

2014

Cotton Varieties for Louisiana

Variety Trials and On-Farm Demonstrations



LSU
AgCenter
Research & Extension

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Introduction

Scientists with the LSU AgCenter annually evaluate cotton varieties at four locations that are representative of Louisiana's cotton-producing regions.

Those are the LSU AgCenter's Red River Research Station at Bossier City, Dean Lee Research Station at Alexandria, Macon Ridge Research Station at Winnsboro and Northeast Research Station at St. Joseph.

Cotton varieties are managed using practices that follow LSU AgCenter recommendations and demonstrate commercial operations as closely as possible. All entries in the trials are replicated four or five times, and results are compiled for average performance after one or two years of testing.

Choosing Varieties

Variety selection is one of the most important decisions a cotton producer will make for the entire growing season. The variety and its associated traits set the stage for harvest at the time of planting. All other input decisions affect the performance of the variety selected.

Variety selection has become increasingly important since the introduction of transgenic cottons and the accompanying increases in seed costs and associated technology fees. Moreover, variety selection is the one decision a producer makes that is not influenced by environmental factors. Therefore, choosing a high-yielding variety with acceptable fiber quality that is adapted to local growing conditions should be considered carefully because of the tremendous importance the decision plays for the entire season.

Choosing a cotton variety can be difficult, and the availability of different transgenic traits often complicates the process. The more informed the decision the better. This publication therefore strives to provide growers as much information as possible concerning cotton variety performance over a range of soil textures and conditions. The information reported concerning measured performance of cotton varieties in Louisiana should be useful as a primary source of information for choosing varieties.

Producers should be mindful that these LSU AgCenter official variety trials can never identify the best single variety for soils and conditions. As such, producers should plant multiple varieties that are selected from the top performers in the variety trials closest to their production region. This strategy will help mitigate risks from adverse environmental conditions.

There are always differences in performance of individual varieties from one year to the next. In most years, however, those among the top 10 percent of the highest-yielding varieties generally remain there for several seasons. The best variety for a particular farm likely resides among the top yielders in the official variety trials, but no one can be certain which of those top-yielding varieties will be the highest yielder for the upcoming year. This actually is a good thing because it gives producers the option to select from as many as five to 10 varieties with different traits, knowing that one of those may be the best for next year's crop.

The majority of a grower's acreage should be devoted to proven varieties. Newer varieties should be evaluated on limited acreage until further testing is completed.

Fiber Properties

Fiber quality has become a more important consideration in marketing cotton and choosing varieties. Because the domestic textile industry has become very limited, most U.S. cotton is exported to foreign mills that generally demand cotton with the most consistent and highest fiber quality properties.

The quality of Louisiana cotton has been a concern in recent years, particularly with regard to high micronaire. While premiums are small, discounts for high micronaire and other factors can be significant. Variety selection plays the largest role in fiber properties and is increasingly important for U.S. cotton to maintain and increase presence in the world market.

Fiber parameters in the LSU AgCenter's official variety trials were determined with the same high-volume-instrumentation classing system used by the U.S. Department of Agriculture's classing offices. Physical properties, including staple length (reported as the upper half mean length), fiber strength, uniformity index and micronaire were evaluated and are reported for each variety. Other fiber properties, such as leaf, trash and color grades, can be influenced by defoliation, ginning and seed cotton storage in modules. Official variety trial results may not be representative of commercial operations for those fiber properties. Therefore, those properties are not reported in this publication.

Using the Data

Yield should be the primary factor when selecting a variety, followed by fiber quality and maturity. Top-yielding varieties should be considered first.

There often is no statistical difference between the top-yielding varieties in a given trial. The least significant difference reported below each table is the smallest difference in yield that can be considered a "true" difference.

The most important factor is not the absolute number reported for a cotton variety's yield or fiber quality. The most important question to consider is "How did a variety yield in relation to other varieties in the same trial?" Another important number to look for is the average yield from the variety trials. Considering a variety's performance compared to the average for the entire trial will help identify varieties that are above average for a given location.

Cotton varieties should be chosen by considering their performance across several locations and multiple years of testing. Superior performance in one year often can indicate a good variety, but superior performance over multiple years indicates consistency and reliability. Varieties currently are introduced at a rapid pace and have shorter life spans than in the past, so information about some of the newest varieties often is not available for multiple years. For those new varieties that do not have multiyear performance records, it is best to consider performance averaged across several locations during a variety's first year of testing.

Grower experience with a variety is important for several reasons. Cotton varieties have different growth habits and can be locally adapted to a small area. Experience with a variety should be considered, but newer varieties that perform well in the official variety trials also should be considered.

Selecting Varieties

The LSU AgCenter identifies the top tier of high-yielding varieties at each location by the use of a statistical test called the “least significant difference.” A probability level of 5 percent is used, which means the test correctly identifies variety performance for that location with 95 percent certainty.

The group of varieties that is statistically the highest yielding is shown in each table in bold print. To identify promising varieties that are new to the market and have only one year of testing in the LSU AgCenter’s official variety trials, a multilocation analysis should be performed. Producers should review the data tables for variety performance at the closest location that is most representative of their individual farms and also review statewide multilocation yield averages for consistency of performance over a range of environments.

Transgenic Traits

Roundup Ready: Transgenic traits are available for glyphosate tolerance, usually indicated by Roundup Ready Flex (sometimes shown simply as “RF” or “F”). The Flex varieties have been available commercially since 2006 and completely replaced the older Roundup Ready (“R” or “RR”) varieties. Roundup Ready Flex varieties exhibit increased tolerance, particularly in the fruiting stage, to glyphosate applications.

Roundup Ready Flex labeling allows over-the-top applications of glyphosate to Flex varieties into the bloom stage and does not restrict contact with the stem for directed applications. Read and follow the label closely for specific restrictions, and be sure to consult the label for the specific glyphosate formulations permitted for use on Roundup Ready Flex varieties.

Weed control is a major factor in producing high-yielding, high-quality cotton. Because of the increased flexibility of applying glyphosate over the top to Roundup Ready Flex varieties, some growers may opt to wait until weeds emerge and gain some size before making applications. This is not recommended, however, particularly for early season weed control. Early weed competition can severely reduce yield.

Glyphosate is very effective on a wide range of species, particularly when they are small. Applications should be timed to weed size and not other factors. Even more, reliance on one mode of action for weed control is not recommended and has led to herbicide-resistant weeds.

Due to the concerns with glyphosate-resistant weeds, the use of other herbicides in addition to glyphosate is strongly encouraged. Growers should note that glyphosate-resistant Palmer amaranth was identified in Louisiana in 2009, and resistant Johnson grass in 2010. Consult the LSU AgCenter’s 2014 Louisiana Suggested Chemical Weed Management Guide for more information.

Liberty Link: Varieties with the designation “LL” in their brand names are transgenic varieties tolerant to over-the-top application of Liberty (glufosinate). These varieties can be managed in a Liberty Link weed control program, which is covered in more detail in the LSU AgCenter’s 2014 Louisiana Suggested Chemical Weed Management Guide publication.

Liberty Link cotton is tolerant to Liberty herbicide but will be injured by applications or drift from glyphosate. On farms

or in areas where Liberty Link cotton is grown near Roundup Ready Flex cotton, care should be taken to avoid confusion of the herbicide systems and to reduce the potential for mistaken applications or drift.

Glytol Liberty Link: Varieties with the designation “GL” in their brand names are transgenic varieties tolerant to over-the-top application of both glyphosate and glufosinate. These varieties offer potential to alternate from one class of chemistry to another, particularly where producers are concerned about herbicide-resistant weed populations.

In any case, weeds still should be controlled early, when weeds are small and actively growing. Producers are cautioned to avoid late, low-dose applications of these nonselective herbicides when existing weeds are large and well developed.

Bollgard 2: Varieties with the designation “B2” or “BG2” in their brand names are cotton lines that are tolerant to the Louisiana caterpillar pest known as the tobacco budworm. After the successful introduction of Bollgard 2 technology into the market, the U.S. Environmental Protection Agency in 2010 required that all Bollgard-only technology be prohibited from future planting due to its single-gene-site activity.

Varieties that include Bollgard 2 technology should not need any supplemental insecticide sprays for control of tobacco budworms. They also are tolerant to the bollworm, soybean looper, fall armyworm and beet armyworm. For those and other caterpillar pests, note that supplemental chemical control strategies will be necessary to provide satisfactory management with high and persistent populations. In addition, the insecticidal traits in Bollgard 2 varieties have no activity against noncaterpillar pests such as thrips, aphids, plant bugs, stink bugs and spider mites. Those pests must be managed with conventional integrated pest management practices.

Widestrike: PhytoGen varieties with the designation “W” or “WS2” in their brand names are cotton lines that are tolerant to the Louisiana caterpillar pests known as tobacco budworms and fall armyworms. These varieties should not need any supplemental insecticidal sprays for control of those pests. The characteristics and insect management recommendations previously mentioned for Bollgard 2 traits remain the same for the Widestrike trait in PhytoGen varieties.

Root knot nematode: During 2014, several companies are marketing cotton varieties with tolerance to the root-knot nematode. This is not transgenic technology. Planting of these varieties on sandier soils with known root-knot nematode populations is a new option, especially with the loss of Temik.



Seeding Rate and Stand

Two to three plants per foot of row is the ideal final plant population in 30- to 40-inch rows. To achieve this “stand,” seeding rates should be slightly higher based on the actual stated germination.

Seed sizes vary, and the number of cotton seeds per pound ranges from a low of 3,700 up to a high of 5,800. Therefore, seeding rates have to be based on seed numbers per acre and not pounds of seed per acre.

To ensure the best seedling emergence, planting should be scheduled during the most favorable conditions possible based on existing and forecast temperatures and soil moisture levels.

