4.78	11.95
SSG UA 222	3461	1432	0.41	1.24	4.70	34.43	85.40	8.30	5.08	12.20
DP 1137 B2RF	3244	1396	0.43	1.18	4.60	32.08	85.55	7.88	5.45	10.38
DP 1034 B2RF	3126	1372	0.44	1.20	4.65	32.35	85.08	7.88	5.40	10.03
ST 6448GLB2	3304	1366	0.41	1.23	4.68	30.63	84.85	5.50	4.55	10.38
Croplan 3787 B2RF	3062	1362	0.44	1.18	4.63	32.53	84.98	7.83	4.70	9.90
DP 1133 B2RF	2579	1333	0.45	1.20	4.73	33.48	85.20	7.08	4.80	9.73
DP 1028 B2RF	2970	1312	0.44	1.18	4.55	31.95	84.68	7.90	4.55	10.25
DP 1048 B2RF	2975	1305	0.44	1.19	4.45	32.95	85.65	8.18	4.35	10.35
DG 2610 B2RF	2975	1301	0.44	1.24	4.30	31.65	85.23	7.48	4.63	10.00
PHY 575 WRF	3131	1288	0.41	1.20	4.53	32.70	86.03	8.78	4.20	10.33
NG 5315 B2RF	2850	1236	0.43	1.18	4.80	33.33	84.83	6.40	4.63	10.55
Croplan 3428 B2RF	2725	1167	0.43	1.22	4.70	32.63	84.85	7.18	4.73	9.98
HQ 110 CT	2943	1058	0.41	1.20	4.73	36.28	86.05	7.50	4.75	10.43
PHY 599 WRF	2333	1008	0.43	1.22	4.15	32.55	85.05	6.48	3.78	8.80
Overall Mean	3516	1526	0.43	1.19	4.68	32.85	85.17	7.19	4.75	10.34
LSD(0.05)	591	255	0.01	0.03	0.26	1.28	1.08	0.65	0.9	0.78
C.V. (%)	12.01	11.88	1.8	1.84	3.89	2.78	0.91	6.48	13.57	5.39

