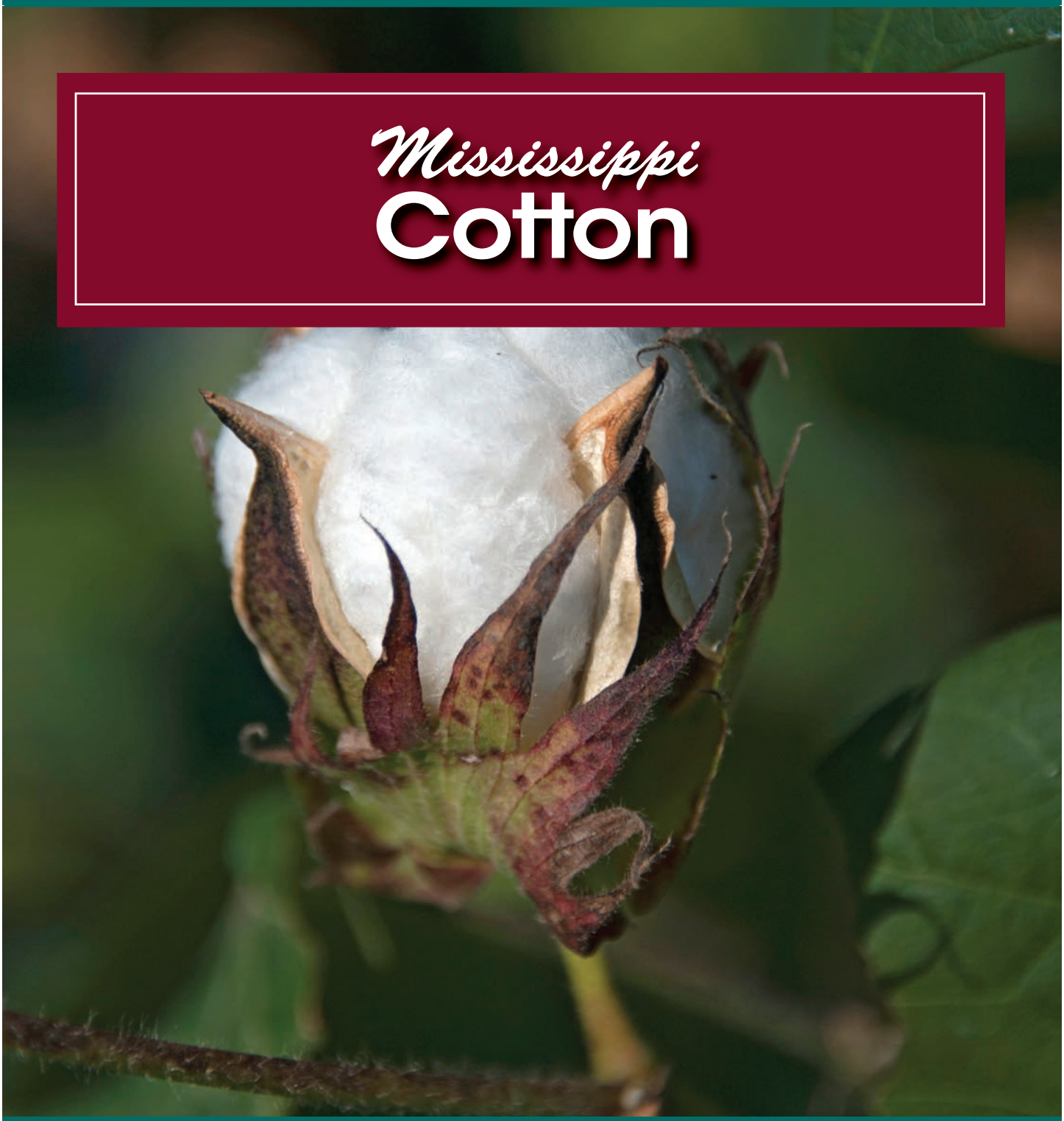
Information Bulletin 495 March 2015

Mississippi Cotton



VARIETY TRIALS, 2014

Mississippi's Official Variety Trials

MAFES

Mississippi Agricultural & Forestry Experiment Station • George M. Hopper, Director

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NOTICE TO USER

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, 2014

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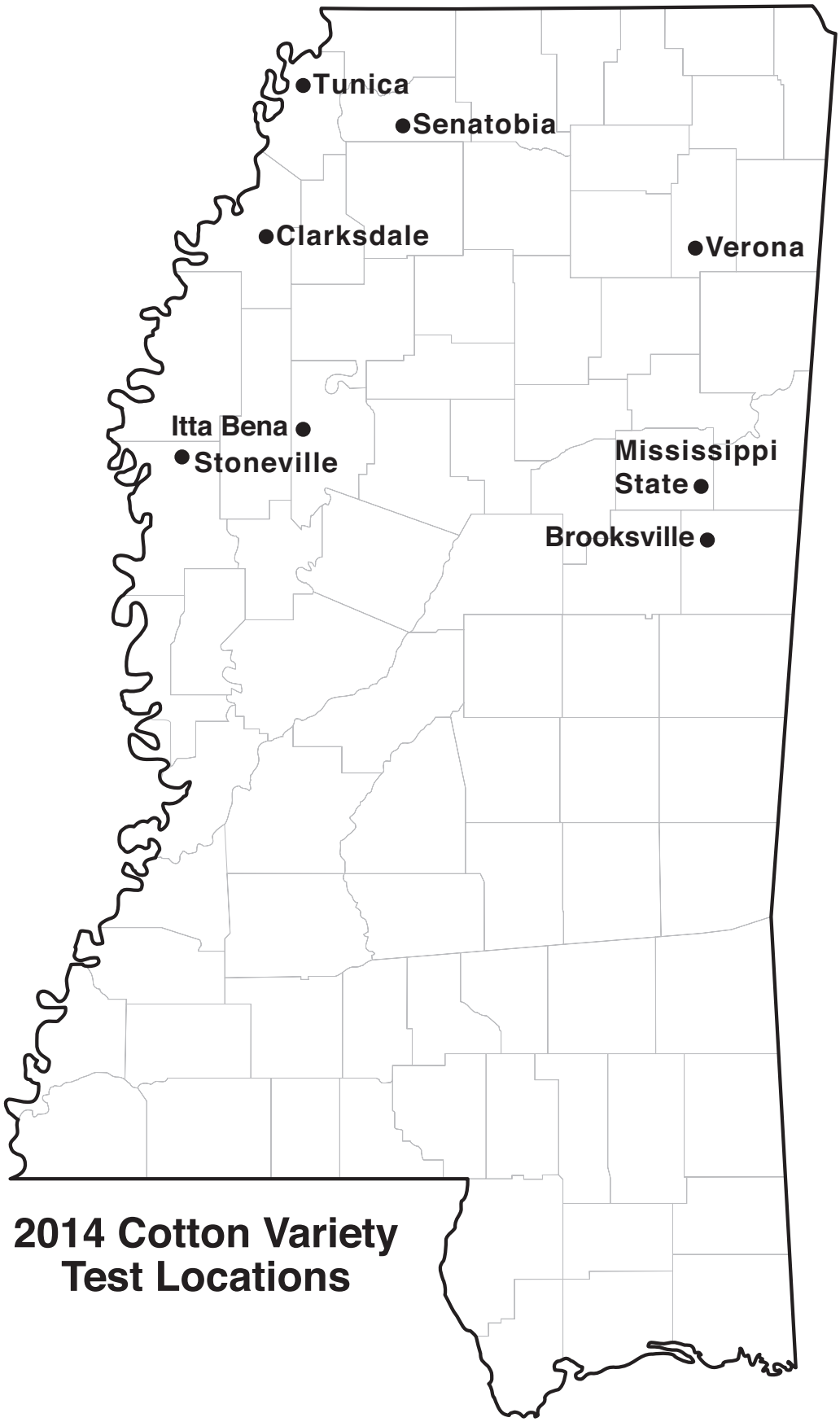
Find variety trial information online at ***mafes.msstate.edu/variety-trials***.

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. No entries were submitted in the CAST during the 2014 testing year.

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.

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 2014 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.

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 2014 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 2014.

Industry contact	Trial and variety submitted[1]		
	Official variety trial	**New variety trial**	**Commercial strain trial**
Americot, Inc. *Tom Brooks*	NG 1511 B2RF		
Bayer CropScience *Andy White*	ST 4946GLB2 ST 6448GLB2 ST 4747GLB2 ST 5032GLT ST 5289GLT	BX 1530GLT BX 1531GLT BX 1532GLT BX 1533GLT BX 1534GLT BX 1535GLT BX 1536GLT	
CPS Dyna-Gro Seed *Scott Cummings*	Dyna-Gro 2285B2RF	Dyna-Gro 2355B2RF Dyno-Gro CT14515	
International Seed Technology *Stacey L. Heard*	BRS-286 BRS-293 BRS-335		
Monsanto *Dave Albers*	DP 1321 B2RF DP 1311 B2RF DP 1133 B2RF DP 1137 B2RF DP 1048 B2RF DP 1034 B2RF DP 1044 B2RF	MON 12R224B2R2	
Phytogen Cottonseed *Brooks Blanche*	PHY 333 WRF PHY 339 WRF PHY 427 WRF PHY 495 W3RF	Px300304WRF Px300310WRF Px300314WRF Px3122b51WRF Px444413WRF Px554057WRF Px554063WRF Px554010WRF Px49907W3RF Px49936W3RF Px37508W3RF Px37520W3RF	
Seed Source Genetics *Ed Jungmann*	HQ210CT SSG-UA 222 HQ110CT		
WinField *Robert Cossar*	CROPLAN 3787 B2RF		
CHECK	DP 0912 B2RF PHY 499WRF ST 5288B2F	DP 0912 B2RF PHY 499WRF ST 5288B2F	