Being aware of the cool germination test results is more important than determining what actually is a good or bad cool germination rate, however. For example, a seed lot with 85 percent cool germination is more vigorous than one with a 65 percent cool germination test result. If the 65 percent cool germination lot is planted in warm and otherwise good conditions, however, overall germination is likely to be as high as the 85 percent lot. Under adverse conditions, the 85 percent cool germination lot is likely to germinate at a much higher rate than the 65 percent cool germination lot. A somewhat arbitrary division of the cool germination test results is shown in the following table:

Cool Germination %	Vigor
>80	Excellent
65-80	Good
50-65	Acceptable – plant under good conditions
<50	Poor – most seed companies will not sell this seed

Most planting date studies indicate the ideal planting window in Louisiana for cotton is between April 15 and May 15. Earlier plantings are possible without causing significant yield loss, but there is the risk of cold damage or reduced ability of the plants to recover from thrip pressure. Two LSU AgCenter planting date studies have demonstrated that planting after June 1 can reduce yield potential significantly.

Most cotton seed sold will have at least an 80 percent germination reported on the bag. This is the result of the warm germination test. Field conditions, however, typically are more adverse than laboratory tests. The cool germination test can approximate adverse field conditions and is a measure of seed vigor. Results from the cool germination test are not reported on the bag but can be obtained from the seed company. Growers are encouraged to request this information.

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

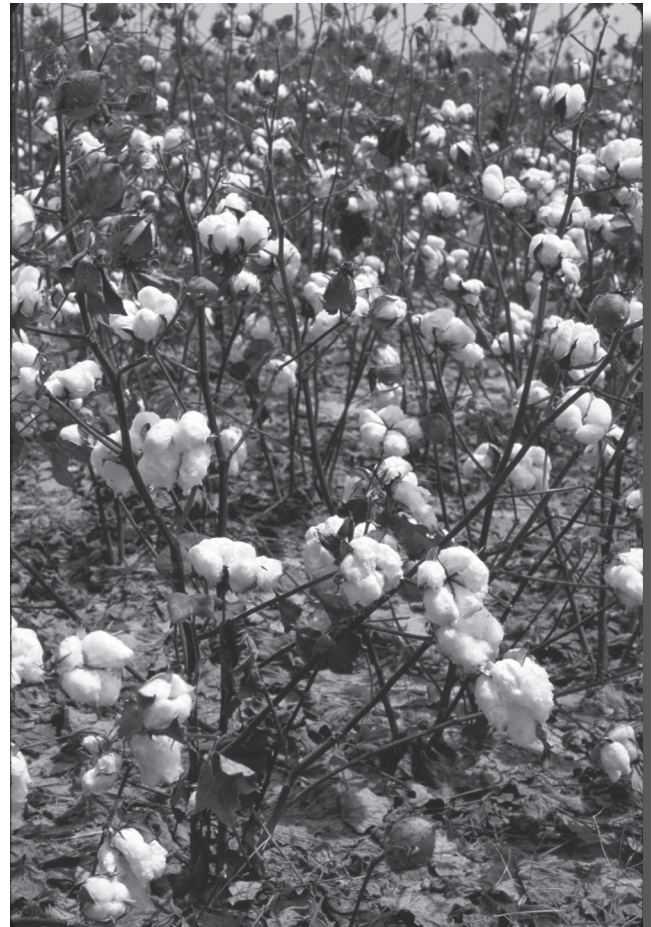


Table 1. Two-year yield performance of early maturing cotton varieties cultivated in a nonirrigated environment at two locations during 2012-2013.

Variety	Location and soil texture						Average across locations and years
	Alexandria				St. Joseph		
	Clay		Silt loam		Silt loam		
	2012	2013	2012	2013	2012	2013	
Pounds of lint/acre							
NG 1511 B2RF	1,377	1,694	1,320	1,628	902	1,722	1,440
DP 0912 B2RF	1,383	1,699	1,226	1,575	1,089	1,517	1,415
PHY 339 WRF	1,581	1,578	1,682	1,203	868	1,460	1,395
DP 1321 B2RF	1,441	1,365	1,328	1,576	792	1,846	1,391
ST 5288 B2RF	1,242	1,602	1,417	1,417	842	1,779	1,383
DP 1311 B2RF	1,463	1,555	1,468	1,490	959	1,361	1,382
ST 4946 GLB2	1,206	1,807	1,172	1,605	767	1,545	1,350
PHY 499 WRF	1,434	1,675	1,283	1,410	847	1,413	1,344
UA 222	1,264	1,594	1,220	1,649	854	1,397	1,330
FM 1944 GLB2	1,390	1,471	1,208	1,496	832	1,434	1,305
CROPLAN 3428 B2R	1,343	1,426	1,400	1,381	844	1,081	1,246
HQ 210 CT	1,094	1,662	1,121	1,279	631	1,225	1,169
Mean	1,351	1,594	1,320	1,476	852	1,482	1,346

Table 2. Two-year yield performance of early maturing cotton varieties cultivated in an irrigated environment at three locations during 2012-2013.

Variety	Location and soil texture						Average across locations and years
	Bossier City		St. Joseph		Winnsboro		
	Silt loam		Clay		Silt loam		
	2012	2013	2012	2013	2012	2013	
Pounds of lint/acre							
CROPLAN 3428 B2RF	1,694	1,432	996	1,476	1,312	1,896	1,468
DP 0912 B2RF	1,478	1,509	1,062	2,093	1,370	2,346	1,643
DP 1311 B2RF	1,686	1,344	1,035	1,788	1,668	2,206	1,621
DP 1321 B2RF	1,570	1,618	944	2,063	1,350	2,250	1,633
FM 1944 GLB2	1,387	1,370	898	1,742	1,403	2,086	1,481
HQ 210 CT	1,386	1,495	748	1,500	1,179	1,857	1,361
NG 1511 B2RF	1,714	1,777	952	1,793	1,450	2,190	1,646
PHY 339 WRF	1,624	1,607	983	1,929	1,577	2,236	1,659
PHY 499 WRF	1,617	1,750	1,006	2,051	1,596	2,302	1,720
ST 4946 GLB2	1,472	1,467	888	1,951	1,335	2,468	1,597
ST 5288 B2RF	1,346	1,216	957	2,010	1,386	2,092	1,501
UA 222	1,525	1,089	955	2,018	1,310	2,273	1,528
Mean	1,542	1,473	952	1,868	1,411	2,184	1,572

Table 3. One-year yield performance of early maturing varieties cultivated in a nonirrigated environment at two locations during 2013.

Variety	Location and soil texture			Average across locations
	Alexandria		St. Joseph	
	Clay	Silt loam	Silt loam	
	Pounds of lint/acre			
PX3122B51WRF	1,792	1,761	1,786	1,780
PX375001WRF	1,877	1,749	1,468	1,698
NG 1511 B2RF	1,694	1,628	1,722	1,681
ST 4946 GLB2	1,807	1,605	1,545	1,652
PHY 333 WRF	1,741	1,602	1,595	1,646
PX445022WRF	1,786	1,567	1,508	1,620
PX553840WRF	1,776	1,544	1,511	1,611
ST 5288 B2RF	1,602	1,417	1,779	1,599
MON12R224B2R2	1,705	1,612	1,476	1,598
DP 0912 B2RF	1,699	1,575	1,517	1,597
PHY 427 WRF	1,696	1,552	1,543	1,597
DP 1321 B2RF	1,365	1,576	1,846	1,596
UA 222	1,594	1,649	1,397	1,547
PHY 417 WRF	1,622	1,478	1,539	1,547
PHY 339 WRF	1,578	1,603	1,460	1,542
PX444414WRF	1,720	1,426	1,410	1,519
PX300304WRF	1,553	1,528	1,424	1,501
PHY 499 WRF	1,675	1,410	1,413	1,499
PHY 599 WRF	1,663	1,512	1,235	1,470
DP 1311 B2RF	1,555	1,490	1,361	1,468
FM 1944 GLB2	1,471	1,496	1,341	1,436
PHY 575 WRF	1,584	1,476	1,141	1,400
HQ 210 CT	1,662	1,279	1,225	1,389
CROPLAN 3428 B2RF	1,426	1,381	1,081	1,296
Overall Mean	1,652	1,538	1,472	1,554
LSD(.05)	214	144	259	
C.V. (%)	9.2	6.6	12.5	

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 4. One-year yield performance of early maturing varieties cultivated in an irrigated environment at three locations during 2013.

