

# 2012 Mississippi Cotton Variety Trials



Cliff Heaton Farms

EXPERIMENT STATION

# 2012 Mississippi Official Cotton Variety Trials

B.R. Golden, Assistant Research Professor  
Cotton Variety Trial Coordinator  
Delta Research and Extension Center  
Stoneville, MS  
bgolden@drec.msstate.edu

W.E. Clark, Agricultural Technician  
Cotton Variety Trial Contact  
Delta Research and Extension Center  
Stoneville, MS  
weclark@drec.msstate.edu

D.M. Dodds, State Cotton Extension Specialist  
Plant and Soil Science Department  
Mississippi State University  
Starkville, MS

N.W. Buehring, Research Professor-Superintendent  
North Mississippi Research and Extension Center  
Verona, MS

S.W. Martin, Ag Economist & Head  
Delta Research and Extension Center  
Stoneville, MS

M.W. Shankle – Research Professor  
North Mississippi Research and Extension Center  
Pontotoc, MS

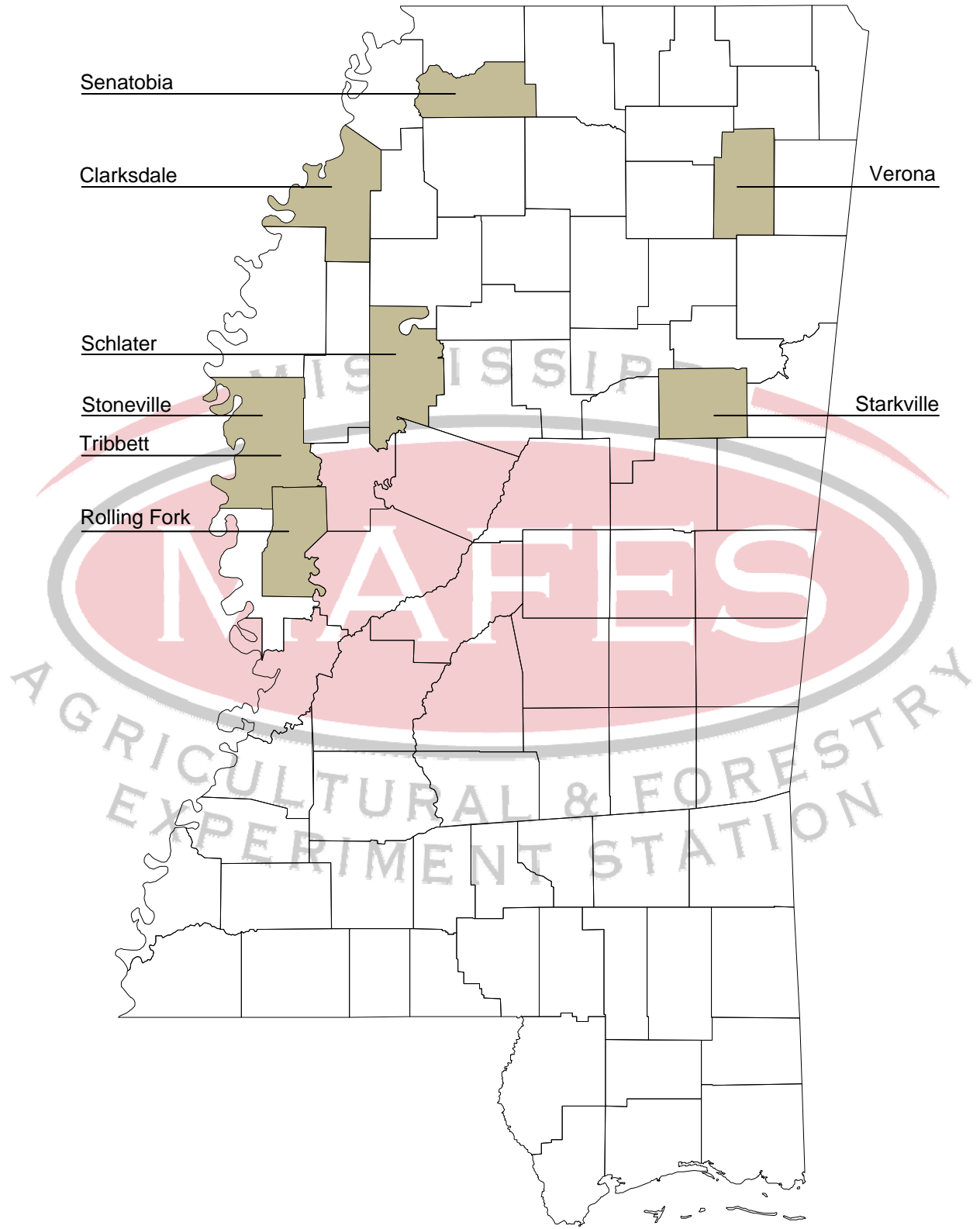
T.P. Wallace, Associate Professor  
Plant and Soil Science Department  
Mississippi State University  
Starkville, MS

## 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 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 Agriculture and Forestry Experiment Station. Trade Names of commercial products used in this report are included only to provide greater clarity to the information presented



## 2012 OVT Testing Locations



## Table of Contents

Acknowledgements.....	iv
Introduction .....	1
Testing Procedures.....	1
Interpreting the Data .....	2
Selecting Varieties .....	2
Considerations for Selections .....	3
Loan Valuation Aid.....	4
Top Yielders.....	4
<b><i>Performance tables for 2012 tested varieties</i></b>	
Table 1. Varieties submitted for testing in 2012.....	5
Table 2. Mean performance of <u>New and OVT varieties</u> submitted during 2012 .....	6
Table 3. <u>Two-year</u> yield performance of varieties cultivated in the Delta region.....	7
Table 4. <u>Two-year</u> yield performance of varieties cultivated in the Hill region .....	8
Table 5. <u>One-year</u> yield performance of varieties cultivated in the Delta region.....	9
Table 6. <u>One-year</u> yield performance of varieties cultivated in the Hill region .....	10
Table 7. Yield performance and fiber characteristics – <u>Stoneville OVT trial</u> .....	11
Table 8. Yield performance and fiber characteristics – <u>Tribbett OVT trial</u> .....	12
Table 9. Yield performance and fiber characteristics – <u>Verona OVT trial</u> .....	13
Table 10. Yield performance and fiber characteristics – <u>Starkville OVT trial</u> .....	14
Table 11. Yield performance and fiber characteristics – <u>Clarksdale OVT trial</u> .....	15
Table 12. Yield performance and fiber characteristics – <u>Schlater OVT trial</u> .....	16
Table 13. Yield performance and fiber characteristics – <u>Rolling Fork OVT trial</u> .....	17
Table 14. Yield performance and fiber characteristics – <u>Senatobia OVT trial</u> .....	18
Table 15. Yield performance and fiber characteristics – <u>Tunica OVT trial</u> .....	19
Table 16. One-year yield performance of <u>New varieties</u> tested in Mississippi.....	20
Table 17. Yield performance and fiber characteristics – <u>Stoneville New trial</u> .....	21
Table 18. Yield performance and fiber characteristics – <u>Starkville New trial</u> .....	22
Table 19. Yield performance and fiber characteristics – <u>Tribbett New trial</u> .....	23
Table 20. Yield performance and fiber characteristics – <u>Verona New trial</u> .....	24
Table 21. Yield performance and fiber characteristics – <u>Clarksdale New trial</u> .....	25
Table 22. Yield performance and fiber characteristics – <u>Rolling Fork New trial</u> .....	26
Table 23. Yield performance and fiber characteristics – <u>Schlater New trial</u> .....	27
Table 24. Yield performance and fiber characteristics – <u>Senatobia New trial</u> .....	28

Table 25. Yield performance and fiber characteristics – <u>Tunica New trial</u> .....	29
Table 26. Yield performance and fiber characteristics <u>Stoneville CAST trial</u> .....	30
Appendix 1. Agronomically important events for OVT trials conducted during 2012 .....	31

## Acknowledgement

The authors would like to express their appreciation first and foremost to the four producers who participated in the 2012 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 differing areas in the state to better represent the environmental, soil textural, and management differences that are present throughout the state of Mississippi. Thank you to Cliff Heaton (Clarksdale), Clark Carter (Rolling Fork), Dale Pillow (Schlater), and George Perry (Senatobia and Tunica); your hard work and willingness to participate in the variety trials is deeply valued. We at the Mississippi Agriculture and Forestry Experiment Station look forward to working with you and other willing producers in the future.

Gratitude is expressed to Robert Sullivan and Jim Nichols of the Agronomy program at the Delta Research and Extension Center for their assistance with all aspects of conducting the trials. Without your diligent work and assistance the variety trials would not be a success, thanks again for all you do. We would also like to recognize, Shan Beasley, Laurie Jones, and Debra White for their assistance with hand harvesting, ginning, and preparing fiber quality samples. Your work allows us to provide data in a timely fashion. To Mark Silva, thanks for supplying the equipment and technical expertise to make recording environmental data possible at both the on and off-station testing locations.

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 base of operation.

The Official Variety Trial (OVT) is conducted annually at the Delta Research and Experiment Station, North Mississippi Research and Experiment Station, Main Campus Mississippi State University, the Tribbett Statellite Farm and at cooperating producer locations in both the Delta, and Hill cotton producing regions. At each location, all varieties entered into the trial are treated identical (Conventional) with respect to herbicide and insecticide input to strive for unbiased evaluation of genetic potential. Mississippi State personnel attempt to conduct at minimum 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 New and Commercial Advanced Stain Trials (CAST). The New Trial is conducted at 4 on-station locations and the CAST trial is conducted at Stoneville. These trials allow researchers and producers to get

a first-hand look at possibly the next best varieties coming down the pipeline. The varieties in the New trial are closer to being on the shelf than those in the CAST in most instances.

## 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 ft in length with a row spacing of 38 or 40". Each plot is analyzed statistically as a randomized complete block with four blocks or replications.

Input management for trials is determined by cooperators at each location 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 hand-picked 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 not bias fiber quality across locations.

High Volume Instrumentation analysis for fiber property determinations are conducted by Starlab, Inc. in Knoxville, TN.

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

The commercial varieties utilized as standard checks for comparison in 2012 were as follows; 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 Mid South 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 varieties 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 Fishers Protected Least Significant Difference (LSD) at a five percent level. The LSD associated with the five percent level, lends us 95 percent 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 differing numerical yields, but will perform very similar at a given location. Statistical analysis is not conducted for across location averages. Producers should review data tables for the geographical closest location that is representative of their operation, but 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 one; if not the most important management decision a producer must make for the duration of growing season. Improper variety selection generally cannot be overcome with management. Starting with the best genetic potential will generally be confirmed at harvest. Careful consideration should go into selecting varieties that are well adapted to Mid South 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. This lends the producer multiple options to choose from with respect to herbicide and insecticide traits. Below is a synopsis of the transgenic traits that were represented in this year's trials.

**Glyphosate tolerance** – 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 almost completely replaced the older roundup ready varieties (R or RR). In general, Flex varieties allow for over the top applications to be made later into the season.

**Glufosinate tolerance:** - generally indicated on the seed bag with an LL. These varieties can withstand over the top applications of Ignite 280 or Ignite. These varieties may gain appeal with the increasing acreage encountering glyphosate resistant weed pressure.

It is important to note that producers utilizing both glyphosate and glufosinate tolerant varieties in close proximity must use caution to avoid crop injury from spray drift, improperly cleaned applicators, and or a combination of both. For more information on utilizing herbicide resistant traits and alternative

weed control practices consult MSU extension 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.

**WideStike** – 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 caterpillar pests. For more information on utilization of transgenic traits with insecticidal properties consult MSU extension 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 attempting to select a variety, but do not discount fiber quality as a close second. Overall, low fiber quality in Mid South 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 currently most 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 MSU extension publication # 2697 "2011 Cotton maturity guide" available online at <http://msucares.com/pubs/publications/p2697.pdf>

## **Loan Valuation Decision Aid**

For each trial conducted in 2012, data was submitted to the upland cotton loan valuation aid (Tables 21-23). This tool was developed by Dr. Falconer (Texas A&M) and is supported by Cotton Inc. The tool allows for calculation of Commodity Credit Corporation cotton loan premium and discount values based on yields and HVI classing information. The program is updated annually. The program can be referenced via the internet at <http://www.cottoninc.com/Decision-Aids/2011-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 Mid South is short on its own. The recent trend in cotton varieties submitted for testing to University OVT trials across the Mid South has declined over the last ten 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 Mid South University OVT trials.