Table 2. One-year mean yield performance and fiber characteristics for OVT varieties submitted for testing in 2014 averaged across all testing locations.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px444413WRF	4058	**1819**	0.46	1.22	4.23	31.49	85.80	7.14	6.29	13.29
Px49907W3RF	3947	**1787**	0.46	1.12	4.62	32.16	84.40	8.11	5.51	8.62
NG 1511 B2RF	3933	**1785**	0.45	1.12	4.83	31.88	83.81	8.56	5.99	9.43
Px3122b51WRF	4118	**1777**	0.44	1.18	4.48	31.47	85.67	7.57	6.32	10.02
MON 12R224B2RF	4082	**1757**	0.44	1.15	4.44	30.38	84.73	7.37	6.16	9.50
PHY 333 WRF	3923	**1744**	0.45	1.17	4.40	30.37	85.03	7.17	6.05	9.64
BX 1531GLT	3808	**1733**	0.46	1.15	4.71	29.90	84.31	7.24	5.95	9.27
DP 1133 B2RF	3919	**1732**	0.45	1.15	4.82	33.37	85.22	7.97	6.20	9.06
Px37520W3RF	3970	**1721**	0.44	1.12	4.30	28.10	83.70	7.55	5.80	9.28
PHY 499WRF	3911	**1711**	0.45	1.13	4.87	33.34	84.73	8.38	5.96	9.35
Px49936W3RF	3787	**1705**	0.46	1.12	4.65	33.12	84.72	8.06	5.92	8.97
DP 0912 B2RF	3965	**1697**	0.43	1.11	4.98	30.79	84.41	7.68	5.96	9.68
Px554063WRF	3810	**1688**	0.45	1.17	4.31	32.05	85.56	7.17	5.28	8.84
UA 222	3958	**1681**	0.42	1.20	4.61	32.72	85.32	8.54	6.84	10.18
Dyna-Gro 2285B	3873	**1681**	0.44	1.15	4.48	30.36	84.33	8.44	6.18	9.28
DP 1321 B2RF	3881	**1675**	0.44	1.13	4.78	32.01	84.61	9.08	6.08	9.55
ST 4946GLB2	3946	**1672**	0.43	1.15	4.72	32.38	84.68	7.71	6.56	10.23
Px37508W3RF	3877	**1671**	0.44	1.14	4.34	30.02	84.42	7.08	5.96	10.07
PHY 339 WRF	3889	**1670**	0.44	1.17	4.47	31.66	84.94	7.72	6.14	9.44
CROPLAN 3787 B2RF	3691	**1642**	0.45	1.15	4.71	31.25	84.49	8.62	6.11	9.20
PHY 495 W3RF	3688	**1639**	0.45	1.12	4.67	33.71	84.90	7.98	5.92	9.38
Px554010WRF	3706	**1638**	0.45	1.15	4.37	31.21	84.92	7.55	5.45	8.74
BX 1534GLT	3731	**1624**	0.43	1.16	4.36	32.54	84.32	7.08	6.75	10.27
Px300310WRF	3790	**1614**	0.43	1.12	4.62	31.40	84.12	8.13	5.65	9.53
Px554057WRF	3686	**1606**	0.44	1.18	4.50	31.30	85.30	7.49	6.01	9.43
ST 5032GLT	3795	**1602**	0.43	1.18	4.30	31.38	84.58	7.58	6.46	10.11
PHY 427 WRF	3801	**1599**	0.43	1.14	4.54	32.05	84.74	8.31	5.68	9.34
ST 4747GLB2	3748	**1599**	0.43	1.19	4.47	28.66	84.40	5.96	6.04	9.67
Px300304WRF	3828	**1592**	0.42	1.15	4.50	31.61	84.54	6.56	5.84	9.86
BX 1530GLT	3421	**1585**	0.46	1.16	4.67	30.00	84.58	7.38	6.06	9.41
DP 1048 B2RF	3596	**1576**	0.44	1.16	4.55	30.78	84.83	8.43	5.80	9.21
ST 6448GLB2	3683	**1570**	0.43	1.20	4.60	29.49	84.86	6.46	5.77	9.27
DP 1044 B2RF	3708	**1563**	0.43	1.13	4.59	31.43	84.36	8.88	5.72	9.25
DP 1311 B2RF	3533	**1562**	0.45	1.14	4.73	30.56	84.83	8.28	5.71	8.94
BX 1532GLT	3365	**1553**	0.47	1.15	4.52	29.79	84.48	7.24	5.72	8.87
BX 1533GLT	3575	**1547**	0.43	1.19	4.46	32.60	84.78	7.65	5.44	9.21
DP 1137 B2RF	3557	**1546**	0.44	1.15	4.68	30.52	84.80	8.39	6.04	9.55
DP 1034 B2RF	3531	**1534**	0.44	1.16	4.58	31.09	84.38	8.72	6.05	9.26
Px300314WRF	3638	**1533**	0.43	1.14	4.67	31.40	84.30	7.16	6.02	9.22
ST 5288B2F	3608	**1515**	0.43	1.13	4.67	29.51	83.88	8.00	5.75	9.10
Dyno-Gro CT145	3544	**1508**	0.43	1.17	4.68	33.05	84.71	7.72	6.57	10.18
BX 1536GLT	3440	1488	0.44	1.14	4.34	32.68	84.41	6.44	5.75	9.42
ST 5289GLT	3527	1487	0.43	1.14	4.59	29.44	84.02	6.66	5.68	9.31
HQ210CT	3527	1430	0.41	1.13	4.79	31.90	83.98	7.28	6.06	9.47
Dyna-Gro 2355B	3516	1429	0.42	1.16	4.61	32.78	84.48	7.79	6.30	10.11
HQ110CT	3436	1406	0.42	1.16	4.52	31.58	84.37	7.25	5.82	9.52
BRS-286	3402	1378	0.41	1.16	4.67	32.92	84.57	6.66	5.94	10.09
BRS-335	3426	1373	0.41	1.17	4.56	32.14	84.68	6.84	6.24	14.23
BX 1535GLT	3316	1367	0.42	1.21	4.28	32.32	85.19	5.59	6.06	10.08
BRS-293	3093	1242	0.41	1.15	4.80	34.44	84.68	7.34	6.86	10.12
Overall Mean	**3720**	**1606**	**0.44**	**1.15**	**4.57**	**31.44**	**84.64**	**7.61**	**6.00**	**9.64**
LSD (0.05)	**764**	**322**	**0.01**	**0.23**	**0.17**	**0.88**	**0.62**	**0.47**	**1.06**	**1.88**
C.V. (%)	**40.21**	**39.15**	**4.05**	**4.03**	**7.38**	**5.50**	**1.43**	**12.27**	**14.2**	**10.12**

[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 3. Two-year mean yield performance of varieties cultivated at three locations in the Delta region during 2013 and 2014.[1]

Variety	Clarksdale		Stoneville		Ita Bena		Tunica		Avg. across location and yr.
	2013	2014	2013	2014	2013	2014	2013	2014	
	lb/A	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*
Px3122b51WRF	3039	1948	2531	2745	2353	2083	1801	1350	2231
PHY 333 WRF	2925	2120	2524	2724	2029	2236	1812	1212	2198
NG 1511 B2RF	2879	2160	2138	2990	2207	2099	1825	1163	2183
Px300310WRF	2949	1951	2604	2654	2127	2102	1716	1057	2145
DP 1321 B2RF	2506	2039	2183	2818	2200	2146	1904	1049	2106
ST 4946GLB2	2815	1755	2284	2807	2004	2083	1565	1376	2086
DP 0912 B2RF	2915	1990	2083	2629	2028	2191	1901	770	2063
Px444413WRF	2418	2098	2387	2835	2081	2218	1542	853	2054
Px554010WRF	2577	2120	2392	2731	1839	2029	1467	1161	2040
PHY 499 WRF	2537	2416	2316	2547	1990	2073	1593	830	2038
Px300304WRF	2561	1899	2436	2549	1843	2116	1622	1165	2024
DP 1133 B2RF	2787	2268	2048	2724	1774	2295	1333	869	2012
MON 12R224B2RF	2433	1988	2016	2707	1915	2106	1673	974	1977
PHY 339 WRF	2712	1883	2284	2473	1978	1954	1456	886	1953
CROPLAN 3787 B2RF	2572	1975	2067	2768	2023	2048	1362	809	1953
ST 5288B2F	2866	1984	1877	2536	1857	1741	1542	987	1924
ST 4747GLB2	2670	1960	2217	2541	1559	1962	1582	823	1914
DP 1048 B2RF	2543	1687	1995	2676	2204	1985	1305	663	1882
ST 6448GLB2	2403	1510	2236	2426	1727	2172	1366	916	1845
DP 1137 B2RF	2614	1683	1809	2676	1842	1835	1517	766	1843
DP 1044 B2RF	2231	1908	1809	2542	1944	1697	1517	897	1818
DP 1034 B2RF	2067	1779	1938	2563	1975	1911	1372	636	1780

[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 yield performance of varieties cultivated at four locations in the Hill region during 2013 and 2014.[1]

Variety	Senatobia		Starkville		Noxubee		Verona		Avg. across location and yr.
	2013	2014	2013	2014	2013	2014	2013	2014	
	lb/A	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*	*lb/A*
Px444413WRF	2224	1731	1406	1891	1606	1213	1470	1448	1624
PHY 499 WRF	2335	1768	1359	1627	1566	875	1593	1645	1596
Px3122b51WRF	2472	1757	1211	1722	1500	871	1450	1739	1590
PHY 339 WRF	2298	1713	1430	1876	1552	972	1226	1615	1585
DP 0912 B2RF	2336	1641	1437	1417	1375	1103	1487	1577	1547
PHY 333 WRF	2345	1751	1391	1576	1472	727	1372	1730	1546
DP 1048 B2RF	2066	1283	1453	1412	1676	1086	1400	1812	1524
DP 1321 B2RF	2429	1316	1491	1429	1235	858	1421	1750	1491
NG 1511 B2RF	2223	1167	1359	1448	1434	976	1291	1906	1476
MON 12R224B2RF	1969	1412	1274	1886	1263	1010	1160	1798	1472
ST 6448GLB2	2163	1276	1274	1591	1437	979	1458	1469	1456
DP 1133 B2RF	2060	1472	1439	1560	1256	994	1202	1613	1450
DP 1137 B2RF	2037	1358	1488	1336	1236	1056	1435	1610	1445
ST 4747GLB2	2307	1695	1292	1372	1143	1053	1263	1411	1442
CROPLAN 3787 B2RF	1973	1169	1463	1566	1211	985	1472	1663	1438
Px554010WRF	2125	1235	1276	1483	1461	734	1396	1409	1390
Px300310WRF	2020	1720	1129	1527	1475	550	1289	1381	1386
ST 5288B2F	2148	1563	1133	1352	1587	532	1296	1441	1382
ST 4946GLB2	2203	1441	1021	1576	1140	991	1040	1527	1367
DP 1034 B2RF	1822	—	1302	1417	1066	916	1411	1516	1350
DP 1044 B2RF	1962	1512	924	1559	1177	887	1196	1477	1337
Px300304WRF	1838	1173	1050	1454	1285	615	1175	1448	1255