Variety	Locations and soil texture				Average across locations
	Bossier City		St. Joseph	Winnsboro	
	Clay	Silt loam	Clay	Silt loam	
	Pounds of lint/acre				
PX3122B51WRF	1,454	1,579	2,319	2,634	1,996
PHY 499 WRF	1,686	1,750	2,051	2,302	1,947
PX444414WRF	1,945	1,614	2,024	2,047	1,907
PX375001WRF	1,337	1,659	2,031	2,489	1,879
PX445022WRF	1,648	1,646	1,786	2,338	1,855
NG 1511 B2RF	1,480	1,777	1,793	2,190	1,810
PHY 333 WRF	1,370	1,608	1,808	2,439	1,806
DP 1321 B2RF	1,282	1,618	2,063	2,250	1,803
PHY 339 WRF	1,424	1,607	1,929	2,236	1,799
DP 0912 B2RF	1,112	1,596	2,093	2,346	1,787
ST 4946 GLB2	1,254	1,467	1,951	2,468	1,785
PHY 417 WRF	1,271	1,181	2,075	2,450	1,744
MON 12R224 B2R2	1,251	1,316	1,855	2,439	1,715
DP 1311 B2RF	1,522	1,344	1,788	2,206	1,715
ST 5288 B2RF	1,459	1,216	2,010	2,092	1,694
PX300304WRF	1,322	1,069	1,969	2,375	1,684
PHY 599 WRF	1,586	1,480	1,782	1,735	1,646
UA 222	1,160	1,089	2,018	2,273	1,635
FM 1944 GLB2	1,246	1,370	1,742	2,086	1,611
PHY 575 WRF	1,334	1,514	1,757	1,800	1,601
HQ 210 CT	1,098	1,495	1,500	1,857	1,488
PHY 427 WRF	1,029	1,138	1,692	1,960	1,455
CROPLAN 3428 B2RF	907	1,432	1,476	1,896	1,428
Overall Mean	1,356	1,459	1,892	2,213	1,730
LSD(0.05)	259	285	406	525	
C.V.(%)	13.5	13.8	15.2	16.8	

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 5. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a nonirrigated Latanier clay at the Dean Lee Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
PX375001WRF	1,877	44.9	1.13	82.75	33.25	6.95	4.85	7.65
ST 4946 GLB2	1,807	43.3	1.16	84.20	35.35	7.10	4.90	7.10
PX3122B51WRF	1,792	45.1	1.19	83.85	33.45	6.65	4.60	7.05
PX445022WRF	1,786	42.3	1.16	84.55	35.70	6.90	4.75	6.70
PX553840WRF	1,776	41.6	1.16	84.05	33.00	6.35	4.85	6.95
PHY 333 WRF	1,741	45.5	1.20	84.10	32.90	6.50	4.65	7.15
PX444414WRF	1,720	43.4	1.17	84.25	33.45	7.20	4.45	7.40
MON 12R224 B2R2	1,705	42.3	1.16	84.40	31.70	6.45	4.40	7.25
DP 0912 B2RF	1,699	41.8	1.13	83.80	32.40	6.50	5.30	6.90
PHY 427 WRF	1,696	43.7	1.16	84.20	33.55	7.20	4.60	7.40
NG 1511 B2RF	1,694	45.6	1.16	84.10	34.15	7.20	4.80	7.25
PHY 499 WRF	1,675	44.6	1.16	85.25	34.40	7.05	4.75	6.70
PHY 599 WRF	1,663	46.0	1.14	84.60	34.25	7.25	4.85	6.70
HQ 210 CT	1,662	43.0	1.14	83.10	33.60	7.15	4.85	8.30
PHY 417 WRF	1,622	44.9	1.13	83.15	33.10	7.40	4.45	7.25
ST 5288 B2RF	1,602	41.5	1.14	82.80	32.45	6.75	4.90	7.75
UA 222	1,594	43.0	1.17	83.65	33.05	7.60	5.05	6.90
PHY 575 WRF	1,584	42.0	1.20	83.90	31.90	7.80	4.55	7.25
PHY 339 WRF	1,578	43.5	1.20	84.20	33.65	7.30	4.40	6.90
DP 1311 B2RF	1,555	44.7	1.14	83.25	32.90	7.55	4.90	7.10
PX300304WRF	1,553	42.1	1.19	84.05	34.40	5.90	4.65	6.90
FM 1944 GLB2	1,471	40.7	1.21	84.15	32.60	5.40	4.60	7.30
CROPLAN 3428 B2RF	1,426	44.2	1.20	83.95	31.50	7.50	4.90	6.50
DP 1321 B2RF	1,365	43.5	1.14	84.10	33.25	7.50	4.95	7.20
Grand Total	1,652	43.5	1.16	83.93	33.33	6.96	4.75	7.15
LSD(0.05)	214	ns	0.04	ns	ns	ns	0.25	0.72
C.V.(%)	9.2	3.7	1.71	0.81	3.21	8.57	2.5	4.84

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 6. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on a nonirrigated Coushatta silt loam at the Dean Lee Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
PX3122B51WRF	1,761	44.5	1.19	84.25	32.15	6.85	4.50	6.75
PX375001WRF	1,749	46.5	1.16	83.10	32.70	7.40	4.60	7.20
UA 222	1,649	42.0	1.21	84.50	33.60	7.80	4.75	6.65
NG 1511 B2RF	1,628	44.6	1.13	83.40	32.75	7.65	4.75	8.00
MON 12R224 B2R2	1,612	45.3	1.16	83.25	31.25	7.00	4.40	7.30
ST 4946 GLB2	1,605	42.4	1.15	82.90	34.60	6.95	4.80	7.35
PHY 333 WRF	1,602	45.0	1.19	83.80	30.45	6.25	4.40	7.80
DP 1321 B2RF	1,576	44.2	1.16	83.70	32.75	8.45	4.90	6.70
DP 0912 B2RF	1,575	42.3	1.11	83.05	31.65	7.00	5.05	7.75
PX445022WRF	1,567	44.0	1.19	83.70	35.15	7.10	4.70	7.00
PHY 427 WRF	1,552	43.4	1.12	84.05	32.85	7.30	4.55	7.40
PX553840WRF	1,544	44.4	1.19	83.70	32.50	6.25	4.55	6.35
PX300304WRF	1,528	42.3	1.17	83.95	32.50	5.70	4.65	7.35
PHY 599 WRF	1,512	46.5	1.13	83.65	34.45	7.50	4.95	7.15
FM 1944 GLB2	1,496	41.8	1.20	83.70	31.05	5.00	4.85	7.50
DP 1311 B2RF	1,490	46.4	1.13	83.45	31.50	7.35	4.65	7.80
PHY 417 WRF	1,478	44.7	1.11	82.95	32.55	7.40	4.25	8.25
PHY 575 WRF	1,476	42.8	1.20	83.55	31.20	7.15	4.45	7.50
PX444414WRF	1,426	45.0	1.17	83.20	31.30	6.80	4.20	7.35
ST 5288 B2RF	1,417	44.0	1.13	82.05	30.15	6.95	5.00	8.55
PHY 499 WRF	1,410	46.0	1.12	83.55	34.40	7.50	4.85	7.60
CROPLAN 3428 B2RF	1,381	43.0	1.20	84.60	32.60	7.20	4.70	7.20
HQ 210 CT	1,279	41.5	1.13	83.40	32.70	6.40	5.15	8.20
PHY 339 WRF	1,203	44.0	1.17	83.45	32.55	6.85	4.45	7.15
Grand Total	1,521	44.0	1.16	83.51	32.47	6.99	4.67	7.41
LSD(0.05)	144	2.0	0.05	1.07	2.14	0.82	0.27	0.71
C.V.(%)	6.6	2.2	2.01	0.6	3.12	5.51	2.69	4.54

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 7. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an irrigated clay at the Red River Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
PX444414WRF	1945	42.5	1.16	83.65	31.70	6.50	4.28	7.90
PHY 499 WRF	1686	42.5	1.12	83.15	33.30	6.95	4.43	7.95
PX445022WRF	1648	42.0	1.18	83.70	33.00	6.33	4.38	7.40
PHY 599 WRF	1586	42.9	1.15	83.73	32.65	7.38	4.45	7.53
DP 1311 B2RF	1522	42.9	1.13	81.93	29.80	7.55	4.33	8.10
PX553840WRF	1520	41.6	1.15	83.73	30.93	6.10	4.48	7.70
NG 1511 B2RF	1480	41.0	1.12	82.15	32.40	7.38	4.33	7.85
ST 5288 B2RF	1459	41.8	1.12	82.20	29.30	7.38	4.58	8.55
PX3122B51WRF	1454	42.4	1.17	83.43	30.40	7.18	4.28	8.03
PHY 339 WRF	1424	40.4	1.14	82.63	31.23	7.10	4.23	8.30
PHY 333 WRF	1370	45.3	1.15	82.80	29.55	6.73	4.18	8.50
PX375001WRF	1337	43.0	1.14	82.15	31.78	7.43	4.23	9.05
PHY 575 WRF	1334	40.3	1.18	83.33	30.18	6.75	4.25	8.18
PX300304WRF	1322	39.7	1.14	83.03	31.53	6.15	4.30	8.78
DP 1321 B2RF	1282	42.7	1.13	82.88	33.18	7.45	4.50	7.38
PHY 417 WRF	1271	41.0	1.10	82.90	29.63	7.83	3.85	8.73
ST 4946 GLB2	1254	44.2	1.14	82.55	31.73	7.00	4.03	8.00
MON 12R224 B2R2	1251	40.9	1.16	83.58	30.13	6.20	4.20	7.93
FM 1944 GLB2	1246	40.8	1.16	82.45	29.13	6.05	4.38	8.98
UA 222	1160	40.5	1.19	82.38	32.18	7.33	4.45	7.65
DP 0912 B2RF	1112	40.4	1.10	82.80	29.88	7.15	4.58	8.53
HQ 210 CT	1098	39.0	1.13	82.43	31.48	5.95	4.60	8.60
PHY 427 WRF	1029	40.1	1.11	82.78	30.33	7.20	4.00	8.70
CROPLAN 3428 B2RF	907	41.7	1.18	82.68	29.50	7.58	4.18	8.25
Overall Mean	1363	41.7	1.14	82.87	31.04	6.94	4.31	8.19
LSD(0.05)	255	ns	0.03	0.96	1.18	0.67	0.31	0.79
C.V.(%)	13.2	5.8	1.97	0.82	2.7	6.83	5.02	6.83