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 14. Mean yield performance and fiber characteristics for cotton varieties cultivated on a nonirrigated Leeper silty loam at the North Mississippi Research and Extension Center near Verona, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
PHY 499 WRF	3356	**1593**	0.47	1.13	4.63	34.80	83.80	8.20	7.28	8.73
Px444414WRF	3257	**1539**	0.47	1.17	4.55	34.48	85.33	7.00	7.55	10.08
Px553840WRF	3331	**1526**	0.46	1.15	4.33	32.65	85.25	6.43	6.45	8.10
PHY 375 WRF	3228	**1488**	0.46	1.13	4.43	30.95	83.00	7.00	7.40	8.90
DP 0912 B2RF	3287	**1487**	0.45	1.12	4.90	32.30	83.50	7.10	7.03	9.60
Croplan 3787 B2RF	3144	**1472**	0.47	1.15	4.65	31.50	84.75	8.25	9.00	8.68
Px444413WRF	3090	**1470**	0.48	1.24	4.18	33.68	86.15	6.80	7.10	10.00
DG 2610 B2RF	3159	**1467**	0.46	1.16	4.53	31.80	84.08	8.25	6.80	8.73
PHY 575 WRF	3070	**1460**	0.45	1.21	4.45	29.95	84.63	5.90	7.05	9.28
ST 6448GLB2	3247	**1458**	0.45	1.15	4.40	32.85	84.98	6.80	6.40	8.90
Px312b51WRF	3090	**1450**	0.47	1.14	4.75	31.05	84.13	8.70	6.88	9.20
DP 1137 B2RF	3055	**1435**	0.47	1.19	4.53	35.05	84.73	6.73	7.38	8.80
Px445022WRF	3168	**1430**	0.45	1.16	4.63	31.68	84.08	8.83	6.48	9.13
NG 5315 B2RF	2961	**1430**	0.48	1.13	4.78	31.70	84.58	9.28	6.18	8.55
MON 12R242B2R2	3030	**1427**	0.47	1.16	4.93	33.98	84.65	9.08	6.93	8.33
DP 1321 B2RF	3080	**1421**	0.46	1.16	4.55	31.60	84.18	8.20	7.55	9.75
DP 1034 B2RF	3011	**1411**	0.47	1.14	4.65	30.63	84.15	8.53	7.63	8.70
DP 1048 B2RF	3011	**1400**	0.46	1.15	4.10	32.33	84.98	6.65	7.15	8.65
Px554010WRF	3035	1396	0.46	1.13	4.58	33.85	83.90	7.80	6.15	7.60
Px375001WRF	2952	1395	0.47	1.19	4.20	32.35	84.50	7.08	6.68	8.83
PHY 333 WRF	2927	1372	0.47	1.17	4.33	31.40	84.78	6.28	7.33	8.68
DP 1028 B2RF	2824	1333	0.47	1.13	4.75	31.70	84.33	8.20	7.28	8.53
SSG UA 222	3011	1319	0.44	1.23	4.38	33.65	84.80	8.30	7.58	10.15
AM 1550 B2RF	2878	1318	0.46	1.10	4.68	29.90	83.95	7.05	7.43	9.00
ST 5288B2F	2873	1296	0.45	1.13	4.68	31.93	83.83	6.93	6.23	8.55
PHY 599 WRF	2804	1293	0.46	1.19	4.05	32.18	85.03	6.33	5.85	7.85
NG 1511 B2RF	2784	1291	0.46	1.14	4.78	33.68	83.88	8.20	7.00	9.73
Px300310WRF	2922	1289	0.44	1.11	4.13	32.05	83.18	7.80	5.93	7.95
ST 4747GLB2	2804	1263	0.45	1.20	4.60	29.13	84.23	5.80	7.05	9.38
PHY 339 WRF	2690	1226	0.46	1.18	4.63	33.20	84.65	6.73	7.38	9.15
DG 2285 B2RF	2690	1217	0.45	1.19	4.45	31.73	84.93	8.10	9.30	9.45
DP 1133 B2RF	2518	1202	0.48	1.13	4.75	34.25	84.50	7.58	6.50	8.90
DP 1311 B2RF	2523	1200	0.48	1.15	4.80	32.38	84.85	7.73	6.80	8.18
DP 1044 B2RF	2779	1196	0.43	1.13	4.15	32.50	83.93	7.95	7.35	8.60
HQ 110 CT	2695	1186	0.44	1.14	4.15	34.20	84.13	6.00	6.65	8.65
Px300304WRF	2745	1175	0.43	1.16	4.28	31.65	84.58	6.63	6.85	8.80
MON 12R224B2R2	2631	1160	0.44	1.22	4.50	32.08	84.68	5.48	6.73	9.53
FM 1944GLB2	2715	1158	0.43	1.14	4.43	33.10	83.95	6.55	7.30	10.40
Croplan 3428 B2RF	2464	1135	0.46	1.19	4.70	30.80	85.13	7.20	6.50	8.75
ST 4946GLB2	2577	1040	0.43	1.18	4.23	34.38	84.95	7.40	7.73	10.03
PHY 417 WRF	2188	991	0.45	1.15	3.78	33.50	84.30	7.30	6.90	8.18
PHY 427 WRF	2203	958	0.43	1.14	4.15	32.73	84.53	7.50	6.85	8.80
Overall Mean	2900	1329	0.46	1.16	4.47	32.41	84.44	7.37	7.03	8.95
LSD(0.05)	399	193	0.01	0.03	0.27	1.28	0.95	0.7	1.41	0.66
C.V. (%)	9.82	10.32	1.59	1.78	4.24	2.81	0.81	6.77	14.34	5.30