**Table 1. Varieties submitted for testing by participating industry partners in 2012.**

Industry Contact	Trial and variety submitted†		
	Official Variety Trial	New Variety Trial	Commercial Strain Trial
<b>All-Tex Seed Co</b> <i>Charlie Cook</i>		ATX LA 122 ATX NITRO44 B2RF	ATX 9C253 B2RF ATX CR103233 B2RF ATX CR106466 B2RF ATX 981221501 B2RF
<b>Americot Inc.</b> <i>Tom Brooks</i>	AM1511 B2RF AM1550 B2RF	UA 48 NGX 0012 B2RF	
<b>DREC</b> <i>Peggy Thaxton</i>			DREC 08-263 DREC 08-283 DREC 08-30ne
<b>Bayer Crop Science</b> <i>Andy White</i>	FM 1944GLB2 ST 5288B2F (Std)	FM 1944GLB2 BX 1346GLB2 BX 1348GLB2 ST 5288B2F (Std)	ST 5288B2F (Std)
<b>Crop Production Services</b> <i>Wade Thompson</i>	DG 2570 B2RF DG 2610 B2RF	DG 2595 B2RF DG 2530 B2RF CT 12214	
<b>Monsanto</b> <i>Dave Albers</i>	DP 1034 B2RF DP 1048 B2RF DP 1219 B2RF DP 1133 B2RF DP 1044 B2RF DP 1137 B2RF DP 0920 B2RF DP 0912 B2RF (Std)	11R112B2R2 11R124B2R2 11R136B2R2 11R159B2R2 DP 0912 B2RF (Std)	DP 0912 B2RF (Std)
<b>PhytoGen Seed Co.</b> <i>Brooks Blanche</i>	PHY 367 WRF PHY 499 WRF PX433906WRF PX4339CBWRF PX433915WRF PX532211WRF PHY 375 WRF (Std)	PHY 375 WRF (Std)	PX3122WRF-40 PX4433WRF-14 PX5403WRF-05 PX5409WRF-03 PX5277WRF-06 PX5277WRF-02 PHY 375 WRF (Std)
<b>Seed Source Genetics</b> <i>Ed Jungmann</i>	HQ 210 CT UA 222		
<b>Winnfield Solutions, LLC</b> <i>Robert Cossar</i>	CG 3787 B2RF	CGX 1201 B2RF	

† (Std) Designates a standard entry to be used for check purposes

**Table 2. One year mean yield performance and fiber characteristics for OVT and NEW Trial varieties submitted for testing in 2012 averaged across all testing locations**

Variety	Measurement								
	Lint Yield† (lb/ac)	Lint (%)	Length (in.)	Mic. - - - -	Strength (g/tex)	Uniform (%)	Elong (%)	Ind. Boll Weight (g)	100 seed Weight (g)
DP 1321 B2RF	<b>1512</b>	41.90	1.18	4.94	29.97	86.02	7.41	5.07	10.14
NG 1511 B2RF	<b>1496</b>	42.95	1.17	4.82	30.87	85.91	7.42	5.46	10.17
PX433915WRF	<b>1429</b>	40.66	1.21	4.59	30.21	86.04	6.79	4.88	10.01
PX433906WRF	<b>1427</b>	41.34	1.21	4.57	31.08	86.22	6.94	4.96	9.68
PHY499WRF	<b>1414</b>	43.18	1.17	4.90	31.71	86.16	7.41	5.18	9.90
PX4339CBWRF	<b>1412</b>	40.93	1.21	4.55	30.68	86.26	6.89	4.94	9.78
CG 3787 B2RF	<b>1404</b>	42.84	1.18	4.60	29.01	86.12	7.21	5.11	9.49
CT12214	<b>1381</b>	40.75	1.20	4.60	29.45	86.27	7.05	5.25	10.47
DP 0912 B2RF	1369	40.11	1.16	5.09	29.98	85.67	6.86	5.15	10.09
PHY 375 WRF	1355	41.77	1.15	4.65	29.71	85.39	6.68	4.99	9.98
ST 5288B2F	1340	40.57	1.17	4.88	28.91	84.95	6.76	5.08	9.46
DP 0920 B2RF	1328	41.71	1.17	4.89	28.14	85.45	6.65	4.80	9.62
DP 1137 B2RF	1318	42.63	1.16	4.67	29.02	85.72	7.12	5.19	9.62
DP 1048 B2RF	1318	42.49	1.18	4.55	28.78	86.03	7.09	4.93	9.61
DP 1133 B2RF	1316	42.91	1.18	4.73	31.31	86.54	7.10	4.83	9.31
DG 2570 B2RF	1308	40.84	1.17	4.81	30.37	85.80	7.26	5.61	10.42
FM 1944GLB2	1302	39.58	1.24	4.74	32.00	86.33	6.21	5.54	10.76
DP 1034 B2RF	1295	42.58	1.18	4.59	28.84	86.03	7.15	4.99	9.48
AM1550 B2RF	1292	40.59	1.15	4.61	28.36	85.59	6.66	5.24	10.23
BX 1346GLB2	1282	40.30	1.19	4.73	31.49	86.02	7.11	5.73	10.96
DP 1311 B2RF	1280	42.86	1.17	4.69	28.24	85.51	7.00	4.77	8.84
DG 2595 B2RF	1276	41.38	1.20	4.97	30.57	85.91	6.82	4.91	9.91
BX 1348GLB2	1263	40.11	1.23	4.53	29.63	85.83	6.06	4.74	9.75
DP 1219 B2RF	1252	42.04	1.21	4.61	33.04	85.71	6.74	4.74	9.04
DP 1044 B2RF	1238	39.67	1.16	4.56	29.19	85.14	7.10	4.64	9.40
PHY367WRF	1236	40.38	1.19	4.51	30.44	85.61	7.02	4.62	9.74
CG 3428 B2RF	1233	41.67	1.22	4.73	29.04	86.39	6.86	4.69	9.41
DP 1359 B2RF	1231	42.95	1.19	4.74	31.58	85.60	6.61	4.73	9.17
DG 2530 B2RF	1220	42.36	1.22	4.63	30.90	86.95	7.02	4.95	9.54
NGX 0012 B2RF	1205	42.78	1.18	4.58	28.70	86.43	7.28	5.10	9.71
DG 2610 B2RF	1166	42.04	1.18	4.49	29.48	86.26	7.24	5.04	9.80
HQ 210 CT	1152	40.04	1.16	4.68	31.61	85.07	6.83	4.96	9.85
LA 122	1138	41.45	1.18	4.52	29.27	85.75	6.96	5.15	9.81
PX532211WRF	1136	39.47	1.23	4.41	29.33	86.26	6.66	5.02	10.23
UA 222	1130	39.32	1.25	4.80	30.65	86.50	7.24	5.61	11.13
NITRO 44 B2RF	1127	38.67	1.25	4.16	33.21	86.87	7.00	5.36	10.99
MON 11R136B2R2	1053	40.36	1.25	4.49	31.92	86.87	6.87	5.09	9.59
UA48	1001	37.16	1.30	5.11	37.42	87.80	6.78	5.72	11.90
<b>Overall Mean</b>	1282	41.21	1.19	4.67	30.35	86.02	6.94	5.06	9.91
<b>LSD(0.05)</b>	135	0.78	0.016	0.2	0.7	0.44	0.16	0.2	0.37
<b>C.V. (%)</b>	22.58	4.04	2.99	9.18	4.97	1.11	4.93	8.48	7.98

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 3. Two-year mean yield performance of varieties cultivated at 4 locations in the Delta region during 2011 and 2012.**

Variety	Location and Year								Average across location and year
	Clarksdale		Rolling Fork		Stoneville		Tribbett		
	2011	2012	2011	2012	2011	2012	2011	2012	
-----Lint yield (lb lint/ac)-----									
NG 1511 B2RF	n/a	1442	n/a	1324	1088	1330	n/a	1236	1284
AM 1550 B2RF	1737	1386	1389	1049	877	1065	1043	1122	1209
CG 3787 B2RF	n/a	1105	n/a	1215	1007	1020	n/a	1299	1129
DG 2570 B2RF	1624	1258	1448	1236	779	1134	1062	1109	1206
DP 0912 B2RF	1697	1265	1765	1190	904	875	1040	1151	1236
DP 1034 B2RF	1617	1082	1589	1027	1156	904	984	1297	1207
DP 1048 B2RF	1262	966	1457	1193	947	894	1019	1237	1122
DP 1133 B2RF	1968	978	1861	1065	918	1335	992	1376	1312
DP 1137 B2RF	1642	955	1589	835	813	890	922	1329	1122
HQ 210 CT	1149	1012	756	1123	646	926	757	980	919
LA 122	n/a	968	n/a	958	955	1135	n/a	958	995
PHY 375 WRF	1796	1249	1595	1159	902	1068	864	1227	1233
PHY 499 WRF	1773	1407	1802	1147	982	1051	1259	1173	1324
ST 5288B2F	1964	1333	1763	1157	994	1126	1268	1193	1350
UA 48	n/a	1159	n/a	902	765	1021	n/a	727	915

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

n/a = new trials were not planted at off station locations during 2011.

Tunica data not presented for two year Delta average due to seep water not allowing Trial in 2011

**Table 4. Two-year mean yield performance of varieties cultivated at 3 locations in the Hill region during 2011 and 2012.**

Variety	Location and Year						Average across location and year
	<u>Senatobia</u>		<u>Starkville</u>		<u>Verona</u>		
	2011	2012	2011	2012	2011	2012	
-----Lint yield (lb lint/ac)-----							
NG 1511 B2RF	n/a	1411	1298	1363	1778	1885	1547
AM 1550 B2RF	1008	1253	1094	1261	1459	1658	1289
CG 3787 B2RF	n/a	1456	1193	1529	1967	1897	1608
DG 2570 B2RF	1057	1187	1055	1110	1625	1765	1300
DP 0912 B2RF	1244	1257	1093	1307	1632	1798	1389
DP 1034 B2RF	1161	1322	1479	1573	1771	1823	1522
DP 1048 B2RF	1035	1418	1406	1530	1673	1867	1488
DP 1133 B2RF	1045	1436	1205	1340	1641	1776	1407
DP 1137 B2RF	1067	1316	1407	1559	1599	1868	1469
HQ 210 CT	952	1106	900	1055	1480	1362	1143
LA 122	n/a	1288	1224	1163	1696	n/a	1343
PHY 375 WRF	1303	1351	1245	1255	1483	1679	1386
PHY 499 WRF	1062	1423	1384	1347	1603	1876	1449
ST 5288B2F	1125	1189	1213	1430	1523	1564	1341
UA 48	n/a	1052	950	894	1167	n/a	1016

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

n/a = new trials were not planted at off station locations during 2011.

Trial was inadvertently oversprayed with glyphosate; therefore no data is presented for varieties that year

**Table 5. One year mean yield performance of varieties cultivated at 5 locations in the Delta Region during 2012.**

Variety	Measurement								
	Lint Yield† (lb/ac)	Lint (%)	Length (in.)	Mic. - - - -	Strength (g/tex)	Uniform (%)	Elong (%)	Ind. Boll Weight (g)	100 seed Weight (g)
DP 1321 B2RF	<b>1486</b>	41.48	1.18	5.04	29.72	85.92	7.39	5.06	10.23
NG 1511 B2RF	<b>1467</b>	42.52	1.17	4.88	30.55	85.90	7.43	5.48	10.26
PX433915WRF	<b>1391</b>	40.46	1.21	4.69	30.30	85.97	6.75	4.95	10.12
PX433906WRF	<b>1365</b>	41.13	1.21	4.62	30.93	86.30	6.88	4.99	9.76
PHY499WRF	<b>1347</b>	43.02	1.17	4.98	31.58	86.08	7.33	5.28	10.07
CT12214	<b>1347</b>	40.51	1.19	4.69	29.31	86.08	6.98	5.28	10.48
PX4339CBWRF	<b>1343</b>	40.66	1.22	4.59	30.73	86.21	6.83	4.99	9.84
DP 0912 B2RF	1327	39.71	1.15	5.18	29.55	85.65	6.81	5.16	10.15
PHY 375 WRF	1319	41.58	1.15	4.73	29.48	85.23	6.61	5.03	10.06
ST 5288B2F	1312	40.54	1.17	5.03	28.40	84.74	6.73	5.17	9.53
CG 3787 B2RF	1292	42.66	1.18	4.64	28.88	86.08	7.19	5.17	9.62
DP 0920 B2RF	1291	41.70	1.17	5.01	28.10	85.30	6.58	4.89	9.75
DG 2570 B2RF	1285	40.90	1.17	4.93	30.14	85.77	7.26	5.73	10.41
BX 1346GLB2	1256	39.93	1.19	4.87	31.39	85.85	7.07	5.84	10.97
DG 2595 B2RF	1251	41.21	1.19	5.01	30.44	85.87	6.73	4.94	9.98
FM 1944GLB2	1244	39.53	1.23	4.85	31.67	86.40	6.13	5.62	10.71
AM1550 B2RF	1243	40.32	1.14	4.70	28.06	85.54	6.62	5.33	10.34
DP 1311 B2RF	1226	42.70	1.16	4.79	27.99	85.28	6.91	4.79	8.98
DP 1133 B2RF	1216	42.54	1.18	4.72	31.06	86.50	7.01	4.82	9.28
PHY367WRF	1215	40.13	1.18	4.60	30.26	85.65	6.98	4.69	9.76
DP 1044 B2RF	1187	39.41	1.16	4.69	28.73	85.13	7.04	4.64	9.53
DP 1137 B2RF	1187	42.25	1.15	4.69	28.96	85.73	7.07	5.18	9.70
UA 222	1180	39.25	1.24	4.83	30.23	86.41	7.16	5.60	11.05
DP 1048 B2RF	1179	42.23	1.18	4.58	28.55	85.87	7.03	4.95	9.70
DP 1359 B2RF	1164	42.90	1.19	4.84	31.26	85.51	6.58	4.80	9.48
BX 1348GLB2	1157	39.92	1.23	4.58	29.49	85.80	6.00	4.74	9.71
DP 1034 B2RF	1157	42.33	1.17	4.63	28.61	85.94	7.14	5.07	9.55
HQ 210 CT	1140	39.58	1.16	4.76	31.15	85.07	6.73	4.94	9.88
DP 1219 B2RF	1133	41.69	1.20	4.68	32.89	85.45	6.68	4.78	9.02
LA 122	1109	41.26	1.18	4.56	29.10	85.80	6.92	5.19	9.78
CG 3428 B2RF	1089	41.04	1.22	4.73	29.03	86.50	6.82	4.76	9.50
DG 2530 B2RF	1088	42.05	1.22	4.61	30.83	86.90	6.97	4.95	9.55
NGX 0012 B2RF	1080	42.53	1.17	4.56	28.68	86.42	7.24	5.11	9.78
PX532211WRF	1027	39.00	1.22	4.48	29.46	86.03	6.66	5.03	10.38
UA48	1010	37.09	1.29	5.15	37.07	87.67	6.65	5.73	11.65
NITRO 44 B2RF	990	37.95	1.25	4.16	32.80	86.69	6.92	5.30	11.09
MON 11R136B2R2	983	39.93	1.25	4.55	31.66	86.92	6.76	5.07	9.65
DG 2610 B2RF	981	41.56	1.18	4.53	29.46	86.10	7.22	5.07	9.95
<b>Overall Mean</b>	1213	40.93	1.19	4.74	30.17	85.95	6.89	5.11	9.98
<b>LSD(0.05)</b>	154	1.03	0.02	0.25	0.87	0.53	0.18	0.26	0.5
<b>C.V. (%)</b>	22.34	4.46	2.89	9.29	5.09	1.09	4.72	9.08	8.77