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 8. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an irrigated silt loam at the Red River Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
NG 1511 B2RF	1777	42.2	1.14	83.38	33.18	7.65	4.15	7.73
PHY 499 WRF	1750	41.7	1.12	82.78	32.78	7.40	4.13	8.48
PX444414WRF	1736	42.9	1.16	82.75	31.75	6.58	3.65	8.35
PX445022WRF	1646	39.2	1.17	83.35	32.70	6.90	4.03	7.70
DP 1321 B2RF	1618	40.1	1.15	84.10	33.58	7.75	4.28	7.28
PHY 333 WRF	1608	41.4	1.17	83.38	30.60	6.50	4.05	7.95
PHY 339 WRF	1607	39.1	1.17	83.03	31.60	7.13	3.70	8.23
PX3122B51WRF	1579	41.1	1.18	83.80	31.35	6.93	4.08	7.83
PHY 575 WRF	1514	36.3	1.18	83.15	30.68	7.48	3.78	8.28
DP 0912 B2RF	1509	36.0	1.12	83.35	31.23	7.23	4.45	7.78
HQ 210 CT	1495	36.9	1.12	82.55	32.20	6.23	4.63	8.48
PHY 599 WRF	1480	40.1	1.13	83.30	32.78	7.40	3.90	8.15
PX375001WRF	1469	36.7	1.15	83.18	32.50	7.20	3.95	8.15
ST 4946 GLB2	1467	39.0	1.14	83.43	31.63	7.28	3.75	8.25
PX553840WRF	1455	37.1	1.16	83.93	31.33	6.50	3.88	7.55
CROPLAN 3428 B2RF	1432	39.1	1.18	83.25	30.93	7.33	4.48	7.83
FM 1944 GLB2	1370	36.3	1.19	82.48	29.83	5.53	4.03	8.55
DP 1311 B2RF	1344	40.6	1.13	82.53	30.85	7.60	4.08	8.40
MON 12R224 B2R2	1316	37.1	1.16	83.50	29.93	6.73	3.43	8.43
ST 5288 B2RF	1216	39.9	1.17	81.68	30.18	6.80	3.43	8.95
PHY 417 WRF	1181	40.4	1.13	83.15	31.98	7.78	3.35	8.58
PHY 427 WRF	1138	37.2	1.14	82.43	30.40	7.73	3.23	9.30
UA 222	1089	37.7	1.21	82.70	31.28	7.28	3.50	7.80
PX300304WRF	1069	36.1	1.17	83.08	31.45	6.28	3.30	8.63
Overall Mean	1453	38.9	1.15	83.09	31.53	7.05	3.88	8.19
LSD(0.05)	283	2.0	0.02	0.99	1.16	0.57	0.36	0.88
C.V.(%)	13.7	3.6	1.5	0.85	2.6	5.73	6.53	7.64

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 9. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an irrigated Sharkey clay at the Northeast Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
PX3122B51WRF	2319	44.4	1.20	84.78	31.43	5.83	4.83	6.75
PX300310WRF	2213	44.9	1.14	83.30	30.93	6.58	5.13	7.85
DP 0912 B2RF	2093	43.0	1.12	83.35	30.15	6.13	5.35	7.50
PHY 417 WRF	2075	45.0	1.16	82.88	31.13	7.05	4.48	8.05
DP 1321 B2RF	2063	42.9	1.16	84.40	31.80	7.78	5.05	7.03
PHY 499 WRF	2051	44.3	1.17	84.53	33.40	6.98	4.78	6.95
PX553840WRF	2051	45.6	1.19	84.83	32.30	5.63	4.53	6.65
PX554010WRF	2033	44.3	1.19	84.43	33.08	6.13	4.80	6.95
PX375001WRF	2031	46.5	1.18	83.80	31.85	6.68	4.75	7.43
PX444414WRF	2024	43.4	1.20	84.20	31.75	6.28	4.73	6.78
UA 222	2018	42.5	1.22	84.13	31.78	6.80	4.93	6.85
ST 5288 B2RF	2010	44.0	1.14	82.75	28.95	6.10	4.95	8.55
PX300304WRF	1969	41.6	1.17	84.10	32.70	5.00	4.93	7.50
ST 4946 GLB2	1951	43.3	1.17	83.83	32.58	6.25	4.90	7.18
PHY 339 WRF	1929	42.6	1.20	84.45	32.48	6.05	4.63	7.08
PX444413WRF	1889	44.5	1.17	84.18	31.90	6.55	4.70	7.25
MON 12R224 B2R2	1855	43.3	1.17	84.43	28.95	6.08	4.70	7.28
DG CT13125 B2RF	1849	43.5	1.20	85.13	31.33	6.93	4.65	6.70
PHY 333 WRF	1808	45.0	1.18	84.35	29.13	5.95	4.63	7.88
NG 1511 B2RF	1793	44.6	1.15	83.70	32.18	6.90	4.93	7.20
DP 1311 B2RF	1788	43.8	1.16	83.63	29.35	6.95	4.68	7.70
PX445022WRF	1786	43.6	1.19	84.03	32.70	5.83	4.85	6.95
PHY 599 WRF	1782	44.6	1.20	83.23	30.38	6.05	4.53	8.03
PHY 575 WRF	1757	40.5	1.22	84.20	30.65	6.58	4.53	7.65
FM 1944 GLB2	1742	41.3	1.22	84.37	31.13	4.53	4.80	7.57
PHY 427 WRF	1692	43.1	1.16	83.93	32.35	6.68	4.78	7.60
DGX 11W351 B2RF	1546	43.5	1.20	84.10	31.70	6.40	4.88	7.20
HQ 210 CT	1500	40.3	1.13	83.00	31.58	5.43	5.08	8.23
CROPLAN 3428 B2RF	1476	43.0	1.20	84.07	30.47	6.53	4.80	7.33
Overall Mean	1900	43.5	1.18	84.00	31.38	6.30	4.80	7.37
LSD(0.05)	379	2.0	0.03	1.04	1.49	0.68	0.22	0.79
C.V.(%)	14.2	2.6	1.71	0.88	3.68	7.68	3.3	7.6

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 10. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an nonirrigated Commerce silt loam at the Northeast Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
DP 1321 B2RF	1846	44.9	1.20	84.25	33.80	7.68	4.53	6.68
PX3122B51WRF	1786	44.1	1.22	84.68	31.88	6.48	4.23	7.03
ST 5288 B2RF	1779	45.4	1.17	83.20	30.77	6.00	4.47	7.60
NG 1511 B2RF	1722	46.1	1.19	83.38	32.88	7.53	4.43	7.23
PX300310WRF	1646	46.5	1.17	83.30	32.25	6.63	4.40	7.53
PHY 333 WRF	1595	44.0	1.22	84.45	30.70	5.55	4.23	7.43
ST 4946 GLB2	1545	43.0	1.18	84.30	33.70	6.58	4.58	6.73
PHY 427 WRF	1543	43.1	1.20	83.43	33.47	6.17	4.40	7.53
PHY 417 WRF	1539	47.3	1.19	82.95	32.75	6.73	4.13	7.48
DP 0912 B2RF	1517	43.1	1.15	83.18	32.33	6.23	4.65	7.30
PX553840WRF	1511	44.3	1.22	84.93	34.13	5.33	3.80	6.85
PX445022WRF	1508	43.3	1.20	83.83	33.88	6.13	4.28	7.30
MON 12R224 B2R2	1476	44.1	1.22	84.50	32.25	6.23	4.08	7.00
DG CT13125 B2RF	1470	44.3	1.21	83.95	32.18	7.20	4.38	7.08
PX375001WRF	1468	46.3	1.19	83.63	32.77	6.70	4.37	7.33
PHY 339 WRF	1460	44.9	1.22	84.03	32.53	6.18	4.33	6.83
PX554010WRF	1437	49.1	1.21	84.15	32.65	6.08	3.68	6.78
PX300304WRF	1424	40.6	1.21	84.23	33.80	5.38	4.53	7.33
PHY 499 WRF	1413	43.6	1.19	84.75	34.13	7.30	4.28	6.90
PX444414WRF	1410	44.0	1.21	84.13	32.25	5.88	4.00	6.88
PX444413WRF	1409	45.6	1.27	84.85	32.58	5.93	3.68	6.95
UA 222	1397	41.5	1.26	84.50	33.98	7.05	4.25	6.55
DP 1311 B2RF	1361	45.3	1.17	82.68	31.83	6.90	4.38	7.88
FM 1944 GLB2	1341	42.1	1.22	83.38	31.25	5.25	4.28	8.05
PHY 599 WRF	1235	46.9	1.22	83.03	32.60	6.23	3.88	8.03
HQ 210 CT	1225	41.9	1.18	83.90	34.48	5.50	4.48	7.13
PHY 575 WRF	1141	42.4	1.23	83.93	32.33	6.87	3.93	7.63
DGX 11W351 B2RF	1129	42.6	1.24	84.03	34.38	6.33	4.48	6.88
CROPLAN 3428 B2RF	1081	43.4	1.23	83.53	31.95	6.70	3.98	7.75
Overall Mean	1463	44.3	1.21	83.90	32.77	6.37	4.24	7.23
LSD(0.05)	277	2.0	0.03	1.13	1.30	0.56	0.31	0.65
C.V.(%)	13.5	3.7	1.58	0.96	2.83	6.25	5.16	6.4

