



**2019**

**COTTON**

**VARIETIES**

**FOR**

**LOUISIANA**

**Variety Trials and On-Farm Demonstrations**

# Table of Contents

<b>Introduction; Choosing Varieties; Fiber Properties; Using the Data</b> .....	3
<b>Selecting Varieties; Transgenic Traits</b> .....	4
<b>Seeding Rate and Stand</b> .....	5
<b>Nitrogen Management</b> .....	6
<b>Table 1.</b> Participating seed companies and varieties entered .....	7
<b>Table 2.</b> Cultural practices for the cotton official variety trials.....	7
<b>Table 3.</b> Two-year lint yield performance for the cotton varieties across seven locations .....	8
<b>Table 4.</b> One-year lint yield performance for the cotton varieties across seven locations .....	9
<b>Table 5.</b> Lint yield performance, fiber characteristics, loan value and dollar return per acre, Dean Lee Research Station OVT, nonirrigated Latanier clay.....	10
<b>Table 6.</b> Lint yield performance, fiber characteristics, loan value and dollar return per acre, Dean Lee Research Station OVT, nonirrigated Coushatta silt loam.....	11
<b>Table 7.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Macon Ridge Research Station OVT, irrigated Gigger silt loam .....	12
<b>Table 8.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Northeast Research Station OVT, irrigated Sharkey clay .....	13
<b>Table 9.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Northeast Research Station OVT, irrigated Commerce silt loam .....	14
<b>Table 10.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Red River Research Station OVT, irrigated Moreland clay.....	15
<b>Table 11.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Red River Research Station OVT, irrigated Caplis very fine sandy loam.....	16
<b>Table 12.</b> Summary of lint yield performance for the on-farm core block demonstrations across locations.....	17
<b>Table 13.</b> Summary of percent turn-out for the on-farm core block demonstrations across locations .....	17
<b>Table 14.</b> Summary of micronaire values for the on-farm core block demonstrations across locations .....	18
<b>Table 15.</b> Summary of fiber length values for the on-farm core block demonstrations across locations.....	18
<b>Table 16.</b> Summary of fiber strength values for the on-farm core block demonstrations across locations.....	19
<b>Table 17.</b> Summary of fiber uniformity values for the on-farm core block demonstrations across locations.....	19
<b>Table 18.</b> Summary of loan values for the on-farm core block demonstrations across locations .....	20
<b>Table 19.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre of on-farm core block demonstration, Avoyelles Parish .....	20
<b>Table 20.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre of on-farm core block demonstration, Catahoula Parish.....	21
<b>Table 21.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre of on-farm core block demonstration, East Carroll Parish.....	21
<b>Table 22.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Ouachita Parish.....	22
<b>Table 23.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre of on-farm core block demonstration, Rapides Parish .....	22
<b>Table 24.</b> Lint yield performance, fiber characteristics, loan values and dollar return per acre, Rapides Parish on-farm core block demonstration .....	23

## Introduction

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

These AgCenter locations are the 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 to 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. Therefore, this publication strives to provide growers with as much information as possible concerning cotton variety performance over a range of soil textures and conditions. The observations and data concerning the 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 never can identify the best single variety for soils and conditions. As such, producers should plant multiple varieties selected from the top performers in the variety trials closest to their production region. This strategy will help mitigate risks from adverse environmental conditions.

Individual varieties always differ in performance 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 official variety trials were determined with the same high-volume instrumentation classing system used by the U.S. Department of Agriculture 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. Seed cotton samples were ginned with small plot research gins that do not have lint cleaners. This method will produce higher lint percentages than would normally be received from a commercial gin. A 41-4 color and leaf grade was used on all fiber samples to determine loan values.

## 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.

Top-yielding varieties often have no statistical differences between them 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 performances 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 taken into account, 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 using 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 shaded print. To identify promising varieties that are new to the market and have only one year of testing in the LSU AgCenter official variety trials, a multilocation analysis should be performed. Producers should review the data tables for variety performance at the closest location that most represents their individual farms, and they also should 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 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 to 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, followed by resistant johnsongrass in 2010. Consult the LSU AgCenter 2019 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 applications 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 2019 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 applications 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.

**XTendFlex:** In 2015, Delta Pine varieties with the designation "XF" became available, and they are transgenic cotton lines that are tolerant to over-the-top applications of dicamba, glyphosate and glufosinate. This was the first cotton technology with tolerance to three herbicides. These varieties offer the potential of alternating 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 these weeds are large and well-developed.

**Enlist:** In 2016, Phytogen varieties with the designation "FE" became available, and they are transgenic cotton lines tolerant to over-the-top applications of 2,4-D; glyphosate; and glufosinate. This is the second cotton technology that now offers tolerance to three herbicides. Weeds still should be controlled early, when they are small and actively growing. Producers are cautioned to avoid late, low-dose applications of these nonselective herbicides when these weeds are large and well-developed.

**Bollgard II:** Varieties with the designation "B2" or "BG2" in their brand names are cotton lines tolerant to the Louisiana caterpillar pest known as the tobacco

budworm. After the successful introduction of Bollgard II 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 II 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 II 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.

**Bollgard 3:** In 2017, varieties with the designation “B3” in their brand names became available. Bollgard 3 offers three Bt proteins for greater technology durability and improved resistance management. The addition of the third protein reinforces the Bt proteins found in Bollgard II. Having three proteins will increase the longevity of the technology. Each will have a different mode of action or kill the larvae in a different way. There is a decreased likelihood of supplemental applications to control worm pests as a result of enhanced three-gene activity.

**Widestrike:** PhytoGen varieties with designation “W” or “W3” in their brand names are cotton lines tolerant to the Louisiana caterpillar pests known as tobacco budworms and fall armyworms. These varieties should not need any supplemental insecticidal sprays for controlling those pests. The characteristics and insect management recommendations previously mentioned for Bollgard II traits remain the same for the Widestrike trait in PhytoGen varieties.

**Twinlink:** In 2014, Stoneville varieties with the designation “T” in their brand names became available, and these are tolerant to the tobacco budworm. Also, they provide reduced bollworm damage through superior bollworm protection comparable to Bollgard II and significant reduction in damage caused by armyworms when compared to non-Bt cotton. Under high and persistent populations of bollworms and armyworms, supplemental chemical control strategies will be necessary for satisfactory management practices.

**Twinlink Plus:** In 2016, Stoneville varieties with the designation “TP” in their brand names became available. Twinlink plus offers three Bt proteins for greater technology durability and improved resistance management. There is a decreased likelihood of supplemental applications to control worm pests as a result of enhanced three-gene activity.

**Root-knot nematode:** Since 2015, several companies have been marketing cotton varieties with tolerance to the root-knot nematode. This is not a transgenic technology. Planting 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, however, is more important than determining what actually is the good or bad cool germination rate. 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 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 is Louisiana for cotton is between April 15 and May 15. Earlier planting are possible without causing significant yield loss, but there is the risk of cold damage or reduced ability of the plants to recover from thrips 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 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.

## Nitrogen Management

Once the cotton stand has been established, nitrogen applications will be made for the upcoming season. Recommended nitrogen rates are 60-90 pounds per acre for course-textured soils and 90-120 pounds per acre for high clay soils. The lower recommended rates should be used on fields that are following soybeans, corn, legume cover crops or fields with a history of excessive stalk growth.

Caution should be used to not apply more nitrogen than what is going to be required by the cotton plant, since excessively high nitrogen rates can produce very tall and rank cotton. This increased vegetative growth will hinder reproductive growth and, ultimately,

yield. Furthermore, to limit this excessive growth, producers will have to rely heavily on mepiquat chloride applications to control plant height, creating the potential for making the cotton plant harder to defoliate at the end of season. Excessive nitrogen, especially in combination with high amounts of late season rainfall, can delay maturity, reduce harvesting and ginning percentages, and promote boll shedding and boll rot.

Also, best management practices would suggest making split applications of nitrogen, especially on sandy soils with a high leaching potential or soils with a high saturation potential, because of denitrification losses. For split nitrogen applications, a third to half should be applied at planting with the remainder being applied by early bloom at the latest.

**Nitrogen Rates for Cotton in Louisiana.**

<b>Soil Type</b>	<b>Dryland</b>	<b>Irrigated</b>
Clay	90-120	100-120
Clay Loam	90-120	100-120
Fine Sandy Loam	60-90	60-90
Loamy Sand	60-90	60-90
Silt Clay	90-120	100-120
Silt Clay Loam	90-120	100-120
Silt Loam	60-90	60-90
Very Fine Sandy Loam	60-90	60-90

**Table 1. Participating seed companies and varieties entered, 2018.**

Company						
Americot (8)	CropLan (3)	Deltapine (8)	Dyna-Gro (11)	Phytogen (18)	Seed Source Genetics (2)	Stoneville (10)
NG3699B2XF	CL3885B2XF	DP1725B2XF	CPS1702GLT	PHY300W3FE	UA22	ST5517GLTP
NG3729B2XF	CL18XC9B3XF	DP1851B3XF	CPS18501-BB3XF	PHY312WRF	UA114	ST5020GLT
NG4601B2XF	CL9608B3XF	DP1835B3XF	CPS18502-ABX3F	PHY330W3FE		ST5122GLT
NG4689B2XF		DP1820B3XF	CPS18503-DB3XF	PHY340W3FE		ST4949GLT
NG4777B2XF		DP1518B2XF	DG3214B2XF	PHY430W3FE		BX1973GLTP
NG5007B2XF		DP1555B2RF	DG3433B2XF	PHY440W3FE		BX1974GLTP
NG5711B3XF		DP1646B2XF	DG3526B2XF	PHY444WRF		BX1975GLTP
AMX1801B3XF		DP1845B3XF	DG3605B2XF	PHY480W3FE		BX1976GLTP
			DG3757B2XF	PHY320W3FE		ST5471GLTP
			CPS18817B3XF	PHY350W3FE		ST5818GLTP
			CPS18827B3XF	PX3B07W3FE		
				PX3B09W3FE		
				PX3C06W3FE		
				PX4A64W3FE		
				PX4A69W3FE		
				PX5B7 W3FE		
				PHY580W3FE		
				PX5D28BW3FE		

**Table 2. Cultural practices for the cotton official variety trials managed at the LSU AgCenter research stations, 2018.**

Event	Dean Lee Alexandria		Northeast St. Joseph		Macon Ridge Winnsboro	Red River Bossier City	
	Silt Loam	Clay	Silt Loam	Clay	Silt Loam	V. Fine Sandy Loam	Clay
Planting date	5/1	5/1	5/10	5/10	5/9	5/16	5/10
Emergence	5/6	5/6	5/15	5/15	5/14	5/21	5/15
Row spacing	38	38	40	40	40	40	40
Seeding rate	45,870	45,870	45,850	45,850	45,850	45,850	45,850
Previous crop	soybeans	soybeans	corn	corn	soybeans	corn	sorghum
Irrigation	no	no	yes	yes	yes	yes	yes
No. Irrigation events			2	2	3	3	2
N, P, K (lbs.)	60-32-63-6	90-32-63-6	60-120-120-11	80-60-60-14	100-50-50-18	65-32-0-0	65-32-0-0
Defoliation dates	9/5, 9/16	9/5, 10/1	9/18, 9/28	9/14, 9/20	9/19, 9/24	9/28, 10/8	10/22, 10/31
Harvest date	9/19	10/4	10/8	10/5	10/2	10/31	12/6
Plot sizes (harvested)	2 rows by 50 feet	2 rows by 50 feet	2 rows by 45 feet	2 rows by 45 feet	2 rows by 40 feet	2 rows by 50 feet	2 rows by 50 feet
<b>Trial</b>	<b>GPS Location</b>						
Dean Lee-clay	31.10655N, 92.23362W						
Dean Lee-silt loam	31.10866N, 92.24315W						
Northeast-clay	31.938481N, 91.23995W						
Northeast-silt loam	31.949478N, 91.227928W						
Macon Ridge-silt loam	32.141842N, 91.700928W						
Red River-silt loam	32.24925N, 93.38540W						
Red River-clay	32.25115N, 93.38304W						