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 15. Mean yield performances and fiber characteristics for CAST cotton varieties cultivated on Commerce very fine sandy loam at the Delta Research and Extension Center near Stoneville, Mississippi, 2013.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
DGX 11W351 B2R	5652	**2657**	0.45	1.16	5.13	33.00	83.95	6.75	4.48	10.25
PHY 375 WRF	6174	**2613**	0.45	1.13	4.83	30.05	83.25	6.70	3.95	9.98
DP 0912 B2RF	5770	2325	0.43	1.11	5.35	30.65	83.90	6.83	4.15	9.60
MON 13R347B2R2	5233	2293	0.46	1.14	5.20	31.70	83.58	7.08	4.55	9.63
DG CT13125 B2R	5189	2227	0.45	1.15	4.83	31.25	83.85	8.00	3.95	10.13
MON 13R341B2R2	4632	2075	0.47	1.12	5.58	32.60	83.45	5.98	4.58	9.43
CT13414	4706	2071	0.46	1.13	5.18	31.20	84.20	8.90	4.63	9.20
ST 5288B2F	4972	2034	0.43	1.11	5.30	29.80	83.20	7.20	4.05	9.18
BRS-293	4706	1925	0.43	1.10	5.43	33.30	83.65	6.55	4.65	9.95
BRS-286	4701	1893	0.42	1.10	5.03	32.55	83.10	5.98	4.23	10.08
BRS-269	3533	1378	0.41	1.18	5.20	32.30	83.93	5.10	4.73	10.28
BRS-335	2779	1133	0.43	1.12	4.88	31.63	83.50	6.15	3.88	9.45
Overall Mean	4837	2039	0.44	1.13	5.15	31.67	83.63	6.76	4.32	9.76
LSD(0.05)	827	296	0.12	0.03	0.26	1.69	1.07	0.57	0.47	0.65
C.V. (%)	11.88	9.95	1.9	2.08	3.51	3.71	0.89	5.85	7.51	4.6

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 16. One-year mean yield performance and fiber characteristics for commercially available varieties in 2014 submitted for testing during 2013 across all locations.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
PHY 333 WRF	4677	1984	0.44	1.18	4.46	30.95	84.84	6.34	5.54	9.78
PHY 375 WRF	4572	1951	0.44	1.13	4.51	30.81	83.81	6.56	5.38	9.77
DP 0912 B2RF	4749	1945	0.43	1.12	4.99	31.18	83.84	6.83	5.54	9.88
PHY 499 WRF	4574	1943	0.44	1.16	4.70	34.50	84.78	7.48	5.57	9.48
NG 1511 B2RF	4461	1919	0.45	1.15	4.80	33.29	84.20	8.09	5.59	10.17
DP 1321 B2RF	4509	1897	0.44	1.15	4.81	33.17	84.45	8.46	5.81	9.98
PHY 339 WRF	4569	1885	0.43	1.19	4.46	32.47	84.79	6.82	5.51	9.76
DP 1048 B2RF	4249	1810	0.44	1.17	4.52	30.85	84.19	7.98	5.44	9.53
ST 5288B2F	4388	1788	0.42	1.15	4.69	30.41	83.71	6.77	5.41	9.28
ST 4946GLB2	4476	1779	0.41	1.18	4.66	34.01	84.90	7.22	6.24	11.12
PHY 575 WRF	4456	1776	0.42	1.21	4.25	31.48	84.60	7.16	5.33	9.77
PHY 427 WRF	4408	1776	0.42	1.15	4.37	32.36	84.02	7.30	5.22	9.39
Croplan 3787 B2RF	4112	1768	0.45	1.15	4.62	31.18	84.11	7.88	5.85	9.22
ST 6448GLB2	4311	1758	0.43	1.21	4.47	29.55	84.11	5.60	5.13	9.54
ST 4747GLB2	4311	1754	0.42	1.21	4.50	28.67	84.04	5.50	5.58	10.17
PHY 417 WRF	4135	1737	0.44	1.14	4.14	32.29	84.06	7.55	5.13	8.76
DP 1137 B2RF	4083	1729	0.44	1.15	4.58	31.13	84.29	7.58	5.76	9.48
DP 1028 B2RF	3917	1720	0.46	1.14	4.73	31.61	84.28	7.75	5.57	9.21
DP 1311 B2RF	4035	1714	0.44	1.15	4.55	30.52	84.00	7.58	5.05	8.90
DP 1133 B2RF	3956	1714	0.45	1.16	4.68	34.46	84.67	7.14	5.31	9.24
FM 1944GLB2	4325	1698	0.41	1.22	4.65	31.35	84.86	5.17	5.76	10.86
DG 2285 B2RF	4144	1692	0.42	1.17	4.47	31.67	84.51	7.58	5.83	10.10
AM 1550 B2RF	4095	1690	0.43	1.12	4.63	29.46	83.84	7.01	5.65	9.98
DG 2610 B2RF	3887	1659	0.44	1.16	4.52	31.76	84.50	7.86	5.55	9.39
DP 1034 B2RF	3859	1646	0.44	1.17	4.52	31.35	84.15	7.85	5.79	9.32
NG 5315 B2RF	3795	1633	0.45	1.15	4.58	31.62	84.54	8.17	5.40	9.34
SSG UA 222	4017	1622	0.42	1.21	4.50	33.21	84.71	7.85	5.83	10.92
DP 1044 B2RF	3964	1595	0.42	1.14	4.44	32.23	83.76	7.72	5.16	9.35
HQ 110 CT	3982	1593	0.42	1.15	4.62	32.50	83.78	6.53	5.35	9.75
Croplan 3428 B2RF	3722	1567	0.44	1.20	4.68	31.15	84.40	7.30	5.24	9.25
PHY 599 WRF	3859	1562	0.44	1.20	4.23	31.74	84.59	6.55	4.83	8.68
Overall Mean	4837	2039	0.44	1.13	5.15	31.67	83.63	6.76	4.32	9.76
LSD(0.05)	827	296	0.12	0.03	0.26	1.69	1.07	0.57	0.47	0.65
C.V. (%)	11.88	9.95	1.9	2.08	3.51	3.71	0.89	5.85	7.51	4.6