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 11. Yield performance and fiber characteristics of early maturing cotton varieties cultivated on an irrigated Gigger silt loam at the Macon Ridge Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
PX3122B51WRF	2,634	43.0	1.19	84.95	31.15	6.28	4.75	6.65
PX375001WRF	2,489	43.9	1.20	83.83	31.90	7.80	4.93	7.03
ST 4946 GLB2	2,468	41.0	1.16	84.35	33.65	6.95	4.90	6.73
PHY 417 WRF	2,450	44.3	1.12	83.28	31.68	7.40	4.60	7.88
PHY 333 WRF	2,439	43.3	1.18	84.03	29.85	6.10	4.60	7.68
MON 12R224 B2R2	2,439	41.4	1.17	83.95	29.55	6.33	4.70	7.45
PX300304WRF	2,375	40.1	1.18	84.15	31.73	5.38	4.75	7.48
DP 0912 B2RF	2,346	41.6	1.11	83.38	30.88	6.53	5.33	7.50
PX445022WRF	2,338	43.3	1.17	83.79	32.45	6.69	4.85	7.05
PHY 499 WRF	2,302	41.5	1.17	84.60	33.55	7.40	5.03	6.83
UA 222	2,273	40.1	1.23	84.48	32.78	7.43	4.75	6.75
DP 1321 B2RF	2,250	42.0	1.16	84.45	33.03	8.15	5.13	6.85
PX300310WRF	2,246	44.4	1.09	82.50	31.10	7.33	4.98	8.30
PHY 339 WRF	2,236	43.4	1.20	83.85	31.73	7.03	4.70	7.15
DP 1311 B2RF	2,206	45.0	1.15	83.40	29.83	7.70	4.63	7.70
NG 1511 B2RF	2,190	43.5	1.11	83.45	32.38	8.05	5.18	7.13
DGX 11W351 B2RF	2,164	43.0	1.17	83.60	32.35	6.60	4.80	7.45
DG CT13125 B2RF	2,112	42.8	1.18	84.18	31.88	7.60	4.65	7.08
ST 5288 B2RF	2,092	41.1	1.17	83.60	29.63	6.33	5.00	7.50
FM 1944 GLB2	2,086	40.0	1.20	84.30	31.28	4.83	4.83	7.40
PX444414WRF	2,047	44.6	1.16	83.98	31.90	6.73	4.70	7.28
PHY 427 WRF	1,960	41.3	1.14	83.55	32.25	6.70	4.73	7.80
CROPLAN 3428 B2RF	1,896	40.9	1.18	84.10	30.55	7.10	5.00	7.40
HQ 210 CT	1,857	39.6	1.12	83.13	32.40	6.43	5.23	8.18
PHY 575 WRF	1,800	39.3	1.21	83.95	31.08	6.95	4.68	7.00
PHY 599 WRF	1,735	42.3	1.22	83.18	30.30	6.45	4.58	7.50
		0.0						
Grand Total	2,209	42.2	1.17	83.84	31.57	6.85	4.84	7.33
LSD(0.05)	519	2.0	0.03	0.94	1.08	0.62	0.30	0.64
C.V.(%)	16.7	3.0	1.89	0.79	2.42	6.42	4.42	6.19

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 12. Two-year yield performance of medium maturing cotton varieties cultivated in a nonirrigated environment at two locations during 2012-2013.

Variety	Location and soil texture						Average across locations and years
	Alexandria				St. Joseph		
	Clay		Silt loam		Silt loam		
	2,012	2,013	2,012	2,013	2,012	2,013	
NG 1511 B2RF	1,240	1,496	1,174	1,424	906	1,746	1,331
CROPLAN 3787 B2RF	1,599	1,501	1,303	1,641	675	1,259	1,330
DP 1034 B2RF	1,477	1,453	1,339	1,497	962	1,131	1,310
DP 1137 B2RF	1,474	1,302	1,314	1,599	701	1,384	1,295
FM 1944 GLB2	1,487	1,471	1,259	1,560	599	1,286	1,277
NG 5315 B2RF	1,544	1,441	1,306	1,580	830	956	1,276
DP 1133 B2RF	1,615	1,439	1,557	1,382	719	906	1,270
DP 1252 B2RF	1,560	1,622	1,300	1,576	686	871	1,269
ST 5288 B2RF	1,399	1,538	1,084	1,390	641	1,532	1,264
ST 4946 GLB2	1,270	1,647	1,049	1,660	560	1,371	1,260
DP 1044 B2RF	1,237	1,572	1,161	1,391	494	1,349	1,201
ST 6448 GLB2	1,333	1,513	1,167	1,279	579	1,199	1,178
Mean	1,436	1,499	1,251	1,498	696	1,249	1,272

Table 13. Two-year yield performance of medium maturing cotton varieties cultivated in an irrigated environment at three locations during 2012-2013.

Variety	Location and soil texture						Average across locations and years
	Bossier City		St. Joseph		Winnsboro		
	Silt loam		Clay		Silt loam		
	2012	2013	2012	2013	2012	2013	
	Pounds of lint/acre						
NG 1511 B2RF	1,203	1,402	908	2,278	1,410	2,493	1,616
CROPLAN 3787 B2RF	1,450	1,643	901	1,965	1,398	2,256	1,602
ST 5288 B2RF	1,288	879	862	2,571	1,412	2,595	1,601
DP 1137 B2RF	1,493	1,445	893	1,884	1,444	2,164	1,554
DP 1133 B2RF	1,393	1,263	1,043	1,774	1,507	2,336	1,553
ST 4946 GLB2	1,173	1,053	923	2,192	1,366	2,549	1,543
DP 1034 B2RF	1,455	1,671	866	1,645	1,362	2,152	1,525
FM 1944 GLB2	1,229	1,261	953	2,099	1,373	2,148	1,510
NG 5315 B2RF	1,344	1,622	852	1,653	1,197	2,061	1,455
DP 1252 B2RF	1,328	1,407	717	1,632	1,411	2,232	1,454
DP 1044 B2RF	1,190	883	885	1,904	1,484	2,347	1,449
ST 6448 GLB2	1,073	940	858	2,135	1,450	2,218	1,446
Mean	1,302	1,289	888	1,978	1,401	2,296	1,526

Table 14. One-year yield performance of medium maturing varieties cultivated in a nonirrigated environment at two locations during 2013.

Variety	Location and soil texture			Average across locations
	Alexandria		St. Joseph	
	Clay	Silt loam	Silt loam	
	Pounds of lint/acre			
ST 4946 GLB2	1,647	1,660	1,371	1,560
MON 12R242 B2R2	1,558	1,545	1,569	1,557
NG 1511 B2RF	1,496	1,424	1,746	1,555
ST 5288 B2RF	1,538	1,390	1,532	1,487
CROPLAN 3787 B2RF	1,501	1,641	1,259	1,467
ST 4747 GLB2	1,540	1,473	1,324	1,446
FM 1944 GLB2	1,471	1,560	1,286	1,439
DP 1044 B2RF	1,572	1,391	1,349	1,437
DP 1137 B2RF	1,302	1,599	1,384	1,428
DP 1048 B2RF	1,326	1,551	1,264	1,365
DP 1034 B2RF	1,453	1,497	1,131	1,360
DP 1252 B2RF	1,622	1,576	871	1,356
ST 6448 GLB2	1,513	1,279	1,199	1,330
NG 5315 B2RF	1,441	1,580	956	1,326
DP 1133 B2RF	1,439	1,382	906	1,225
Overall Mean	1,494	1,503	1,277	1,423
LSD(0.05)	ns	ns	282	
C.V. (%)	10.6	10.6	15.5	

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 15. One-year yield performance of medium maturing varieties cultivated in an irrigated environment at three locations during 2013.

Variety	Locations and soil texture				Average across locations
	Bossier City		St. Joseph	Winnsboro	
	Clay	Silt loam	Clay	Silt loam	
	Pounds of lint/acre				
NG 1511 B2RF	1,770	1,402	2,278	2,493	1,986
ST 5288 B2RF	1,782	879	2,571	2,595	1,957
MON 12R242 B2R2	1,804	1,240	2,258	2,484	1,947
CROPLAN 3787 B2RF	1,715	1,643	1,965	2,256	1,895
ST 4747 GLB2	1,774	1,244	2,215	2,324	1,889
DP 1048 B2RF	1,856	1,768	1,682	2,102	1,852
DP 1252 B2RF	2,121	1,407	1,632	2,232	1,848
DP 1137 B2RF	1,884	1,445	1,884	2,164	1,844
ST 4946 GLB2	1,573	1,053	2,192	2,549	1,842
DP 1034 B2RF	1,845	1,671	1,645	2,152	1,828
NG 5315 B2RF	1,858	1,622	1,653	2,061	1,798
FM 1944 GLB2	1,667	1,261	2,099	2,148	1,794
ST 6448 GLB2	1,657	940	2,135	2,218	1,738
DP 1133 B2RF	1,546	1,263	1,774	2,336	1,730
DP 1044 B2RF	1,457	883	1,904	2,347	1,648
Overall Mean	1,754	1,315	1,992	2,297	1,840
LSD(0.05)	ns	200	465	ns	
C.V. (%)	13.9	10.7	16.3	11.1	

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 16. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a nonirrigated Latanier clay at the Dean Lee Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
ST 4946 GLB2	1,647	43.0	1.15	83.90	34.95	6.85	4.85	6.70
DP 1252 B2RF	1,622	45.8	1.19	84.15	32.50	8.00	5.00	6.70
DP 1044 B2RF	1,572	42.0	1.13	83.10	32.85	7.75	4.90	7.35
MON 12R242 B2R2	1,558	44.4	1.17	83.65	32.20	7.90	5.20	7.05
ST 4747 GLB2	1,540	43.4	1.21	83.85	29.25	5.00	4.75	7.45
ST 5288 B2RF	1,538	42.5	1.14	83.75	31.75	6.30	5.20	7.50
ST 6448 GLB2	1,513	40.7	1.20	83.10	31.50	5.85	5.05	7.05
CROPLAN 3787 B2RF	1,501	44.3	1.15	84.25	32.60	7.35	5.05	6.85
NG 1511 B2RF	1,496	44.9	1.13	83.35	34.35	7.30	5.15	6.85
FM 1944 GLB2	1,471	42.2	1.18	83.95	31.90	4.80	4.95	7.65
DP 1034 B2RF	1,453	43.6	1.16	84.35	31.75	7.55	4.95	7.05
NG 5315 B2RF	1,441	45.0	1.16	84.15	32.00	7.80	4.75	6.70
DP 1133 B2RF	1,439	45.2	1.18	84.20	34.55	7.05	4.85	6.75
DP 1048 B2RF	1,326	44.8	1.17	84.65	32.60	7.20	4.90	6.55
DP 1137 B2RF	1,302	44.0	1.15	83.95	32.10	7.35	4.85	7.30
Overall Mean	1,495	43.7	1.16	83.89	32.46	6.94	4.96	7.03
LSD(0.05)	ns	1.9	0.04	ns	2.19	0.59	0.22	0.60
C.V.(%)	10.7	2	1.61	0.73	3.15	3.99	2.08	4.00