[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 three locations in the Delta region, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px49907W3RF	5483	**2453**	0.46	1.13	4.73	32.16	84.64	7.69	5.35	8.75
NG 1511 B2RF	5268	**2439**	0.45	1.15	4.98	32.20	83.94	7.66	5.85	9.81
DP 1133 B2RF	5562	**2429**	0.45	1.16	4.96	33.43	85.11	7.55	5.88	9.16
Px444413WRF	5434	**2384**	0.45	1.21	4.31	31.18	85.35	6.98	6.13	17.92
BX 1531GLT	5261	**2376**	0.47	1.17	4.83	30.31	84.18	7.08	5.93	9.48
PHY 333 WRF	5230	**2371**	0.45	1.18	4.68	29.88	84.64	6.95	5.78	9.92
PHY 499WRF	5438	**2370**	0.46	1.13	4.98	32.97	84.36	7.63	5.76	9.33
Px554063WRF	5343	**2365**	0.46	1.18	4.50	32.38	85.33	6.88	5.27	8.88
DP 1321 B2RF	5476	**2334**	0.44	1.15	4.99	32.43	84.69	8.41	5.75	9.84
Dyna-Gro 2285B	5251	**2329**	0.44	1.16	4.71	30.91	83.97	8.09	5.79	9.75
Px37520W3RF	5371	**2316**	0.45	1.12	4.69	28.62	83.87	6.93	5.58	9.75
PHY 495 W3RF	5261	**2295**	0.45	1.13	4.83	33.54	84.84	7.53	5.95	9.82
Px554010WRF	5195	**2293**	0.46	1.17	4.56	32.20	84.71	6.81	5.09	9.09
CROPLAN 3787 B2RF	5041	**2290**	0.45	1.15	4.93	31.53	84.48	7.76	5.83	9.61
DP 0912 B2RF	5402	**2270**	0.44	1.13	5.06	31.34	84.62	7.48	5.98	9.88
MON 12R224B2RF	5259	**2267**	0.45	1.14	4.66	30.11	84.18	7.32	5.68	9.59
Px3122b51WRF	5307	**2259**	0.44	1.18	4.82	32.07	85.05	7.05	6.12	10.19
Px49936W3RF	5080	**2259**	0.46	1.12	4.87	32.94	84.39	7.70	5.56	9.06
BX 1530GLT	4680	**2238**	0.47	1.16	4.85	30.37	84.67	6.93	5.81	9.93
Px300310WRF	5317	**2236**	0.44	1.15	4.72	31.93	84.39	7.32	5.66	9.93
DP 1311 B2RF	5062	**2215**	0.45	1.15	4.88	30.82	84.53	7.46	5.57	9.46
ST 4946GLB2	5286	**2215**	0.43	1.16	4.90	32.09	84.63	6.98	6.07	10.47
Px37508W3RF	5166	**2212**	0.45	1.15	4.62	30.97	84.65	6.68	5.60	10.11
Px554057WRF	4924	**2209**	0.44	1.17	4.83	31.60	85.16	7.48	5.81	9.67
PHY 427 WRF	5291	**2193**	0.43	1.16	4.77	32.38	84.23	7.59	5.30	9.50
UA 222	4993	**2192**	0.43	1.19	4.78	32.43	85.03	7.58	6.24	10.24
Px300304WRF	5266	**2188**	0.43	1.16	4.74	32.03	84.45	6.17	5.82	10.11
BX 1532GLT	4597	**2184**	0.48	1.17	4.76	30.20	84.53	6.93	5.58	9.58
BX 1534GLT	5189	**2169**	0.43	1.15	4.74	32.67	84.13	6.73	6.07	10.13
BX 1533GLT	4867	**2165**	0.44	1.22	4.58	33.13	85.07	7.25	5.46	9.71
ST 5032GLT	5199	**2163**	0.43	1.17	4.49	32.13	84.28	6.99	6.18	9.93
ST 4747GLB2	5103	**2154**	0.44	1.19	4.65	29.39	84.18	5.85	5.83	9.89
Dyno-Gro CT145	5077	**2131**	0.44	1.19	4.75	33.13	84.49	7.24	6.02	10.19
DP 1048 B2RF	4849	2116	0.45	1.17	4.73	31.46	84.78	7.84	5.56	9.28
PHY 339 WRF	4975	2104	0.44	1.18	4.63	31.83	84.66	7.23	5.55	9.73
Px300314WRF	5061	2100	0.43	1.15	4.79	31.63	84.09	6.40	5.70	9.63
ST 5288B2F	4985	2087	0.44	1.15	4.85	30.48	83.84	7.87	5.58	9.50
DP 1034 B2RF	4893	2084	0.44	1.17	4.73	31.98	84.45	8.17	5.95	9.64
DP 1137 B2RF	4850	2065	0.44	1.17	4.76	31.18	85.02	7.82	5.74	9.80
DP 1044 B2RF	4936	2049	0.43	1.14	4.71	31.64	84.00	8.48	5.42	9.58
BX 1536GLT	4765	2040	0.45	1.16	4.56	33.13	84.26	5.94	5.47	9.72
ST 6448GLB2	4768	2036	0.44	1.19	4.79	29.63	84.64	6.13	5.46	9.48
ST 5289GLT	4749	1987	0.44	1.14	4.91	29.76	83.57	6.20	5.95	9.67
Dyna-Gro 2355B	4854	1930	0.41	1.16	4.66	33.49	84.25	7.24	5.92	10.15
HQ210CT	4683	1888	0.42	1.14	5.02	32.98	84.23	6.80	5.86	9.56
BRS-335	4673	1885	0.42	1.16	4.73	32.38	84.48	6.81	6.13	10.23
BX 1535GLT	4609	1883	0.43	1.21	4.60	32.56	84.83	5.47	5.97	10.18
BRS-286	4609	1871	0.42	1.16	4.92	32.74	84.70	6.31	5.86	10.18
HQ110CT	4458	1816	0.42	1.17	4.68	31.97	84.36	6.92	5.32	9.51
BRS-293	4141	1695	0.43	1.14	4.98	33.99	84.63	6.95	5.99	9.97
Overall Mean	**5051**	**2171**	**0.44**	**1.16**	**4.76**	**31.77**	**84.51**	**7.14**	**5.75**	**9.88**
LSD (0.05)	**864**	**332**	**0.01**	**0.27**	**0.19**	**1.36**	**0.93**	**0.68**	**0.43**	**3.08**
C.V. (%)	**21.33**	**18.88**	**3.5**	**2.89**	**4.88**	**5.35**	**1.37**	**11.88**	**9.46**	**38.12**

[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).
Tunica location not included in across-Delta analysis.

Table 6. One-year mean yield performance of varieties cultivated at four locations in the Hill region, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px444413WRF	3369	**1560**	0.47	1.21	4.27	31.69	85.85	7.17	5.22	9.85
MON 12R224B2RF	3547	**1543**	0.43	1.13	4.32	30.31	84.66	7.15	5.41	9.12
PHY 339 WRF	3480	**1533**	0.44	1.14	4.35	31.39	84.61	7.68	5.18	8.82
Px3122b51WRF	3428	**1522**	0.44	1.16	4.33	30.94	85.63	7.59	5.14	9.36
PHY 499WRF	3265	**1479**	0.45	1.11	4.79	33.26	84.63	8.69	5.18	9.16
DP 0912 B2RF	3368	**1470**	0.43	1.07	4.91	30.06	84.14	7.46	5.06	9.21
PHY 333 WRF	3203	**1446**	0.45	1.15	4.24	30.30	84.93	7.09	4.97	9.07
BX 1531GLT	3122	**1442**	0.46	1.12	4.67	29.19	84.05	7.02	5.03	8.82
Px49936W3RF	3117	**1430**	0.46	1.10	4.49	32.92	84.71	8.14	5.07	8.64
Px37508W3RF	3237	**1424**	0.44	1.12	4.23	29.37	83.98	7.21	5.20	9.62
Dyna-Gro 2285B	3198	**1408**	0.44	1.13	4.37	29.52	84.11	8.35	5.21	8.44
DP 1133 B2RF	3117	**1406**	0.45	1.13	4.77	33.31	84.97	7.74	5.28	8.79
UA 222	3328	**1404**	0.42	1.20	4.50	33.05	85.28	8.80	5.72	9.70
NG 1511 B2RF	3060	**1404**	0.46	1.09	4.69	31.41	83.19	8.96	5.04	8.84
Px49907W3RF	3024	**1401**	0.46	1.10	4.52	31.85	83.83	8.31	4.83	8.14
Px37520W3RF	3170	**1400**	0.44	1.10	4.08	27.63	83.29	7.81	4.87	8.64
DP 1048 B2RF	3164	**1398**	0.44	1.14	4.46	30.19	84.61	8.56	5.16	8.94
CROPLAN 3787 B2RF	3058	**1371**	0.45	1.13	4.56	30.91	84.14	8.98	4.94	8.66
PHY 495 W3RF	2988	**1364**	0.46	1.09	4.57	33.41	84.75	8.16	4.80	8.79
ST 4747GLB2	3129	**1362**	0.44	1.17	4.35	27.47	84.13	5.96	4.89	9.21
Px554057WRF	3108	**1359**	0.44	1.17	4.33	31.02	85.05	7.33	4.95	8.97
ST 6448GLB2	3112	**1341**	0.43	1.18	4.53	28.90	84.46	6.56	5.00	8.88
DP 1137 B2RF	2985	**1339**	0.45	1.13	4.66	29.90	84.49	8.63	5.37	9.15
ST 4946GLB2	3094	**1339**	0.43	1.13	4.60	32.56	84.37	7.94	5.51	9.73
DP 1321 B2RF	3032	**1338**	0.44	1.10	4.64	31.71	84.31	9.14	5.11	9.08
BX 1530GLT	2911	**1338**	0.46	1.13	4.62	29.50	84.34	7.43	5.13	8.73
DP 1044 B2RF	3083	**1337**	0.44	1.09	4.47	30.91	84.26	8.91	4.79	8.68
ST 5032GLT	3045	**1317**	0.43	1.17	4.12	30.70	84.48	7.71	5.17	9.71
BX 1533GLT	3017	**1306**	0.43	1.15	4.35	31.79	84.00	7.72	4.46	8.42
BX 1534GLT	2975	**1286**	0.43	1.14	4.06	31.84	84.10	6.95	5.71	9.84
DP 1034 B2RF	2844	**1283**	0.45	1.13	4.53	30.31	84.01	8.93	4.99	8.65
Px554063WRF	2836	**1266**	0.45	1.15	4.24	31.45	85.46	7.08	4.45	8.55
PHY 427 WRF	2934	**1266**	0.43	1.12	4.44	31.79	84.78	8.49	4.71	8.99
Px300310WRF	2905	**1266**	0.44	1.08	4.53	30.61	83.48	8.40	4.59	8.89
DP 1311 B2RF	2686	1221	0.45	1.11	4.78	30.02	84.66	8.66	4.88	8.25
Dyna-Gro 2355B	2910	1219	0.42	1.12	4.62	31.89	84.16	8.13	5.09	9.65
Px300314WRF	2825	1218	0.43	1.11	4.62	30.78	84.09	7.45	5.16	8.62
ST 5289GLT	2833	1213	0.43	1.12	4.39	28.95	84.01	6.88	4.84	8.76
Px554010WRF	2735	1212	0.45	1.12	4.26	29.94	84.63	7.93	4.72	8.26
HQ210CT	2886	1204	0.42	1.10	4.66	30.03	83.41	7.58	4.52	8.87
ST 5288B2F	2819	1199	0.42	1.10	4.52	28.61	83.61	7.89	4.61	8.53
Dyno-Gro CT145	2729	1188	0.44	1.15	4.70	32.84	84.45	7.89	6.15	9.94
BX 1532GLT	2580	1185	0.46	1.12	4.41	29.08	83.98	7.43	4.73	8.06
Px300304WRF	2751	1172	0.43	1.11	4.35	30.70	83.98	6.71	4.53	9.05
BX 1535GLT	2744	1156	0.42	1.18	4.05	31.59	84.90	5.65	4.91	9.61
BX 1536GLT	2617	1148	0.44	1.11	4.11	31.83	84.09	6.52	4.45	8.95
HQ110CT	2656	1108	0.42	1.14	4.36	31.03	84.00	7.16	4.41	9.00
BRS-286	2672	1087	0.41	1.13	4.52	32.69	84.17	6.44	4.76	9.56
BRS-335	2515	995	0.40	1.16	4.48	31.41	84.43	6.60	4.71	9.58
BRS-293	2339	954	0.41	1.15	4.69	34.68	84.54	7.39	5.74	9.83
Overall Mean	**3013**	**1325**	**0.44**	**1.13**	**4.45**	**30.9**	**84.35**	**7.71**	**5.02**	**9.01**
LSD (0.05)	**701**	**306**	**0.01**	**0.03**	**0.26**	**1.29**	**0.8**	**0.56**	**1**	**0.81**
C.V. (%)	**30.66**	**30.54**	**3.71**	**3.47**	**7.78**	**5.5**	**1.25**	**9.49**	**26.36**	**11.95**