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 6. One year mean yield performance of varieties cultivated at 3 locations in the Hill region during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniformt	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
CG 3787 B2RF	<b>1627</b>	43.20	1.19	4.51	29.26	86.18	7.24	4.99	9.24
PX433906WRF	<b>1624</b>	41.78	1.21	4.48	31.38	86.06	7.07	4.91	9.53
DP 1048 B2RF	<b>1622</b>	43.06	1.19	4.50	29.27	86.36	7.21	4.88	9.43
DP 1137 B2RF	<b>1581</b>	43.38	1.17	4.63	29.15	85.69	7.21	5.21	9.46
DP 1034 B2RF	<b>1572</b>	43.08	1.18	4.53	29.31	86.20	7.16	4.83	9.32
DP 1321 B2RF	<b>1564</b>	42.74	1.18	4.73	30.47	86.23	7.43	5.09	9.96
DP 1219 B2RF	<b>1553</b>	42.75	1.22	4.47	33.36	86.23	6.88	4.67	9.08
NG 1511 B2RF	<b>1553</b>	43.82	1.18	4.70	31.50	85.94	7.42	5.43	9.98
PX4339CBWRF	<b>1550</b>	41.47	1.21	4.46	30.58	86.37	7.01	4.85	9.65
PHY499WRF	<b>1548</b>	43.52	1.18	4.74	31.97	86.32	7.56	4.98	9.57
NGX 0012 B2RF	<b>1536</b>	43.26	1.18	4.61	28.74	86.45	7.36	5.08	9.56
DG 2610 B2RF	<b>1535</b>	43.02	1.19	4.40	29.52	86.58	7.28	5.00	9.49
DP 1133 B2RF	<b>1517</b>	43.67	1.19	4.74	31.80	86.63	7.28	4.86	9.36
CG 3428 B2RF	<b>1510</b>	42.89	1.23	4.73	29.08	86.18	6.93	4.56	9.24
PX433915WRF	<b>1503</b>	41.08	1.22	4.38	30.03	86.20	6.85	4.73	9.78
DG 2530 B2RF	<b>1483</b>	42.98	1.22	4.65	31.05	87.06	7.13	4.95	9.54
BX 1348GLB2	<b>1474</b>	40.49	1.24	4.41	29.90	85.88	6.19	4.74	9.83
CT12214	<b>1456</b>	41.27	1.21	4.41	29.74	86.70	7.20	5.18	10.45
DP 0912 B2RF	<b>1454</b>	40.92	1.16	4.89	30.82	85.70	6.96	5.12	9.97
PHY 375 WRF	<b>1428</b>	42.16	1.16	4.48	30.16	85.72	6.80	4.91	9.83
PX532211WRF	<b>1428</b>	40.42	1.23	4.27	29.07	86.72	6.65	4.99	9.94
FM 1944GLB2	<b>1416</b>	39.66	1.24	4.51	32.66	86.20	6.36	5.38	10.84
DP 0920 B2RF	1402	41.74	1.17	4.65	28.23	85.73	6.80	4.63	9.35
NITRO 44 B2RF	1400	40.09	1.26	4.15	34.03	87.22	7.16	5.48	10.78
ST 5288B2F	1394	40.64	1.18	4.59	29.93	85.37	6.81	4.91	9.33
AM1550 B2RF	1391	41.12	1.15	4.41	28.97	85.69	6.74	5.06	10.02
DP 1311 B2RF	1388	43.18	1.19	4.49	28.74	85.98	7.18	4.74	8.57
DP 1359 B2RF	1361	43.03	1.20	4.54	32.23	85.78	6.67	4.58	8.56
DG 2570 B2RF	1354	40.71	1.18	4.56	30.82	85.85	7.27	5.39	10.43
DP 1044 B2RF	1340	40.18	1.17	4.30	30.11	85.16	7.21	4.65	9.15
BX 1346GLB2	1333	41.04	1.20	4.43	31.70	86.36	7.18	5.51	10.93
DG 2595 B2RF	1327	41.72	1.21	4.90	30.84	86.01	7.00	4.86	9.77
PHY367WRF	1278	40.86	1.20	4.33	30.79	85.53	7.09	4.49	9.69
LA 122	1226	42.03	1.20	4.41	29.76	85.61	7.09	5.03	9.89
MON 11R136B2R2	1187	41.23	1.24	4.38	32.43	86.76	7.08	5.14	9.48
HQ 210 CT	1174	40.97	1.16	4.51	32.54	85.08	7.05	5.02	9.79
UA 222	981	39.50	1.27	4.71	31.91	86.76	7.49	5.61	11.36
UA48	973	37.36	1.30	4.96	38.48	88.21	7.18	5.70	12.66
<b>Overall Mean</b>	1431	41.79	1.2	4.53	30.73	86.15	7.05	4.99	9.77
<b>LSD(0.05)</b>	213	0.89	0.032	0.31	1.1	0.79	0.29	0.27	0.44
<b>C.V. (%)</b>	18.12	2.59	3.21	8.21	4.37	1.12	4.98	6.67	5.54

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.



**Table 7. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Bosket very fine sandy loam at the Delta Research and Extension Center near Stoneville, MS during 2012.**

Variety	Measurement								
	Lint Yield† (lb/ac)	Lint (%)	Length (in.)	Mic. - - - -	Strength (g/tex)	Uniform (%)	Elong (%)	Ind. Boll Weight (g)	100 seed Weight (g)
DP 1133 B2RF	<b>1335</b>	43.45	1.22	4.93	32.00	86.63	6.95	4.93	9.53
NG 1511 B2RF	<b>1330</b>	42.80	1.20	5.05	31.90	86.00	7.55	5.63	10.45
DP 1321 B2RF	<b>1276</b>	42.00	1.20	5.20	30.65	85.83	7.38	4.95	10.05
DP 0920 B2RF	<b>1239</b>	43.03	1.17	5.15	28.58	85.03	6.73	4.68	10.10
PX433906WRF	<b>1222</b>	41.50	1.19	4.65	30.95	85.23	6.75	4.55	9.48
DG 2595 B2RF	<b>1193</b>	41.98	1.22	5.15	32.73	86.48	6.83	5.10	10.20
PX433915WRF	<b>1172</b>	39.83	1.22	4.80	30.88	85.90	6.63	4.85	10.83
DP 1359 B2RF	1164	43.68	1.20	4.85	32.23	85.50	6.68	4.63	9.90
DP 0912 B2RF	1156	40.50	1.17	5.33	30.28	86.03	6.95	5.10	9.90
PX4339CBWRF	1143	39.95	1.23	4.70	30.98	85.98	6.55	5.10	10.20
DG 2570 B2RF	1134	41.35	1.17	4.98	31.60	85.68	7.30	5.88	10.25
ST 5288B2F	1126	41.10	1.19	5.08	29.55	84.55	6.65	5.10	9.50
PHY367WRF	1103	39.90	1.24	4.70	30.50	86.10	6.93	4.50	9.98
CT12214	1103	40.05	1.23	4.80	31.38	86.65	7.08	5.23	10.90
PHY 375 WRF	1068	41.23	1.16	4.85	30.60	85.23	6.60	4.80	10.25
AM1550 B2RF	1065	40.63	1.16	4.83	29.23	85.30	6.73	4.98	10.50
PHY499WRF	1051	43.40	1.19	5.00	32.13	86.15	7.35	5.15	10.25
DP 1219 B2RF	1046	42.95	1.18	4.78	33.05	84.78	6.70	4.58	9.03
DP 1311 B2RF	1035	43.75	1.16	4.93	28.40	85.18	7.10	4.75	9.88
UA48	1021	36.60	1.30	5.35	38.13	87.53	6.83	5.35	10.90
CG 3787 B2RF	1020	43.60	1.18	4.63	29.50	86.38	7.33	5.03	9.53
UA 222	996	39.68	1.27	4.95	31.33	86.90	7.13	5.58	10.95
LA 122	995	42.18	1.17	4.83	28.48	85.20	6.73	4.80	10.30
FM 1944GLB2	967	39.83	1.24	4.93	32.93	86.75	6.23	5.58	11.35
CG 3428 B2RF	962	41.37	1.22	5.03	30.00	86.63	6.97	4.80	9.77
BX 1346GLB2	940	40.50	1.22	4.98	32.53	85.95	7.08	5.33	10.68
HQ 210 CT	926	39.85	1.18	4.95	31.93	84.70	6.85	4.63	9.88
BX 1348GLB2	922	40.50	1.23	4.65	29.95	85.35	6.05	4.65	10.10
DG 2530 B2RF	910	42.48	1.26	4.75	31.80	87.38	7.05	4.95	9.53
DP 1048 B2RF	894	42.95	1.18	4.65	30.50	85.95	7.18	4.70	9.55
DP 1137 B2RF	890	42.28	1.14	4.83	29.93	85.98	7.10	5.25	9.98
DP 1034 B2RF	854	42.88	1.18	4.70	29.43	86.03	6.95	4.85	10.10
PX532211WRF	835	39.28	1.24	4.60	29.98	86.63	6.75	4.80	10.53
NITRO 44 B2RF	832	38.10	1.26	4.48	33.70	86.78	6.95	5.30	10.58
NGX 0012 B2RF	824	44.18	1.17	4.68	30.25	86.10	7.28	4.93	10.05
DP 1044 B2RF	823	39.28	1.18	4.88	30.25	85.50	7.18	4.55	10.13
MON 11R136B2R2	757	41.65	1.25	4.93	32.38	87.40	6.90	5.35	9.78
DG 2610 B2RF	632	43.18	1.16	4.55	31.05	86.43	7.33	5.25	10.00
<b>Overall Mean</b>	1021	41.4	1.2	4.87	31.1	85.99	6.93	5.00	10.13
<b>LSD(0.05)</b>	163	1.38	0.03	0.19	1.55	1.03	0.36	0.57	0.98
<b>C.V. (%)</b>	11.18	2.37	1.96	2.82	3.54	0.85	3.69	8.19	6.87

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 8. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Forestdale silty clay loam at the Tribbett Satellite Farm near Tribbett, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1133 B2RF	<b>1376</b>	43.58	1.16	5.28	30.58	86.08	6.83	5.35	9.38
DP 1137 B2RF	<b>1329</b>	42.75	1.17	4.90	28.63	85.23	7.20	5.05	9.80
DP 0920 B2RF	<b>1324</b>	42.00	1.17	5.15	27.93	84.98	6.33	4.88	10.38
DP 1321 B2RF	<b>1323</b>	41.25	1.16	5.28	29.38	84.83	7.45	5.05	9.85
BX 1346GLB2	<b>1311</b>	40.95	1.16	5.18	29.83	85.93	6.95	5.95	10.63
CG 3787 B2RF	<b>1299</b>	43.80	1.18	4.98	27.78	85.48	7.15	5.23	10.13
DP 1034 B2RF	<b>1297</b>	43.08	1.17	4.90	27.95	85.10	7.53	4.98	9.28
CT12214	<b>1297</b>	41.45	1.17	5.03	28.33	85.63	6.93	5.40	10.63
PX4339CBWRF	<b>1271</b>	41.30	1.21	5.08	30.68	85.83	6.83	5.08	9.60
DP 1311 B2RF	<b>1271</b>	43.30	1.14	5.28	27.05	84.75	6.93	5.08	9.18
PX433915WRF	<b>1244</b>	40.78	1.19	5.00	30.13	85.30	6.68	5.08	10.08
DP 1048 B2RF	<b>1237</b>	42.78	1.17	4.88	28.15	85.13	7.13	5.33	10.40
NG 1511 B2RF	<b>1236</b>	42.23	1.15	5.18	28.40	85.28	7.73	5.20	10.35
PHY 375 WRF	<b>1227</b>	41.40	1.13	4.98	29.18	84.93	6.60	5.25	10.55
PX433906WRF	1202	40.48	1.19	4.95	31.05	85.65	6.88	5.15	9.95
ST 5288B2F	1193	40.48	1.15	5.53	26.65	84.38	6.73	5.35	10.03
DG 2595 B2RF	1184	40.60	1.18	5.20	29.05	85.18	6.53	5.05	10.03
PHY499WRF	1173	43.30	1.16	5.33	30.08	85.40	7.03	5.30	10.15
DP 1044 B2RF	1162	39.15	1.17	4.85	28.35	85.10	7.05	4.68	9.83
DP 0912 B2RF	1151	39.60	1.13	5.45	27.55	85.33	6.73	5.05	10.58
NGX 0012 B2RF	1145	43.10	1.17	4.98	27.98	85.80	7.33	5.08	9.83
PHY367WRF	1141	40.65	1.16	5.00	29.43	84.35	6.78	4.95	10.08
AM1550 B2RF	1122	40.48	1.12	5.10	27.08	85.35	6.38	5.25	10.25
DG 2570 B2RF	1109	41.28	1.15	5.28	27.83	84.78	7.33	5.68	10.43
FM 1944GLB2	1107	40.28	1.18	5.25	29.60	85.28	5.80	5.53	10.05
DG 2530 B2RF	1079	41.83	1.23	5.05	30.93	86.40	6.98	5.25	9.98
CG 3428 B2RF	1078	40.63	1.22	5.08	28.73	86.35	6.73	4.98	9.58
DP 1219 B2RF	1061	40.98	1.20	5.08	32.13	85.15	6.33	4.95	9.68
DG 2610 B2RF	1035	42.85	1.16	4.95	28.73	85.70	7.58	5.30	9.85
PX532211WRF	1000	39.15	1.22	4.65	29.08	85.13	6.60	5.23	10.68
DP 1359 B2RF	996	42.03	1.18	5.33	30.25	84.65	6.18	4.78	10.13
HQ 210 CT	980	39.60	1.14	5.25	30.33	84.30	6.45	5.15	10.23
BX 1348GLB2	963	39.78	1.22	5.20	28.55	84.95	5.65	4.98	10.08
LA 122	958	41.05	1.17	4.88	28.75	85.63	7.05	5.38	9.88
NITRO 44 B2RF	937	37.85	1.23	4.48	33.38	86.40	7.03	5.65	10.90
MON 11R136B2R2	909	40.15	1.24	4.98	30.60	86.05	6.68	5.15	9.85
UA 222	874	37.50	1.23	5.33	30.38	86.15	7.03	6.05	11.30
UA48	727	37.63	1.27	5.35	35.48	86.93	5.90	5.58	10.35
<b>Overall Mean</b>	1138	41.08	1.18	5.09	29.36	85.38	6.81	5.22	10.1
<b>LSD(0.05)</b>	161	1.43	0.03	0.24	1.5	0.92	0.43	0.42	1.04
<b>C.V. (%)</b>	9.97	2.49	1.76	3.38	3.64	0.77	4.53	5.76	7.36