[1]Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).

Table 17. CCC loan premiums, discounts, and loan value per acre calculated on 1-year mean yield and quality performance of varieties at four locations in the Delta, 2013.[1]

Variety	Lint yield[1]	Grade & length[2]	Strength	Mic.	Uniformity	Loan Price[3]	Lint Value	Net Return[4]
	lb/A	*points/lb*	*points/lb*	*points/lb*	*points/lb*	*¢/lb*	*$/A*	*$/A*
Px312b51WRF	**2494**	145	30	0	25	54.00	1,347	1,290
Px375001WRF	**2363**	140	30	0	20	53.90	1,274	1,223
Px300310WRF	**2349**	140	30	0	10	53.80	1,264	1,206
PHY 333 WRF	**2322**	145	30	0	25	54.00	1,254	1,200
NG 1511 B2RF	**2262**	140	30	-270	20	51.20	1,158	1,109
Px445022WRF	**2254**	145	30	0	25	54.00	1,217	1,162
DP 0912 B2RF	**2232**	135	30	-385	10	49.90	1,114	1,056
PHY 427 WRF	**2209**	140	30	0	20	53.90	1,191	1,132
PHY 375 WRF	**2208**	135	30	0	20	53.85	1,189	1,139
Px444414WRF	**2208**	145	30	0	20	53.95	1,191	1,139
Px553840WRF	**2206**	140	30	0	20	53.90	1,189	1,134
DP 1321 B2RF	**2198**	140	30	-270	20	51.20	1,125	1,072
ST 4946GLB2	**2189**	145	30	-270	25	51.30	1,123	1,063
PHY 499 WRF	**2172**	140	30	0	25	53.95	1,172	1,121
PHY 339 WRF	2144	145	30	0	25	54.00	1,158	1,105
PHY 417 WRF	2135	140	30	0	20	53.90	1,151	1,102
Px300304WRF	2116	140	30	0	20	53.90	1,141	1,081
Px444413WRF	2112	145	30	0	25	54.00	1,140	1,094
Px554010WRF	2069	140	30	0	20	53.90	1,115	1,069
DP 1311 B2RF	2050	140	15	0	20	53.75	1,102	1,055
ST 5288B2F	2036	140	15	0	10	53.65	1,092	1,038
DP 1133 B2RF	2029	140	30	0	20	53.90	1,094	1,051
PHY 575 WRF	2027	145	30	0	20	53.95	1,094	1,037
DG 2285 B2RF	2023	140	30	0	20	53.90	1,090	1,039
MON 12R242B2R2	2019	140	30	-270	20	51.20	1,034	989
DP 1048 B2RF	2012	145	30	0	20	53.95	1,085	1,040
MON 12R224B2R2	2009	145	30	0	20	53.95	1,084	1,031
ST 4747GLB2	2007	145	10	0	20	53.75	1,079	1,026
Croplan 3787 B2RF	2006	140	30	0	20	53.90	1,081	1,036
FM 1944GLB2	1968	145	30	0	25	54.00	1,063	1,006
AM 1550 B2RF	1961	135	10	0	20	53.65	1,052	1,003
DG 2610 B2RF	1935	140	30	0	20	53.90	1,043	1,000
ST 6448GLB2	1933	145	15	0	20	53.80	1,040	987
DP 1028 B2RF	1917	140	30	0	20	53.90	1,033	993
DP 1137 B2RF	1910	140	30	0	20	53.90	1,029	985
DP 1034 B2RF	1893	140	30	0	20	53.90	1,020	977
DP 1044 B2RF	1875	140	30	0	10	53.80	1,009	960
SSG UA 222	1836	145	30	0	25	54.00	991	941
HQ 110 CT	1812	140	30	0	20	53.90	977	927
NG 5315 B2RF	1786	140	30	0	20	53.90	963	924
PHY 599 WRF	1759	145	30	0	20	53.95	949	906
Croplan 3428 B2RF	1677	145	30	0	20	53.95	905	865