[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).

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, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
PHY 499WRF	5608	**2416**	0.45	1.14	5.03	31.68	85.40	8.13	5.95	9.68
Px554063WRF	5371	**2342**	0.46	1.17	4.63	31.18	85.90	7.65	5.58	8.63
BX 1531GLT	5465	**2336**	0.45	1.16	4.88	29.63	84.23	7.20	6.18	9.70
DP 1133 B2RF	5342	**2268**	0.45	1.16	5.05	32.68	86.18	7.70	5.90	9.13
Px49936W3RF	5105	**2213**	0.46	1.13	4.75	31.58	84.80	8.03	5.63	9.15
PHY 495 W3RF	5243	**2204**	0.44	1.18	4.85	32.60	86.03	7.55	6.13	10.53
Px300314WRF	5440	**2193**	0.42	1.17	4.75	31.28	84.93	6.40	5.53	9.88
Px49907W3RF	5154	**2192**	0.45	1.13	4.68	31.28	85.30	8.25	5.45	8.95
NG 1511 B2RF	4253	**2160**	0.43	1.16	4.85	30.88	84.55	7.33	5.85	10.23
Dyno-Gro CT145	5144	**2146**	0.44	1.17	4.80	32.00	85.28	7.48	6.10	10.23
Px554010WRF	5061	**2120**	0.44	1.18	4.58	31.10	85.28	7.25	5.40	9.00
PHY 333 WRF	5139	**2120**	0.43	1.18	4.60	28.83	84.50	7.25	5.78	10.28
Px37520W3RF	5090	**2111**	0.44	1.14	4.65	27.25	85.00	7.58	5.73	9.98
Px444413WRF	5184	**2098**	0.43	1.20	4.38	29.95	85.40	7.45	6.53	9.98
DP 1321 B2RF	5002	**2039**	0.43	1.14	4.95	31.58	85.03	8.20	5.88	10.18
Px37508W3RF	5006	**2035**	0.43	1.15	4.75	29.73	85.28	7.08	5.78	10.18
DP 0912 B2RF	4937	**1990**	0.43	1.14	4.88	29.83	85.75	7.58	6.10	10.38
MON 12R224B2RF	4676	**1988**	0.45	1.15	4.75	30.08	85.80	8.20	5.98	9.55
DP 1311 B2RF	4790	**1985**	0.44	1.18	4.85	30.00	85.90	7.60	5.68	9.95
ST 5288B2F	4883	**1984**	0.43	1.16	4.68	29.90	84.95	8.38	5.18	9.70
BRS-286	4903	**1981**	0.43	1.19	4.90	30.65	86.05	6.75	5.90	9.88
CROPLAN 3787 B2RF	4149	**1975**	0.43	1.15	4.98	31.13	85.10	7.25	5.80	9.60
BX 1532GLT	4322	**1961**	0.48	1.16	4.68	29.55	85.80	7.33	5.85	9.78
ST 4747GLB2	4735	**1960**	0.44	1.17	4.70	29.03	85.25	7.15	5.90	9.90
Px300310WRF	4804	**1951**	0.43	1.16	4.68	31.13	85.90	7.53	5.98	10.20
Px3122b51WRF	4888	**1948**	0.42	1.17	4.80	31.55	85.98	7.70	6.25	10.05
PHY 427 WRF	4923	1936	0.41	1.16	4.83	32.03	86.10	7.80	5.45	9.85
BX 1536GLT	4760	1930	0.43	1.19	4.68	31.90	85.38	6.38	6.13	9.90
DP 1044 B2RF	4662	1908	0.43	1.15	4.83	30.08	85.23	8.43	5.38	10.13
Px300304WRF	4622	1899	0.43	1.16	4.73	31.15	85.00	6.93	6.15	10.30
BX 1533GLT	3932	1888	0.44	1.20	4.50	32.05	85.88	7.80	5.73	9.85
PHY 339 WRF	4588	1883	0.43	1.20	4.43	30.60	85.23	7.58	5.88	9.60
Dyna-Gro 2285B	4612	1876	0.43	1.18	4.75	30.53	84.98	8.03	5.85	10.00
BX 1530GLT	3829	1857	0.45	1.16	4.80	29.68	86.13	7.03	5.90	10.15
ST 5032GLT	4637	1841	0.42	1.17	4.55	31.93	85.53	7.15	6.73	10.30
Px554057WRF	4440	1837	0.44	1.17	4.88	29.10	85.13	8.45	5.70	9.63
UA 222	4479	1819	0.43	1.18	5.00	31.20	85.80	7.63	6.50	10.38
ST 5289GLT	4459	1793	0.42	1.16	4.98	29.23	84.33	6.43	6.18	10.08
BX 1534GLT	4390	1782	0.43	1.15	4.93	30.83	84.80	7.13	6.10	10.00
DP 1034 B2RF	4376	1779	0.43	1.17	4.98	32.15	85.93	8.45	5.95	10.05
ST 4946GLB2	4346	1755	0.43	1.19	4.90	30.88	85.70	6.93	6.08	11.25
BRS-335	4405	1739	0.42	1.17	4.88	30.90	85.53	7.43	6.30	10.43
HQ110CT	4395	1725	0.41	1.17	4.48	30.90	84.43	7.03	5.25	9.60
DP 1048 B2RF	4026	1687	0.44	1.19	4.70	31.38	85.68	7.53	5.63	9.18
DP 1137 B2RF	3996	1683	0.44	1.16	4.85	30.13	85.38	8.93	5.68	9.95
BRS-293	4154	1679	0.43	1.13	4.95	32.33	85.75	7.35	6.23	10.08
HQ210CT	4297	1676	0.41	1.15	4.83	33.30	85.30	7.23	6.00	9.80
BX 1535GLT	4110	1652	0.43	1.19	4.60	30.98	86.05	6.48	5.95	10.20
Dyna-Gro 2355B	3903	1510	0.41	1.15	4.68	32.38	84.80	7.03	6.30	10.28
ST 6448GLB2	3710	1510	0.43	1.18	4.78	28.98	84.98	7.13	5.53	9.55
Overall Mean	**4675**	**1947**	**0.43**	**1.16**	**4.76**	**30.81**	**85.37**	**7.48**	**5.88**	**9.90**
LSD (0.05)	**1228**	**477**	**0.02**	**0.05**	**0.36**	**2.23**	**1.38**	**1.25**	**0.75**	**1.97**
C.V. (%)	**18.79**	**17.32**	**3.7**	**3.08**	**5.44**	**5.17**	**1.15**	**12.02**	**9.22**	**6.61**

[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).
Trial Facilitator: Bobby Golden