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 9. Mean yield performance and fiber characteristics for cotton varieties cultivated on a non-irrigated Leeper silty clay loam at the North Mississippi Research and Extension Center Verona, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433906WRF	<b>1926</b>	41.23	1.22	4.53	30.75	86.33	7.03	4.95	9.35
CG 3787 B2RF	<b>1897</b>	43.05	1.21	4.38	28.00	86.35	7.13	5.05	9.05
NG 1511 B2RF	<b>1885</b>	43.63	1.17	4.68	30.30	86.08	7.30	5.50	9.68
PHY499WRF	<b>1876</b>	42.83	1.18	4.85	32.18	86.53	7.60	5.20	9.60
DP 1137 B2RF	<b>1868</b>	42.88	1.19	4.60	28.38	86.23	7.13	5.13	8.95
DP 1048 B2RF	<b>1867</b>	42.60	1.20	4.43	28.48	86.05	7.30	4.75	9.13
DP 1321 B2RF	<b>1834</b>	42.23	1.20	4.60	29.38	86.55	7.38	5.13	9.85
PX4339CBWRF	<b>1824</b>	40.80	1.22	4.43	29.28	86.43	7.08	4.95	9.50
DP 1034 B2RF	<b>1823</b>	42.40	1.20	4.40	28.48	86.78	7.00	5.03	9.10
DG 2610 B2RF	<b>1799</b>	42.45	1.21	4.20	29.23	86.70	7.13	4.93	8.88
DP 0912 B2RF	<b>1798</b>	40.63	1.16	5.10	29.03	85.75	6.85	5.35	10.03
BX 1348GLB2	<b>1793</b>	39.88	1.26	4.60	29.78	86.13	6.18	5.10	9.78
PX433915WRF	<b>1788</b>	40.48	1.22	4.38	28.20	86.78	6.78	4.83	9.70
CT12214	<b>1786</b>	40.68	1.22	4.23	28.30	86.73	6.93	5.25	10.13
PX532211WRF	<b>1776</b>	40.45	1.25	4.20	28.18	86.98	6.63	5.33	9.73
DP 1133 B2RF	<b>1776</b>	43.33	1.20	4.60	30.60	86.88	7.00	4.78	8.90
DG 2530 B2RF	<b>1774</b>	41.93	1.23	4.68	29.95	87.30	6.78	4.98	9.43
DG 2570 B2RF	<b>1765</b>	40.90	1.19	4.58	29.98	86.05	6.98	5.58	10.08
DP 1219 B2RF	<b>1744</b>	42.53	1.25	4.35	32.45	87.15	6.80	4.60	8.75
CG 3428 B2RF	<b>1741</b>	42.48	1.25	4.50	28.28	86.48	6.73	4.68	8.78
NGX 0012 B2RF	1737	42.98	1.21	4.40	28.33	86.90	7.20	5.03	9.05
NITRO 44 B2RF	1730	39.80	1.27	4.00	33.33	87.60	7.05	5.45	10.58
DP 1044 B2RF	1716	40.58	1.17	4.28	29.73	85.25	7.03	4.70	9.03
FM 1944GLB2	1704	38.88	1.26	4.50	32.13	86.73	6.25	5.53	10.65
DP 0920 B2RF	1689	41.28	1.19	4.83	28.03	85.78	6.78	4.80	9.48
PHY 375 WRF	1679	41.03	1.19	4.55	30.33	86.00	6.80	5.25	10.15
AM1550 B2RF	1658	41.00	1.17	4.38	27.98	86.03	6.60	5.13	9.75
DP 1311 B2RF	1637	42.40	1.21	4.50	28.05	86.75	7.10	4.73	8.43
BX 1346GLB2	1614	40.70	1.22	4.43	31.25	86.58	6.95	5.43	10.78
DP 1359 B2RF	1611	41.93	1.23	4.35	31.35	86.25	6.55	4.80	8.45
PHY367WRF	1573	40.33	1.23	4.28	31.20	85.90	7.03	4.73	10.08
ST 5288B2F	1564	39.93	1.20	4.43	29.05	86.10	6.73	4.98	9.10
DG 2595 B2RF	1539	40.65	1.22	4.73	29.75	86.43	6.75	4.93	9.48
MON 11R136B2R2	1365	40.05	1.28	4.20	31.95	86.68	6.83	5.08	9.40
HQ 210 CT	1362	42.68	1.14	4.70	32.00	85.15	7.03	5.40	10.10
<b>Overall Mean</b>	1728	41.47	1.21	4.48	29.82	86.41	6.92	5.05	9.51
<b>LSD(0.05)</b>	186	0.7	0.03	0.29	1.45	1.1	0.33	0.32	0.67
<b>C.V. (%)</b>	7.61	1.24	1.73	4.57	3.46	0.9	3.4	4.53	4.99

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety. Trial was inadvertently oversprayed with glyphosate; therefore no data is presented for varieties that

**Table 10. Mean yield performance and fiber characteristics for cotton varieties cultivated on a non-irrigated Marietta fine sandy loam at the Main Campus Mississippi State University near Starkville, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1034 B2RF	<b>1573</b>	43.53	1.21	4.10	29.75	86.25	7.45	5.05	9.68
DP 1219 B2RF	<b>1568</b>	43.38	1.25	4.10	33.18	86.63	7.20	4.75	9.40
CG 3428 B2RF	<b>1563</b>	43.15	1.25	4.50	28.83	87.00	7.23	4.60	9.48
DP 1137 B2RF	<b>1559</b>	43.48	1.18	4.28	29.45	86.20	7.63	5.63	10.03
DP 1048 B2RF	<b>1530</b>	43.53	1.22	4.23	29.60	86.98	7.58	5.03	9.83
CG 3787 B2RF	<b>1529</b>	43.40	1.22	4.15	29.20	86.80	7.58	5.05	9.65
DG 2610 B2RF	<b>1507</b>	43.33	1.22	4.05	29.43	87.15	7.55	5.13	10.13
DG 2530 B2RF	<b>1484</b>	43.00	1.26	4.20	31.80	88.20	7.53	5.10	9.93
PX4339CBWRF	<b>1481</b>	40.40	1.24	4.18	30.83	86.90	7.18	4.85	9.88
DP 1321 B2RF	<b>1475</b>	42.90	1.20	4.53	29.78	86.33	7.35	5.05	9.80
PX433906WRF	<b>1465</b>	40.68	1.25	4.20	30.15	86.38	7.10	4.78	9.83
NGX 0012 B2RF	<b>1451</b>	42.65	1.18	4.25	29.35	86.88	7.95	5.20	10.13
ST 5288B2F	<b>1430</b>	40.53	1.20	4.35	30.73	85.40	7.13	5.00	9.33
FM 1944GLB2	<b>1412</b>	40.25	1.27	4.28	33.13	86.93	6.70	5.65	10.93
PX433915WRF	1377	39.95	1.25	4.10	30.68	86.88	7.15	4.85	10.20
NG 1511 B2RF	1363	43.58	1.21	4.40	31.53	86.05	7.73	5.38	9.83
PHY499WRF	1347	42.18	1.23	4.33	30.93	87.30	7.65	5.10	9.83
DP 1133 B2RF	1340	43.75	1.21	4.35	31.58	87.00	7.80	4.78	9.73
BX 1348GLB2	1326	40.13	1.27	3.80	30.65	86.30	6.55	4.70	9.93
NITRO 44 B2RF	1326	40.58	1.29	3.90	32.53	87.65	7.33	5.80	11.18
PX532211WRF	1309	39.58	1.28	3.78	28.80	87.38	6.88	4.75	10.20
DP 0912 B2RF	1307	40.75	1.19	4.55	31.43	86.45	7.15	5.20	10.00
DP 0920 B2RF	1275	42.18	1.18	4.38	28.93	85.90	7.10	4.43	9.30
AM1550 B2RF	1261	40.58	1.17	4.08	29.90	85.90	7.13	4.98	10.28
PHY 375 WRF	1255	42.35	1.18	4.08	30.53	85.93	7.13	4.73	9.58
DP 1311 B2RF	1243	42.68	1.24	4.13	29.73	86.65	7.78	4.63	9.00
CT12214	1239	40.98	1.23	4.23	30.33	87.03	7.60	5.43	10.70
DG 2595 B2RF	1235	42.33	1.23	4.60	30.80	86.68	7.28	4.93	10.05
DP 1359 B2RF	1194	44.10	1.23	4.08	32.75	86.48	6.88	4.63	8.70
LA 122	1163	41.05	1.23	3.98	29.60	86.25	7.53	5.13	10.05
BX 1346GLB2	1142	41.13	1.23	4.20	30.78	86.70	7.38	5.38	10.73
DG 2570 B2RF	1110	39.90	1.20	4.28	30.95	86.45	7.78	5.20	10.65
PHY367WRF	1095	40.93	1.21	4.08	30.80	85.93	7.40	4.55	9.63
DP 1044 B2RF	1094	39.88	1.18	4.05	29.90	85.68	7.58	4.68	9.05
MON 11R136B2R2	1093	42.83	1.25	4.15	32.65	88.00	7.63	5.43	9.33
HQ 210 CT	1055	40.20	1.18	4.13	31.68	85.70	7.25	4.63	9.45
UA48	894	37.75	1.33	4.93	37.90	88.95	7.25	6.05	12.53
UA 222	608	38.38	1.32	4.50	31.10	87.73	7.70	5.63	11.53
<b>Overall Mean</b>	1307	41.63	1.23	4.22	30.83	86.71	7.36	5.05	9.98
<b>LSD(0.05)</b>	190	1.19	0.026	0.23	1.55	0.94	0.34	0.36	0.67
<b>C.V. (%)</b>	10.39	2.03	1.49	3.94	3.58	0.78	3.31	5.15	4.78

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 11. Mean yield performance and fiber characteristics for cotton varieties cultivated on an non-irrigated Dubbs very fine sandy loam on Cliff Heaton Farms near Clarksdale, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433906WRF	<b>1448</b>	43.73	1.19	4.48	30.65	86.28	7.40	4.78	9.05
NG 1511 B2RF	<b>1442</b>	45.78	1.14	4.68	30.53	85.58	7.80	5.15	9.28
PHY499WRF	<b>1407</b>	45.25	1.13	4.70	30.98	85.43	7.80	4.93	9.15
DP 1321 B2RF	<b>1398</b>	44.23	1.15	4.80	29.20	85.33	7.90	4.93	9.63
PX4339CBWRF	<b>1394</b>	43.20	1.19	4.38	30.50	86.05	7.30	4.83	9.13
PX433915WRF	<b>1392</b>	42.80	1.18	4.53	30.60	85.63	7.33	4.80	9.25
AM1550 B2RF	<b>1386</b>	42.65	1.10	4.50	26.65	84.73	6.90	5.18	9.48
ST 5288B2F	<b>1333</b>	43.58	1.14	4.80	27.73	85.10	7.18	4.80	9.33
FM 1944GLB2	<b>1320</b>	42.70	1.20	4.65	29.75	85.78	6.20	5.65	9.65
DP 1219 B2RF	<b>1308</b>	44.10	1.17	4.25	32.00	85.35	6.95	4.58	8.13
CT12214	<b>1300</b>	43.40	1.17	4.45	28.43	85.30	7.38	4.83	9.25
BX 1346GLB2	<b>1285</b>	42.18	1.17	4.48	31.13	85.20	7.35	5.40	9.73
DG 2595 B2RF	<b>1266</b>	44.95	1.15	4.63	29.55	85.00	6.98	4.60	8.60
DP 0912 B2RF	<b>1265</b>	42.50	1.13	4.93	29.40	85.40	7.25	5.20	9.23
DP 1311 B2RF	<b>1261</b>	45.65	1.13	4.65	27.25	85.50	7.33	4.68	8.00
DG 2570 B2RF	<b>1258</b>	42.75	1.13	4.63	29.98	85.28	7.50	5.40	9.30
PHY 375 WRF	<b>1249</b>	43.75	1.12	4.35	27.75	84.75	6.75	4.75	9.10
PX532211WRF	<b>1232</b>	41.38	1.18	4.15	29.05	85.90	6.98	4.60	9.08
DP 1359 B2RF	<b>1198</b>	45.55	1.15	4.33	30.00	86.05	6.78	4.53	8.45
PHY367WRF	1165	42.40	1.15	4.28	29.18	85.70	7.35	4.60	8.63
UA48	1159	39.73	1.28	4.95	35.63	87.10	6.83	5.75	10.95
DP 0920 B2RF	1153	44.28	1.15	4.73	26.83	84.98	6.88	4.75	8.78
DP 1044 B2RF	1137	41.65	1.11	4.28	26.75	84.28	7.33	4.30	8.40
CG 3787 B2RF	1105	44.45	1.12	4.48	28.65	85.65	7.63	4.73	8.75
DP 1034 B2RF	1082	44.43	1.14	4.48	28.35	86.03	7.45	4.78	8.55
MON 11R136B2R2	1053	42.85	1.20	4.03	29.55	86.68	6.98	4.73	8.33
BX 1348GLB2	1024	43.00	1.18	4.18	28.88	85.73	6.33	4.53	8.35
HQ 210 CT	1012	41.55	1.11	4.33	30.05	84.73	7.03	4.60	8.80
CG 3428 B2RF	986	43.68	1.18	4.55	28.25	86.65	7.15	4.28	8.78
DP 1133 B2RF	978	44.88	1.12	4.45	30.98	86.18	7.60	4.48	8.63
DG 2610 B2RF	973	43.80	1.14	4.08	28.43	85.68	7.43	4.40	8.83
NITRO 44 B2RF	972	41.25	1.20	3.58	31.55	86.03	7.20	4.60	9.98
LA 122	968	43.98	1.14	4.33	28.40	85.70	7.20	5.30	8.58
DP 1048 B2RF	966	44.30	1.14	4.15	27.65	85.83	7.28	4.23	8.70
UA 222	961	41.18	1.22	4.13	28.68	85.68	7.50	4.93	9.35
DP 1137 B2RF	955	44.23	1.13	4.25	28.73	85.68	7.63	4.78	8.75
DG 2530 B2RF	952	44.03	1.15	4.10	29.85	86.80	7.43	4.38	8.15
NGX 0012 B2RF	912	43.43	1.14	3.88	27.18	86.63	7.48	4.95	8.43
<b>Overall Mean</b>	1172	43.4	1.15	4.41	29.33	85.67	7.23	4.81	8.96
<b>LSD(0.05)</b>	250	1.17	0.03	0.29	1.62	1.088	0.33	0.48	0.71
<b>C.V. (%)</b>	14.87	1.92	1.8	4.63	3.95	0.91	3.3	7.09	5.62