[1]Bolded means are not statistically different from greatest yielding variety at 0.05 level of significance.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).
[2]Length premiums and discounts calculated from 41-4 color and leaf base.
[3]Calculations based on 2012 Crop American Upland Cotton Loan Schedule, web available:
http://www.fsa.usda.gov/FSA/webapp?area=home&subject=prsu&topic=lor .
[4]Net return per acre at loan above harvest and ginning costs after seed credit. Seed credit calculated at USDA-RMA lint-to-seed conversion factor of 1.412, with seed at $240 per ton. Harvest charge calculated at $3.20 per hundredweight of seed cotton, ginning at $0.12 per pound of lint.

Table 18. CCC loan premiums, discounts, and loan value per acre calculated on 1-year mean yield and quality performance of varieties at four locations in the Hill Region, 2013.[1]

Variety	Lint yield[1]	Grade & length[2]	Strength	Mic.	Uniformity	Loan Price[3]	Lint Value	Net Return[4]
	lb/A	*points/lb*	*points/lb*	*points/lb*	*points/lb*	*¢/lb*	*$/A*	*$/A*
Px375001WRF	**1748**	140	30	0	10	53.80	940	903
Px444414WRF	**1724**	140	30	15	20	54.05	932	891
PHY 499 WRF	**1713**	140	30	0	20	53.90	923	884
PHY 375 WRF	**1693**	140	15	15	10	53.80	911	872
Px444413WRF	**1677**	145	30	15	25	54.15	908	871
DP 0912 B2RF	**1659**	135	15	0	10	53.60	889	847
Px312b51WRF	**1658**	140	30	15	20	54.05	896	856
PHY 333 WRF	**1645**	140	10	15	20	53.85	886	849
PHY 339 WRF	**1626**	145	30	15	20	54.10	880	840
Px553840WRF	**1611**	140	30	15	20	54.05	871	831
DP 1048 B2RF	**1608**	140	10	0	10	53.60	862	826
DP 1321 B2RF	**1597**	140	30	0	20	53.90	861	824
PHY 575 WRF	**1595**	145	30	15	20	54.10	863	821
ST 6448GLB2	**1583**	145	0	15	10	53.70	850	810
NG 1511 B2RF	**1576**	140	30	0	20	53.90	849	814
Px554010WRF	**1564**	140	15	15	20	53.90	843	807
DP 1137 B2RF	**1549**	140	15	0	10	53.65	831	795
ST 5288B2F	**1541**	140	15	0	10	53.65	827	788
Croplan 3787 B2RF	**1530**	140	15	0	10	53.65	821	787
DP 1028 B2RF	**1523**	135	15	0	20	53.70	818	787
Px445022WRF	**1508**	145	30	0	20	53.95	814	773
ST 4747GLB2	**1501**	145	0	15	10	53.70	806	768
DP 1133 B2RF	**1489**	140	30	0	20	53.90	803	772
NG 5315 B2RF	**1481**	140	15	0	20	53.75	796	764
Px300310WRF	**1478**	135	30	15	10	53.90	797	758
MON 12R242B2R2	**1476**	140	15	0	20	53.75	793	759
Croplan 3428 B2RF	1457	145	15	0	20	53.80	784	751
FM 1944GLB2	1429	145	15	0	20	53.80	769	728
AM 1550 B2RF	1418	135	10	15	10	53.70	761	725
MON 12R224B2R2	1416	140	15	15	20	53.90	763	724
SSG UA 222	1407	145	30	15	20	54.10	761	723
DP 1034 B2RF	1400	140	15	15	10	53.80	753	721
DG 2610 B2RF	1384	140	30	0	20	53.90	746	714
DP 1311 B2RF	1378	140	15	0	10	53.65	739	708
PHY 599 WRF	1377	145	15	15	20	53.95	743	710
HQ 110 CT	1374	140	30	0	10	53.80	739	702
ST 4946GLB2	1369	145	30	15	20	54.10	741	702
DG 2285 B2RF	1361	145	30	15	20	54.10	736	699
PHY 427 WRF	1343	140	30	15	10	53.95	725	689
PHY 417 WRF	1338	140	30	15	20	54.05	723	691
Px300304WRF	1337	140	30	15	10	53.95	721	684
DP 1044 B2RF	1315	140	30	15	10	53.95	709	671