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 17. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a nonirrigated Coushatta silt loam at the Dean Lee Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
ST 4946 GLB2	1,660	43.4	1.15	83.75	33.10	7.15	4.85	7.10
CROPLAN 3787 B2RF	1,641	45.9	1.16	83.45	30.40	7.45	4.55	7.70
DP 1137 B2RF	1,599	45.6	1.14	83.25	29.90	7.25	4.60	8.15
NG 5315 B2RF	1,580	46.0	1.17	84.10	30.70	7.55	4.50	7.25
DP 1252 B2RF	1,576	47.1	1.15	83.45	30.30	7.95	4.65	7.75
FM 1944 GLB2	1,560	42.0	1.22	83.65	30.70	5.00	4.50	7.60
DP 1048 B2RF	1,551	45.5	1.19	83.45	30.10	6.80	4.45	7.15
MON 12R242 B2R2	1,545	45.0	1.17	84.15	30.65	8.15	4.85	7.10
CT 13414	1,516	48.0	1.11	83.10	30.70	8.10	4.80	8.00
DP 1034 B2RF	1,497	45.4	1.17	83.80	30.55	7.10	4.45	7.05
ST 4747 GLB2	1,473	43.5	1.21	84.25	28.80	5.00	4.55	7.40
NG 1511 B2RF	1,424	44.5	1.15	83.45	32.40	7.65	4.65	7.20
DP 1044 B2RF	1,391	39.7	1.16	83.70	31.10	7.75	4.55	7.15
ST 5288 B2RF	1,390	42.8	1.17	82.65	29.55	6.90	4.75	7.50
DP 1133 B2RF	1,382	45.5	1.18	83.45	32.05	6.10	4.60	7.70
ST 6448 GLB2	1,279	43.6	1.22	83.80	30.90	5.95	4.55	6.80
Overall Mean	1,503	44.5	1.17	83.61	30.75	6.95	4.61	7.39
LSD(0.05)	ns	3.2	0.04	ns	1.62	1.39	0.18	ns
C.V.(%)	10.6	3.3	1.66	0.71	2.39	9.03	1.78	5.64

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 18. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated clay at the Red River Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
DP 1252 B2RF	2,121	46.5	1.13	82.75	30.30	8.30	4.68	8.48
DP 1137 B2RF	1,884	43.6	1.13	83.00	29.65	7.68	4.58	8.45
NG 5315 B2RF	1,858	41.9	1.15	82.68	30.70	7.48	4.38	8.28
DP 1048 B2RF	1,856	42.7	1.16	82.73	29.50	7.50	4.48	8.03
DP 1034 B2RF	1,845	42.5	1.14	82.65	29.58	8.35	4.43	8.73
MON 12R242 B2R2	1,804	42.1	1.14	82.80	30.78	8.28	4.60	8.23
ST 5288 B2RF	1,782	41.0	1.14	82.45	29.23	6.80	4.65	8.15
ST 4747 GLB2	1,774	41.4	1.16	82.10	27.40	5.75	4.40	8.95
NG 1511 B2RF	1,770	43.3	1.12	83.03	32.20	7.40	4.73	7.98
CROPLAN 3787 B2RF	1,715	43.0	1.13	82.48	30.50	7.63	4.53	8.33
FM 1944 GLB2	1,667	39.6	1.16	82.68	29.28	5.65	4.40	8.90
ST 6448 GLB2	1,657	41.1	1.16	82.08	28.25	6.20	4.50	8.80
ST 4946 GLB2	1,573	40.0	1.13	82.90	32.05	7.00	4.40	7.93
DP 1133 B2RF	1,546	42.8	1.15	82.75	32.00	6.73	4.68	8.25
DP 1044 B2RF	1,457	40.8	1.11	82.25	30.68	8.45	4.25	8.68
Grand Total	1,754	42.2	1.14	82.62	30.14	7.28	4.51	8.41
LSD(0.05)	ns	2.0	0.03	ns	1.15	0.68	0.24	ns
C.V.(%)	13.9	3.3	1.73	0.91	2.68	6.53	3.69	7.97

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 19. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated silt loam at the Red River Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
DP 1048 B2RF	1,768	42.2	1.15	83.10	31.60	7.23	4.60	8.23
DP 1034 B2RF	1,671	42.1	1.14	82.58	30.93	7.95	4.15	8.58
CROPLAN 3787 B2RF	1,643	41.0	1.16	83.45	31.73	7.90	4.43	7.85
NG 5315 B2RF	1,622	42.4	1.16	83.95	31.50	7.80	4.43	7.78
DP 1137 B2RF	1,445	40.6	1.14	83.00	31.25	7.00	4.18	8.43
DP 1252 B2RF	1,407	41.6	1.15	82.48	31.50	7.28	4.33	8.38
NG 1511 B2RF	1,402	43.0	1.15	82.90	33.20	7.65	4.23	7.78
MON 13R347 B2R2	1,310	43.0	1.12	82.78	31.50	6.78	3.98	8.75
CT 13414	1,276	41.0	1.14	83.28	31.85	8.38	3.98	8.70
DP 1133 B2RF	1,263	40.0	1.16	83.48	33.78	6.28	4.23	8.00
FM 1944 GLB2	1,261	36.8	1.21	82.85	30.28	5.55	3.68	8.53
ST 4747 GLB2	1,244	39.3	1.17	81.30	27.48	5.83	3.70	9.90
MON 12R242 B2R2	1,240	40.5	1.16	82.63	31.75	8.00	4.20	8.30
ST 4946 GLB2	1,053	37.1	1.17	82.53	32.45	6.85	3.20	8.95
MON 13R341 B2R2	1,042	39.8	1.17	82.30	33.55	5.90	3.80	9.03
ST 6448 GLB2	940	36.4	1.19	82.03	29.03	5.85	3.40	9.10
DP 1044 B2RF	883	35.6	1.15	81.90	31.60	7.50	3.18	9.35
ST 5288 B2RF	879	37.0	1.16	81.00	29.43	7.38	3.28	9.73
Overall Mean	1,297	40.0	1.16	82.64	31.35	7.06	3.94	8.63
LSD(0.05)	213	2.0	0.02	0.85	1.36	0.81	0.69	0.93
C.V.(%)	11.6	3.4	1.45	0.72	3.06	8.04	6.89	7.59

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 20. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated Sharkey clay at the Northeast Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
ST 5288 B2RF	2,571	44.8	1.17	83.50	30.68	5.68	5.23	7.23
NG 1511 B2RF	2,278	45.3	1.16	83.60	33.63	6.80	5.15	7.18
MON 12R242 B2R2	2,258	44.5	1.16	83.30	31.38	7.35	5.23	7.35
ST 4747 GLB2	2,215	42.3	1.21	83.08	28.38	4.83	4.93	7.80
ST 4946 GLB2	2,192	42.0	1.17	84.05	34.35	6.28	5.18	6.78
ST 6448 GLB2	2,135	41.8	1.23	83.75	29.88	5.05	4.90	7.40
FM 1944 GLB2	2,099	40.4	1.22	83.98	31.55	4.20	5.03	7.45
CROPLAN 3787 B2RF	1,965	43.8	1.18	83.80	31.33	7.03	5.08	7.35
DP 1044 B2RF	1,904	41.9	1.15	83.28	32.63	6.60	5.08	7.48
DP 1137 B2RF	1,884	43.3	1.19	84.05	31.03	6.60	5.13	6.88
DP 1133 B2RF	1,774	44.0	1.18	84.35	32.95	6.33	5.08	6.78
DP 1048 B2RF	1,682	44.0	1.19	84.40	31.58	6.60	5.03	7.05
NG 5315 B2RF	1,653	43.8	1.19	83.40	31.73	6.88	4.98	7.43
DP 1034 B2RF	1,645	43.3	1.19	83.60	31.50	6.55	5.08	7.20
DP 1252 B2RF	1,632	45.1	1.17	83.78	32.05	7.05	5.18	7.25
Overall Mean	1,992	43.3	1.18	83.73	31.64	6.25	5.08	7.24
LSD(0.05)	465	1.8	0.03	ns	0.95	0.60	ns	ns
C.V.(%)	16.3	2.9	1.67	0.77	2.10	6.69	2.90	6.26

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 21. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on a nonirrigated Commerce silt loam at the Northeast Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
NG 1511 B2RF	1,746	45.8	1.17	82.78	33.45	7.23	5.15	7.78
MON 12R242 B2R2	1,569	47.0	1.16	83.05	32.00	8.05	5.18	7.98
ST 5288 B2RF	1,532	46.0	1.15	82.33	31.15	6.90	5.35	8.00
DP 1137 B2RF	1,384	46.4	1.17	83.35	31.50	7.03	5.00	7.53
ST 4946 GLB2	1,371	43.5	1.16	84.03	33.18	6.50	4.98	7.23
DP 1044 B2RF	1,349	44.5	1.16	82.63	32.48	7.73	4.98	7.93
ST 4747 GLB2	1,324	43.9	1.19	82.10	29.10	4.60	4.95	8.55
FM 1944 GLB2	1,286	41.5	1.22	82.98	31.08	4.68	4.85	8.03
DP 1048 B2RF	1,264	46.5	1.18	82.73	31.50	7.23	4.88	8.05
CROPLAN 3787 B2RF	1,259	46.4	1.20	83.78	31.58	7.43	4.95	7.20
CT 13414	1,233	46.5	1.17	83.55	31.45	8.30	5.18	7.50
ST 6448 GLB2	1,199	44.3	1.19	82.05	29.35	5.33	4.98	8.93
DP 1034 B2RF	1,131	45.1	1.19	83.75	32.18	7.53	4.85	7.55
NG 5315 B2RF	956	46.0	1.17	83.78	32.35	7.38	4.83	7.43
DP 1133 B2RF	906	46.4	1.19	83.70	34.40	6.60	5.10	7.35
DP 1252 B2RF	871	48.0	1.17	83.33	31.98	7.45	5.03	7.73
Overall Mean	1,274	45.5	1.18	83.12	31.79	6.87	5.01	7.80
LSD(0.05)	289	1.7	0.04	1.13	1.53	0.76	0.15	ns
C.V.(%)	15.9	2.6	2.21	0.95	3.38	7.80	2.11	9.24

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Table 22. Yield performance and fiber characteristics of medium maturing cotton varieties cultivated on an irrigated Gigger silt loam at the Macon Ridge Research Station during 2013.