**Table 3. Two-year lint yield performance of cotton varieties planted across locations, 2017-2018.**

Variety	2017										2018										Average across locations					
	Alexandria			Winnsboro			St. Joseph			Bossier City			Alexandria			Winnsboro			St. Joseph			Bossier City			2018 Average	
	Clay	Silt loam	Sandy loam	Silt loam	Silt loam	Sandy loam	Clay	Silt loam	Sandy loam	Clay	Silt loam	Sandy loam	Clay	Silt loam	Sandy loam	Clay	Silt loam	Sandy loam	Clay	Silt loam		Sandy loam	Clay	Silt loam		Sandy loam
CL9608B3XF	1,765	1,011	1,245	1,118	1,094	1,195	1,031	1,208	2,104	2,340	1,639	1,334	1,218	930	1,060	1,518	1,363									
PHY480W3FE	1,830	913	1,347	1,274	1,237	1,308	1,131	1,291	2,074	1,974	1,661	1,260	1,091	949	885	1,413	1,352									
DP1646B2XF	1,781	1,320	1,462	1,167	1,014	1,064	830	1,234	2,303	2,205	1,363	1,442	1,172	901	888	1,468	1,351									
DP1518B2XF	1,877	1,406	1,294	1,153	961	1,236	924	1,264	2,113	1,961	1,432	1,311	1,183	1,139	599	1,391	1,328									
DP1835B3XF	1,871	1,038	1,374	1,325	1,133	1,196	1,341	1,325	1,584	1,950	1,345	1,150	1,190	1,045	996	1,323	1,324									
DP1555B2RF	1,780	1,089	1,333	988	1,363	1,040	693	1,183	2,206	2,035	1,602	1,258	1,317	959	800	1,454	1,319									
DG3605B2XF	1,783	1,076	1,321	1,131	1,095	1,035	906	1,192	2,293	2,314	1,245	1,306	1,102	872	967	1,443	1,317									
PHY340W3FE	1,795	1,292	1,190	1,188	754	1,060	746	1,147	2,217	2,393	1,318	1,472	1,130	980	712	1,460	1,303									
NG4601B2XF	1,707	1,062	1,302	1,206	895	1,010	753	1,134	2,275	2,352	1,332	1,282	1,070	1,098	901	1,473	1,303									
PHY312WRF	1,839	1,279	1,211	1,208	764	1,027	810	1,163	1,994	2,145	1,487	1,318	1,200	1,031	883	1,437	1,300									
PHY300W3FE	1,911	1,037	1,135	1,197	908	1,172	944	1,186	2,160	2,103	1,474	1,271	1,163	761	857	1,398	1,292									
PHY330W3FE	1,754	1,344	1,287	1,163	861	1,134	958	1,214	1,772	1,960	1,583	1,070	1,308	774	780	1,321	1,268									
DP1845B3XF	1,715	984	1,282	1,098	846	1,131	825	1,126	2,116	2,287	1,343	1,364	1,091	608	897	1,387	1,256									
DG3214B2XF	1,683	1,319	1,217	862	823	1,057	909	1,124	1,974	2,001	1,435	1,188	1,187	881	839	1,358	1,241									
PHY444WRF	1,592	1,085	1,157	1,337	902	833	770	1,096	1,823	2,004	1,537	1,220	1,123	1,180	806	1,385	1,241									
DG3526B2XF	1,790	1,162	1,211	1,081	950	989	952	1,162	1,703	1,812	1,519	1,204	1,134	827	1,020	1,317	1,239									
ST4949GLT	1,703	1,073	1,257	1,074	1,039	1,013	916	1,154	1,739	2,015	1,260	1,150	1,093	1,188	825	1,324	1,239									
ST5020GLT	1,788	1,298	1,149	865	784	1,134	788	1,115	1,854	1,970	1,502	1,079	937	1,119	788	1,321	1,218									
NG5007B2XF	1,640	974	1,138	1,036	941	892	641	1,037	2,166	1,653	1,342	1,239	1,123	1,109	981	1,373	1,205									
PHY440W3FE	1,823	987	1,108	1,226	941	1,063	721	1,124	1,844	1,766	1,384	1,005	955	1,173	662	1,256	1,190									
DG3757B2XF	1,643	869	1,186	1,103	957	935	533	1,032	2,115	1,694	1,422	1,292	1,140	871	726	1,323	1,178									
NG4689B2XF	1,565	1,408	1,057	1,052	719	959	530	1,041	1,806	1,741	1,217	1,166	1,021	1,126	650	1,247	1,144									
ST5517GLTP	1,593	851	1,113	1,079	876	1,035	682	1,033	1,783	1,595	1,284	1,111	995	1,057	816	1,234	1,134									
CPS1702GLT	1,637	913	1,099	1,001	828	1,071	613	1,023	1,634	1,434	1,386	1,319	932	900	725	1,190	1,106									
UA222	1,682	1,105	1,186	1,077	1,116	797	477	1,063	1,188	1,188	1,114	1,112	1,130	678	766	1,025	1,044									
Overall mean	1,742	1,116	1,226	1,120	952	1,055	817	1,147	1,953	1,956	1,409	1,237	1,120	966	833	1,353	1,250									



**Table 4. One-year lint yield performance of cotton varieties planted at seven locations, 2018.**

	Alexandria		Winnsboro	St. Joseph		Bossier City		Average across locations
	Clay	Silt loam	Silt loam	Clay	Silt loam	Clay	Sandy loam	
Variety	Lint yield (pounds/acre)							
PX3B07W3FE	2,406	2,444	1,496	1,452	1,370	780	998	1,564
CL9608B3XF	2,104	2,340	1,639	1,334	1,218	930	1,060	1,518
DP1725B2XF	2,272	2,208	1,579	1,269	1,101	1,124	1,002	1,508
NG3729B2XF	2,086	2,110	1,548	1,376	1,308	1,097	842	1,481
PHY580W3FE	2,360	2,088	1,558	1,355	1,193	956	848	1,480
NG4601B2XF	2,275	2,352	1,332	1,282	1,070	1,098	901	1,473
PX5D28B3FE	2,148	2,159	1,437	1,385	1,209	1,167	777	1,469
PX3B09W3FE	1,966	2,127	1,552	1,350	1,280	1,126	878	1,468
DP1646B2XF	2,303	2,205	1,363	1,442	1,172	901	888	1,468
PX3C06W3FE	2,425	2,156	1,513	1,283	1,180	971	725	1,464
CPS18827B3XF	2,015	2,065	1,575	1,506	1,182	990	904	1,462
PHY340W3FE	2,217	2,393	1,318	1,472	1,130	980	712	1,460
DP1555B2RF	2,206	2,035	1,602	1,258	1,317	959	800	1,454
CPS18817B3XF	2,238	2,110	1,425	1,170	1,109	1,255	865	1,453
PX4A69W3FE	2,391	1,988	1,610	1,300	981	1,071	759	1,443
DG3605B2XF	2,293	2,314	1,245	1,306	1,102	872	967	1,443
DP1851B3XF	2,215	1,999	1,364	1,329	1,129	998	1,042	1,439
CL3885B2XF	2,597	1,771	1,313	1,232	1,135	1,169	850	1,438
PHY312WRF	1,994	2,145	1,487	1,318	1,200	1,031	883	1,437
PHY350W3FE	2,325	2,056	1,364	1,327	1,127	945	801	1,421
PHY480W3FE	2,074	1,974	1,661	1,260	1,091	949	885	1,414
PHY300W3FE	2,160	2,103	1,474	1,271	1,163	761	857	1,398
DP1518B2XF	2,113	1,961	1,432	1,311	1,183	1,139	599	1,391
DP1845B3XF	2,116	2,287	1,343	1,364	1,091	608	897	1,387
PHY444WRF	1,823	2,004	1,537	1,220	1,123	1,180	806	1,385
PX5B7 W3FE	1,578	2,004	1,597	1,214	1,066	1,113	1,082	1,379
ST5471GLTP	1,930	1,859	1,449	1,143	1,163	985	1,122	1,379
PX4A64W3FE	1,944	1,963	1,442	1,271	1,144	971	904	1,377
NG5007B2XF	2,166	1,653	1,342	1,239	1,123	1,109	981	1,373
NG5711B3XF	2,249	1,827	1,362	1,176	1,004	993	967	1,368
DG3214B2XF	1,974	2,001	1,435	1,188	1,187	881	839	1,358
BX1973GLTP	1,270	2,131	1,413	1,254	1,322	1,176	824	1,341
ST4949GLT	1,739	2,015	1,260	1,150	1,093	1,188	825	1,324
DG3757B2XF	2,115	1,694	1,422	1,292	1,140	871	726	1,323
DP1835B3XF	1,584	1,950	1,345	1,150	1,190	1,045	996	1,323
ST5020GLT	1,854	1,970	1,502	1,079	937	1,119	788	1,321
PHY330W3FE	1,772	1,960	1,583	1,070	1,308	774	780	1,321
DG3526B2XF	1,703	1,812	1,519	1,204	1,134	827	1,020	1,317
CPS18501-BB3XF	1,849	1,551	1,547	1,243	1,123	1,098	793	1,315
PHY320W3FE	1,807	1,927	1,229	1,299	1,201	850	832	1,306
PHY430W3FE	1,526	2,178	1,441	1,265	1,122	822	764	1,302
CPS18503-DB3XF	1,932	1,587	1,480	1,227	1,249	622	987	1,298
ST5818GLTP	1,905	1,806	1,326	1,040	1,105	940	859	1,283
DG3433B2XF	1,776	1,813	1,266	1,209	997	1,047	712	1,260
BX1975GLTP	1,537	1,840	1,461	1,156	945	1,203	678	1,260
PHY440W3FE	1,844	1,766	1,384	1,005	955	1,173	662	1,256
NG4689B2XF	1,806	1,741	1,217	1,166	1,021	1,126	650	1,247
ST5517GLTP	1,783	1,595	1,284	1,111	995	1,057	816	1,234
CL18XC9B3XF	1,770	1,702	1,131	1,227	1,002	929	819	1,226
ST5122GLT	1,890	1,731	1,182	1,083	987	836	771	1,211
NG4777B2XF	1,763	1,539	1,269	1,221	921	1,127	522	1,195
AMX1801B3XF	1,258	1,810	1,395	984	1,113	911	875	1,192
CPS18502-ABX3F	1,173	1,951	1,473	1,260	1,189	630	667	1,192
CPS1702GLT	1,634	1,434	1,386	1,319	932	900	725	1,190
DP1820B3XF	1,633	1,801	1,276	979	860	875	866	1,184
BX1974GLTP	1,398	1,603	1,430	1,143	1,010	986	694	1,181
NG3699B2XF	1,522	1,785	1,315	1,057	867	1,068	638	1,179
BX1976GLTP	1,399	1,609	1,324	876	929	925	1,000	1,152
UA114	1,598	1,555	1,144	1,089	1,047	914	616	1,137
UA222	1,188	1,188	1,114	1,112	1,130	678	766	1,025
Overall mean	1,916	1,929	1,409	1,228	1,111	982	835	
LSD (0.05)	411.46	273.89	206.45	137.83	156.47	256.76	192.39	
C.V. (%)	12.85	12.14	12.54	10.75	13.48	19.32	19.70	