[1]Bolded means are not statistically different from greatest yielding variety at 0.05 level of significance.
Table is sorted based on lint yield means (i.e., from greatest to lowest lint yield).
[2]Length premiums and discounts calculated from 41-4 color and leaf base.
[3]Calculations based on 2012 Crop American Upland Cotton Loan Schedule, web available:
http://www.fsa.usda.gov/FSA/webapp?area=home&subject=prsu&topic=lor .
[4]Net return per acre at loan above harvest and ginning costs after seed credit. Seed credit calculated at USDA-RMA lint-to-seed conversion factor of 1.412, with seed at $240 per ton. Harvest charge calculated at $3.20 per hundredweight of seed cotton, ginning at $0.12 per pound of lint.

Appendix 1. Dates of agronomically important events for all cotton variety trials and locations in Mississippi, 2013.

Event	Location and soil texture[1]								
	Clarksdale FSL	**Itta Bena SCL**	**Noxubee Co. SCL**	**Senatobia SL**	**Starkville FSL**	**Stoneville VFSL**	**Tunica SCL**	**Verona SL**	**CAST VFSL**
	date	*date*	*date*	*date*	*date*	*date*	*date*	*date*	*date*
Planting Date	5/14	5/16		5/14	6/12	5/9	5/15	5/29	5/9
Irrigation	No	No	No	Yes	No	Yes	Yes	No	Yes
N Application				3/8, 6/14		5/31	4/18, 6/6	6/24	5/31
Pre Herbicide	5/14	5/16		5/14		5/9	5/15	5/30	5/9
Early Post Herbicide				7/17		6/24	7/9	6/19	6/24
Layby Herbicide				8/22		7/10	7/26	7/30	7/10
Early Insecticide				6/15		6/27	6/18, 6/27	6/13, 6/21	6/27
Mid Insecticide				7/16, 7/30		7/5, 7/17, 7/25	7/2, 7/16, 7/26	7/1, 7/9, 7/24, 7/30	7/5, 7/17, 7/25
Late Insecticide				8/22		8/1, 8/8, 8/19, 8/28	8/8, 8/26	8/19, 8/22	8/1, 8/8, 8/19, 8/28
PGR				7/16, 9/27		6/27	7/16, 7/26, 8/8		6/27
Harvest Aid	10/9	9/16		9/27		10/4	9/28	10/1	10/4
Harvest	10/29	10/9		10/21	11/5	10/22	10/22	10/14	10/22

[1]FSL = Fine sandy loam, VFSL = Very-fine sandy loam, SCL = Silty clay loam, SL = Silt loam, LSCL=Leeper silty clay loam.

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