Variety	Lint yield	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(pounds/acre)	(%)	(inches)	(%)	(g/tex)			
ST 5288 B2RF	2,595	42.6	1.14	83.38	29.93	6.60	5.18	7.63
ST 4946 GLB2	2,549	41.0	1.15	84.33	33.85	7.00	5.08	6.95
CT 13414	2,539	44.0	1.13	83.58	31.35	8.03	5.25	7.33
NG 1511 B2RF	2,493	43.3	1.14	83.48	32.23	7.43	5.25	7.25
MON 12R242 B2R2	2,484	42.9	1.15	83.98	31.98	7.68	5.25	6.95
DP 1044 B2RF	2,347	40.8	1.12	83.50	32.00	7.68	4.90	7.88
DP 1133 B2RF	2,336	43.4	1.15	84.15	33.70	6.65	5.33	7.10
ST 4747 GLB2	2,324	42.3	1.17	83.58	28.35	5.18	4.98	7.93
CROPLAN 3787 B2RF	2,256	42.3	1.17	84.58	31.15	7.25	5.00	6.93
DP 1252 B2RF	2,232	44.3	1.14	83.73	31.05	8.10	5.08	7.18
ST 6448 GLB2	2,218	41.4	1.20	84.38	29.00	5.38	4.90	7.68
DP 1137 B2RF	2,164	41.8	1.14	84.53	31.20	6.80	4.85	7.25
DP 1034 B2RF	2,152	42.4	1.14	84.50	31.45	7.50	5.00	7.45
FM 1944 GLB2	2,148	39.6	1.17	83.28	30.23	5.20	4.88	8.13
DP 1048 B2RF	2,102	42.0	1.15	84.43	30.20	7.93	4.85	7.43
NG 5315 B2RF	2,061	42.6	1.13	84.73	30.80	7.70	4.98	7.30
Overall Mean	2,312	42.3	1.15	84.00	31.15	7.00	5.05	7.40
LSD(0.05)	ns	1.3	0.04	0.97	1.11	0.80	0.23	0.80
C.V.(%)	11.4	2.1	2.23	0.81	2.51	8.03	3.20	7.55

Numbers in bold type within a column are not significantly different from the numerically greatest value.

Event	Alexandria		Bossier City		St. Joseph		Winnsboro
	Silt Loam	Clay	Silt Loam	Clay	Silt Loam	Clay	Silt Loam
Planting Date	5/7/2013	5/7/2013	4/30/2013	5/6/2013	5/9/2013	4/30/2013	4/23/2013
Emergence							4/30/2013
Nitrogen Application	5/27/2013	5/27/2013	5/30/2013	5/30/2013	early June	early June	6/6/2013
Pre- Herbicide App.	5/1/2013	5/1/2013	5/6/2013	5/6/2013	no pre	no pre	4/23/2013
	5/6/2013	5/9/2013					
	5/9/2013	5/9/2013					
Early Post Herbicide	6/11/2013	6/3/2013		5/28/2013 6/12/2013	6/24/2013	6/24/2013	6/1/2013
	6/24/2013 7/2/2013	7/10/2013	6/26/2013 7/26/2013	6/26/2013 7/26/2013	7/10/2013	7/10/2013	6/28/2013
Early Insecticide	5/21/2013		6/11/2013	6/12/2013	8/1/2013	8/1/2013	5/15/2013
Mid Insecticide	6/24/2013	6/24/2013	7/1/2013	7/1/2013	8/7/2013	8/7/2013	7/10/2013
Late Insecticide	7/8/2013	7/8/2013	7/19/2013	7/19/2013	9/9/2013	9/9/2013	7/23/2013
	7/22/2013	7/22/2013	7/26/2013	7/26/2013			8/23/2013
	8/19/2013	8/19/2013	7/31/2013				
			8/2/2013 8/9/2013	8/2/2013 8/9/2013			
PGR	6/24/2013	6/24/2013					
Harvest Aid	9/10/2013	9/10/2013	9/16/2013	9/20/2013	9/16/2013 (EARLY)	9/16/2013 (EARLY)	8/27/2013 (EARLY)
	9/18/2013	9/18/2013			9/30/2013 (MEDIUM)	9/30/2013 (MEDIUM)	8/27/2013 (MEDIUM)
Harvest					10/10/2013 (EARLY)	10/11/2013 (EARLY)	9/13/2013 (EARLY)
					10/14/2013(MEDIUM)	10/17/2013 (MEDIUM)	9/20/2013 (MEDIUM)
Irrigations			7/3/2013	7/17/2013			6/17/2013
			7/18/2013	7/22/2013			6/27/2013
			8/5/2013	8/12/2013			7/24/2013
			8/20/2013				8/1/2013 8/8/2013

Table 24. Yield performance of core block (on-farm) variety trials across Louisiana during 2013.

Yields reported in pounds of lint per acre.

Variety	Locations									AVERAGE
	Rapides 1	Rapides 2	Caddo	Tensas	Pointe Coupee	MRRS	NERS	RRRS	DLRS	
PHY 339 WRF	1,730	1,010	1,799	1,904	1,455	1,529	1,616	1,318	1,545	1,545
DP 1133 B2RF	1,827	1,311	1,589	1,908	1,336	1,549	1,386	1,136	1,681	1,525
FM 1944 GLB2	1,850	1,013	1,691	1,909	1,475	1,431	1,623	1,177	1,395	1,507
DP 1311 B2RF	1,579	1,083	1,754	1,756	1,726	1,381	1,259	1,324	1,571	1,493
NG 1511 B2RF	1,996	1,186	1,532	1,848	1,393	1,369	1,428	1,178	1,471	1,489
ST 4946 GLB2	1,738	988	1,746	1,826	1,672	1,330	1,492	1,037	1,475	1,478
ST 6448 GLB2	1,795	1,035	1,456	1,727	1,660	1,435	1,331	1,275	1,332	1,449
ST 5288 B2RF	1,576	1,002	1,488	1,958	1,434	1,502	1,277	1,197	1,610	1,449
PHY 499 WRF	1,604	1,003	1,691	1,761	1,447	1,598	1,238	1,214	1,151	1,412
NG 5315 B2RF	1,689	914	1,386	1,478	1,433	1,194	985	1,373	1,510	1,329
AVERAGE	1,738	1,055	1,613	1,807	1,503	1,432	1,363	1,223	1,474	

Table 25. Fiber characteristics of core block (on-farm) variety trials across Louisiana during 2013.

Variety	Lint %	Length	Uniformity	Strength	Elongation	Micronaire	Short fiber index
	(%)	(inches)	(%)	(g/tex)			
DP 1133 B2RF	43	1.18	84.24	33.32	6.82	4.79	7.20
DP 1311 B2RF	43	1.14	82.77	30.89	7.16	4.43	8.12
FM 1944 GLB2	42	1.20	83.94	31.24	5.80	4.59	7.51
NG 1511 B2RF	42	1.15	83.73	32.98	7.56	4.69	7.03
NG 5315 B2RF	41	1.18	83.88	31.67	7.46	4.57	7.14
PHY 339 WRF	42	1.18	83.46	31.70	6.94	4.44	7.28
PHY 499 WRF	41	1.15	84.40	33.73	7.28	4.67	7.06
ST 4946 GLB2	41	1.17	83.89	33.51	6.56	4.50	7.19
ST 5288 B2RF	41	1.15	83.01	30.76	6.60	4.69	7.72
ST 6448 GLB2	41	1.20	83.09	29.67	5.68	4.57	7.83

Table 26. Yield performance and fiber characteristics of core block (on-farm) variety trials, nonirrigated, across Louisiana, during 2013.