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 5. Lint yield performance, fiber characteristics, loan values, and dollar return per acre of cotton varieties grown on a non-irrigated Latanier clay at the Dean Lee Research Station, Alexandria, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
CL3885B2XF	2,597	43.3	4.3	1.23	30.8	84.6	54.47	1,411.03
PX3C06W3FE	2,425	41.6	4.1	1.23	31.7	84.6	54.58	1,320.18
PX3B07W3FE	2,406	43.1	4.0	1.25	33.8	85.1	54.85	1,319.42
PX4A69W3FE	2,391	44.9	3.7	1.25	33.0	84.2	54.65	1,306.69
PHY580W3FE	2,360	44.0	4.0	1.22	33.2	85.0	54.75	1,293.21
PHY350W3FE	2,325	42.5	4.1	1.24	31.2	84.8	54.58	1,268.06
DP1646B2XF	2,303	43.1	4.1	1.28	29.8	85.1	54.53	1,258.37
DG3605B2XF	2,293	42.9	3.9	1.29	31.9	84.9	54.65	1,251.66
NG4601B2XF	2,275	43.5	4.2	1.22	34.4	84.4	54.72	1,244.40
DP1725B2XF	2,272	44.9	4.3	1.22	31.8	84.5	54.50	1,237.95
NG5711B3XF	2,249	42.5	4.1	1.27	31.4	83.5	54.55	1,226.63
CPS18817B3XF	2,238	43.6	4.3	1.17	30.1	85.1	54.32	1,219.00
PHY340W3FE	2,217	43.9	4.2	1.21	30.5	84.5	54.45	1,208.82
DP1851B3XF	2,215	42.3	3.8	1.23	34.6	84.4	54.75	1,213.95
DP1555B2RF	2,206	42.6	4.3	1.24	32.8	85.0	54.63	1,207.31
NG5007B2XF	2,166	41.9	4.2	1.19	28.8	83.3	54.10	1,173.94
PHY300W3FE	2,160	43.8	4.1	1.18	32.3	83.4	54.53	1,176.67
PX5D28BW3FE	2,148	42.9	3.8	1.21	34.5	85.1	54.78	1,176.87
DP1845B3XF	2,116	43.2	3.9	1.31	32.5	84.3	54.65	1,156.40
DG3757B2XF	2,115	42.8	4.2	1.20	30.2	84.7	54.47	1,153.00
DP1518B2XF	2,113	42.3	4.2	1.22	30.1	84.4	54.48	1,148.18
CL9608B3XF	2,104	45.8	4.2	1.19	29.1	82.4	54.07	1,140.37
NG3729B2XF	2,086	39.2	4.5	1.25	30.6	85.5	54.50	1,079.88
PHY480W3FE	2,074	40.8	4.0	1.22	31.0	85.3	54.62	1,134.13
CPS18827B3XF	2,015	43.2	4.4	1.19	31.8	83.6	54.47	1,097.28
PHY312WRF	1,994	40.2	4.2	1.24	32.5	86.3	54.77	1,094.25
DG3214B2XF	1,974	40.8	4.7	1.23	31.2	86.9	54.72	1,080.50
PX3B09W3FE	1,966	42.1	3.9	1.22	33.1	84.8	54.72	1,075.42
PX4A64W3FE	1,944	44.0	4.0	1.18	34.3	85.5	54.82	1,065.11
CPS18503-DB3XF	1,932	41.9	4.1	1.23	31.8	84.5	54.55	1,055.67
ST5471GLTP	1,930	41.2	4.2	1.23	32.3	83.8	54.55	1,054.47
ST5818GLTP	1,905	39.7	4.1	1.25	32.9	84.1	54.68	1,039.85
ST5122GLT	1,890	38.9	4.3	1.22	31.6	83.6	54.38	1,029.49
ST5020GLT	1,854	39.0	4.5	1.26	33.0	85.7	54.72	1,013.90
CPS18501-BB3XF	1,849	38.5	3.6	1.26	33.5	85.4	53.95	989.72
PHY440W3FE	1,844	42.9	3.7	1.26	32.2	84.3	54.53	1,007.61
PHY444WRF	1,823	42.5	3.5	1.28	31.9	85.6	54.68	996.43
PHY320W3FE	1,807	41.5	4.0	1.21	32.7	85.2	54.72	988.13
NG4689B2XF	1,806	40.9	4.6	1.19	30.5	83.7	54.38	981.72
ST5517GLTP	1,783	38.1	3.9	1.22	34.1	84.0	54.64	973.96
DG3433B2XF	1,776	40.8	4.2	1.15	27.5	82.9	53.98	957.42
PHY330W3FE	1,772	42.7	4.1	1.21	32.0	84.7	54.67	968.64
CL18XC9B3XF	1,770	41.8	4.3	1.27	31.8	83.4	54.47	964.27
NG4777B2XF	1,763	40.7	4.4	1.22	32.1	84.5	54.60	1,039.43
ST4949GLT	1,739	42.8	4.5	1.19	31.5	84.6	54.52	946.72
DG3526B2XF	1,703	44.5	4.4	1.19	32.2	85.0	54.60	931.51
CPS1702GLT	1,634	40.7	4.1	1.19	33.3	83.9	54.60	891.71
DP1820B3XF	1,633	43.9	4.5	1.24	34.4	84.8	54.65	891.64
UA114	1,598	37.9	4.6	1.25	33.5	85.0	54.68	873.83
DP1835B3XF	1,584	44.1	4.2	1.25	31.3	84.1	54.58	864.99
PX5B7 W3FE	1,578	42.5	4.1	1.21	31.1	84.3	54.57	862.51
BX1975GLTP	1,537	43.4	4.3	1.26	31.1	84.5	54.43	830.96
PHY430W3FE	1,526	43.9	4.1	1.19	34.6	84.6	54.68	834.57
NG3699B2XF	1,522	38.9	4.2	1.23	31.3	83.7	54.38	828.18
BX1976GLTP	1,399	44.0	4.7	1.20	33.4	84.2	54.58	763.71
BX1974GLTP	1,398	43.1	4.2	1.22	31.6	84.2	54.50	762.17
BX1973GLTP	1,270	44.7	4.3	1.22	33.7	85.6	54.80	758.28
AMX1801B3XF	1,258	41.2	4.3	1.26	30.7	85.5	54.58	661.00
UA222	1,188	39.1	4.0	1.30	33.0	85.2	54.75	651.59
CPS18502-ABX3F	1,173	41.4	4.2	1.24	32.3	85.0	54.65	640.67
Overall mean	1,916	42.1	4.167	1.2272	32.029	84.56	54.56	1,054.83
LSD (0.05)	411.46	1.837	0.216	0.0342	1.547	1.275	0.3384	231.7
C.V. (%)	12.85	3.22	3.82	2.06	3.57	1.11	0.46	13.13

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 6. Lint yield performance, fiber characteristics, loan values and dollar return per acre of cotton varieties grown on a non-irrigated Coushatta silt loam soil at the Dean Lee Research Station, Alexandria, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
PX3B07W3FE	2,444	43.8	4.4	1.27	36.1	85.9	54.79	1,339.23
PHY340W3FE	2,393	45.9	4.3	1.24	33.1	86.0	54.75	1,310.79
NG4601B2XF	2,352	43.5	4.6	1.25	35.1	86.0	54.79	1,288.80
CL9608B3XF	2,340	45.7	4.3	1.23	31.5	84.6	54.45	1,275.13
DG3605B2XF	2,314	44.8	4.3	1.30	32.8	85.0	54.67	1,264.42
DP1845B3XF	2,287	44.1	4.0	1.32	33.5	85.2	54.74	1,250.79
DP1725B2XF	2,208	45.2	4.4	1.24	32.1	85.1	54.62	1,206.75
DP1646B2XF	2,205	44.7	4.4	1.29	31.7	84.8	54.58	1,203.31
PHY430W3FE	2,178	43.8	4.2	1.19	34.7	84.9	54.72	1,191.63
PX5D28BW3FE	2,159	44.3	4.2	1.21	36.9	85.7	54.85	1,184.00
PX3C06W3FE	2,156	42.9	4.3	1.24	31.9	84.4	54.58	1,175.64
PHY312WRF	2,145	41.4	4.4	1.27	33.4	86.8	54.37	1,164.18
BX1973GLTP	2,131	45.2	4.4	1.22	35.1	86.0	54.83	1,168.57
PX3B09W3FE	2,127	43.6	4.3	1.24	33.8	85.7	54.81	1,165.41
CPS18817B3XF	2,110	44.0	4.8	1.21	32.8	84.9	54.15	1,139.17
NG3729B2XF	2,110	41.1	4.7	1.28	32.0	87.6	54.28	1,143.76
PHY300W3FE	2,103	43.9	4.2	1.22	33.7	84.9	54.73	1,150.34
PHY580W3FE	2,088	45.2	4.4	1.24	35.0	86.3	54.85	1,145.27
CPS18827B3XF	2,065	45.4	4.7	1.19	33.1	83.1	54.46	1,124.72
PHY350W3FE	2,056	41.6	4.3	1.25	33.3	86.2	54.83	1,126.84
DP1555B2RF	2,035	44.8	4.6	1.23	34.4	85.5	54.73	1,113.85
ST4949GLT	2,015	44.3	4.4	1.18	32.3	85.6	54.68	1,101.34
PHY444WRF	2,004	42.7	3.8	1.31	33.2	86.2	54.89	1,100.18
PX5B7 W3FE	2,004	41.5	4.4	1.24	33.4	85.6	54.77	1,097.42
DG3214B2XF	2,001	41.7	4.7	1.24	33.3	85.9	54.29	1,083.22
DP1851B3XF	1,999	42.9	4.2	1.24	36.4	85.6	54.85	1,095.65
PX4A69W3FE	1,988	43.3	3.7	1.25	33.5	85.9	54.37	1,079.69
PHY480W3FE	1,974	43.6	4.3	1.24	33.9	86.2	54.81	1,082.46
ST5020GLT	1,970	40.1	4.3	1.27	34.9	86.3	54.89	1,081.59
PX4A64W3FE	1,963	43.4	4.1	1.20	34.8	85.3	54.78	1,074.52
DP1518B2XF	1,961	43.9	4.2	1.23	31.5	85.6	54.67	1,072.56
PHY330W3FE	1,960	44.0	4.4	1.23	33.8	85.9	54.79	1,074.53
CPS18502-ABX3F	1,951	43.3	4.4	1.24	33.9	85.4	54.73	1,068.18
DP1835B3XF	1,950	45.5	4.5	1.25	33.1	84.6	54.63	1,066.43
PHY320W3FE	1,927	43.2	4.0	1.24	35.2	86.4	54.91	1,057.86
ST5471GLTP	1,859	40.9	4.5	1.21	34.2	84.0	54.63	1,015.74
BX1975GLTP	1,840	41.9	4.5	1.23	32.9	84.9	54.67	1,006.54
NG5711B3XF	1,827	42.9	4.4	1.30	33.0	85.6	54.73	999.35
DG3433B2XF	1,813	42.2	4.5	1.14	28.9	83.4	53.91	978.56
DG3526B2XF	1,812	43.7	4.4	1.20	31.8	85.5	54.64	989.45
AMX1801B3XF	1,810	41.1	4.4	1.25	31.3	85.8	54.57	987.32
ST5818GLTP	1,806	39.8	4.6	1.26	35.1	85.4	54.73	988.75
DP1820B3XF	1,801	45.6	4.6	1.28	35.3	85.8	54.77	985.95
NG3699B2XF	1,785	40.1	4.2	1.27	34.3	85.8	54.83	979.10
CL3885B2XF	1,771	43.0	4.3	1.21	32.8	85.3	54.67	968.11
PHY440W3FE	1,766	43.1	4.1	1.27	35.5	86.6	54.89	969.31
NG4689B2XF	1,741	40.6	4.6	1.22	34.2	85.0	54.69	952.17
ST5122GLT	1,731	40.4	4.6	1.22	34.3	84.6	54.71	947.38
CL18XC9B3XF	1,702	41.9	4.4	1.30	34.1	85.8	54.81	932.88
DG3757B2XF	1,694	44.0	4.6	1.21	31.4	85.6	54.61	925.39
NG5007B2XF	1,653	43.0	4.3	1.23	30.8	84.2	54.43	900.24
BX1976GLTP	1,609	43.0	5.2	1.22	35.8	85.4	52.73	856.67
BX1974GLTP	1,603	44.2	4.4	1.22	32.8	85.3	54.67	876.75
ST5517GLTP	1,595	38.0	4.5	1.23	35.7	84.7	54.67	871.19
CPS18503-DB3XF	1,587	42.4	4.9	1.27	34.1	85.7	54.27	858.97
UA114	1,555	39.5	4.8	1.26	34.2	87.0	54.83	852.41
CPS18501-BB3XF	1,551	40.0	3.8	1.29	33.9	85.3	54.79	850.09
NG4777B2XF	1,539	39.4	4.2	1.24	34.9	85.0	54.75	842.73
CPS1702GLT	1,434	41.3	4.6	1.21	34.6	85.4	54.28	778.80
UA222	1,188	39.3	4.7	1.30	33.3	86.1	54.74	649.94
Overall mean	1,929	42.8	4.399	1.2428	33.643	85.472	54.6277	1,053.87
LSD (0.05)	273.89	1.742	0.194	0.0229	1.112	0.92	0.4664	150.58
C.V. (%)	12.14	3.48	4.23	1.77	3.16	1.03	0.82	12.22