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, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px49907W3RF	5277	**2504**	0.47	1.13	4.73	32.48	84.25	7.35	5.55	8.65
DP 1133 B2RF	4923	**2295**	0.47	1.16	4.93	32.73	84.28	7.73	6.50	8.93
Px37520W3RF	4849	**2263**	0.47	1.11	4.90	29.48	83.00	6.70	5.83	9.63
PHY 333 WRF	4243	**2236**	0.47	1.16	4.70	29.80	84.10	7.00	5.98	9.80
Px444413WRF	4652	2218	0.48	1.20	4.13	31.70	85.00	7.00	5.93	10.13
Dyna-Gro 2285B	4341	2198	0.45	1.14	4.55	31.18	83.05	8.53	6.10	9.18
DP 0912 B2RF	4903	2191	0.45	1.11	5.03	31.70	83.78	7.55	6.08	9.40
ST 6448GLB2	4770	2172	0.46	1.18	4.80	29.58	84.33	5.80	5.73	8.95
DP 1321 B2RF	4745	2146	0.45	1.13	4.98	32.65	83.75	8.83	5.53	9.58
DP 1311 B2RF	4528	2126	0.47	1.14	4.85	30.83	83.68	7.20	5.73	8.83
BX 1530GLT	4395	2124	0.48	1.14	4.93	29.90	83.13	7.10	5.98	9.55
Px300304WRF	4839	2116	0.44	1.15	4.58	32.13	84.28	6.20	5.60	9.80
BX 1531GLT	4386	2111	0.48	1.18	4.78	30.80	83.98	6.88	5.78	9.43
MON 12R224B2RF	4696	2106	0.45	1.13	4.53	29.60	83.00	6.90	5.55	9.70
Px300310WRF	4711	2102	0.45	1.14	4.73	32.53	83.25	7.35	5.53	9.78
NG 1511 B2RF	4519	2099	0.46	1.12	5.08	33.00	83.18	7.78	5.58	9.43
Px554057WRF	3922	2097	0.46	1.14	4.83	32.30	84.68	7.25	5.93	9.58
ST 4946GLB2	4730	2083	0.44	1.12	4.83	32.58	83.50	7.70	5.85	9.90
Px3122b51WRF	4519	2083	0.46	1.16	4.73	31.85	83.75	6.55	6.25	10.03
BX 1534GLT	4701	2074	0.44	1.14	4.48	32.45	83.20	6.88	6.08	10.50
PHY 499WRF	4854	2073	0.47	1.11	5.05	31.93	83.65	7.53	6.08	9.13
ST 5032GLT	4701	2072	0.44	1.16	4.40	32.55	83.75	7.03	5.85	9.95
CROPLAN 3787 B2RF	4430	2048	0.46	1.14	5.00	31.48	83.93	8.30	6.20	9.23
UA 222	4055	2034	0.44	1.18	4.68	33.15	84.40	7.30	6.03	10.10
Px554010WRF	4322	2029	0.47	1.16	4.63	32.40	84.08	6.65	5.05	8.63
Px554063WRF	4312	2005	0.46	1.18	4.55	32.78	84.85	6.28	5.33	8.68
Px37508W3RF	4346	2002	0.46	1.13	4.68	31.28	84.50	7.05	5.60	10.13
Px49936W3RF	4371	1999	0.46	1.11	4.95	33.48	84.03	7.80	5.90	9.18
PHY 495 W3RF	4292	1995	0.46	1.10	4.80	33.58	83.58	8.18	6.13	9.10
DP 1048 B2RF	4341	1985	0.46	1.14	4.88	30.48	83.95	8.38	5.98	9.43
ST 4747GLB2	4455	1962	0.44	1.20	4.58	30.55	84.15	5.28	6.05	10.30
PHY 339 WRF	4336	1954	0.45	1.14	4.78	32.48	84.23	7.53	5.38	9.63
BX 1532GLT	3770	1950	0.48	1.16	4.78	30.63	84.05	6.85	5.35	9.53
Dyno-Gro CT145	4400	1927	0.44	1.19	4.63	33.70	83.68	7.18	6.15	9.78
BX 1533GLT	4381	1926	0.44	1.21	4.65	33.23	84.00	7.15	5.20	9.30
DP 1034 B2RF	4169	1911	0.46	1.15	4.65	30.90	82.98	8.68	6.10	9.48
PHY 427 WRF	4218	1876	0.44	1.16	4.80	32.78	82.48	7.70	5.13	9.15
Dyna-Gro 2355B	4445	1875	0.42	1.14	4.60	32.65	83.43	7.68	5.68	10.00
DP 1137 B2RF	4213	1835	0.44	1.16	4.73	31.15	84.38	7.13	6.05	9.90
BX 1536GLT	3957	1810	0.46	1.14	4.43	33.60	83.60	5.73	5.08	9.50
BX 1535GLT	3977	1743	0.44	1.18	4.65	32.88	83.88	5.23	5.93	10.38
ST 5288B2F	3927	1741	0.44	1.12	4.85	30.30	83.28	7.93	5.88	8.88
ST 5289GLT	3863	1734	0.45	1.11	4.88	29.48	82.85	6.18	6.05	9.18
DP 1044 B2RF	3893	1697	0.44	1.13	4.65	31.55	82.80	8.43	5.40	9.40
HQ210CT	3962	1653	0.42	1.12	5.08	31.60	83.33	6.63	5.98	9.48
Px300314WRF	3696	1628	0.44	1.13	4.73	31.53	83.83	6.50	5.85	9.33
HQ110CT	3745	1618	0.43	1.14	4.70	31.85	83.63	7.58	5.48	9.23
BRS-335	3804	1608	0.42	1.14	4.68	31.85	83.30	6.58	5.98	10.10
BRS-286	3592	1553	0.43	1.11	4.98	31.95	83.18	6.35	5.78	10.25
BRS-293	3474	1492	0.43	1.13	4.93	34.08	83.70	7.15	5.90	9.58
Overall Mean	**4339**	**1978**	**0.45**	**1.14**	**4.74**	**31.82**	**83.73**	**7.16**	**5.79**	**9.53**
LSD (0.05)	**749**	**278**	**0.01**	**0.035**	**0.28**	**1.85**	**1.17**	**0.79**	**0.76**	**0.83**
C.V. (%)	**12.35**	**9.84**	**2.15**	**2.22**	**4.23**	**4.17**	**0.99**	**7.88**	**9.36**	**6.20**

[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).
Trial Facilitator: Bobby Golden

Table 9. Mean yield performance and fiber characteristics for cotton varieties cultivated on a nonirrigated Brooksville silty clay at the Black Belt Branch Experiment Station in Noxubee County, Mississippi, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px444413WRF	2543	**1213**	0.48	1.17	4.30	31.35	85.20	6.48	5.03	8.98
DP 1311 B2RF	2555	**1164**	0.45	1.07	4.83	28.43	83.43	8.25	4.05	7.20
BX 1531GLT	2385	**1127**	0.47	1.13	4.73	28.93	83.80	7.08	4.98	8.85
DP 0912 B2RF	2511	**1103**	0.44	1.05	4.95	29.50	83.48	7.55	5.10	8.05
DP 1048 B2RF	2427	**1086**	0.44	1.14	4.33	30.60	84.23	8.35	5.15	8.20
DP 1137 B2RF	2375	**1056**	0.45	1.13	4.53	29.73	84.85	7.90	4.95	8.83
ST 4747GLB2	2378	**1053**	0.44	1.15	4.43	25.98	82.93	6.48	4.45	8.48
PHY 495 W3RF	2215	**1032**	0.46	1.07	4.45	31.78	84.63	7.70	4.03	8.05
MON 12R224B2RF	2338	**1010**	0.43	1.12	4.10	28.85	83.40	6.88	4.55	8.10
Dyno-Gro CT145	2267	**1007**	0.45	1.09	4.60	31.40	83.47	8.20	4.30	9.17
DP 1133 B2RF	2134	**994**	0.47	1.12	4.75	33.10	84.50	7.25	4.50	8.23
ST 4946GLB2	1818	**991**	0.44	1.10	4.38	31.90	83.93	8.13	4.15	8.83
CROPLAN 3787 B2RF	2141	**985**	0.46	1.12	4.45	30.20	84.00	9.15	4.05	8.08
ST 6448GLB2	2188	**979**	0.44	1.14	4.70	26.68	83.38	6.85	5.38	8.45
NG 1511 B2RF	2109	**976**	0.46	1.08	4.50	30.40	82.85	8.83	3.80	8.30
PHY 339 WRF	2156	**972**	0.45	1.10	4.18	29.65	83.03	7.80	3.95	8.45
Px37508W3RF	2158	**958**	0.44	1.09	4.15	28.20	83.40	7.28	4.35	8.93
DP 1034 B2RF	2006	**916**	0.46	1.10	4.40	28.95	83.40	8.28	4.45	8.08
BX 1533GLT	2111	**908**	0.43	1.13	4.48	30.28	83.63	7.45	4.60	8.48
Px49907W3RF	1927	**901**	0.47	1.08	4.50	31.18	84.00	8.40	5.20	8.00
DP 1044 B2RF	2010	**887**	0.44	1.07	4.20	29.25	83.75	8.25	4.50	7.55
ST 5032GLT	2040	**881**	0.43	1.15	3.85	30.58	84.20	7.23	4.25	8.83
PHY 499WRF	1897	**875**	0.45	1.08	4.40	32.08	83.35	8.30	5.20	7.95
Px554063WRF	1914	**873**	0.46	1.11	4.25	29.60	83.85	6.75	4.08	8.30
ST 5289GLT	2013	**871**	0.43	1.08	4.35	26.83	83.73	6.98	4.23	7.95
Px3122b51WRF	1934	**871**	0.45	1.11	4.13	28.08	85.00	7.68	5.08	8.35
DP 1321 B2RF	1890	**858**	0.45	1.08	4.30	31.03	84.00	8.53	3.95	8.13
BX 1530GLT	1840	**855**	0.46	1.12	4.68	28.58	83.63	7.15	5.35	8.10
Dyna-Gro 2355B	2010	**855**	0.42	1.07	4.65	30.18	83.60	7.63	4.55	9.13
Dyna-Gro 2285B	1877	**841**	0.44	1.11	4.13	27.38	83.80	7.93	4.13	8.30
Px554057WRF	1823	**823**	0.44	1.11	4.10	28.15	83.10	7.20	4.58	8.05
BX 1534GLT	1818	798	0.44	1.13	3.73	30.90	83.40	6.38	4.45	9.13
BX 1535GLT	1821	772	0.42	1.17	4.03	29.88	84.15	5.60	4.55	9.38
Px49936W3RF	1651	750	0.46	1.08	4.23	31.55	84.80	7.78	4.18	8.43
UA 222	1752	743	0.42	1.20	4.35	34.20	84.38	7.95	4.28	9.20
Px554010WRF	1626	734	0.45	1.06	4.25	27.80	83.58	7.60	4.00	7.58
PHY 333 WRF	1574	727	0.46	1.10	4.05	27.48	84.15	7.00	3.45	8.35
HQ210CT	1695	714	0.42	1.07	4.60	29.05	82.60	7.43	3.63	8.10
Px300314WRF	1638	713	0.43	1.09	4.60	28.75	83.10	7.55	4.00	8.03
BX 1536GLT	1545	682	0.44	1.08	4.08	30.83	84.20	6.70	4.08	8.58
BX 1532GLT	1468	664	0.45	1.11	4.40	28.10	83.40	7.55	4.63	7.93
Px37520W3RF	1500	658	0.44	1.08	3.60	25.75	82.35	7.95	3.65	7.45
HQ110CT	1535	636	0.41	1.12	4.33	30.03	83.58	7.00	4.13	8.53
BRS-335	1523	615	0.40	1.14	4.43	31.38	84.70	6.43	4.13	9.00
Px300304WRF	1442	615	0.43	1.08	4.33	28.00	83.43	6.68	3.63	8.55
BRS-286	1446	589	0.41	1.12	4.30	32.93	84.08	6.15	3.93	8.58
Px300310WRF	1247	550	0.44	1.05	4.18	28.00	83.13	8.63	4.08	8.38
ST 5288B2F	1276	532	0.42	1.03	4.10	26.05	82.00	8.50	3.65	7.38
BRS-293	1261	520	0.41	1.14	4.48	34.83	84.70	6.65	4.05	8.75
PHY 427 WRF	1170	510	0.43	1.09	4.18	30.25	84.00	8.28	3.93	8.38
Overall Mean	**1898**	**847**	**0.44**	**1.1**	**4.33**	**29.68**	**83.75**	**7.51**	**4.34**	**8.35**
LSD (0.05)	**898**	**410**	**0.015**	**0.046**	**0.48**	**1.86**	**1.24**	**0.86**	**1.29**	**0.88**
C.V. (%)	**33.76**	**34.39**	**2.48**	**3.03**	**7.9**	**4.45**	**1.06**	**8.22**	**21.21**	**7.55**