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 12. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Tensas silty clay loam on Dale Pillow Farms near Schlater, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
NG 1511 B2RF	<b>1807</b>	41.63	1.17	5.00	30.15	85.48	7.03	5.80	10.33
PX433915WRF	<b>1804</b>	41.10	1.19	4.95	28.60	85.83	6.58	4.85	10.40
CG 3787 B2RF	<b>1775</b>	42.80	1.17	4.88	28.28	85.40	6.70	5.63	9.35
DP 1321 B2RF	<b>1767</b>	41.33	1.17	5.23	29.33	85.60	7.20	5.33	10.88
CT12214	<b>1749</b>	40.45	1.17	4.80	28.78	86.10	6.73	5.68	10.58
DP 1048 B2RF	<b>1699</b>	42.38	1.16	4.93	27.75	85.90	6.78	5.30	9.55
DP 1219 B2RF	<b>1670</b>	42.08	1.16	5.35	32.58	84.35	6.75	4.98	8.85
PHY 375 WRF	<b>1670</b>	41.50	1.16	4.95	29.83	84.88	6.53	5.23	10.33
DP 1137 B2RF	<b>1669</b>	43.30	1.12	5.05	27.13	85.28	6.70	5.45	9.75
UA 222	<b>1663</b>	40.75	1.21	5.10	29.93	85.63	7.00	5.63	11.48
BX 1348GLB2	<b>1660</b>	39.80	1.23	4.75	29.65	85.55	5.95	4.83	9.85
FM 1944GLB2	<b>1634</b>	39.33	1.23	4.98	32.18	86.03	6.03	5.48	10.73
DP 1311 B2RF	<b>1631</b>	43.00	1.12	5.10	27.13	84.38	6.78	5.00	8.78
DP 1359 B2RF	<b>1627</b>	43.18	1.16	5.33	30.50	84.60	6.80	5.25	9.68
MON 11R136B2R2	<b>1626</b>	38.75	1.26	4.83	32.55	87.18	6.68	5.43	10.15
BX 1346GLB2	<b>1614</b>	39.33	1.19	5.18	31.15	86.50	7.03	6.50	12.13
DP 0912 B2RF	<b>1613</b>	38.45	1.15	5.33	29.70	85.15	6.60	5.35	10.30
PX433906WRF	<b>1612</b>	41.20	1.20	4.83	31.25	86.25	6.85	5.13	9.88
PHY499WRF	<b>1602</b>	43.13	1.15	5.10	31.13	85.73	7.40	5.33	10.08
DP 0920 B2RF	<b>1599</b>	41.25	1.13	5.20	28.18	84.93	6.63	4.90	9.70
DP 1034 B2RF	<b>1599</b>	43.38	1.15	5.00	26.98	85.75	6.83	5.45	9.65
NGX 0012 B2RF	<b>1593</b>	42.60	1.16	4.90	27.93	85.25	7.05	5.38	9.88
DG 2570 B2RF	<b>1578</b>	41.55	1.14	5.20	30.13	86.10	7.15	5.80	10.68
DG 2595 B2RF	<b>1569</b>	40.33	1.19	5.40	30.40	85.70	6.65	4.98	10.65
ST 5288B2F	<b>1552</b>	39.83	1.16	5.20	27.98	83.98	6.33	5.30	9.88
AM1550 B2RF	<b>1499</b>	40.30	1.14	4.93	27.80	85.65	6.50	5.58	10.75
DP 1133 B2RF	1464	41.88	1.18	4.90	30.03	86.25	6.73	4.78	9.45
DP 1044 B2RF	1444	39.40	1.15	5.03	27.30	84.35	6.73	4.73	9.53
DG 2530 B2RF	1436	43.70	1.21	4.98	30.08	86.58	6.78	5.10	9.83
DG 2610 B2RF	1436	41.73	1.16	4.80	27.90	85.60	6.85	5.30	9.88
LA 122	1431	40.93	1.17	4.78	29.18	85.48	6.78	5.38	10.10
PX4339CBWRF	1431	40.55	1.21	4.68	30.45	86.28	6.85	4.90	9.85
HQ 210 CT	1333	39.13	1.16	4.85	31.33	85.30	6.73	5.03	10.25
CG 3428 B2RF	1314	41.33	1.20	4.90	28.48	85.68	6.68	4.83	9.35
PX532211WRF	1270	39.18	1.20	4.90	29.58	85.23	6.63	4.90	10.55
NITRO 44 B2RF	1199	36.75	1.23	4.45	32.13	86.28	6.80	5.28	11.13
PHY367WRF	1156	38.93	1.19	4.65	30.23	85.85	6.90	4.73	9.80
UA48	1120	37.13	1.28	5.30	37.90	87.85	6.85	6.25	12.83
<b>Overall Mean</b>	1550	40.88	1.78	4.99	29.78	85.63	6.75	5.28	10.18
<b>LSD(0.05)</b>	339	1.78	0.03	0.3	1.69	0.95	0.31	0.54	0.67
<b>C.V. (%)</b>	15.6	3.1	1.92	4.22	4.05	0.79	3.27	7.26	4.73

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 13. Mean yield performance and fiber characteristics for cotton varieties cultivated on an non-irrigated Commerce very fine sandy loam on Clark Carter Farms near Rolling Fork, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433906WRF	<b>1349</b>	39.75	1.22	3.95	30.08	86.88	6.55	4.98	9.73
PX433915WRF	<b>1250</b>	38.15	1.25	4.05	29.80	86.43	6.40	4.95	9.70
DG 2570 B2RF	<b>1236</b>	38.25	1.20	4.25	30.13	85.60	6.98	5.70	10.15
NG 1511 B2RF	<b>1234</b>	40.70	1.19	4.25	30.65	86.33	7.10	5.45	9.88
PHY367WRF	<b>1218</b>	38.25	1.19	4.03	30.08	85.50	6.80	4.50	9.68
CG 3787 B2RF	<b>1215</b>	39.93	1.22	3.95	29.48	86.13	7.20	5.18	9.73
PX4339CBWRF	<b>1212</b>	38.43	1.23	3.93	29.90	86.08	6.65	4.73	9.63
DP 1321 B2RF	<b>1199</b>	39.03	1.22	4.23	29.65	86.80	7.10	4.95	9.98
DP 1048 B2RF	<b>1193</b>	40.15	1.21	4.05	28.10	85.88	6.95	5.00	9.45
DP 0912 B2RF	<b>1190</b>	38.00	1.17	4.50	29.63	85.78	6.55	4.95	9.78
PHY 375 WRF	<b>1159</b>	39.65	1.17	4.18	28.73	85.05	6.38	4.90	9.43
ST 5288B2F	<b>1157</b>	38.30	1.21	4.20	28.93	84.85	6.83	5.03	9.00
PHY499WRF	<b>1147</b>	40.45	1.18	4.55	31.00	86.33	7.03	5.28	10.08
HQ 210 CT	<b>1123</b>	37.78	1.18	4.08	30.23	85.13	6.43	4.80	9.25
CT12214	1092	37.95	1.23	4.13	29.13	86.13	6.73	5.35	10.35
NITRO 44 B2RF	1073	36.70	1.27	3.63	31.90	86.58	6.58	5.15	10.80
DP 1133 B2RF	1065	40.08	1.22	3.88	30.23	86.63	6.85	4.40	8.75
DG 2530 B2RF	1061	39.90	1.26	3.85	30.38	86.08	6.70	4.53	8.95
NGX 0012 B2RF	1059	40.25	1.22	4.00	28.53	87.53	6.93	5.18	9.75
FM 1944GLB2	1058	36.38	1.27	4.10	32.45	86.65	6.10	5.90	10.83
DP 1311 B2RF	1050	39.73	1.19	3.93	28.48	85.25	6.58	4.45	8.43
AM1550 B2RF	1049	37.88	1.17	3.88	28.15	84.95	6.40	5.45	9.60
DG 2595 B2RF	1046	38.95	1.21	4.35	28.75	85.83	6.55	4.68	9.43
BX 1348GLB2	1043	37.90	1.27	3.95	29.45	85.88	5.90	4.60	9.38
DP 1034 B2RF	1027	39.40	1.21	3.85	29.48	86.00	7.03	4.90	9.13
CG 3428 B2RF	1021	39.25	1.26	3.80	29.63	86.35	6.70	4.70	9.10
DP 0920 B2RF	1008	39.33	1.19	4.45	27.25	85.53	6.30	4.50	9.18
PX532211WRF	988	36.25	1.26	3.90	28.88	86.48	6.50	5.20	10.45
DP 1359 B2RF	969	41.00	1.22	4.13	30.63	85.03	6.30	4.55	8.85
LA 122	958	38.88	1.23	3.85	28.95	85.68	6.80	4.88	9.50
DG 2610 B2RF	952	39.13	1.22	4.03	28.98	86.23	6.93	4.80	9.80
UA 222	939	37.75	1.26	4.43	29.55	86.15	6.90	5.53	11.10
DP 1219 B2RF	937	38.75	1.23	3.85	33.40	85.50	6.50	4.63	8.83
UA48	902	35.50	1.31	4.53	36.53	87.68	6.53	5.73	11.70
BX 1346GLB2	893	37.30	1.19	4.10	31.10	85.20	6.85	5.53	10.33
DP 1044 B2RF	892	37.63	1.18	4.03	29.65	84.98	6.80	4.53	9.10
DP 1137 B2RF	835	40.18	1.16	4.08	28.53	85.60	6.85	4.83	9.18
MON 11R136B2R2	754	37.43	1.27	3.73	31.80	86.25	6.50	4.65	8.95
<b>Overall Mean</b>	1070	38.69	1.22	4.06	29.95	85.97	6.68	4.97	9.65
<b>LSD(0.05)</b>	228	1.11	0.03	0.35	1.62	1.17	0.33	0.49	0.79
<b>C.V. (%)</b>	15.11	2.04	1.84	6.1	3.85	0.97	3.54	7.01	5.87

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 14. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Memphis silty loam on Pace Perry Farms near Senatobia, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
CG 3787 B2RF	<b>1456</b>	43.15	1.14	5.00	30.58	85.40	7.03	4.88	9.03
DP 1133 B2RF	<b>1436</b>	43.93	1.15	5.28	33.23	86.00	7.03	5.03	9.45
PHY499WRF	<b>1423</b>	45.55	1.12	5.05	32.80	85.13	7.43	4.65	9.28
DP 1048 B2RF	<b>1418</b>	43.07	1.16	4.97	29.90	85.97	6.60	4.87	9.30
NG 1511 B2RF	<b>1411</b>	44.25	1.16	5.03	32.68	85.70	7.23	5.40	10.45
DP 1321 B2RF	<b>1382</b>	43.10	1.15	5.08	32.25	85.80	7.58	5.10	10.23
PX433906WRF	<b>1381</b>	43.43	1.17	4.73	33.25	85.48	7.08	5.00	9.43
UA 222	<b>1354</b>	40.63	1.22	4.93	32.73	85.80	7.28	5.60	11.20
PHY 375 WRF	<b>1351</b>	43.10	1.11	4.83	29.63	85.23	6.48	4.75	9.75
PX4339CBWRF	<b>1344</b>	43.20	1.17	4.78	31.63	85.78	6.78	4.75	9.58
PX433915WRF	<b>1344</b>	42.80	1.18	4.68	31.23	84.95	6.63	4.50	9.43
DP 1034 B2RF	<b>1322</b>	43.30	1.14	5.08	29.70	85.58	7.03	4.40	9.18
DP 1137 B2RF	<b>1316</b>	43.78	1.13	5.00	29.63	84.65	6.88	4.88	9.40
NGX 0012 B2RF	<b>1307</b>	44.15	1.15	5.18	28.55	85.58	6.93	5.03	9.50
CT12214	<b>1306</b>	42.47	1.18	4.90	30.87	86.23	7.03	4.77	10.53
BX 1348GLB2	<b>1304</b>	41.48	1.19	4.83	29.28	85.23	5.85	4.43	9.80
DG 2610 B2RF	<b>1299</b>	43.28	1.16	4.95	29.90	85.90	7.15	4.95	9.48
LA 122	<b>1288</b>	43.00	1.16	4.85	29.93	84.98	6.65	4.93	9.73
DP 1311 B2RF	<b>1285</b>	44.45	1.12	4.85	28.45	84.55	6.68	4.88	8.28
DP 1219 B2RF	<b>1280</b>	42.35	1.16	4.95	34.45	84.90	6.63	4.65	9.08
DP 1359 B2RF	1277	43.08	1.14	5.20	32.60	84.60	6.58	4.30	8.53
DP 0912 B2RF	1257	41.38	1.13	5.03	32.00	84.90	6.88	4.80	9.88
AM1550 B2RF	1253	41.78	1.11	4.78	29.03	85.15	6.50	5.08	10.03
DP 0920 B2RF	1243	41.78	1.15	4.75	27.75	85.53	6.53	4.65	9.28
BX 1346GLB2	1241	41.30	1.17	4.68	33.08	85.80	7.23	5.73	11.28
CG 3428 B2RF	1227	43.05	1.18	5.20	30.13	85.08	6.85	4.40	9.48
DP 1044 B2RF	1209	40.10	1.15	4.58	30.70	84.55	7.03	4.58	9.38
DG 2595 B2RF	1207	42.18	1.17	5.38	31.98	84.93	6.98	4.73	9.78
PX532211WRF	1198	41.23	1.17	4.83	30.23	85.80	6.45	4.90	9.90
DG 2530 B2RF	1192	44.03	1.16	5.08	31.40	85.68	7.08	4.78	9.28
ST 5288B2F	1189	41.48	1.13	5.00	30.03	84.60	6.58	4.75	9.55
DG 2570 B2RF	1187	41.33	1.14	4.83	31.53	85.05	7.05	5.40	10.55
PHY367WRF	1167	41.33	1.16	4.65	30.38	84.75	6.85	4.20	9.38
NITRO 44 B2RF	1145	39.90	1.22	4.55	36.23	86.40	7.10	5.18	10.58
FM 1944GLB2	1133	39.85	1.20	4.75	32.73	84.95	6.13	4.98	10.95
HQ 210 CT	1106	40.03	1.17	4.70	33.95	84.38	6.88	5.03	9.83
MON 11R136B2R2	1102	40.80	1.19	4.78	32.68	85.60	6.80	4.93	9.70
UA48	1052	36.98	1.27	5.00	39.05	87.48	7.10	5.35	12.80
<b>Overall Mean</b>	1272	4.26	1.16	4.91	31.49	85.36	6.85	4.87	9.79
<b>LSD(0.05)</b>	177	1.34	0.03	0.27	1.46	1.04	0.32	0.52	0.74
<b>C.V. (%)</b>	9.81	2.24	1.81	3.93	3.28	0.86	3.34	7.58	5.39