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 7. Lint yield performance, fiber characteristics, loan values and dollar return per acre of cotton varieties grown on an irrigated Gigger silt loam soil at the Macon Ridge Research Station, Winnsboro, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
PHY480W3FE	1,661	43.8	4.5	1.15	32.0	84.8	54.53	905.82
CL9608B3XF	1,639	46.0	4.7	1.16	28.9	83.3	54.06	886.13
PX4A69W3FE	1,610	43.6	4.2	1.19	31.9	83.8	54.41	876.08
DP1555B2RF	1,602	42.9	4.8	1.18	31.8	83.5	53.74	861.33
PX5B7 W3FE	1,597	43.0	4.7	1.15	30.8	83.0	54.18	864.93
PHY330W3FE	1,583	44.0	4.4	1.18	31.3	84.6	54.51	862.82
DP1725B2XF	1,579	45.2	4.7	1.16	29.9	82.7	53.98	852.23
CPS18827B3XF	1,575	45.8	5.0	1.14	29.8	83.0	51.99	821.60
PHY580W3FE	1,558	44.5	4.6	1.13	31.9	83.4	53.35	833.02
PX3B09W3FE	1,552	42.3	4.4	1.19	31.2	83.6	54.40	844.35
NG3729B2XF	1,548	41.5	5.0	1.20	30.2	85.1	53.25	825.69
CPS18501-BB3XF	1,547	39.6	4.2	1.24	32.7	85.8	54.78	847.56
PHY444WRF	1,537	41.7	4.3	1.24	31.8	85.7	54.68	840.41
DG3526B2XF	1,519	42.4	4.8	1.14	30.0	83.6	54.05	821.15
PX3C06W3FE	1,513	42.6	4.6	1.18	30.7	82.5	54.25	821.22
ST5020GLT	1,502	39.7	4.6	1.22	34.6	84.3	54.63	820.46
PX3B07W3FE	1,496	42.6	4.4	1.18	32.6	83.7	54.51	815.79
PHY312WRF	1,487	41.4	4.3	1.20	32.1	84.7	54.58	811.31
CPS18503-DB3XF	1,480	41.7	5.0	1.15	31.9	83.9	52.65	778.90
PHY300W3FE	1,474	44.3	4.6	1.17	29.6	83.4	54.01	796.07
CPS18502-ABX3F	1,473	42.1	4.8	1.18	31.4	84.1	54.49	803.27
BX1975GLTP	1,461	42.7	4.5	1.17	30.6	83.1	54.24	792.38
ST5471GLTP	1,449	41.4	4.8	1.16	31.9	83.3	53.54	778.32
PX4A64W3FE	1,442	44.2	4.4	1.13	33.8	83.7	54.34	783.37
PHY430W3FE	1,441	45.3	4.7	1.15	32.0	84.0	54.15	780.48
PX5D28BW3FE	1,437	45.0	4.5	1.14	34.0	83.9	54.44	782.41
DG3214B2XF	1,435	41.7	5.0	1.19	30.9	85.2	52.88	759.67
DP1518B2XF	1,432	42.3	4.4	1.19	29.4	83.8	54.23	776.50
BX1974GLTP	1,430	42.9	4.8	1.19	31.0	84.7	53.36	763.49
CPS18817B3XF	1,425	41.7	5.1	1.12	30.8	83.0	52.28	748.34
DG3757B2XF	1,422	43.0	5.1	1.13	29.9	83.3	51.60	733.92
BX1973GLTP	1,413	45.3	4.7	1.17	32.8	84.3	53.91	762.50
AMX1801B3XF	1,395	40.8	4.7	1.22	30.5	85.1	54.48	760.25
CPS1702GLT	1,386	38.6	4.7	1.13	31.7	82.7	54.21	751.03
PHY440W3FE	1,384	42.5	4.4	1.21	35.7	84.7	54.71	757.62
PHY350W3FE	1,364	40.4	4.3	1.17	31.1	83.9	54.44	742.74
DP1851B3XF	1,364	43.6	4.8	1.18	33.7	84.2	54.03	737.37
DP1646B2XF	1,363	44.7	4.8	1.22	30.2	84.4	54.29	740.30
NG5711B3XF	1,362	40.6	4.6	1.21	31.3	83.9	54.49	742.17
DP1835B3XF	1,345	44.3	4.8	1.17	30.7	84.3	53.80	724.12
DP1845B3XF	1,343	44.4	4.4	1.25	32.2	83.7	54.53	732.28
NG5007B2XF	1,342	42.5	4.9	1.15	28.7	82.6	52.64	706.44
NG4601B2XF	1,332	42.3	5.1	1.17	33.4	84.3	52.60	703.62
ST5818GLTP	1,326	40.5	4.8	1.17	31.4	83.1	53.21	707.31
BX1976GLTP	1,324	42.9	5.3	1.17	32.8	84.5	51.50	682.71
PHY340W3FE	1,318	43.4	4.7	1.15	31.2	83.8	53.76	708.06
NG3699B2XF	1,315	39.4	4.9	1.22	31.5	83.3	53.84	707.25
CL3885B2XF	1,313	43.1	5.2	1.14	29.9	83.0	51.86	682.58
ST5517GLTP	1,284	39.2	4.8	1.15	32.2	82.2	54.16	695.57
DP1820B3XF	1,276	43.0	5.0	1.23	32.5	84.2	52.39	671.20
NG4777B2XF	1,269	40.5	4.8	1.18	32.4	84.0	54.51	691.83
DG3433B2XF	1,266	41.6	4.6	1.12	27.2	81.1	53.14	673.08
ST4949GLT	1,260	42.2	4.6	1.14	30.9	81.8	53.44	674.81
DG3605B2XF	1,245	44.4	4.9	1.20	29.7	83.0	53.56	666.82
PHY320W3FE	1,229	41.9	4.0	1.15	33.0	84.2	54.56	670.91
NG4689B2XF	1,217	38.3	5.0	1.14	32.5	84.3	52.41	639.43
ST5122GLT	1,182	39.6	4.7	1.12	32.0	82.1	52.96	627.31
UA114	1,144	33.9	4.8	1.17	32.3	84.2	54.49	623.35
CL18XC9B3XF	1,131	40.3	4.8	1.22	32.6	84.2	53.98	610.30
UA222	1,114	38.2	4.7	1.21	31.9	84.5	54.50	607.06
Overall mean	1,409	42.2	4.678	1.1725	31.483	83.762	53.7738	758.15
LSD (0.05)	206.45	1.989	0.23	0.0319	1.128	1.264	1.0675	117.0361
C.V. (%)	12.54	4.03	4.21	2.32	3.06	1.29	1.7	13.2

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 8. Lint yield performance, fiber characteristics, loan values and dollar return per acre of cotton varieties grown on an irrigated Sharkey clay soil at the Northeast Research Station, St. Joseph, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
CPS18827B3XF	1,506	46.8	4.8	1.17	29.4	83.1	54.03	817.55
PHY340W3FE	1,472	42.8	4.7	1.20	30.0	84.2	54.29	815.35
PX3B07W3FE	1,452	42.9	4.7	1.18	30.3	82.3	54.16	796.33
DP1646B2XF	1,442	44.3	4.5	1.25	29.2	84.4	54.23	788.24
PX5D28B3FE	1,385	45.4	4.3	1.17	32.6	83.9	54.46	732.04
NG3729B2XF	1,376	40.9	5.0	1.20	29.4	85.2	53.14	721.01
DP1845B3XF	1,364	43.2	4.1	1.28	30.3	84.6	54.48	734.46
PHY580W3FE	1,355	44.7	4.7	1.18	30.5	84.7	54.45	718.14
PX3B09W3FE	1,350	42.9	4.5	1.22	30.6	84.4	54.43	764.20
CL9608B3XF	1,334	45.7	4.4	1.18	26.1	83.2	53.44	722.43
DP1851B3XF	1,329	42.2	4.5	1.21	32.7	85.0	54.64	730.17
PHY350W3FE	1,327	41.2	4.6	1.20	30.0	84.8	54.33	718.75
CPS1702GLT	1,319	40.2	4.4	1.20	30.2	83.7	54.31	679.10
PHY312WRF	1,318	40.1	4.4	1.20	29.7	84.3	54.26	755.87
DP1518B2XF	1,311	41.8	4.5	1.20	29.2	85.2	54.25	682.79
DG3605B2XF	1,306	43.3	4.5	1.24	29.6	83.9	54.25	729.46
PX4A69W3FE	1,300	44.4	4.3	1.18	29.9	84.3	54.33	713.54
PHY320W3FE	1,299	40.8	4.4	1.21	32.1	84.7	54.61	719.26
DG3757B2XF	1,292	43.1	4.6	1.16	28.4	83.8	54.01	704.35
PX3C06W3FE	1,283	41.9	4.7	1.22	29.8	83.5	53.63	707.95
NG4601B2XF	1,282	43.4	4.9	1.20	31.9	84.6	53.38	688.77
PX4A64W3FE	1,271	42.3	4.5	1.15	32.1	84.7	54.41	651.49
PHY300W3FE	1,271	43.1	4.7	1.19	29.7	84.5	54.25	688.63
DP1725B2XF	1,269	45.6	4.7	1.19	29.5	84.0	54.19	723.54
PHY430W3FE	1,265	42.1	4.6	1.15	31.8	84.3	54.41	687.73
PHY480W3FE	1,260	42.0	4.5	1.18	30.7	84.5	54.43	686.46
CPS18502-ABX3F	1,260	41.3	4.6	1.21	29.9	85.1	54.31	681.80
DP1555B2RF	1,258	44.7	4.7	1.19	30.7	83.6	54.29	673.69
BX1973GLTP	1,254	43.7	4.6	1.19	31.4	84.9	54.49	663.52
CPS18501-BB3XF	1,243	37.7	3.8	1.25	29.9	85.4	54.49	672.06
NG5007B2XF	1,239	42.6	4.5	1.16	27.7	82.9	53.56	645.34
CL3885B2XF	1,232	42.6	4.8	1.15	28.6	82.8	53.91	654.19
CL18XC9B3XF	1,227	40.4	4.6	1.25	30.5	84.4	54.40	654.66
CPS18503-DB3XF	1,227	41.8	4.8	1.21	30.8	84.3	54.45	672.72
NG4777B2XF	1,221	42.4	4.6	1.20	32.0	84.8	53.85	617.81
PHY444WRF	1,220	42.2	4.2	1.26	29.8	85.3	54.44	629.74
PX5B7 W3FE	1,214	40.7	4.6	1.18	30.4	84.3	54.34	678.93
DG3433B2XF	1,209	42.9	4.6	1.14	26.9	80.7	53.46	625.38
DG3526B2XF	1,204	42.9	4.7	1.15	29.0	84.0	54.15	625.97
DG3214B2XF	1,188	41.8	5.1	1.19	30.7	84.9	52.73	640.99
NG5711B3XF	1,176	40.8	4.6	1.23	29.3	82.8	54.06	625.01
CPS18817B3XF	1,170	44.0	4.9	1.17	30.6	83.4	53.74	605.26
NG4689B2XF	1,166	39.9	4.7	1.20	32.5	85.0	54.61	623.99
BX1975GLTP	1,156	43.6	4.7	1.19	30.7	84.5	54.35	631.59
ST4949GLT	1,150	41.8	4.6	1.17	29.3	83.9	54.20	670.24
DP1835B3XF	1,150	44.2	4.6	1.20	28.9	83.5	54.08	588.69
ST5471GLTP	1,143	38.6	4.5	1.17	31.1	83.5	54.38	610.94
BX1974GLTP	1,143	43.7	4.6	1.20	29.0	83.9	54.13	598.39
UA222	1,112	38.3	4.6	1.24	30.3	85.1	54.39	606.18
ST5517GLTP	1,111	38.1	4.5	1.19	30.8	83.2	54.30	571.74
UA114	1,089	37.7	4.9	1.22	31.2	85.5	54.05	588.79
ST5122GLT	1,083	40.5	4.4	1.17	30.3	83.4	54.24	575.42
ST5020GLT	1,079	37.5	4.6	1.26	31.4	85.5	54.53	574.52
PHY330W3FE	1,070	42.3	4.7	1.20	30.6	84.6	53.85	569.20
NG3699B2XF	1,057	38.1	4.6	1.23	29.6	83.4	54.18	562.04
ST5818GLTP	1,040	38.2	4.5	1.22	30.9	83.9	54.41	575.44
PHY440W3FE	1,005	42.0	4.4	1.21	32.7	84.0	54.53	510.93
AMX1801B3XF	984	40.0	4.6	1.25	30.4	85.7	54.44	523.59
DP1820B3XF	979	43.3	4.7	1.26	32.0	84.6	54.51	519.28
BX1976GLTP	876	42.5	4.9	1.17	30.3	84.7	53.75	459.62
Overall mean	1,228	42.0	4.576	1.1993	30.255	84.178	54.17	660.09
LSD (0.05)	137.83	0.965	0.124	0.0218	0.872	0.962	0.4761	59.5478
C.V. (%)	10.75	2.20	2.6	1.74	2.76	1.09	0.84	8.64