[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).
Trial Facilitator: Darrin Dodds

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, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
UA 222	4209	**1911**	0.43	1.20	4.97	32.17	86.23	9.00	8.00	10.30
Px554063WRF	3728	**1825**	0.46	1.15	4.60	32.50	87.30	7.10	4.50	9.20
BX 1534GLT	3884	**1796**	0.44	1.11	4.65	33.05	84.85	6.95	9.10	10.25
Px49936W3RF	3699	**1791**	0.46	1.12	4.85	33.45	84.85	8.30	7.75	9.85
PHY 427 WRF	3830	**1768**	0.44	1.12	4.90	32.08	85.60	8.78	5.95	10.50
PHY 499WRF	3707	**1768**	0.45	1.13	5.05	33.33	85.95	8.68	5.48	10.40
Px3122b51WRF	3784	**1757**	0.44	1.19	4.78	30.20	85.75	7.68	5.53	10.73
PHY 333 WRF	3669	**1751**	0.45	1.17	4.55	30.85	86.10	7.78	6.35	9.80
Px444413WRF	3498	**1731**	0.47	1.22	4.43	31.37	86.30	7.20	4.80	11.53
Px300310WRF	3666	**1720**	0.44	1.09	5.07	32.03	84.30	8.43	5.57	9.50
PHY 339 WRF	3718	**1713**	0.44	1.17	4.50	32.37	85.93	7.30	7.70	9.70
ST 4747GLB2	3791	**1695**	0.42	1.18	4.57	28.07	84.90	5.70	6.13	10.47
Px554057WRF	3570	**1651**	0.44	1.19	4.47	31.60	85.70	6.80	5.50	9.90
DP 0912 B2RF	3599	**1641**	0.43	1.09	5.13	30.60	84.27	7.53	5.83	10.47
Px37520W3RF	3464	**1581**	0.43	1.11	4.45	28.20	84.28	7.43	6.73	10.05
ST 5288B2F	3426	**1563**	0.43	1.12	4.93	29.33	84.23	8.03	5.03	9.67
Px37508W3RF	3334	**1549**	0.44	1.15	4.53	30.35	84.78	7.28	6.80	10.43
BX 1536GLT	3328	1513	0.43	1.13	4.60	31.70	84.10	6.00	6.20	10.50
DP 1044 B2RF	3409	1512	0.42	1.11	4.65	31.75	84.80	8.70	5.90	9.90
HQ210CT	3156	1484	0.45	1.11	4.90	31.60	84.00	7.80	5.40	11.40
BRS-286	3350	1481	0.42	1.14	4.60	31.40	84.20	6.30	5.90	9.60
DP 1133 B2RF	3143	1472	0.44	1.14	4.87	33.03	85.97	7.57	6.90	9.77
BX 1535GLT	3298	1443	0.41	1.19	4.57	32.20	85.43	5.37	5.40	11.03
ST 4946GLB2	3158	1441	0.43	1.13	5.03	32.00	84.18	7.43	6.93	10.55
Dyna-Gro 2285B2RF	3133	1440	0.44	1.12	4.60	30.93	84.63	8.00	6.85	9.53
MON 12R224B2RF	3171	1412	0.42	1.13	4.75	31.40	85.90	7.05	8.60	10.50
ST 5289GLT	3088	1399	0.43	1.14	4.60	30.95	84.55	5.90	5.55	9.80
BX 1533GLT	3075	1387	0.43	1.19	4.70	31.60	85.30	7.90	5.10	9.10
ST 5032GLT	3060	1370	0.43	1.19	4.57	30.10	85.23	7.13	6.03	11.00
DP 1137 B2RF	2920	1358	0.44	1.15	4.83	29.30	84.83	9.93	7.07	10.27
Px300314WRF	2852	1320	0.44	1.10	4.97	31.33	84.87	7.17	7.03	10.13
DP 1321 B2RF	2924	1316	0.43	1.09	5.28	32.03	84.28	9.10	6.98	10.03
DP 1048 B2RF	2819	1283	0.43	1.14	4.48	30.30	84.30	8.20	5.20	9.90
ST 6448GLB2	2924	1276	0.41	1.22	4.40	29.90	85.20	5.80	4.90	10.10
BX 1531GLT	2559	1268	0.47	1.17	4.80	29.70	85.10	6.60	5.50	10.80
Px554010WRF	2558	1235	0.46	1.14	4.40	31.00	85.35	7.95	7.10	9.25
Dyno-Gro CT14515	2706	1219	0.43	1.17	4.93	32.80	84.70	7.38	8.13	11.30
PHY 495 W3RF	2534	1210	0.45	1.11	4.70	33.80	86.10	8.23	5.33	9.60
Dyna-Gro 2355B2RF	2662	1194	0.43	1.18	4.70	32.90	83.90	6.40	6.00	10.60
Px300304WRF	2630	1173	0.42	1.09	5.10	30.70	84.30	6.90	5.10	10.40
CROPLAN 3787 B2RF2RF	2539	1169	0.44	1.14	4.60	31.45	83.95	8.90	5.35	9.60
NG 1511 B2RF	2427	1167	0.46	1.08	5.15	31.15	82.45	9.05	7.50	9.75
HQ110CT	2677	1152	0.41	1.17	4.20	32.20	85.30	6.50	4.70	10.40
DP 1311 B2RF	2372	1139	0.46	1.12	4.90	29.10	84.80	9.20	8.50	11.60
BRS-293	2257	998	0.42	1.08	5.40	34.10	82.70	8.30	12.40	12.00
Overall Mean	**3265**	**1506**	**0.44**	**1.14**	**4.75**	**31.31**	**85**	**7.69**	**6.4**	**10.23**
LSD (0.05)	**792**	**381**	**0.02**	**0.055**	**0.44**	**2.13**	**1.92**	**1.5**	**2.65**	**1.43**
C.V. (%)	**11.91**	**14.42**	**2.38**	**2.37**	**4.6**	**3.35**	**1.11**	**9.57**	**20.33**	**6.88**

[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).
Some varieties are missing from analysis due to variability in plots and weakened stands.
Trial Facilitator: Mark Shankle

Table 11. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Marietta fine sandy loam at Mississippi State University near Starkville, Mississippi, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
Px444413WRF	4236	**1891**	0.45	1.25	4.18	30.30	85.50	7.43	5.68	10.83
MON 12R224B2RF	4445	**1886**	0.42	1.15	4.58	30.95	84.83	7.10	5.43	9.85
PHY 339 WRF	4437	**1876**	0.42	1.19	4.35	31.25	84.73	7.65	5.10	9.53
Px3122b51WRF	4074	**1722**	0.42	1.18	4.03	31.58	85.88	7.50	5.13	9.63
UA 222	4072	**1685**	0.41	1.21	4.30	32.55	85.48	9.50	5.45	9.75
Px49907W3RF	3646	**1637**	0.45	1.13	4.35	31.35	83.50	8.00	4.65	8.80
Dyna-Gro 2285B	3804	**1631**	0.43	1.17	4.38	29.45	83.28	8.10	5.13	9.65
BX 1530GLT	3505	**1630**	0.47	1.17	4.43	29.45	84.93	7.63	5.10	9.58
DP 0912 B2RF	3894	**1629**	0.42	1.10	4.85	29.35	84.03	7.13	4.93	9.85
Px49936W3RF	3646	**1629**	0.45	1.12	4.63	33.15	84.65	7.98	5.33	9.38
PHY 499WRF	3727	**1627**	0.44	1.15	4.80	33.03	84.75	8.65	5.10	9.88
Px554057WRF	3907	**1627**	0.42	1.19	4.33	30.78	84.88	7.73	5.05	9.50
HQ210CT	3967	**1624**	0.41	1.13	4.65	30.63	84.08	7.68	5.20	9.00
ST 6448GLB2	3917	1591	0.41	1.23	4.43	28.55	84.50	6.25	4.98	9.80
ST 4946GLB2	3799	1576	0.41	1.15	4.70	33.05	84.60	7.78	6.03	10.68
PHY 333 WRF	3691	1576	0.43	1.18	4.25	30.18	84.98	7.03	5.35	9.68
HQ110CT	3735	1569	0.42	1.17	4.43	31.75	84.10	7.48	4.63	9.13
CROPLAN 3787 B2RF	3638	1566	0.43	1.16	4.68	30.58	83.70	8.25	5.55	9.63
DP 1133 B2RF	3612	1560	0.43	1.17	4.83	32.85	84.95	7.63	5.50	9.78
DP 1044 B2RF	3808	1559	0.41	1.14	4.53	31.20	84.25	8.63	4.88	9.43
Px37520W3RF	3595	1539	0.43	1.13	4.15	27.65	83.23	8.05	4.88	9.50
BX 1531GLT	3350	1538	0.46	1.14	4.40	27.78	83.88	7.05	4.90	9.08
Px300310WRF	3603	1527	0.42	1.14	4.60	30.28	82.88	8.15	4.60	9.35
Px37508W3RF	3589	1522	0.42	1.12	4.25	28.60	84.13	7.18	5.13	10.38
Px300314WRF	3647	1521	0.42	1.16	4.65	31.20	83.78	6.88	5.55	9.08
BRS-286	3683	1487	0.40	1.14	4.73	32.78	84.25	6.78	5.30	10.53
Px554010WRF	3437	1483	0.43	1.18	4.05	30.50	84.85	7.95	4.58	9.20
BX 1533GLT	3511	1471	0.42	1.17	4.43	31.63	84.25	7.70	4.70	9.08
Px300304WRF	3512	1454	0.41	1.15	4.38	30.78	84.23	6.75	5.08	9.70
PHY 427 WRF	3487	1449	0.42	1.16	4.75	31.98	84.73	8.25	4.88	9.50
NG 1511 B2RF	3304	1448	0.44	1.11	4.68	30.98	83.45	8.68	5.20	9.35
BX 1534GLT	3444	1443	0.42	1.16	4.18	32.98	84.38	7.00	5.70	10.58
PHY 495 W3RF	3282	1438	0.44	1.12	4.58	34.03	83.98	7.63	5.10	9.25
DP 1321 B2RF	3350	1429	0.43	1.12	4.53	31.88	84.23	8.93	4.98	9.75
Dyna-Gro 2355B	3535	1428	0.41	1.17	4.65	32.38	84.45	8.40	5.48	10.60
DP 1034 B2RF	3329	1417	0.43	1.17	4.58	30.25	84.18	8.60	5.48	9.63
DP 1048 B2RF	3392	1412	0.42	1.18	4.30	29.53	84.85	8.53	5.30	9.45
Px554063WRF	3244	1388	0.43	1.20	4.00	31.08	86.33	7.15	4.75	9.25
BRS-293	3406	1378	0.40	1.17	4.73	34.68	84.85	7.90	5.78	10.38
BRS-335	3506	1375	0.39	1.18	4.53	31.45	84.15	6.78	5.30	10.15
ST 4747GLB2	3211	1372	0.43	1.16	4.18	27.28	84.28	5.80	4.23	9.33
ST 5288B2F	3337	1352	0.40	1.15	4.50	28.95	83.85	7.13	4.85	8.93
BX 1532GLT	2894	1340	0.46	1.15	4.25	28.75	84.15	7.10	4.80	8.85
Dyno-Gro CT145	3137	1339	0.43	1.18	4.60	33.00	84.13	7.90	6.08	10.28
DP 1137 B2RF	3109	1336	0.43	1.15	4.63	29.73	83.95	8.63	5.35	9.70
ST 5032GLT	3150	1295	0.41	1.18	4.10	29.85	83.98	7.73	5.58	10.33
DP 1311 B2RF	2903	1260	0.43	1.15	4.63	31.25	84.85	8.65	4.70	8.85
ST 5289GLT	3088	1258	0.41	1.16	4.35	28.50	84.15	6.93	5.10	9.30
BX 1536GLT	2889	1228	0.42	1.15	4.03	32.15	84.33	6.23	4.65	9.60
BX 1535GLT	2648	1062	0.40	1.22	3.85	31.35	85.18	5.98	5.10	9.38
Overall Mean	**3543**	**1501**	**0.42**	**1.16**	**4.43**	**30.9**	**84.38**	**7.62**	**5.14**	**9.63**
LSD (0.05)	**663**	**297**	**0.01**	**0.04**	**0.35**	**1.61**	**1.43**	**0.86**	**0.55**	**0.75**
C.V. (%)	**13.39**	**14.16**	**1.99**	**2.64**	**5.6**	**3.72**	**1.21**	**8.06**	**7.72**	**5.63**