Variety		Yield (Lint, lb/A)	Turnout (%)	Length (inches)	Strength (g/tex)	Micronaire	Uniformity (%)
Location:	Rapides North		Seed Rate:	4 seed/17"			
Grower:	Justin Dekeyzer		Row Width:	40"		Plant Date:	5/7/2013
Coordinator:	Grayson Close		Soil Series:	Coushatta Silt Loam		Harvest Date:	9/26/2013
County Agent:	Donna Morgan						
	DP 1133 B2RF	1827	45%	1.20	33.4	4.9	84.7
	DP 1311 B2RF	1579	40%	1.20	33.0	4.6	83.9
	FM 1944 GLB2	1850	44%	1.20	34.3	4.9	85.3
	NG 1511 B2RF	1996	45%	1.10	34.0	4.9	83.9
	NG 5315 B2RF	1689	41%	1.20	31.7	4.4	83.0
	PHY 339 WRF	1730	44%	1.20	30.9	4.1	81.7
	PHY 499 WRF	1604	40%	1.17	29.9	4.0	83.1
	ST 4946 GLB2	1738	41%	1.21	29.4	4.5	83.2
	ST 5288 B2RF	1576	40%	1.19	33.8	4.6	83.2
	ST 6448 GLB2	1795	43%	1.14	34.5	4.6	83.7
Location:	Rapides South		Seed Rate:	36,000/A			
Grower:	Fred Collins		Row Width:	38"		Plant Date:	5/6/2013
Coordinator:	Grayson Close		Soil Series:	Roxana Very Fine Sandy Loam		Harvest Date:	10/7/2013
County Agent:	Donna Morgan						
	DP 1133 B2RF	1311	43%	1.20	32.4	4.6	84.3
	DP 1311 B2RF	1083	41%	1.20	30.8	4.0	82.4
	FM 1944 GLB2	1013	42%	1.30	32.3	4.4	84.2
	NG 1511 B2RF	1186	42%	1.20	32.2	4.4	85.0
	NG 5315 B2RF	914	39%	1.20	31.2	4.3	83.7
	PHY 339 WRF	1010	38%	1.20	31.5	4.1	82.7
	PHY 499 WRF	1003	39%	1.15	35.1	4.4	84.3
	ST 4946 GLB2	988	38%	1.16	33.9	3.9	83.7
	ST 5288 B2RF	1002	42%	1.17	30.4	4.2	83.7
	ST 6448 GLB2	1035	40%	1.20	30.5	4.0	83.3
Location:	Tensas		Seed Rate:	28,000/A			
Grower:	Chuck Tucker		Row Width:	38"		Plant Date:	5/8/2013
Coordinator:	Grayson Close		Soil Series:	Dundee Silt Loam		Harvest Date:	10/5/2013
County Agent:	Dennis Burns						
	DeltaPine 1133 B2RF	1908	43%	1.20	32.5	5.1	83.9
	DeltaPine 1311 B2RF	1756	43%	1.10	30.1	4.6	83.2
	FiberMax 1944 GLB2	1909	42%	1.20	29.7	4.7	84.8
	NexGen 1511 B2RF	1848	43%	1.10	32.7	4.8	83.1
	NexGen 5315 B2RF	1478	41%	1.20	31.8	4.8	84.5
	Phytogen 339 WRF	1904	38%	1.20	32.3	4.5	83.7
	Phytogen 499 WRF	1761	42%	1.14	32.6	4.8	83.8
	Stoneville 4946 GLB2	1826	41%	1.17	32.9	5.1	83.5
	Stoneville 5288 B2RF	1958	42%	1.14	29.6	5.0	82.0
	Stoneville 6448 GLB2	1727	40%	1.19	28.6	4.7	82.9
Location:	Dean Lee RS, Rapides		Seed Rate:	41,700/A			
Grower:	Darrell Franks		Row Width:	38"		Plant Date:	5/30/2013
Coordinator:	Grayson Close		Soil Series:	Coushatta Silt Loam		Harvest Date:	10/14/2013
County Agent:	Donna Morgan						
	DeltaPine 1133 B2RF	1681	43%	1.20	33.6	4.6	84.3
	DeltaPine 1311 B2RF	1571	43%	1.20	32.2	4.5	83.2
	FiberMax 1944 GLB2	1395	38%	1.20	30.9	4.7	84.0
	NexGen 1511 B2RF	1471	41%	1.20	33.0	4.7	83.0
	NexGen 5315 B2RF	1510	42%	1.20	31.5	4.6	84.2
	Phytogen 339 WRF	1545	42%	1.20	31.3	4.6	84.0
	Phytogen 499 WRF	1151	41%	1.19	34.4	4.9	84.4
	Stoneville 4946 GLB2	1476	39%	1.20	33.7	4.3	84.6
	Stoneville 5288 B2RF	1610	40%	1.16	30.8	4.6	82.7
	Stoneville 6448 GLB2	1332	41%	1.23	30.3	4.6	82.8
Location:	Point Coupee		Seed Rate:	33,000/A			
Grower:	George LaCour		Row Width:	30"		Plant Date:	5/9/2013
Coordinator:	Grayson Close		Soil Series:	Commerce Silt Loam		Harvest Date:	9/20/2013
County Agent:	Miles Brashier						
	DeltaPine 1133 B2RF	1336	43%	1.20	33.6	4.8	86.1
	DeltaPine 1311 B2RF	1726	48%	1.10	30.2	4.6	82.6
	FiberMax 1944 GLB2	1475	42%	1.20	30.2	4.8	84.1
	NexGen 1511 B2RF	1393	45%	1.20	32.3	5.0	84.1
	NexGen 5315 B2RF	1433	46%	1.20	30.7	4.8	84.5
	Phytogen 339 WRF	1455	44%	1.20	30.3	4.7	84.5
	Phytogen 499 WRF	1447	44%	1.15	34.7	4.9	85.9
	Stoneville 4946 GLB2	1672	43%	1.18	34.0	5.0	84.2
	Stoneville 5288 B2RF	1434	44%	1.15	31.2	5.1	83.0
	Stoneville 6448 GLB2	1660	42%	1.24	28.4	4.8	83.9

Table 27. Yield performance and fiber characteristics of core block (on-farm) variety trials, irrigated, across Louisiana, during 2013.

Variety	Yield (Lint, lb/A)	Turnout (%)	Length (inches)	Strength (g/tex)	Micronaire	Uniformity (%)
Location:	Macon Ridge RS, Franklin		Seed Rate:	4 seed/row foot		
Grower:	David Kerns		Row Width:	38"		Plant Date: 5/31/2013
Coordinator:	Grayson Close		Soil Series:	Gigger-Gilbert Complex Silt Loam		Harvest Date:
County Agent:	Sebe Brown					
DP 1133 B2RF	1549	43%	1.20	33.8	5.1	83.2
DP 1311 B2RF	1381	45%	1.10	30.4	4.9	81.9
FM 1944 GLB2	1431	41%	1.20	30.4	4.8	83.0
NG 1511 B2RF	1369	42%	1.10	33.8	5.1	83.3
NG 5315 B2RF	1194	42%	1.20	33.0	4.9	84.2
PHY 339 WRF	1529	45%	1.10	33.7	4.6	83.7
PHY 499 WRF	1598	43%	1.15	35.7	4.9	84.2
ST 4946 GLB2	1330	44%	1.16	35.4	4.8	83.9
ST 5288 B2RF	1502	43%	1.13	31.0	5.1	82.7
ST 6448 GLB2	1435	44%	1.22	29.6	4.8	83.5
Location:	Northeast RS, Tensas		Seed Rate:	48,000/A		
Grower:	Warren Ratcliff		Row Width:	38"		Plant Date: 5/24/2013
Coordinator:	Grayson Close		Soil Series:	Commerce Silt Loam		Harvest Date: 10/24/2013
County Agent:	Sebe Brown					
DP 1133 B2RF	1386	42%	1.20	33.5	4.9	84.1
DP 1311 B2RF	1259	41%	1.20	31.0	4.4	82.9
FM 1944 GLB2	1623	47%	1.20	32.0	4.6	84.0
NG 1511 B2RF	1428	36%	1.20	33.0	4.9	83.3
NG 5315 B2RF	985	32%	1.20	31.0	4.8	83.6
PHY 339 WRF	1616	45%	1.20	31.9	4.5	84.0
PHY 499 WRF	1238	38%	1.15	34.4	4.9	85.4
ST 4946 GLB2	1492	41%	1.16	33.2	5.0	84.6
ST 5288 B2RF	1277	36%	1.16	31.3	4.8	83.7
ST 6448 GLB2	1331	42%	1.23	30.0	4.9	83.9
Location:	Caddo		Seed Rate:	42,000/A		
Grower:	Ryan Kirby		Row Width:	38"		Plant Date: 4/29/2013
Coordinator:	Grayson Close		Soil Series:	Severn Very Fine Sandy Loam		Harvest Date: 10/9/2013
County Agent:	John Terrell					
DP 1133 B2RF	1589	40%	1.20	33.3	4.3	84.3
DP 1311 B2RF	1754	43%	1.20	30.4	4.0	83.4
FM 1944 GLB2	1691	39%	1.20	30.1	4.3	83.3
NG 1511 B2RF	1532	40%	1.20	32.1	4.3	84.0
NG 5315 B2RF	1386	42%	1.20	32.9	4.4	84.3
PHY 339 WRF	1799	40%	1.20	30.9	4.5	83.6
PHY 499 WRF	1691	42%	1.16	34.9	4.6	84.4
ST 4946 GLB2	1746	39%	1.17	34.7	4.1	84.2
ST 5288 B2RF	1488	37%	1.17	29.7	4.3	82.9
ST 6448 GLB2	1456	37%	1.23	28.1	4.1	82.1
Location:	Red River RS, Bossier		Seed Rate:	44,000/A		
Grower:	William Waltman		Row Width:	40"		Plant Date: 5/13/2013
Coordinator:	Grayson Close		Soil Series:	Caplis Very Fine Sandy Loam		Harvest Date: 10/8/2013
County Agent:						
DP 1133 B2RF	1136	44%	1.20	33.8	4.8	83.3
DP 1311 B2RF	1324	40%	1.10	29.9	4.3	81.4
FM 1944 GLB2	1177	40%	1.10	31.3	4.1	82.8
NG 1511 B2RF	1178	41%	1.10	33.7	4.1	83.9
NG 5315 B2RF	1373	41%	1.10	31.2	4.1	82.9
PHY 339 WRF	1318	44%	1.20	32.5	4.4	83.2
PHY 499 WRF	1214	44%	1.12	31.9	4.6	84.1
ST 4946 GLB2	1037	43%	1.13	34.4	3.8	83.1
ST 5288 B2RF	1197	41%	1.12	29.0	4.5	83.2
ST 6448 GLB2	1275	40%	1.13	27.0	4.6	81.7

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