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 9. Lint yield performance, fiber characteristics, loan values and dollar return per acre, Northeast Research Station OVT, irrigated, Commerce silt loam, St. Joseph, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
PX3B07W3FE	1,370	44.0	4.3	1.19	30.0	82.2	54.09	740.93
BX1973GLTP	1,322	45.9	4.4	1.17	29.9	84.3	54.26	717.57
DP1555B2RF	1,317	46.0	4.4	1.19	30.7	83.9	54.28	714.73
NG3729B2XF	1,308	41.8	4.6	1.21	28.6	84.7	54.15	708.19
PHY330W3FE	1,308	43.2	4.1	1.20	29.1	83.9	54.28	709.77
PX3B09W3FE	1,280	43.1	4.1	1.20	29.9	84.0	54.35	695.32
CPS18503-DB3XF	1,249	41.6	4.7	1.22	29.9	83.8	54.29	677.93
CL9608B3XF	1,218	45.9	4.4	1.17	26.8	83.0	53.56	652.63
PX5D28BW3FE	1,209	45.2	4.2	1.17	31.7	83.9	54.53	659.37
PHY320W3FE	1,201	40.6	4.0	1.20	31.2	85.5	54.66	656.39
PHY312WRF	1,200	40.8	4.2	1.22	29.2	84.2	54.20	650.47
PHY580W3FE	1,193	44.3	4.3	1.21	30.9	83.5	54.39	649.14
DP1835B3XF	1,190	44.7	4.6	1.22	28.9	83.9	54.10	643.97
CPS18502-ABX3F	1,189	41.4	4.3	1.23	28.3	83.7	54.10	643.42
DG3214B2XF	1,187	42.6	4.5	1.18	28.7	83.2	53.96	640.66
DP1518B2XF	1,183	42.5	4.2	1.15	26.8	82.8	52.81	623.32
CPS18827B3XF	1,182	46.4	4.9	1.16	28.4	82.5	52.96	626.14
PX3C06W3FE	1,180	43.4	4.3	1.18	27.9	82.0	53.71	633.75
DP1646B2XF	1,172	45.3	4.3	1.24	28.5	84.0	54.11	634.11
PHY300W3FE	1,163	44.3	4.3	1.16	28.7	84.1	54.09	629.22
ST5471GLTP	1,163	41.4	4.4	1.19	31.4	82.8	54.25	630.84
PX4A64W3FE	1,144	42.9	4.2	1.19	32.2	84.9	54.66	625.22
DG3757B2XF	1,140	42.1	4.6	1.18	27.5	83.8	54.05	616.28
CL3885B2XF	1,135	43.6	4.7	1.14	28.0	83.6	53.84	611.07
DG3526B2XF	1,134	44.0	4.3	1.17	27.6	83.6	53.99	611.93
UA222	1,130	39.5	4.5	1.23	29.3	83.5	54.13	611.63
PHY340W3FE	1,130	43.2	4.2	1.17	28.7	82.7	54.11	611.51
DP1851B3XF	1,129	43.4	4.4	1.22	33.1	84.1	54.65	617.13
PHY350W3FE	1,127	42.6	4.3	1.19	29.6	84.6	54.28	611.47
PHY444WRF	1,123	42.2	4.0	1.27	29.6	85.2	54.41	611.41
NG5007B2XF	1,123	42.3	4.4	1.17	26.5	83.2	53.54	601.45
CPS18501-BB3XF	1,123	40.6	3.9	1.24	29.7	84.9	54.40	610.73
PHY430W3FE	1,122	42.6	4.2	1.15	30.7	84.2	54.39	610.25
AMX1801B3XF	1,113	41.6	4.4	1.22	28.6	84.7	54.13	602.64
CPS18817B3XF	1,109	43.1	4.7	1.14	28.6	82.5	53.06	589.78
ST5818GLTP	1,105	40.1	4.5	1.21	30.5	83.0	54.28	599.69
DG3605B2XF	1,102	44.6	4.3	1.24	28.6	83.2	54.03	595.29
DP1725B2XF	1,101	45.6	4.5	1.17	28.6	82.7	53.79	592.43
ST4949GLT	1,093	44.5	4.5	1.14	27.9	82.8	53.85	588.64
PHY480W3FE	1,091	40.6	4.3	1.19	30.1	84.3	54.33	593.15
DP1845B3XF	1,091	44.4	4.0	1.30	31.0	84.3	54.48	594.36
NG4601B2XF	1,070	44.5	4.7	1.21	30.8	83.7	54.39	582.11
PX5B7 W3FE	1,066	41.7	4.3	1.16	28.7	83.7	54.00	575.56
UA114	1,047	38.6	4.7	1.19	28.9	84.2	54.09	566.04
NG4689B2XF	1,021	41.0	4.5	1.18	29.2	84.1	54.15	552.76
BX1974GLTP	1,010	44.0	4.5	1.16	28.2	83.2	53.94	544.86
NG5711B3XF	1,004	42.9	4.5	1.22	30.3	83.5	54.29	545.18
CL18XC9B3XF	1,002	41.0	4.2	1.24	29.9	83.5	54.28	543.89
DG3433B2XF	997	43.1	4.5	1.14	26.2	81.9	52.51	523.72
ST5517GLTP	995	40.1	4.4	1.20	30.6	83.3	54.26	539.90
ST5122GLT	987	41.0	4.5	1.16	29.9	83.0	54.13	534.66
PX4A69W3FE	981	43.3	4.0	1.21	30.5	83.8	54.35	533.05
PHY440W3FE	955	42.4	4.1	1.25	31.8	84.0	54.56	520.84
BX1975GLTP	945	44.1	4.6	1.18	29.1	83.1	54.06	510.87
ST5020GLT	937	39.3	4.4	1.25	30.4	84.5	54.38	509.68
CPS1702GLT	932	41.6	4.4	1.16	29.7	83.9	53.86	502.92
BX1976GLTP	929	44.2	4.9	1.20	30.1	84.8	52.84	492.02
NG4777B2XF	921	40.7	4.4	1.17	29.0	83.2	53.96	496.86
NG3699B2XF	867	39.0	4.4	1.22	29.3	83.2	54.14	469.59
DP1820B3XF	860	45.5	4.7	1.25	30.6	83.8	53.76	462.24
Overall mean	1,111.30	42.8	4.375	1.1944	29.408	83.66	54.06	600.85
LSD (0.05)	156.47	1.135	0.184	0.0266	0.936	0.973	0.5254	85.0499
C.V. (%)	13.48	2.54	4.03	2.13	3.05	1.11	0.93	13.55