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.



**Table 15. Mean yield performance and fiber characteristics for cotton varieties cultivated on an irrigated Sharkey Clay on George Perry Farms near Tunica, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1792</b>	41.08	1.20	5.50	30.10	87.15	7.33	5.18	11.03
PHY499WRF	<b>1703</b>	42.58	1.20	5.20	34.15	87.45	7.38	5.73	10.73
NG 1511 B2RF	<b>1687</b>	42.00	1.19	5.13	31.70	86.75	7.35	5.65	11.28
BX 1346GLB2	<b>1673</b>	39.30	1.20	5.33	32.60	86.35	7.18	6.33	12.35
ST 5288B2F	<b>1671</b>	39.95	1.20	5.35	29.58	85.58	6.70	5.43	9.48
DP 1044 B2RF	<b>1666</b>	39.38	1.19	5.08	30.10	86.58	7.18	5.08	10.20
UA 222	<b>1648</b>	38.68	1.28	5.08	31.53	87.98	7.40	5.93	12.13
PX4339CBWRF	<b>1606</b>	40.55	1.22	4.80	31.85	87.08	6.83	5.33	10.65
DP 0912 B2RF	1586	39.23	1.17	5.58	30.78	86.23	6.80	5.33	11.15
PHY 375 WRF	1541	41.93	1.18	5.10	30.83	86.58	6.83	5.28	10.73
CT12214	1540	39.78	1.20	4.93	29.85	86.68	7.03	5.20	11.20
PHY367WRF	1508	40.68	1.19	4.93	32.18	86.38	7.15	4.85	10.40
PX433906WRF	1493	40.13	1.24	4.85	31.58	87.50	6.88	5.35	10.48
PX433915WRF	1488	<b>40.10</b>	<b>1.22</b>	<b>4.83</b>	<b>31.83</b>	<b>86.73</b>	<b>6.93</b>	<b>5.20</b>	<b>10.48</b>
HQ 210 CT	1470	39.55	1.19	5.13	33.03	86.25	6.88	5.43	10.85
DP 0920 B2RF	1424	<b>40.30</b>	<b>1.20</b>	<b>5.40</b>	<b>29.85</b>	<b>86.40</b>	<b>6.63</b>	<b>5.63</b>	<b>10.38</b>
DG 2570 B2RF	1395	40.25	1.21	5.25	31.20	87.20	7.30	5.90	11.68
FM 1944GLB2	<b>1380</b>	<b>38.70</b>	<b>1.27</b>	<b>5.20</b>	<b>33.13</b>	<b>87.90</b>	<b>6.43</b>	<b>5.60</b>	<b>11.68</b>
LA 122	1347	40.55	1.21	4.70	30.88	87.13	6.95	5.43	10.35
CG 3787 B2RF	<b>1339</b>	<b>41.40</b>	<b>1.22</b>	<b>4.95</b>	<b>29.60</b>	<b>87.48</b>	<b>7.15</b>	<b>5.25</b>	<b>10.25</b>
AM1550 B2RF	1339	40.00	1.18	5.00	29.45	87.25	6.83	5.58	11.48
BX 1348GLB2	1331	<b>38.53</b>	<b>1.27</b>	<b>4.78</b>	<b>30.45</b>	<b>87.33</b>	<b>6.13</b>	<b>4.85</b>	<b>10.53</b>
DP 1311 B2RF	1275	40.80	1.20	4.88	29.65	86.63	6.75	4.78	9.60
DG 2595 B2RF	1247	40.45	1.22	5.33	32.15	87.03	6.83	5.23	10.95
DP 1137 B2RF	1221	40.78	1.18	5.05	30.83	86.63	6.95	5.73	10.73
DP 1133 B2RF	1216	41.38	1.19	4.90	32.55	87.28	7.10	4.98	9.95
DP 1034 B2RF	1211	40.83	1.21	4.83	29.50	86.73	7.08	5.45	10.63
PX532211WRF	1156	38.75	1.26	4.65	30.23	86.85	6.53	5.45	10.98
CG 3428 B2RF	1139	40.08	1.25	5.13	29.33	87.38	6.73	5.00	10.53
UA48	1105	35.95	1.32	5.45	38.75	88.93	7.00	5.70	13.18
DG 2530 B2RF	1092	40.35	1.24	4.95	31.95	88.15	6.90	5.48	10.85
DP 1048 B2RF	1084	40.80	1.20	4.80	29.18	86.55	6.88	5.15	10.53
MON 11R136B2R2	1083	38.78	1.29	4.83	33.10	87.98	6.85	5.10	10.85
NGX 0012 B2RF	1062	41.65	1.19	4.95	30.23	87.20	7.38	5.15	10.75
DP 1359 B2RF	1028	42.00	1.26	5.10	33.95	87.23	6.73	5.08	9.88
DP 1219 B2RF	1021	41.28	1.26	4.78	34.18	87.58	6.83	5.00	9.63
NITRO 44 B2RF	927	37.08	1.29	4.35	34.13	88.10	6.98	5.83	13.18
DG 2610 B2RF	861	38.68	1.22	4.80	31.70	86.98	7.23	5.35	11.38
<b>Overall Mean</b>	1352	40.11	1.22	5.02	31.51	87.08	6.94	5.37	10.87
<b>LSD(0.05)</b>	201	1.2	0.03	0.2	1.87	0.93	0.27	0.61	0.76
<b>C.V. (%)</b>	10.47	2.14	1.7	2.77	4.23	0.76	2.73	8.11	4.99

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 16. One year mean yield performance of varieties submitted to the New variety trial at 9 locations in Mississippi during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1512</b>	41.90	1.18	4.94	29.97	86.02	7.41	5.07	10.14
PX433906WRF	<b>1452</b>	41.34	1.21	4.57	31.08	86.22	6.94	4.96	9.68
PX433915WRF	<b>1429</b>	40.66	1.21	4.59	30.21	86.04	6.79	4.88	10.01
PX4339CBWRF	<b>1412</b>	40.93	1.21	4.55	30.68	86.26	6.89	4.94	9.78
CT12214	<b>1381</b>	40.75	1.20	4.60	29.45	86.27	7.05	5.25	10.47
DP 0912 B2RF	1369	40.11	1.16	5.09	29.98	85.67	6.86	5.15	10.09
PHY 375 WRF	1355	41.77	1.15	4.65	29.71	85.39	6.68	4.99	9.98
ST 5288B2F	1340	40.57	1.17	4.88	28.91	84.95	6.76	5.08	9.46
FM 1944GLB2	1302	39.58	1.24	4.74	32.00	86.33	6.21	5.54	10.76
BX 1346GLB2	1282	40.30	1.19	4.73	31.49	86.02	7.11	5.73	10.96
DP 1311 B2RF	1280	42.86	1.17	4.69	28.24	85.51	7.00	4.77	8.84
DG 2595 B2RF	1276	41.38	1.20	4.97	30.57	85.91	6.82	4.91	9.91
BX 1348GLB2	1263	40.11	1.23	4.53	29.63	85.83	6.06	4.74	9.75
CG 3428 B2RF	1233	41.67	1.22	4.73	29.04	86.39	6.86	4.69	9.41
NGX 0012 B2RF	1232	42.78	1.18	4.58	28.70	86.43	7.28	5.10	9.71
DP 1359 B2RF	1231	42.95	1.19	4.74	31.58	85.60	6.61	4.73	9.17
DG 2530 B2RF	1220	42.36	1.22	4.63	30.90	86.95	7.02	4.95	9.54
PX532211WRF	1161	39.47	1.23	4.41	29.33	86.26	6.66	5.02	10.23
LA 122	1138	41.45	1.18	4.52	29.27	85.75	6.96	5.15	9.81
NITRO 44 B2RF	1127	38.67	1.25	4.16	33.21	86.87	7.00	5.36	10.99
MON 11R136B2R2	1053	40.36	1.25	4.49	31.92	86.87	6.87	5.09	9.59
UA48	1001	37.16	1.30	5.11	37.42	87.80	6.78	5.72	11.90
<b>Overall Mean</b>	1278	40.88	1.21	4.67	30.58	86.15	6.84	5.08	9.99
<b>LSD(0.05)</b>	132	0.79	0.017	0.21	0.71	0.45	0.16	0.21	0.38
<b>C.V. (%)</b>	22.15	4.14	2.97	3.33	4.99	1.13	4.98	8.51	8.14

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 17. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Bosket very fine sandy loam at the Delta Research and Extension Center near Stoneville, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1276</b>	42.00	1.20	5.20	30.65	85.83	7.38	4.95	10.05
PX433906WRF	<b>1222</b>	41.50	1.19	4.65	30.95	85.23	6.75	4.55	9.48
DG 2595 B2RF	<b>1193</b>	41.98	1.22	5.15	32.73	86.48	6.83	5.10	10.20
PX433915WRF	<b>1172</b>	39.83	1.22	4.80	30.88	85.90	6.63	4.85	10.83
DP 1359 B2RF	<b>1164</b>	43.68	1.20	4.85	32.23	85.50	6.68	4.63	9.90
DP 0912 B2RF	<b>1156</b>	40.50	1.17	5.33	30.28	86.03	6.95	5.10	9.90
PX4339CBWRF	<b>1143</b>	39.95	1.23	4.70	30.98	85.98	6.55	5.10	10.20
ST 5288B2F	<b>1126</b>	41.10	1.19	5.08	29.55	84.55	6.65	5.10	9.50
CT12214	1103	40.05	1.23	4.80	31.38	86.65	7.08	5.23	10.90
PHY 375 WRF	1068	41.23	1.16	4.85	30.60	85.23	6.60	4.80	10.25
DP 1311 B2RF	1035	43.75	1.16	4.93	28.40	85.18	7.10	4.75	9.88
UA48	1021	36.60	1.30	5.35	38.13	87.53	6.83	5.35	10.90
LA 122	995	42.18	1.17	4.83	28.48	85.20	6.73	4.80	10.30
FM 1944GLB2	967	39.83	1.24	4.93	32.93	86.75	6.23	5.58	11.35
CG 3428 B2RF	962	41.37	1.22	5.03	30.00	86.63	6.97	4.80	9.77
BX 1346GLB2	940	40.50	1.22	4.98	32.53	85.95	7.08	5.33	10.68
BX 1348GLB2	922	40.50	1.23	4.65	29.95	85.35	6.05	4.65	10.10
DG 2530 B2RF	910	42.48	1.26	4.75	31.80	87.38	7.05	4.95	9.53
PX532211WRF	835	39.28	1.24	4.60	29.98	86.63	6.75	4.80	10.53
NITRO 44 B2RF	832	38.10	1.26	4.48	33.70	86.78	6.95	5.30	10.58
NGX 0012 B2RF	824	44.18	1.17	4.68	30.25	86.10	7.28	4.93	10.05
MON 11R136B2R2	757	41.65	1.25	4.93	32.38	87.40	6.90	5.35	9.78
<b>Overall Mean</b>	1025	41.00	1.21	4.88	31.32	86.09	6.81	5.00	10.21
<b>LSD(0.05)</b>	165	1.46	0.03	0.21	1.63	1.02	0.39	0.44	1.04
<b>C.V. (%)</b>	11.16	2.49	1.9	2.95	3.66	0.83	4.00	6.14	7.17