[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).
Trial Facilitator: Ted Wallace

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, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
NG 1511 B2RF	6670	**2990**	0.45	1.16	5.03	32.73	84.10	7.88	6.13	9.78
Dyna-Gro 2285B2RF	6450	**2881**	0.45	1.17	4.83	31.03	83.88	7.73	5.43	10.08
Px444413WRF	6132	**2835**	0.46	1.22	4.43	31.90	85.65	6.50	5.93	10.48
DP 1321 B2RF	6338	**2818**	0.44	1.18	5.05	33.08	85.30	8.20	5.85	9.78
ST 4946GLB2	6431	**2807**	0.44	1.16	4.98	32.83	84.68	6.30	6.28	10.25
PHY 427 WRF	6384	**2768**	0.43	1.16	4.68	32.33	84.13	7.28	5.33	9.50
CROPLAN 3787 B2RF	6207	**2768**	0.45	1.18	4.80	32.00	84.43	7.73	5.50	10.00
Px554063WRF	6020	2749	0.46	1.21	4.33	33.20	85.23	6.73	4.90	9.33
Px3122b51WRF	6179	2745	0.44	1.22	4.93	32.80	85.43	6.90	5.85	10.50
Px554010WRF	5884	2731	0.46	1.17	4.48	33.10	84.78	6.53	4.83	9.65
PHY 333 WRF	5982	2724	0.46	1.20	4.75	31.00	85.33	6.60	5.58	9.68
DP 1133 B2RF	6090	2724	0.45	1.17	4.90	34.88	84.88	7.23	5.23	9.43
MON 12R224B2RF	6076	2707	0.45	1.15	4.70	30.65	83.75	6.85	5.53	9.53
PHY 495 W3RF	5926	2687	0.45	1.13	4.83	34.45	84.93	6.88	5.60	9.83
UA 222	6113	2685	0.44	1.21	4.68	32.93	84.90	7.80	6.20	10.25
BX 1531GLT	5627	2680	0.48	1.18	4.85	30.50	84.33	7.18	5.83	9.30
DP 1048 B2RF	5861	2676	0.46	1.18	4.63	32.53	84.73	7.63	5.08	9.25
DP 1137 B2RF	6015	2676	0.44	1.19	4.70	32.25	85.30	7.40	5.50	9.55
Px554057WRF	6081	2666	0.44	1.20	4.80	33.40	85.68	6.73	5.80	9.80
Px49907W3RF	5707	2662	0.47	1.14	4.80	32.73	84.38	7.48	5.05	8.65
Px300310WRF	6104	2654	0.43	1.15	4.75	32.15	84.03	7.08	5.48	9.83
BX 1534GLT	6141	2653	0.43	1.17	4.83	34.73	84.38	6.18	6.03	9.90
BX 1530GLT	5515	2639	0.48	1.19	4.83	31.53	84.75	6.68	5.55	10.08
DP 0912 B2RF	6039	2629	0.44	1.14	5.28	32.50	84.33	7.30	5.75	9.85
BX 1533GLT	5964	2612	0.44	1.24	4.58	34.13	85.33	6.80	5.45	9.98
Px37508W3RF	5828	2599	0.45	1.17	4.43	31.90	84.18	5.93	5.43	10.03
BX 1532GLT	5408	2582	0.48	1.18	4.83	30.43	83.73	6.63	5.53	9.43
Px37520W3RF	5856	2576	0.44	1.11	4.53	29.13	83.60	6.50	5.20	9.65
ST 5032GLT	5936	2576	0.43	1.17	4.53	31.90	83.58	6.80	5.95	9.55
Px49936W3RF	5468	2564	0.47	1.13	4.90	33.78	84.35	7.28	5.15	8.85
DP 1034 B2RF	5819	2563	0.44	1.19	4.58	32.90	84.45	7.38	5.80	9.40
Px300304WRF	6011	2549	0.42	1.18	4.93	32.80	84.08	5.38	5.70	10.23
PHY 499WRF	5552	2547	0.46	1.16	4.88	35.30	84.03	7.23	5.25	9.20
DP 1044 B2RF	5931	2542	0.43	1.16	4.65	33.30	83.98	8.58	5.48	9.20
ST 4747GLB2	5805	2541	0.44	1.21	4.68	28.60	83.15	5.13	5.55	9.48
ST 5288B2F	5828	2536	0.44	1.16	5.03	31.23	83.30	7.30	5.68	9.93
DP 1311 B2RF	5567	2534	0.45	1.14	4.95	31.63	84.00	7.58	5.30	9.60
Px300314WRF	5735	2480	0.43	1.16	4.90	32.10	83.53	6.30	5.73	9.68
PHY 339 WRF	5693	2473	0.43	1.19	4.70	32.40	84.53	6.58	5.40	9.95
ST 5289GLT	5618	2435	0.43	1.16	4.88	30.58	83.53	6.00	5.63	9.75
ST 6448GLB2	5524	2426	0.44	1.22	4.80	30.35	84.63	5.45	5.13	9.93
Dyna-Gro 2355B2RF	5894	2405	0.41	1.19	4.70	35.45	84.53	7.03	5.78	10.18
BX 1536GLT	5291	2381	0.45	1.17	4.58	33.88	83.80	5.73	5.20	9.75
HQ210CT	5492	2335	0.43	1.14	5.15	34.05	84.05	6.55	5.60	9.40
Dyno-Gro CT14515	5394	2322	0.43	1.20	4.83	33.70	84.53	7.08	5.80	10.58
BRS-335	5510	2309	0.42	1.17	4.65	34.38	84.60	6.43	6.13	10.15
BX 1535GLT	5445	2254	0.41	1.25	4.55	33.83	84.55	4.70	6.03	9.98
HQ110CT	4964	2106	0.42	1.20	4.88	33.15	85.03	6.15	5.23	9.70
BRS-286	5057	2079	0.41	1.18	4.88	35.63	84.88	5.83	5.90	10.43
BRS-293	4548	1986	0.42	1.16	5.05	35.58	84.43	6.35	5.85	10.25
Overall Mean	**5822**	**2580**	**0.44**	**1.17**	**4.77**	**32.66**	**84.43**	**6.78**	**5.58**	**9.76**
LSD (0.05)	**514**	**233**	**0.016**	**0.037**	**0.31**	**1.98**	**1.17**	**1.05**	**0.56**	**1.01**
C.V. (%)	**6.31**	**6.45**	**2.69**	**2.26**	**4.49**	**4.34**	**0.99**	**11**	**7.21**	**7.37**

[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).
Trial Facilitator: Bobby Golden