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 10. Lint yield performance, fiber characteristics, loan values and dollar return per acre of cotton varieties grown on an irrigated Moreland clay soil at the Red River Research Station, Bossier, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
CPS18817B3XF	1,255	42.3	4.6	1.19	31.6	82.7	53.92	677.42
BX1975GLTP	1,203	40.5	4.7	1.18	30.3	82.7	53.97	649.11
ST4949GLT	1,188	39.3	4.8	1.15	29.4	83.0	53.13	632.48
PHY444WRF	1,180	40.8	5.0	1.16	29.1	83.1	51.75	612.26
BX1973GLTP	1,176	40.6	4.7	1.19	32.6	83.6	53.15	626.59
PHY440W3FE	1,173	40.1	4.5	1.22	31.5	82.8	54.33	637.39
CL3885B2XF	1,169	40.9	4.7	1.20	30.5	84.6	53.43	623.32
PX5D28BW3FE	1,167	39.3	5.0	1.16	30.8	82.4	53.40	623.16
DP1518B2XF	1,139	41.6	4.9	1.13	33.5	83.6	53.37	607.43
NG4777B2XF	1,127	42.9	4.7	1.17	29.4	82.7	53.10	599.79
NG4689B2XF	1,126	40.6	4.8	1.17	30.0	82.9	53.27	600.01
PX3B09W3FE	1,126	41.1	5.0	1.21	30.7	83.8	53.40	599.75
DP1725B2XF	1,124	42.3	4.9	1.17	30.7	82.0	52.27	587.52
ST5020GLT	1,119	39.0	4.3	1.17	28.9	81.5	53.48	599.45
PX5B7 W3FE	1,113	43.8	5.0	1.18	32.0	82.9	51.88	579.22
NG5007B2XF	1,109	41.4	4.9	1.17	32.6	83.1	53.68	593.51
NG4601B2XF	1,098	42.7	4.6	1.17	30.3	82.4	53.68	589.01
CPS18501-BB3XF	1,098	39.8	4.8	1.15	28.8	82.3	51.97	567.37
NG3729B2XF	1,097	41.9	4.7	1.16	28.3	83.5	52.83	578.68
PX4A69W3FE	1,071	39.8	4.5	1.21	30.6	83.4	54.28	581.37
NG3699B2XF	1,068	40.3	4.9	1.13	29.2	82.3	52.88	564.97
ST5517GLTP	1,057	39.1	4.9	1.18	28.9	83.8	53.30	562.98
DG3433B2XF	1,047	39.8	4.6	1.15	28.5	82.0	53.77	562.88
DP1835B3XF	1,045	40.7	4.9	1.22	30.1	83.1	54.20	566.31
PHY312WRF	1,031	44.7	4.8	1.18	31.9	82.8	54.43	561.26
DP1851B3XF	998	40.3	4.6	1.14	30.9	82.8	53.02	530.57
NG5711B3XF	993	40.2	4.7	1.18	29.3	84.5	53.18	529.71
CPS18827B3XF	990	40.0	4.8	1.13	31.0	81.9	52.63	521.61
BX1974GLTP	986	40.6	4.7	1.21	32.1	83.3	54.48	537.87
ST5471GLTP	985	40.9	4.6	1.14	29.7	81.4	53.18	524.36
PHY340W3FE	980	42.2	4.9	1.16	30.5	83.1	52.60	517.75
PX4A64W3FE	971	40.2	4.8	1.15	30.4	81.9	53.22	517.60
PX3C06W3FE	971	40.7	4.9	1.16	31.3	82.0	54.27	526.81
DP1555B2RF	959	42.2	4.7	1.22	30.5	82.9	53.47	512.07
PHY580W3FE	956	39.9	4.5	1.15	33.3	82.7	53.22	509.44
PHY480W3FE	949	42.9	4.7	1.15	32.1	82.7	53.62	510.39
PHY350W3FE	945	42.0	4.8	1.11	29.7	82.4	52.67	497.84
ST5818GLTP	940	41.1	5.0	1.18	30.5	83.9	53.32	501.43
CL9608B3XF	930	42.5	4.8	1.13	30.2	82.7	53.60	498.38
CL18XC9B3XF	929	43.2	4.9	1.18	31.1	82.0	53.57	494.90
BX1976GLTP	925	42.3	4.9	1.19	29.1	82.9	51.67	478.07
UA114	914	43.1	4.9	1.19	28.6	83.7	53.17	485.84
AMX1801B3XF	911	40.7	4.6	1.22	30.6	82.5	53.17	483.01
DP1646B2XF	901	42.1	4.7	1.14	30.7	81.4	52.67	474.35
CPS1702GLT	900	42.6	4.9	1.15	29.0	82.6	53.87	484.95
DG3214B2XF	881	42.0	4.9	1.15	30.6	82.7	52.58	462.84
DP1820B3XF	875	41.7	4.7	1.15	30.8	83.1	53.40	467.59
DG3605B2XF	872	42.3	4.6	1.15	29.8	82.8	53.93	470.47
DG3757B2XF	871	39.0	4.8	1.18	29.5	82.0	53.93	469.85
PHY320W3FE	850	40.2	4.7	1.21	31.0	82.7	54.22	460.84
ST5122GLT	836	40.7	4.5	1.18	31.2	83.1	54.13	452.11
DG3526B2XF	827	42.7	4.8	1.16	31.4	82.3	51.97	429.86
PHY430W3FE	822	41.3	4.8	1.12	30.2	82.0	52.77	432.95
PX3B07W3FE	780	43.8	5.2	1.17	31.4	82.6	52.15	407.53
PHY330W3FE	774	40.8	4.4	1.20	33.5	83.5	53.91	416.94
PHY300W3FE	761	37.1	4.5	1.21	28.9	83.5	53.95	409.95
UA222	678	41.4	4.6	1.17	30.8	82.0	53.40	362.37
CPS18502-ABX3F	630	45.8	4.9	1.15	32.2	82.5	51.92	329.60
CPS18503-DB3XF	622	40.6	5.0	1.12	32.7	83.2	52.33	319.41
DP1845B3XF	608	37.5	4.5	1.20	31.6	83.1	52.95	324.73
Overall mean	982	41.2	4.759	1.1688	30.589	82.788	53.25	522.96
LSD (0.05)	256.76	NS	0.344	NS	NS	NS	NS	138.52
C.V. (%)	19.32	6.17	5.34	3.86	6.33	1.48	2.54	19.57

Numbers shaded within a column are not significantly different from the numerically greatest value.

**Table 11. Lint yield performance, fiber characteristics, loan values and dollar return per acre, Red River Research Station OVT, irrigated, Caplis very fine sandy loam, Bossier City, La., 2018.**

Variety	Lint Yield (lbs./ac.)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢)	Dollar Return (Acre)
ST5471GLTP	1,122	41.8	4.6	1.14	31.6	81.6	53.68	602.58
PX5B7 W3FE	1,082	41.2	4.8	1.15	29.7	83.4	53.49	580.80
CL9608B3XF	1,060	45.2	4.6	1.14	27.9	82.6	53.28	564.02
DP1851B3XF	1,042	39.9	4.7	1.19	32.2	83.2	54.43	567.35
DG3526B2XF	1,020	43.2	4.8	1.16	30.1	83.3	54.20	552.55
DP1725B2XF	1,002	43.9	4.6	1.16	30.3	82.8	54.19	542.82
BX1976GLTP	1,000	42.3	5.0	1.17	30.9	83.7	52.14	519.50
PX3B07W3FE	998	43.3	4.6	1.17	30.7	83.1	54.24	540.89
DP1835B3XF	996	46.0	4.7	1.17	29.9	83.4	53.48	531.70
CPS18503-DB3XF	987	41.3	4.7	1.16	31.3	82.8	54.31	536.12
NG5007B2XF	981	40.5	4.6	1.16	28.9	82.8	53.96	529.11
DG3605B2XF	967	41.8	4.5	1.21	30.3	82.9	54.20	524.06
NG5711B3XF	967	42.0	4.6	1.18	29.7	82.4	54.16	523.84
PX4A64W3FE	904	42.2	4.4	1.16	30.6	84.0	54.29	490.55
CPS18827B3XF	904	41.6	4.9	1.14	29.7	82.7	53.16	480.65
NG4601B2XF	901	42.1	4.8	1.15	32.1	83.0	54.34	489.23
DP1845B3XF	897	43.3	4.4	1.24	31.6	83.4	54.39	487.81
DP1646B2XF	888	42.0	4.7	1.24	30.1	83.5	54.24	480.93
PHY480W3FE	885	41.5	4.6	1.16	30.3	83.8	54.15	479.35
PHY312WRF	883	41.7	4.7	1.16	30.8	83.7	54.34	479.65
PX3B09W3FE	878	41.9	4.5	1.18	30.8	83.0	54.21	476.20
AMX1801B3XF	875	41.3	4.8	1.19	29.3	83.4	54.03	472.35
DP1820B3XF	866	44.7	4.8	1.22	31.7	84.1	53.89	466.22
CPS18817B3XF	865	42.6	4.9	1.16	30.9	84.1	53.16	459.90
ST5818GLTP	859	40.8	4.6	1.17	32.2	83.4	54.36	466.86
PHY300W3FE	857	43.7	4.5	1.12	30.3	83.3	54.00	462.48
CL3885B2XF	850	41.1	4.8	1.17	30.5	83.2	53.58	454.45
PHY580W3FE	848	42.8	4.6	1.14	30.9	83.0	54.21	459.52
NG3729B2XF	842	40.1	4.7	1.17	29.9	83.6	54.09	455.12
DG3214B2XF	839	41.0	4.7	1.16	30.7	83.6	54.28	455.15
PHY320W3FE	832	42.1	4.2	1.15	30.6	84.0	54.30	451.76
ST4949GLT	825	43.5	4.7	1.13	29.8	83.2	54.03	445.89
BX1973GLTP	824	45.0	4.8	1.15	32.0	84.2	54.40	448.11
CL18XC9B3XF	819	42.4	4.8	1.24	31.9	84.6	53.96	440.49
ST5517GLTP	816	39.5	4.7	1.14	32.1	82.6	53.84	438.94
PHY444WRF	806	41.2	4.5	1.25	32.4	85.1	54.61	439.89
PHY350W3FE	801	40.8	4.6	1.15	29.7	83.9	54.13	433.39
DP1555B2RF	800	41.7	4.8	1.18	33.3	84.3	54.61	436.99
CPS18501-BB3XF	793	40.9	4.3	1.21	30.8	83.9	54.45	431.32
ST5020GLT	788	39.4	4.9	1.21	32.2	84.0	54.50	429.29
PHY330W3FE	780	43.9	4.5	1.16	28.4	83.8	54.03	421.24
PX5D28BW3FE	777	41.2	4.4	1.15	32.2	83.5	54.30	421.94
ST5122GLT	771	38.2	4.7	1.15	31.8	83.2	54.31	418.94
UA222	766	40.2	4.4	1.20	32.4	84.2	54.51	417.79
PHY430W3FE	764	42.8	4.7	1.11	29.8	82.0	53.30	407.27
PX4A69W3FE	759	43.1	4.6	1.18	30.6	83.0	54.18	411.42
DG3757B2XF	726	42.3	4.8	1.14	29.2	82.4	53.83	390.85
CPS1702GLT	725	35.8	4.5	1.14	31.3	81.8	54.14	392.21
PX3C06W3FE	725	42.0	4.5	1.12	28.8	81.3	53.66	388.81
DG3433B2XF	712	40.4	4.5	1.10	27.5	80.2	52.13	371.48
PHY340W3FE	712	43.6	4.5	1.15	28.8	82.4	53.91	384.08
BX1974GLTP	694	44.9	4.9	1.17	29.6	83.9	53.61	374.86
BX1975GLTP	678	43.7	4.9	1.15	29.8	83.2	52.88	358.16
CPS18502-ABX3F	667	41.3	4.5	1.17	30.3	83.5	54.25	361.66
PHY440W3FE	662	41.5	4.6	1.23	32.9	84.1	54.54	360.82
NG4689B2XF	650	40.8	4.9	1.15	30.8	83.0	52.81	342.56
NG3699B2XF	638	38.7	4.6	1.16	29.7	82.1	54.00	344.13
UA114	616	39.5	4.6	1.19	32.4	83.5	54.41	335.25
DP1518B2XF	599	39.8	4.5	1.17	28.2	83.3	53.93	322.97
NG4777B2XF	522	40.4	4.7	1.17	29.9	83.3	54.10	282.36
Overall mean	835	41.79	4.6	1.1665	30.569	83.232	53.9679	450.61
LSD (0.05)	192.39	1.9008	0.177	0.032	1.498	1.449	0.8166	103.708
C.V. (%)	19.70	3.89	3.28	2.35	4.19	1.49	1.29	19.68

Numbers shaded within a column are not significantly different from the numerically greatest value.



**Table 12. Summary of lint yield performance for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
DP1646B2XF	1,375	838	1,326	1,033	2,134	1,847	1,425
DP1845B3XF	1,193	852	1,294	1,001	1,897	2,259	1,416
DG3605B2XF	1,282	711	1,409	983	2,093	1,689	1,361
PHY430W3FE	1,096	925	1,328	967	1,916	1,896	1,354
PHY330W3FE	1,210	864	1,123	883	2,027	1,950	1,343
DG3214B2XF	1,140	822	1,237	758	2,044	1,818	1,303
DP1835B3XF	1,060	864	1,249	838	1,913	1,857	1,297
PHY350W3FE	1,138	868	1,279	746	1,906	1,781	1,286
NG5711B3XF	1,126	830	1,319	847	1,755	1,761	1,273
NG3729B2XF	1,371	848	1,216	776	1,856	1,501	1,261
PHY480W3FE	1,005	936	1,235	926	1,695	1,719	1,253
ST5471GLTP	1,127	754	949	610	1,906	1,903	1,208
ST5020GLT	1,143	822	1,050	642	1,722	1,654	1,172
ST5517GLTP	1,092	670	1,206	609	1,361	1,978	1,153
ST5122GLT	1,084	759	1,089	645	1,412	1,445	1,072
<b>Average</b>	1,163	824	1,221	818	1,842	1,804	