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 18. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Marietta fine sandy loam at the Main Campus Mississippi State University, near Starkville, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
CG 3428 B2RF	<b>1563</b>	43.15	1.25	4.50	28.83	87.00	7.23	4.60	9.48
DG 2530 B2RF	<b>1484</b>	43.00	1.26	4.20	31.80	88.20	7.53	5.10	9.93
PX4339CBWRF	<b>1481</b>	40.40	1.24	4.18	30.83	86.90	7.18	4.85	9.88
DP 1321 B2RF	<b>1475</b>	42.90	1.20	4.53	29.78	86.33	7.35	5.05	9.80
PX433906WRF	<b>1465</b>	40.68	1.25	4.20	30.15	86.38	7.10	4.78	9.83
NGX 0012 B2RF	<b>1451</b>	42.65	1.18	4.25	29.35	86.88	7.95	5.20	10.13
ST 5288B2F	<b>1430</b>	40.53	1.20	4.35	30.73	85.40	7.13	5.00	9.33
FM 1944GLB2	<b>1412</b>	40.25	1.27	4.28	33.13	86.93	6.70	5.65	10.93
PX433915WRF	1377	39.95	1.25	4.10	30.68	86.88	7.15	4.85	10.20
BX 1348GLB2	1326	40.13	1.27	3.80	30.65	86.30	6.55	4.70	9.93
NITRO 44 B2RF	1326	40.58	1.29	3.90	32.53	87.65	7.33	5.80	11.18
PX532211WRF	1309	39.58	1.28	3.78	28.80	87.38	6.88	4.75	10.20
DP 0912 B2RF	1307	40.75	1.19	4.55	31.43	86.45	7.15	5.20	10.00
PHY 375 WRF	1255	42.35	1.18	4.08	30.53	85.93	7.13	4.73	9.58
DP 1311 B2RF	1243	42.68	1.24	4.13	29.73	86.65	7.78	4.63	9.00
CT12214	1239	40.98	1.23	4.23	30.33	87.03	7.60	5.43	10.70
DG 2595 B2RF	1235	42.33	1.23	4.60	30.80	86.68	7.28	4.93	10.05
DP 1359 B2RF	1194	44.10	1.23	4.08	32.75	86.48	6.88	4.63	8.70
LA 122	1163	41.05	1.23	3.98	29.60	86.25	7.53	5.13	10.05
BX 1346GLB2	1142	41.13	1.23	4.20	30.78	86.70	7.38	5.38	10.73
MON 11R136B2R2	1093	42.83	1.25	4.15	32.65	88.00	7.63	5.43	9.33
UA48	894	37.75	1.33	4.93	37.90	88.95	7.25	6.05	12.53
<b>Overall Mean</b>	1312	41.35	1.24	4.23	31.07	86.88	7.26	5.08	10.06
<b>LSD(0.05)</b>	182	1.24	0.023	0.24	1.51	0.87	0.32	0.33	0.69
<b>C.V. (%)</b>	9.83	2.12	1.34	4.05	3.44	0.72	3.17	4.58	4.86

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 19. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Forestdale silty clay loam at the Tribbett Satellite Farm, near Tribbett, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1323</b>	41.25	1.16	5.28	29.38	84.83	7.45	5.05	9.85
BX 1346GLB2	<b>1311</b>	40.95	1.16	5.18	29.83	85.93	6.95	5.95	10.63
CT12214	<b>1297</b>	41.45	1.17	5.03	28.33	85.63	6.93	5.40	10.63
DP 1311 B2RF	<b>1271</b>	43.30	1.14	5.28	27.05	84.75	6.93	5.08	9.18
PX4339CBWRF	<b>1271</b>	41.30	1.21	5.08	30.68	85.83	6.83	5.08	9.60
PX433915WRF	<b>1244</b>	40.78	1.19	5.00	30.13	85.30	6.68	5.08	10.08
PHY 375 WRF	<b>1227</b>	41.40	1.13	4.98	29.18	84.93	6.60	5.25	10.55
PX433906WRF	<b>1202</b>	40.48	1.19	4.95	31.05	85.65	6.88	5.15	9.95
ST 5288B2F	<b>1193</b>	40.48	1.15	5.53	26.65	84.38	6.73	5.35	10.03
DG 2595 B2RF	<b>1184</b>	40.60	1.18	5.20	29.05	85.18	6.53	5.05	10.03
DP 0912 B2RF	1151	39.60	1.13	5.45	27.55	85.33	6.73	5.05	10.58
NGX 0012 B2RF	1145	43.10	1.17	4.98	27.98	85.80	7.33	5.08	9.83
FM 1944GLB2	1107	40.28	1.18	5.25	29.60	85.28	5.80	5.53	10.05
DG 2530 B2RF	1079	41.83	1.23	5.05	30.93	86.40	6.98	5.25	9.98
CG 3428 B2RF	1078	40.63	1.22	5.08	28.73	86.35	6.73	4.98	9.58
PX532211WRF	1000	39.15	1.22	4.65	29.08	85.13	6.60	5.23	10.68
DP 1359 B2RF	996	42.03	1.18	5.33	30.25	84.65	6.18	4.78	10.13
BX 1348GLB2	963	39.78	1.22	5.20	28.55	84.95	5.65	4.98	10.08
LA 122	958	41.05	1.17	4.88	28.75	85.63	7.05	5.38	9.88
NITRO 44 B2RF	937	37.85	1.23	4.48	33.38	86.40	7.03	5.65	10.90
MON 11R136B2R2	909	40.15	1.24	4.98	30.60	86.05	6.68	5.15	9.85
UA48	727	37.63	1.27	5.35	35.48	86.93	5.90	5.58	10.35
<b>Overall Mean</b>	1117	40.68	1.19	5.1	29.64	85.51	6.69	5.23	10.11
<b>LSD(0.05)</b>	165	1.39	0.03	0.23	1.43	0.89	0.44	0.42	0.98
<b>C.V. (%)</b>	10.45	2.42	1.87	3.3	3.42	0.74	4.76	5.63	6.89

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 20. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on a non-irrigated Leeper sitly loam at the North Mississippi Research and Extension Center, Verona, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433906WRF	<b>2027</b>	41.23	1.22	4.53	30.75	86.33	7.03	4.95	9.35
DP 1321 B2RF	1834	42.23	1.20	4.60	29.38	86.55	7.38	5.13	9.85
PX4339CBWRF	1824	40.80	1.22	4.43	29.28	86.43	7.08	4.95	9.50
DP 0912 B2RF	1798	40.63	1.16	5.10	29.03	85.75	6.85	5.35	10.03
BX 1348GLB2	1793	39.88	1.26	4.60	29.78	86.13	6.18	5.10	9.78
PX433915WRF	1788	40.48	1.22	4.38	28.20	86.78	6.78	4.83	9.70
CT12214	1786	40.68	1.22	4.23	28.30	86.73	6.93	5.25	10.13
PX532211WRF	<b>1776</b>	40.45	1.25	4.20	28.18	86.98	6.63	5.33	9.73
DG 2530 B2RF	1774	41.93	1.23	4.68	29.95	87.30	6.78	4.98	9.43
CG 3428 B2RF	1741	42.48	1.25	4.50	28.28	86.48	6.73	4.68	8.78
NGX 0012 B2RF	1737	42.98	1.21	4.40	28.33	86.90	7.20	5.03	9.05
NITRO 44 B2RF	1730	39.80	1.27	4.00	33.33	87.60	7.05	5.45	10.58
FM 1944GLB2	1704	38.88	1.26	4.50	32.13	86.73	6.25	5.53	10.65
PHY 375 WRF	1679	41.03	1.19	4.55	30.33	86.00	6.80	5.25	10.15
DP 1311 B2RF	1637	42.40	1.21	4.50	28.05	86.75	7.10	4.73	8.43
BX 1346GLB2	1614	40.70	1.22	4.43	31.25	86.58	6.95	5.43	10.78
DP 1359 B2RF	1611	41.93	1.23	4.35	31.35	86.25	6.55	4.80	8.45
ST 5288B2F	1564	39.93	1.20	4.43	29.05	86.10	6.73	4.98	9.10
DG 2595 B2RF	1539	40.65	1.22	4.73	29.75	86.43	6.75	4.93	9.48
MON 11R136B2R2	1365	40.05	1.28	4.20	31.95	86.68	6.83	5.08	9.40
<b>Overall Mean</b>	1716	40.95	1.23	4.47	29.83	86.57	6.83	5.08	9.62
<b>LSD(0.05)</b>	178	0.76	0.03	0.28	1.4	1.16	0.35	0.3	0.62
<b>C.V. (%)</b>	7.28	1.31	1.75	4.48	3.32	0.95	3.66	4.12	4.59

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 21. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an non-irrigated Dubbs very fine sandy loam on Cliff Heaton Farms near Clarksdale, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1557</b>	44.23	1.15	4.80	29.20	85.33	7.90	4.93	9.63
PX433906WRF	<b>1448</b>	43.73	1.19	4.48	30.65	86.28	7.40	4.78	9.05
PX4339CBWRF	<b>1394</b>	43.20	1.19	4.38	30.50	86.05	7.30	4.83	9.13
PX433915WRF	<b>1392</b>	42.80	1.18	4.53	30.60	85.63	7.33	4.80	9.25
FM 1944GLB2	<b>1320</b>	42.70	1.20	4.65	29.75	85.78	6.20	5.65	9.65
CT12214	<b>1300</b>	43.40	1.17	4.45	28.43	85.30	7.38	4.83	9.25
BX 1346GLB2	<b>1285</b>	42.18	1.17	4.48	31.13	85.20	7.35	5.40	9.73
DG 2595 B2RF	<b>1266</b>	44.95	1.15	4.63	29.55	85.00	6.98	4.60	8.60
DP 0912 B2RF	<b>1265</b>	42.50	1.13	4.93	29.40	85.40	7.25	5.20	9.23
DP 1311 B2RF	<b>1261</b>	45.65	1.13	4.65	27.25	85.50	7.33	4.68	8.00
PHY 375 WRF	1249	43.75	1.12	4.35	27.75	84.75	6.75	4.75	9.10
DP 1359 B2RF	1198	45.55	1.15	4.33	30.00	86.05	6.78	4.53	8.45
ST 5288B2F	1177	43.58	1.14	4.80	27.73	85.10	7.18	4.80	9.33
UA48	1159	39.73	1.28	4.95	35.63	87.10	6.83	5.75	10.95
MON 11R136B2R2	1053	42.85	1.20	4.03	29.55	86.68	6.98	4.73	8.33
BX 1348GLB2	1024	43.00	1.18	4.18	28.88	85.73	6.33	4.53	8.35
CG 3428 B2RF	986	43.68	1.18	4.55	28.25	86.65	7.15	4.28	8.78
NITRO 44 B2RF	972	41.25	1.20	3.58	31.55	86.03	7.20	4.60	9.98
LA 122	968	43.98	1.14	4.33	28.40	85.70	7.20	5.30	8.58
DG 2530 B2RF	952	44.03	1.15	4.10	29.85	86.80	7.43	4.38	8.15
PX532211WRF	913	41.38	1.18	4.15	29.05	85.90	6.98	4.60	9.08
NGX 0012 B2RF	912	43.43	1.14	3.88	27.18	86.63	7.48	4.95	8.43
<b>Overall Mean</b>	1184	43.25	1.17	4.42	29.56	85.84	7.12	4.85	9.044
<b>LSD(0.05)</b>	300	1.17	0.03	0.3	1.68	1.16	0.33	0.53	0.78
<b>C.V. (%)</b>	17.92	1.92	1.88	4.77	4.01	0.96	3.26	7.78	6.12

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 22. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an non-irrigated commerce very fine sandy loam on Clark Carter Farms near Rolling Fork, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433906WRF	<b>1349</b>	39.75	1.22	3.95	30.08	86.88	6.55	4.98	9.73
PX433915WRF	<b>1250</b>	38.15	1.25	4.05	29.80	86.43	6.40	4.95	9.70
PX4339CBWRF	<b>1212</b>	38.43	1.23	3.93	29.90	86.08	6.65	4.73	9.63
DP 1321 B2RF	<b>1199</b>	39.03	1.22	4.23	29.65	86.80	7.10	4.95	9.98
DP 0912 B2RF	<b>1190</b>	38.00	1.17	4.50	29.63	85.78	6.55	4.95	9.78
PHY 375 WRF	<b>1159</b>	39.65	1.17	4.18	28.73	85.05	6.38	4.90	9.43
ST 5288B2F	<b>1157</b>	38.30	1.21	4.20	28.93	84.85	6.83	5.03	9.00
CT12214	1092	37.95	1.23	4.13	29.13	86.13	6.73	5.35	10.35
NITRO 44 B2RF	1073	36.70	1.27	3.63	31.90	86.58	6.58	5.15	10.80
DG 2530 B2RF	1061	39.90	1.26	3.85	30.38	86.08	6.70	4.53	8.95
NGX 0012 B2RF	1059	40.25	1.22	4.00	28.53	87.53	6.93	5.18	9.75
FM 1944GLB2	1058	36.38	1.27	4.10	32.45	86.65	6.10	5.90	10.83
DP 1311 B2RF	1050	39.73	1.19	3.93	28.48	85.25	6.58	4.45	8.43
DG 2595 B2RF	1046	38.95	1.21	4.35	28.75	85.83	6.55	4.68	9.43
BX 1348GLB2	1043	37.90	1.27	3.95	29.45	85.88	5.90	4.60	9.38
CG 3428 B2RF	1021	39.25	1.26	3.80	29.63	86.35	6.70	4.70	9.10
PX532211WRF	988	36.25	1.26	3.90	28.88	86.48	6.50	5.20	10.45
DP 1359 B2RF	969	41.00	1.22	4.13	30.63	85.03	6.30	4.55	8.85
LA 122	958	38.88	1.23	3.85	28.95	85.68	6.80	4.88	9.50
UA48	902	35.50	1.31	4.53	36.53	87.68	6.53	5.73	11.70
BX 1346GLB2	893	37.30	1.19	4.10	31.10	85.20	6.85	5.53	10.33
MON 11R136B2R2	754	37.43	1.27	3.73	31.80	86.25	6.50	4.65	8.95
<b>Overall Mean</b>	1069	38.39	1.23	4.04	30.15	86.11	6.57	4.97	9.72
<b>LSD(0.05)</b>	224	1.09	0.3	0.36	1.7	1.25	0.36	0.52	0.76
<b>C.V. (%)</b>	14.72	2.01	1.7	6.29	3.98	1.03	3.9	7.41	5.56

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.