Table 13. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Sharkey clay on George Perry Farms near Tunica, Mississippi, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
ST 4946GLB2	3336	**1376**	0.41	1.21	4.68	32.53	86.13	8.98	6.11	11.58
Px3122b51WRF	3312	**1350**	0.41	1.26	4.10	31.78	87.73	9.08	5.81	12.15
Px37520W3RF	2971	**1218**	0.41	1.19	4.03	28.48	84.83	8.35	5.09	10.48
PHY 333 WRF	2882	**1212**	0.42	1.25	4.20	32.15	86.60	8.10	5.61	11.10
Px300304WRF	3014	**1165**	0.39	1.23	4.25	33.33	86.65	7.28	5.09	11.70
NG 1511 B2RF	2666	**1163**	0.44	1.18	4.93	32.83	86.17	10.33	5.47	10.67
Px554010WRF	2635	**1161**	0.44	1.21	4.15	32.65	86.58	8.48	4.55	9.33
PHY 427 WRF	2797	**1150**	0.41	1.21	4.28	32.13	86.10	9.73	5.38	10.25
Px300310WRF	2531	1057	0.42	1.21	4.68	32.80	85.70	9.53	4.81	10.68
DP 1321 B2RF	2495	1049	0.42	1.19	4.70	31.95	85.55	10.80	5.46	10.53
UA 222	2586	1037	0.40	1.26	4.38	32.70	86.28	10.70	5.85	11.30
Px37508W3RF	2573	1034	0.40	1.22	3.95	29.78	85.53	7.80	5.04	11.75
Px554063WRF	2380	1025	0.43	1.23	3.98	33.03	86.58	8.33	4.00	9.68
BX 1534GLT	2006	1015	0.42	1.22	4.28	34.63	85.68	8.60	6.23	12.20
Px300314WRF	2422	1011	0.42	1.18	4.48	33.05	85.70	8.35	5.09	10.25
Px49936W3RF	2255	1008	0.45	1.19	4.58	34.38	85.73	8.90	5.00	9.88
Dyna-Gro 2285B	2436	990	0.41	1.24	4.28	32.10	86.30	9.83	5.61	11.20
ST 5032GLT	2396	988	0.41	1.24	4.43	31.73	85.83	8.88	6.08	12.15
ST 5288B2F	2432	987	0.40	1.21	4.70	30.00	85.05	8.78	5.28	10.03
MON 12R224B2RF	2423	974	0.40	1.24	4.20	31.45	86.65	8.30	5.09	10.53
Px49907W3RF	2109	948	0.45	1.17	4.58	33.10	85.38	8.78	4.01	9.65
ST 5289GLT	2291	944	0.41	1.20	4.33	30.18	85.38	7.28	3.90	10.13
BX 1536GLT	2142	937	0.44	1.19	4.45	34.10	85.93	7.68	5.43	10.10
BX 1532GLT	2020	923	0.46	1.20	4.13	30.68	85.85	7.63	4.55	9.20
ST 6448GLB2	2284	916	0.40	1.26	4.23	31.00	86.80	7.15	4.61	9.93
DP 1044 B2RF	2212	897	0.41	1.20	4.65	32.60	85.75	9.98	4.94	10.30
PHY 339 WRF	2165	886	0.41	1.25	4.40	32.18	87.00	9.33	5.74	10.93
Px554057WRF	2138	870	0.41	1.26	4.13	31.48	86.65	8.10	5.28	10.45
DP 1133 B2RF	1996	869	0.43	1.21	4.60	33.45	86.45	10.08	5.31	9.75
Px444413WRF	2002	853	0.43	1.32	3.73	31.67	87.33	7.63	6.13	11.97
PHY 499WRF	1911	830	0.44	1.19	4.85	34.83	86.28	9.45	4.84	10.13
ST 4747GLB2	2007	823	0.41	1.25	4.38	30.93	86.05	6.33	5.48	10.75
CROPLAN 3787 B2RF	1854	809	0.44	1.20	4.60	31.58	85.75	9.93	5.53	9.85
DP 0912 B2RF	1891	770	0.41	1.17	5.00	31.65	84.78	9.05	4.54	10.75
DP 1137 B2RF	1821	766	0.42	1.21	4.50	30.88	85.33	9.23	4.73	10.33
BX 1531GLT	1680	751	0.45	1.19	4.48	30.95	85.55	8.43	4.51	10.08
DP 1311 B2RF	1696	709	0.42	1.21	4.10	31.53	86.30	9.48	4.43	9.63
PHY 495 W3RF	1594	701	0.44	1.17	4.58	35.33	85.63	8.68	5.01	10.33
DP 1048 B2RF	1569	663	0.42	1.23	4.35	31.08	85.83	9.73	4.55	10.10
HQ110CT	1686	657	0.39	1.20	4.37	31.67	85.53	8.90	6.03	11.13
BRS-293	1649	646	0.39	1.21	4.53	35.25	85.18	8.40	5.99	11.25
DP 1034 B2RF	1505	636	0.42	1.20	4.30	30.75	85.30	9.73	4.75	9.98
BX 1533GLT	1514	628	0.42	1.27	4.45	33.65	86.43	8.63	4.28	10.28
Dyno-Gro CT145	1490	619	0.42	1.26	4.30	33.77	86.90	8.77	5.43	11.37
Dyna-Gro 2355B	1472	610	0.41	1.26	4.43	33.55	86.23	8.33	5.70	11.48
BX 1535GLT	1583	608	0.39	1.29	4.23	34.35	87.35	5.75	5.35	11.53
BRS-335	1505	594	0.39	1.22	4.20	32.90	85.80	7.40	4.80	10.55
HQ210CT	1504	565	0.38	1.19	4.40	32.83	84.55	8.05	5.05	10.55
BRS-286	1421	554	0.39	1.22	4.28	33.98	85.10	8.20	4.44	11.03
BX 1530GLT	1175	529	0.45	1.23	4.30	30.40	85.03	8.58	4.81	9.90
Overall Mean	**2131**	**890**	**0.42**	**1.22**	**4.38**	**32.31**	**85.96**	**8.66**	**5.14**	**11.11**
LSD (0.05)	**705**	**295**	**0.013**	**0.03**	**0.3**	**1.64**	**1.33**	**0.93**	**2.5**	**1.11**
C.V. (%)	**23.37**	**23.28**	**2.32**	**1.94**	**4.79**	**3.6**	**1.09**	**7.54**	**17.12**	**9.68**

[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).
Trial Facilitator: Mark Shankle

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, 2014.[1]

Variety	Seed cotton yield	Lint yield	Lint	Length	Mic.	Strength	Uniformity	Elongation	Ind. boll weight	100 seed weight
	lb/A	*lb/A*	*%*	*in*		*g/tex*	*%*	*%*	*g*	*g*
NG 1511 B2RF	4016	**1906**	0.47	1.08	4.65	32.98	83.63	9.33	4.90	8.43
Px37520W3RF	3931	**1821**	0.46	1.08	4.13	28.90	83.30	7.83	4.23	7.55
DP 1048 B2RF	3865	**1812**	0.47	1.12	4.73	30.35	85.08	9.15	5.00	8.20
MON 12R224B2RF	3961	**1798**	0.45	1.12	4.08	30.60	85.13	7.53	4.68	8.73
DP 1321 B2RF	3805	**1750**	0.46	1.10	4.45	31.93	84.73	10.03	4.55	8.43
Px3122b51WRF	3714	**1739**	0.47	1.16	4.40	33.90	85.88	7.50	4.83	8.75
PHY 495 W3RF	3704	**1738**	0.47	1.08	4.60	34.13	84.63	9.10	4.88	8.45
ST 5032GLT	3811	**1734**	0.45	1.17	4.08	32.13	84.70	8.60	5.03	9.03
Px49936W3RF	3661	**1731**	0.47	1.09	4.45	33.80	84.63	8.58	4.38	7.50
PHY 333 WRF	3680	**1730**	0.47	1.16	4.10	32.70	84.50	6.58	4.73	8.45
Dyna-Gro 2285B	3809	**1721**	0.45	1.12	4.38	30.33	84.75	9.38	4.73	6.28
BX 1531GLT	3739	1704	0.46	1.10	4.85	30.75	84.23	7.03	5.10	8.05
Px37508W3RF	3684	1669	0.45	1.11	4.00	30.33	83.60	7.10	4.53	8.75
Px49907W3RF	3500	1666	0.48	1.09	4.70	33.03	83.98	8.53	4.63	7.63
CROPLAN 3787 B2RF	3587	1663	0.46	1.11	4.53	31.68	84.83	9.58	5.03	7.80
PHY 499WRF	3526	1645	0.47	1.09	4.90	34.60	84.48	9.13	4.93	8.43
PHY 339 WRF	3518	1615	0.46	1.11	4.43	32.53	85.10	7.88	4.60	7.83
DP 1133 B2RF	3459	1613	0.47	1.09	4.65	34.20	84.73	8.48	4.63	7.65
DP 1137 B2RF	3399	1610	0.47	1.09	4.70	30.70	84.43	8.38	4.53	8.08
DP 0912 B2RF	3378	1577	0.45	1.06	4.73	31.23	85.03	7.73	4.43	8.63
BX 1532GLT	3377	1551	0.46	1.11	4.58	30.38	84.38	7.63	4.78	7.40
BX 1530GLT	3388	1529	0.45	1.12	4.75	30.48	84.48	7.53	4.95	8.50
ST 4946GLB2	3427	1527	0.45	1.14	4.30	33.28	84.78	8.45	4.93	8.85
BX 1533GLT	3372	1518	0.45	1.14	4.08	33.53	83.80	7.95	3.93	7.53
DP 1034 B2RF	3197	1516	0.47	1.14	4.60	31.73	84.45	9.93	5.05	8.25
DP 1044 B2RF	3176	1477	0.47	1.06	4.60	31.85	84.53	9.98	4.43	8.45
ST 6448GLB2	3236	1469	0.45	1.17	4.50	31.23	85.33	6.78	4.68	8.08
Px300304WRF	3291	1448	0.44	1.10	4.15	33.33	84.20	6.65	4.75	8.58
Px444413WRF	3091	1448	0.47	1.20	4.23	33.68	86.50	7.60	5.28	8.48
BX 1536GLT	3194	1443	0.45	1.11	4.10	32.55	83.75	6.78	4.18	8.28
ST 5288B2F	3251	1441	0.44	1.12	4.65	30.28	84.50	7.95	5.00	8.45
BX 1535GLT	3213	1421	0.44	1.16	3.88	33.10	84.98	5.58	4.70	9.03
ST 5289GLT	3186	1417	0.44	1.11	4.35	30.53	83.90	7.23	4.85	8.53
ST 4747GLB2	3147	1411	0.45	1.18	4.30	28.73	84.63	5.80	5.05	8.88
Px554010WRF	3161	1409	0.45	1.12	4.43	31.00	85.10	8.23	4.40	7.53
Px554057WRF	3102	1409	0.45	1.19	4.45	33.70	86.68	7.48	4.83	8.68
Px554063WRF	3075	1398	0.45	1.14	4.38	33.40	85.75	7.33	4.50	7.93
Px300310WRF	3144	1381	0.44	1.04	4.43	32.48	83.83	8.40	4.35	8.50
Dyna-Gro 2355B	3211	1380	0.43	1.11	4.55	32.88	84.50	8.80	5.03	9.00
BX 1534GLT	3102	1365	0.44	1.14	4.00	31.03	84.15	7.48	5.28	9.63
Px300314WRF	3052	1345	0.44	1.09	4.35	31.98	84.83	8.15	4.53	7.63
PHY 427 WRF	3043	1336	0.44	1.09	3.95	32.88	84.80	8.65	4.08	7.60
DP 1311 B2RF	2646	1259	0.48	1.13	4.88	30.63	85.68	8.95	4.98	7.85
Dyno-Gro CT145	2544	1141	0.45	1.14	4.65	33.80	85.25	8.15	5.65	8.83
Overall Mean	**3395**	**1551**	**0.456**	**1.12**	**4.42**	**32.03**	**84.68**	**8.06**	**4.7**	**8.24**
LSD (0.05)	**397**	**191**	**0.015**	**0.032**	**0.35**	**1.84**	**1.23**	**0.96**	**0.55**	**1.23**
C.V. (%)	**8.36**	**8.77**	**2.27**	**2.05**	**5.63**	**4.09**	**1.03**	**8.51**	**8.24**	**10.64**

[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).
Trial Facilitator: Normie Buehring

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