**Table 13. Summary of percent turn-out for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
DP1835B3XF	47.8	46.1	43.6	44.1	44.2	45.9	45.3
PHY430W3FE	45.7	47.5	46.0	44.0	43.7	44.1	45.2
PHY330W3FE	45.8	47.0	44.4	44.8	44.0	43.0	44.8
DP1646B2XF	46.1	46.4	43.6	43.7	43.9	43.8	44.6
DP1845B3XF	45.6	45.6	42.6	46.0	41.9	43.7	44.2
DG3605B2XF	45.4	44.8	41.9	42.7	43.0	42.7	43.4
PHY480W3FE	44.8	45.9	42.6	43.8	40.6	42.1	43.3
NG5711B3XF	44.0	45.1	41.6	42.4	41.0	42.0	42.7
PHY350W3FE	43.6	44.3	44.0	42.5	38.6	41.5	42.4
DG3214B2XF	42.1	44.3	41.6	42.6	42.2	41.7	42.4
NG3729B2XF	43.3	42.1	42.5	43.0	41.5	41.0	42.2
ST5122GLT	42.8	42.4	41.7	43.2	38.4	40.7	41.5
ST5471GLTP	42.9	42.6	39.4	37.7	41.0	41.3	40.8
ST5020GLT	42.3	42.0	40.5	37.2	39.9	39.8	40.3
ST5517GLTP	41.4	40.6	41.0	40.2	38.3	39.8	40.2
<b>Average</b>	44.2	44.4	42.5	42.5	41.5	42.2	

**Table 14. Summary of micronaire values for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
NG3729B2XF	4.7	4.9	4.9	5.2	4.9	4.5	4.9
DG3214B2XF	4.6	5.1	4.8	5.1	4.9	4.5	4.8
ST5020GLT	4.5	4.3	4.9	5.1	4.7	4.4	4.6
DP1646B2XF	4.3	4.8	4.6	5.0	4.4	4.2	4.6
ST5122GLT	4.5	4.4	4.3	5.1	4.7	4.3	4.5
ST5471GLTP	4.4	4.8	4.5	4.7	4.8	4.2	4.5
ST5517GLTP	4.3	4.6	4.6	4.8	4.7	4.2	4.5
DP1835B3XF	4.3	4.8	4.5	4.8	4.4	4.3	4.5
PHY350W3FE	4.2	4.8	4.6	5.1	4.4	4.0	4.5
PHY430W3FE	4.3	4.6	4.6	5.0	4.4	4.1	4.5
NG5711B3XF	4.2	5.0	4.4	4.7	4.4	4.1	4.5
PHY330W3FE	4.2	4.7	4.4	4.8	4.4	4.2	4.4
DG3605B2XF	4.2	4.7	4.5	4.8	4.2	4.1	4.4
PHY480W3FE	4.1	4.6	4.5	4.9	4.3	4.0	4.4
DP1845B3XF	3.9	4.4	4.2	4.9	4.0	3.6	4.2
<b>Average</b>	4.3	4.7	4.6	4.9	4.5	4.2	

**Table 15. Summary of fiber length values for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
DP1845B3XF	1.25	1.24	1.27	1.27	1.31	1.34	1.28
DG3605B2XF	1.24	1.21	1.27	1.28	1.27	1.32	1.26
DP1646B2XF	1.25	1.19	1.25	1.26	1.26	1.31	1.25
ST5020GLT	1.24	1.18	1.26	1.24	1.29	1.29	1.25
NG5711B3XF	1.20	1.16	1.21	1.23	1.27	1.29	1.23
NG3729B2XF	1.23	1.14	1.24	1.22	1.25	1.27	1.22
PHY330W3FE	1.18	1.14	1.20	1.22	1.24	1.23	1.20
PHY350W3FE	1.22	1.15	1.18	1.18	1.23	1.25	1.20
DG3214B2XF	1.20	1.11	1.20	1.19	1.23	1.26	1.20
ST5517GLTP	1.17	1.14	1.18	1.22	1.19	1.24	1.19
ST5122GLT	1.18	1.11	1.18	1.22	1.20	1.24	1.19
DP1835B3XF	1.17	1.11	1.16	1.18	1.24	1.24	1.18
PHY480W3FE	1.15	1.11	1.16	1.20	1.22	1.24	1.18
ST5471GLTP	1.13	1.09	1.14	1.23	1.20	1.24	1.17
PHY430W3FE	1.16	1.06	1.12	1.16	1.17	1.21	1.15
<b>Average</b>	1.20	1.14	1.20	1.22	1.24	1.26	

**Table 16. Summary of fiber strength values for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
PHY430W3FE	31.6	34.2	34.0	34.0	35.5	34.2	33.9
ST5020GLT	30.9	33.1	35.6	33.1	34.5	33.5	33.4
DP1845B3XF	30.9	35.4	34.2	32.2	32.4	33.3	33.1
ST5517GLTP	29.0	34.1	34.5	31.7	35.0	33.6	33.0
ST5471GLTP	29.0	32.8	34.0	33.7	34.8	33.6	33.0
PHY480W3FE	29.8	34.6	33.2	33.0	33.0	33.6	32.9
ST5122GLT	30.1	32.8	33.5	30.8	34.3	33.7	32.5
PHY330W3FE	30.0	33.8	33.0	31.3	33.1	32.6	32.3
PHY350W3FE	28.7	32.7	32.4	32.8	33.2	33.1	32.2
DG3214B2XF	29.4	32.6	32.6	31.7	32.1	33.0	31.9
NG3729B2XF	28.2	32.5	32.5	31.9	32.2	32.7	31.7
NG5711B3XF	30.4	31.6	31.9	32.0	32.2	31.4	31.6
DG3605B2XF	28.8	31.3	31.4	30.6	31.9	32.0	31.0
DP1646B2XF	28.6	30.4	29.9	32.0	31.3	31.3	30.6
DP1835B3XF	28.7	29.5	29.3	31.3	31.6	30.8	30.2
<b>Average</b>	29.6	32.7	32.8	32.1	33.1	32.8	

**Table 17. Summary of fiber uniformity values for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
PHY480W3FE	83.7	85.2	85.6	87.2	85.3	85.9	85.5
NG3729B2XF	84.0	83.5	85.8	86.3	85.7	85.6	85.2
DG3214B2XF	84.6	83.8	84.1	86.8	86.0	85.7	85.2
DP1845B3XF	83.3	84.7	85.5	85.4	85.7	84.5	84.8
ST5020GLT	84.0	82.2	85.1	85.2	86.5	85.5	84.7
PHY330W3FE	84.5	83.3	84.7	85.5	85.4	84.9	84.7
PHY350W3FE	84.4	83.1	85.8	84.1	85.0	85.3	84.6
DP1646B2XF	83.2	83.2	83.7	85.4	85.6	84.8	84.3
PHY430W3FE	83.7	83.0	83.9	84.4	85.5	85.1	84.3
DG3605B2XF	82.1	83.5	83.5	86.7	84.6	84.3	84.1
ST5517GLTP	82.5	82.0	85.3	85.1	83.6	84.1	83.7
ST5122GLT	82.1	82.3	82.8	85.3	85.4	84.5	83.7
NG5711B3XF	81.9	81.2	85.0	84.8	85.3	84.1	83.7
ST5471GLTP	82.7	81.2	82.8	84.6	84.5	84.1	83.3
DP1835B3XF	82.6	81.6	81.2	84.0	84.7	84.5	83.1
<b>Average</b>	83.3	82.9	84.3	85.4	85.2	84.8	

**Table 18. Summary of loan values for the on-farm core block demonstrations across locations.**

Variety	Avoyelles	Catahoula	E. Carroll	Ouachita	Rapides-1	Rapides-2	Average
DP1845B3XF	54.40	54.65	54.85	54.65	54.80	54.05	54.57
PHY480W3FE	54.15	54.10	54.70	54.85	54.75	54.85	54.57
PHY330W3FE	54.30	54.33	54.65	54.65	54.75	54.70	54.56
DG3605B2XF	54.00	54.38	54.45	54.60	54.61	54.60	54.44
ST5517GLTP	54.05	53.28	54.75	54.65	54.51	54.63	54.31
NG5711B3XF	54.25	53.10	54.65	54.55	54.68	54.60	54.30
PHY350W3FE	54.2	54.40	54.65	52.25	54.68	54.75	54.15
ST5020GLT	54.30	54.40	54.75	52.45	54.25	54.73	54.15
ST5471GLTP	53.7	53.10	54.40	54.65	54.10	54.63	54.10
DP1835B3XF	53.95	53.20	53.90	54.55	54.53	54.45	54.10
NG3729B2XF	54.10	54.33	54.65	52.45	54.10	54.64	54.04
DP1646B2XF	54.00	54.25	54.10	52.35	54.61	54.59	53.98
ST5122GLT	54.15	53.70	54.45	52.20	54.16	54.65	53.89
PHY430W3FE	54.5	51.50	54.25	52.30	54.73	54.78	53.68
DG3214B2XF	54.20	51.25	54.55	52.45	53.54	54.75	53.46
<b>Average</b>	54.15	53.60	54.52	53.57	54.45	54.63	

**Table 19. Lint yield, gin turn-out, fiber characteristics, loan values and dollar return per acre, Avoyelles Parish-1 core block demonstration, 2018.**

Parish: Avoyelles Parish		Previous crop: Corn			Irrigation? No				
Community: Fifth Ward		Soil type: Coushatta silt loam			Pivot or furrow?				
Cooperator: Fred Collins		Tillage type: Conventional			GPS coord: 31.161889N, 92.169303W				
Agent: Justin Dufour		N rate (lbs./acre): 60			Plot size: 4 rows by 1,526 feet				
Planting date: 5/9		Seeding rate: 35,000			Misc:				
Harvest date: 10/8		Row spacing: 38 inches							
Variety	Lint Yield (lbs./acre)	Lint %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)	
Deltapine DP1646B2XF	1,375	46.1	4.3	1.25	28.6	83.2	54.00	742.23	
Americot NG3729B2XF	1,371	43.3	4.7	1.23	28.2	84.0	54.10	741.71	
Dyna-Gro DG3605B2XF	1,282	45.4	4.2	1.24	28.8	82.1	54.00	692.28	
CropLan CL3385B2XF	1,211	44.5	4.5	1.16	28.1	83.5	53.95	653.33	
Phytogen PHY330W3FE	1,210	45.8	4.2	1.18	30.0	84.5	54.30	656.76	
Deltapine DP1845B3XF	1,193	45.6	3.9	1.25	30.9	83.3	54.40	648.72	
Stoneville ST5020GLT	1,143	42.3	4.5	1.24	30.9	84.0	54.30	620.65	
Dyna-Gro DG3214B2XF	1,140	42.1	4.6	1.20	29.4	84.6	54.20	617.88	
Phytogen PHY350W3FE	1,138	43.6	4.2	1.22	28.7	84.4	54.2	616.80	
Stoneville ST5471GLTP	1,127	42.9	4.4	1.13	29.0	82.7	53.7	604.93	
Americot NG5711B3XF	1,126	44.0	4.2	1.20	30.4	81.9	54.25	610.58	
Phytogen PHY430W3FE	1,096	45.7	4.3	1.16	31.6	83.7	54.5	597.05	
Stoneville ST5517GLTP	1,092	41.4	4.3	1.17	29.0	82.5	54.05	590.23	
Stoneville ST5122GLTP	1,084	42.8	4.5	1.18	30.1	82.1	54.15	586.99	
Deltapine DP1835B3XF	1,060	47.8	4.3	1.17	28.7	82.6	53.95	571.60	
Phytogen PHY480W3FE	1,005	44.8	4.1	1.15	29.8	83.7	54.15	543.94	

**Table 20. Lint yield, gin turn-out, fiber characteristics, loan values and dollar return per acre, Catahoula Parish core block demonstration, 2018.**

Parish: Catahoula	Previous crop: cotton	Irrigation? No
Community: Foules	Soil type: Sharkey clay	Pivot or furrow?
Cooperator: Matt Myers	Tillage type: Conventional	GPS coord: 31.815475N, 91.592172W
Agent: Dennis Burns	N rate (lbs./acre): 120	Plot size: 6 rows by 1,250 feet
Planting date: 5/3	Seeding rate: 40,000	Misc:
Harvest date: 9/20	Row spacing: 38 inches	