**Table 23. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Tensas silty clay loam on Dale Pillow Farms near Schlater, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
PX433915WRF	<b>1804</b>	41.10	1.19	4.95	28.60	85.83	6.58	4.85	10.40
DP 1321 B2RF	<b>1767</b>	41.33	1.17	5.23	29.33	85.60	7.20	5.33	10.88
CT12214	<b>1749</b>	40.45	1.17	4.80	28.78	86.10	6.73	5.68	10.58
PHY 375 WRF	<b>1670</b>	41.50	1.16	4.95	29.83	84.88	6.53	5.23	10.33
BX 1348GLB2	<b>1660</b>	39.80	1.23	4.75	29.65	85.55	5.95	4.83	9.85
FM 1944GLB2	<b>1634</b>	39.33	1.23	4.98	32.18	86.03	6.03	5.48	10.73
DP 1311 B2RF	<b>1631</b>	43.00	1.12	5.10	27.13	84.38	6.78	5.00	8.78
DP 1359 B2RF	<b>1627</b>	43.18	1.16	5.33	30.50	84.60	6.80	5.25	9.68
MON 11R136B2R2	<b>1626</b>	38.75	1.26	4.83	32.55	87.18	6.68	5.43	10.15
BX 1346GLB2	<b>1614</b>	39.33	1.19	5.18	31.15	86.50	7.03	6.50	12.13
DP 0912 B2RF	<b>1613</b>	38.45	1.15	5.33	29.70	85.15	6.60	5.35	10.30
PX433906WRF	<b>1612</b>	41.20	1.20	4.83	31.25	86.25	6.85	5.13	9.88
NGX 0012 B2RF	<b>1593</b>	42.60	1.16	4.90	27.93	85.25	7.05	5.38	9.88
DG 2595 B2RF	<b>1569</b>	40.33	1.19	5.40	30.40	85.70	6.65	4.98	10.65
ST 5288B2F	<b>1552</b>	39.83	1.16	5.20	27.98	83.98	6.33	5.30	9.88
DG 2530 B2RF	1436	43.70	1.21	4.98	30.08	86.58	6.78	5.10	9.83
LA 122	1431	40.93	1.17	4.78	29.18	85.48	6.78	5.38	10.10
PX4339CBWRF	1431	40.55	1.21	4.68	30.45	86.28	6.85	4.90	9.85
CG 3428 B2RF	1314	41.33	1.20	4.90	28.48	85.68	6.68	4.83	9.35
PX532211WRF	1270	39.18	1.20	4.90	29.58	85.23	6.63	4.90	10.55
NITRO 44 B2RF	1199	36.75	1.23	4.45	32.13	86.28	6.80	5.28	11.13
UA48	1120	37.13	1.28	5.30	37.90	87.85	6.85	6.25	12.83
<b>Overall Mean</b>	1542	40.44	1.19	4.98	30.21	85.74	6.86	5.29	10.34
<b>LSD(0.05)</b>	349	1.66	0.03	0.32	1.86	0.94	0.3	0.59	0.79
<b>C.V. (%)</b>	16.03	2.9	1.92	4.86	4.36	0.77	3.21	7.93	5.38

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 24. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Falaya silt loam on Pace Perry Farms near Senatobia, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	1382	43.10	1.15	5.08	32.25	85.80	7.58	5.10	10.23
PX433906WRF	1381	43.43	1.17	4.73	33.25	85.48	7.08	5.00	9.43
PHY 375 WRF	1351	43.10	1.11	4.83	29.63	85.23	6.48	4.75	9.75
PX4339CBWRF	1344	43.20	1.17	4.78	31.63	85.78	6.78	4.75	9.58
PX433915WRF	1344	42.80	1.18	4.68	31.23	84.95	6.63	4.50	9.43
NGX 0012 B2RF	1307	44.15	1.15	5.18	28.55	85.58	6.93	5.03	9.50
CT12214	1306	42.47	1.18	4.90	30.87	86.23	7.03	4.77	10.53
BX 1348GLB2	1304	41.48	1.19	4.83	29.28	85.23	5.85	4.43	9.80
LA 122	1288	43.00	1.16	4.85	29.93	84.98	6.65	4.93	9.73
DP 1311 B2RF	1285	44.45	1.12	4.85	28.45	84.55	6.68	4.88	8.28
DP 1359 B2RF	1277	43.08	1.14	5.20	32.60	84.60	6.58	4.30	8.53
DP 0912 B2RF	1257	41.38	1.13	5.03	32.00	84.90	6.88	4.80	9.88
BX 1346GLB2	1241	41.30	1.17	4.68	33.08	85.80	7.23	5.73	11.28
CG 3428 B2RF	1227	43.05	1.18	5.20	30.13	85.08	6.85	4.40	9.48
DG 2595 B2RF	1207	42.18	1.17	5.38	31.98	84.93	6.98	4.73	9.78
PX532211WRF	1198	41.23	1.17	4.83	30.23	85.80	6.45	4.90	9.90
DG 2530 B2RF	1192	44.03	1.16	5.08	31.40	85.68	7.08	4.78	9.28
ST 5288B2F	1189	41.48	1.13	5.00	30.03	84.60	6.58	4.75	9.55
NITRO 44 B2RF	1145	39.90	1.22	4.55	36.23	86.40	7.10	5.18	10.58
FM 1944GLB2	1133	39.85	1.20	4.75	32.73	84.95	6.13	4.98	10.95
MON 11R136B2R2	1102	40.80	1.19	4.78	32.68	85.60	6.80	4.93	9.70
UA48	1052	36.98	1.27	5.00	39.05	87.48	7.10	5.35	12.80
<b>Overall Mean</b>	1250	42.1	1.68	4.91	31.7	85.43	6.79	4.86	9.89
<b>LSD(0.05)</b>	172	1.24	0.03	0.25	1.62	1.11	0.31	0.6	0.81
<b>C.V. (%)</b>	9.64	2.05	1.81	3.59	3.58	0.91	3.24	8.63	5.78

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 25. Mean yield performance and fiber characteristics for NEW cotton varieties cultivated on an irrigated Sharkey clay on George Perry Farms Near Tunica, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
DP 1321 B2RF	<b>1792</b>	41.08	1.20	5.50	30.10	87.15	7.33	5.18	11.03
ST 5288B2F	<b>1671</b>	39.95	1.20	5.35	29.58	85.58	6.70	5.43	9.48
PX4339CBWRF	<b>1606</b>	40.55	1.22	4.80	31.85	87.08	6.83	5.33	10.65
DP 0912 B2RF	<b>1586</b>	39.23	1.17	5.58	30.78	86.23	6.80	5.33	11.15
PHY 375 WRF	<b>1541</b>	41.93	1.18	5.10	30.83	86.58	6.83	5.28	10.73
CT12214	<b>1540</b>	39.78	1.20	4.93	29.85	86.68	7.03	5.20	11.20
BX 1346GLB2	1497	39.30	1.20	5.33	32.60	86.35	7.18	6.33	12.35
PX433906WRF	1493	40.13	1.24	4.85	31.58	87.50	6.88	5.35	10.48
PX433915WRF	1488	40.10	1.22	4.83	31.83	86.73	6.93	5.20	10.48
FM 1944GLB2	1380	38.70	1.27	5.20	33.13	87.90	6.43	5.60	11.68
LA 122	1347	40.55	1.21	4.70	30.88	87.13	6.95	5.43	10.35
BX 1348GLB2	1331	38.53	1.27	4.78	30.45	87.33	6.13	4.85	10.53
DG 2595 B2RF	1247	40.45	1.22	5.33	32.15	87.03	6.83	5.23	10.95
PX532211WRF	1156	38.75	1.26	4.65	30.23	86.85	6.53	5.45	10.98
CG 3428 B2RF	1139	40.08	1.25	5.13	29.33	87.38	6.73	5.00	10.53
DP 1311 B2RF	1109	40.80	1.20	4.88	29.65	86.63	6.75	4.78	9.60
UA48	1105	35.95	1.32	5.45	38.75	88.93	7.00	5.70	13.18
DG 2530 B2RF	1092	40.35	1.24	4.95	31.95	88.15	6.90	5.48	10.85
MON 11R136B2R2	1083	38.78	1.29	4.83	33.10	87.98	6.85	5.10	10.85
DP 1359 B2RF	1028	42.00	1.26	5.10	33.95	87.23	6.73	5.08	9.88
NGX 0012 B2RF	948	41.65	1.19	4.95	30.23	87.20	7.38	5.15	10.75
NITRO 44 B2RF	927	37.08	1.29	4.35	34.13	88.10	6.98	5.83	13.18
<b>Overall Mean</b>	1324	39.8	1.23	5.02	31.68	87.17	6.84	5.33	10.95
<b>LSD(0.05)</b>	259	1.21	0.03	0.19	2.02	0.89	0.28	0.61	0.81
<b>C.V. (%)</b>	13.84	2.15	1.67	2.61	4.51	0.73	2.92	8.09	5.24

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Table 26. Mean yield performance and fiber characteristics for Commercial advanced strain (CAST) varieties cultivated on an irrigated Bosket very fine sandy loam at the Delta Research and Experiment Station near Stoneville, MS during 2012.**

Variety	Measurement								
	Lint Yield†	Lint	Length	Mic.	Strength	Uniform	Elong	Ind. Boll Weight	100 seed Weight
	(lb/ac)	(%)	(in.)	----	(g/tex)	(%)	(%)	(g)	(g)
ST 5288B2F	<b>1124</b>	40.23	1.19	5.20	29.68	84.20	7.08	4.75	9.15
DP 0912 B2RF	<b>1013</b>	40.15	1.16	5.23	31.08	85.35	7.30	5.05	10.48
981221501 B2RF	<b>994</b>	40.25	1.23	4.83	35.03	86.60	7.18	5.65	11.15
PHY 375 WRF	944	40.65	1.17	4.78	29.70	85.00	6.93	4.83	10.38
DREC 08-283	943	39.40	1.17	5.00	28.88	84.03	6.60	5.38	11.68
PX4433WRF-14	928	40.33	1.19	4.85	31.00	85.15	7.88	4.40	9.48
CR106466 B2RF	923	38.13	1.15	4.75	28.83	84.23	6.75	5.73	10.73
PX5277WRF-06	913	41.08	1.23	4.95	31.50	86.45	7.68	4.70	9.75
CR103233 B2RF	905	41.05	1.20	4.85	29.50	85.10	7.20	5.08	9.45
DREC 08 30ne	899	41.03	1.13	5.65	33.98	83.93	7.68	5.23	9.75
DREC 08-263	895	37.70	1.24	4.90	33.78	85.83	6.93	5.43	11.73
9CR253 B2RF	850	41.70	1.17	5.43	32.88	85.90	7.15	5.08	10.28
PX5277WRF-02	847	40.70	1.19	5.13	30.68	85.58	7.80	4.35	10.38
PX3122WRF-40	844	37.63	1.22	4.63	31.05	85.48	7.48	5.10	9.48
PX5409WRF-03	827	38.13	1.23	4.83	29.93	85.65	7.50	4.90	9.45
PX5403WRF-05	624	41.03	1.17	4.68	34.30	86.23	7.63	4.63	8.90
<b>Overall Mean</b>	909	39.94	1.19	4.98	31.36	85.29	7.30	5.02	10.14
<b>LSD(0.05)</b>	144	1.24	0.037	0.22	1.50	0.99	0.26	0.47	0.67
<b>C.V. (%)</b>	10.90	2.17	2.16	3.15	3.35	0.81	2.52	6.58	4.65

† Lint yields in bold type within a column are not significantly different from the numerically greatest yielding variety.

**Appendix 1. Dates of agronomically important events for all cotton variety trials and locations in Mississippi during 2012.**

Event	Location and soil texture†								
	Clarksdale FSL	Rolling Fork VFSL	Schlater SCL	Senatobia SL	Starkville FSL	Stoneville VFSL	Tribbett SCL	Verona SL	Tunica LSCL
	-----Month/day-----								
<b>Planting Date</b>	5/29	5/16	4/26	4/24	5/25	5/23	4/27	5/16	4/19
<b>Irrigation</b>	No	No	Yes	No	No	Yes	Yes	No	No
<b>N application</b>	6/18, 7/13	7/16	5/15	5/7	3/29, 4/27, 6/25	6/20	4/26, 6/20	6/21	3/4, 5/7
<b>Pre Herbicide</b>	3/20, 5/12, 5/29	2/27, 5/1, 5/16	4/26	2/16, 3/21, 4/24	3/6, 5/7, 5/25	4/25, 5/15, 5/23	3/28, 4/20, 4/27	3/19, 5/5, 5/17	2/15, 3/4, 3/29, 4/18
<b>Early Post Herbicide</b>	7/18, 7/25		6/5	6/11	7/25	6/27	6/18, 6/22	6/7, 7/11	5/30
<b>Layby Herbicide</b>	7/26	5/18	6/18	6/28	8/16	7/19	6/28	7/19	6/15
<b>Early Insecticide</b>	6/7, 6/16, 6/30	6/23, 6/28	5/16	6/6		6/27	5/16, 5/26	5/16	6/8, 6/20
<b>Mid Insecticide</b>	7/6, 7/13, 7/18, 7/25, 7/30	7/6, 7/16, 7/26		7/30	7/30	7/5, 7/19, 7/26	6/8, 6/20, 6/27, 7/3	6/29	7/5, 7/16
<b>Late Insecticide</b>	8/7, 8/14	8/13/201	8/20			8/5, 8/17, 8/28	7/25, 8/10	8/2, 8/7	8/21
<b>PGR</b>		7/16			8/16	7/26	6/21	7/19, 7/24 9/25,	
<b>Harvest Aid</b>	10/3, 10/10	9/24, 10/17	9/11	9/6	10/17	10/9	9/10, 9/21	10/11	9/26
<b>Harvest</b>	10/24	10/25	10/17	9/24	11/14	10/22	10/24	10/17	10/16

† FSL = Fine sandy loam, VFSL = Very-fine sandy loam, SCL = Silty clay loam, SL = Silt loam, LSCL=Leeper silty clay loam

‡ Starkville location was irrigated once within a week of planting due to concerns with obtaining a uniform stand