Variety	Lint Yield (lbs./acre)	Lint %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)
Phytogen PHY480W3FE	936	45.9	4.6	1.11	34.6	85.2	54.10	506.42
Phytogen PHY430W3FE	925	47.5	4.6	1.06	34.2	83.0	51.50	475.44
Phytogen PHY350W3FE	868	44.3	4.8	1.15	32.7	83.1	54.40	472.19
Phytogen PHY330W3FE	864	47.0	4.7	1.14	33.8	83.3	54.33	469.30
Deltapine DP1835B3XF	864	46.1	4.8	1.11	29.5	81.6	53.20	459.34
Deltapine DP1845B3XF	852	45.6	4.4	1.24	35.4	84.7	54.65	465.35
Americot NG3729B2XF	848	42.1	4.9	1.14	32.5	83.5	54.33	460.69
Deltapine DP1646B2XF	838	46.4	4.8	1.19	30.4	83.2	54.25	454.36
Americot NG5711B3XF	830	45.1	5.0	1.16	31.6	81.2	53.10	440.61
Stoneville ST5020GLT	822	42.0	4.3	1.18	33.1	82.2	54.40	447.18
Dyna-Gro DG3214B2XF	822	44.3	5.1	1.11	32.6	83.8	51.25	420.99
Americot NG5007B2XF	784	44.7	4.7	1.12	28.8	82.1	53.63	420.41
Stoneville ST5122GLTP	759	42.4	4.4	1.11	32.8	82.3	53.70	407.39
Stoneville ST5471GLTP	754	42.6	4.8	1.09	32.8	81.2	53.10	400.37
Dyna-Gro DG3605B2XF	711	44.8	4.7	1.21	31.3	83.5	54.38	386.62
Stoneville ST5517GLTP	670	40.6	4.6	1.14	34.1	82.0	53.28	356.80

**Table 21. Lint yield, gin turn-out, fiber characteristics, loan value and dollar return per acre, East Carroll Parish core block demonstration, 2018.**

Parish: East Carroll	Previous crop: Soybeans	Irrigation? Yes
Community: Foules	Soil type: Commerce silty clay loam	Pivot or furrow? Furrow
Cooperator: Major Winters	Tillage type: Stale seedbed	GPS coord: 32.74506998N, 91.27595464W
Agent: R. L. Frazier	N rate (lbs./acre): 80	Plot size: 8 rows by 1,000 feet
Planting date: 5/3	Seeding rate: 38,000	Misc:
Harvest date: 9/17	Row spacing: 36 inches	

Variety	Lint Yield (lbs./acre)	Lint %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)
DG3605B2XF	1,409	41.9	4.5	1.27	31.4	83.5	54.45	767.25
PHY430W3FE	1,328	46.0	4.6	1.12	34.0	83.9	54.25	720.64
DP1646B2XF	1,326	43.6	4.6	1.25	29.9	83.7	54.10	717.58
NG5711B3XF	1,319	41.6	4.4	1.21	31.9	85.0	54.65	721.06
DP1845B3XF	1,294	42.6	4.2	1.27	34.2	85.5	54.85	709.86
PHY350W3FE	1,279	44.0	4.6	1.18	32.4	85.8	54.65	698.87
DP1835B3XF	1,249	43.6	4.5	1.16	29.3	81.2	53.90	673.06
DG3214B2XF	1,237	41.6	4.8	1.20	32.6	84.1	54.55	674.95
PHY480W3FE	1,235	42.6	4.5	1.16	33.2	85.6	54.70	675.38
NG3729B2XF	1,216	42.5	4.9	1.24	32.5	85.8	54.65	664.44
ST5517GLTP	1,206	41.0	4.6	1.18	34.5	85.3	54.75	660.23
PHY330W3FE	1,123	44.4	4.4	1.20	33.0	84.7	54.65	613.62
ST5122GLT	1,089	41.7	4.3	1.18	33.5	82.8	54.45	592.94
ST5020GLT	1,050	40.5	4.9	1.26	35.6	85.1	54.75	575.00
ST5471GLTP	949	39.4	4.5	1.14	34.0	82.8	54.40	516.25

**Table 22. Lint yield, gin turn-out, fiber characteristics, loan values and dollar return per acre, Ouachita Parish core block demonstration, 2018.**

Parish: Ouachita		Previous crop: corn		Irrigation? No	
Community: Bosco		Soil type: silt loam		Pivot or furrow?	
Cooperator: Calloway Farms		Tillage type: stale seedbed		GPS coord:	
Agent: Keith Collins		N rate (lbs./acre): 100		Plot size: 6 rows by 1,250 feet	
Planting date: 5/11		Seeding rate: 40,000		Misc:	
Harvest date: 10/22		Row spacing: 38 inches			

  

Variety	Lint Yield (lbs./acre)	Lint %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)
Deltapine DP1646B2XF	1,033	43.7	5.0	1.26	32.0	85.4	52.35	540.78
Deltapine DP1845B3XF	1,001	46.0	4.9	1.27	32.2	85.4	54.65	547.05
Dyna-Gro DG3605B2XF	983	42.7	4.8	1.28	30.6	86.7	54.60	536.72
Phytogen PHY430W3FE	967	44.0	5.0	1.16	34.0	84.4	52.30	505.74
Phytogen PHY480W3FE	926	43.8	4.9	1.20	33.0	87.2	54.85	507.91
Phytogen PHY330W3FE	883	44.8	4.8	1.22	31.3	85.5	54.65	482.56
Americot NG5711B3XF	847	42.4	4.7	1.23	32.0	84.8	54.55	462.04
Deltapine DP1835B3XF	838	44.1	4.8	1.18	31.3	84.0	54.55	457.13
Americot NG3729B2XF	776	43.0	5.2	1.22	31.9	86.3	52.45	407.01
Dyna-Gro DG3214B2XF	758	42.6	5.1	1.19	31.7	86.8	52.45	397.57
Phytogen PHY350W3FE	746	42.5	5.1	1.18	32.8	84.1	52.25	389.79
Stoneville ST5122GLTP	645	43.2	5.1	1.22	30.8	85.3	52.2	336.69
Stoneville ST5020GLT	642	37.2	5.1	1.24	33.1	85.2	52.45	336.73
Stoneville ST5471GLTP	610	37.7	4.7	1.23	33.7	84.6	54.65	333.37
Stoneville ST5517GLTP	609	40.2	4.8	1.22	31.7	85.1	54.65	332.82

**Table 23. Lint yield, gin turn-out, fiber characteristics, loan values and dollar return per acre, Rapides-1 Parish core block demonstration, 2018.**

Parish: Rapides-1		Previous crop: Soybeans		Irrigation? No	
Community: LeCompte		Soil type: Coushatta silt loam		Pivot or furrow?	
Cooperator: Dean Lee Res. & Ext. Center		Tillage type: Minimum		GPS coord: 31.180878N, 92.404783W	
Principal Investigator: Dan Fromme		N rate (lbs./acre): 60		Plot size: 4 rows by 50 feet	
Planting date: 5/1		Seeding rate: 42,000		Misc. Replicated 4 times in a RCBD	
Harvest date: 9/21		Row spacing: 38 inches			

  

Variety	Lint Yield (lbs./acre)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)
Deltapine DP1646B2XF	2,134	43.9	4.4	1.26	31.3	85.6	54.61	1,165.26
Dyna-Gro DG3605B2XF	2,093	43.0	4.2	1.27	31.9	84.6	54.61	1,142.97
Dyna-Gro DG3214B2XF	2,044	42.2	4.9	1.23	32.1	86.0	53.54	1,092.93
Phytogen PHY330W3FE	2,027	44.0	4.4	1.24	33.1	85.4	54.75	1,109.73
Phytogen PHY430W3FE	1,916	43.7	4.4	1.17	35.5	85.5	54.73	1,048.36
Deltapine DP1835B3XF	1,913	44.2	4.4	1.24	31.6	84.7	54.53	1,043.26
Stoneville ST5471GLTP	1,906	41.0	4.8	1.20	34.8	84.5	54.10	1,030.59
Phytogen PHY350W3FE	1,906	38.6	4.4	1.23	33.2	85.0	54.68	1,042.45
Deltapine DP1845B3XF	1,897	41.9	4.0	1.31	32.4	85.7	54.80	1,039.21

Continued on Page 23

Continued from Page 22

Americot NG3729B2XF	1,856	41.5	4.9	1.25	32.2	85.7	54.10	1,003.94
Americot NG5711B3XF	1,755	41.0	4.4	1.27	32.2	85.3	54.68	959.57
Stoneville ST5020GLT	1,722	39.9	4.7	1.29	34.5	86.5	54.25	934.78
Phytogen PHY480W3FE	1,695	40.6	4.3	1.22	33.0	85.3	54.75	928.23
Stoneville ST5122GLTP	1,412	38.4	4.7	1.20	34.3	85.4	54.16	765.01
Stoneville ST5517GLTP	1,361	38.3	4.7	1.19	35.0	83.6	54.51	741.94
Mean	1842.37	41.47	4.497	1.2365	33.123	85.242	54.4525	1,003.21
LSD (0.05)	199.43	2.082	0.169	0.0246	1.182	0.825	0.7657	110.5986
C.V. (%)	9.1	4.22	3.16	1.67	3	0.81	1.18	9.27

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

**Table 24. Lint yield, gin turn-out, fiber characteristics, loan values and dollar return per acre, Rapides-2 Parish core block demonstration, 2018.**

Parish: Rapides-2		Previous crop: Soybeans		Irrigation? No				
Community: LeCompte		Soil type: Latanier clay		Pivot or furrow?				
Cooperator: Dean Lee Res. & Ext. Center		Tillage type: Minimum		GPS coord: 31.178278N, 92.388855W				
Principal Investigator: Dan Fromme		N rate (lbs./acre): 90		Plot size: 4 rows by 50 feet				
Planting date: 5/1		Seeding rate: 42,000		Misc. Replicated 4 times in a RCBD				
Harvest date: 9/25								
Variety	Lint Yield (lbs./acre)	Lint (%)	Micronaire	Length (inches)	Strength (g/tex)	Uniformity (%)	Loan Value (¢/lb)	Dollar Return (acre)
Deltapine DP1845B3XF	2,259	43.7	3.6	1.34	33.3	84.5	54.05	1,222.62
Stoneville ST5517GLTP	1,978	39.8	4.2	1.24	33.6	84.1	54.63	1,080.76
Phytogen PHY330W3FE	1,950	43.0	4.2	1.23	32.6	84.9	54.70	1,066.42
Stoneville ST5471GLTP	1,903	41.3	4.2	1.24	33.6	84.1	54.63	1,039.34
Phytogen PHY430W3FE	1,896	44.1	4.1	1.21	34.2	85.1	54.78	1,038.22
Deltapine DP1835B3XF	1,857	45.9	4.3	1.24	30.8	84.5	54.45	1,012.02
Deltapine DP1646B2XF	1,847	43.8	4.2	1.31	31.3	84.8	54.59	1,008.37
Dyna-Gro DG3214B2XF	1,818	41.7	4.5	1.26	33.0	85.7	54.75	995.21
Phytogen PHY350W3FE	1,781	41.5	4.0	1.25	33.1	85.3	54.75	975.14
Americot NG5711B3XF	1,761	42.0	4.1	1.29	31.4	84.1	54.60	961.99
Phytogen PHY480W3FE	1,719	42.1	4.0	1.24	33.6	85.9	54.85	942.34
Dyna-Gro DG3605B2XF	1,689	42.7	4.1	1.32	32.0	84.3	54.60	922.29
Stoneville ST5020GLT	1,654	39.8	4.4	1.29	33.5	85.5	54.73	905.29
Americot NG3729B2XF	1,501	41.0	4.5	1.27	32.7	85.6	54.64	819.51
Stoneville ST5122GLTP	1,445	40.7	4.3	1.24	33.7	84.5	54.65	789.67
Mean	1,804.00	42.21	4.175	1.2638	32.823	84.843	54.625	985.28
LSD (0.05)	349.22	0.925	0.216	0.0234	1.284	1.124	NS	192.9387
C.V. (%)	16.28	1.84	4.35	1.56	3.29	1.11	0.67	16.46

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

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