

2024

COTTON

VARIETIES FOR LOUISIANA

VARIETY TRIALS AND ON-FARM DEMONSTRATIONS



Notes

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Introduction

Scientists with the LSU AgCenter annually evaluate cotton varieties in official variety trials (OVTs) at several locations across the state. 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 times, and results are compiled for average performance after one or two years of testing. In 2023, 41 varieties were entered by commercial seed companies in the OVTs (Table 3). Locations of these trials included the LSU AgCenter Dean Lee Research and Extension Center, Alexandria; LSU AgCenter Macon Ridge Research Station, Winnsboro; and LSU AgCenter Northeast Research Station, St. Joseph (Table 5). Yield data for 2023 across locations as well as 2022 and 2021 data for repeated varieties is summarized in Table 6. Individual location summaries are in Tables 7 through 9. Descriptions of abbreviations used in data tables are defined in Table 4. In addition to the OVTs, six on-farm core block demonstrations were conducted throughout the cotton-growing areas of Louisiana by LSU AgCenter extension agents (Tables 10-17). This information should be used to supplement but not replace OVT results.

Choosing Varieties

Variety selection is one of the most important decisions a cotton producer will make. 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. Since the introduction of transgenic cottons and the accompanying increases in seed costs and associated technology fees, variety selection has become increasingly important. Seed selection is the one decision 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, the LSU AgCenter 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 LSU AgCenter OVTs cannot identify the single best variety for given soils and conditions. Therefore, 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 may differ in performance from one year to the next. In most years, however, those among the top 10% 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 OVTs, 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. The majority of 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 choosing varieties and marketing cotton. 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. Louisiana cotton quality has been a concern in recent years, particularly regarding high micronaire values. While premiums are small, discounts for high micronaire and other factors can be significant. Variety has the largest impact on fiber properties, and high quality is increasingly important for U.S. cotton to maintain and increase presence in the world market.

Fiber parameters in the LSU AgCenter cotton OVTs 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 reported for each variety. Seed cotton samples were ginned with small plot research gins that do not have lint cleaners. This method may produce higher lint percentages than would normally be received from a commercial gin; therefore data were normalized to 40%. 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 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 yield or fiber quality. The most important consideration is how a given variety performed compared to the others in the same trial. Another important factor is the average yield across variety trials. Varietal 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 market runs 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 the 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. Personal experience with a variety should be considered along with newer varieties that perform well.

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 10% is used, which means the test correctly identifies variety performance for that location with 90% certainty.

The group of varieties that is statistically the highest yielding is shaded in each table. To identify promising varieties that are new to the market and have only one year of testing in the LSU AgCenter OVTs, 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 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 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 for early season weed control as early weed competition can severely reduce yields. 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. Reliance on one mode of action for weed control is not recommended and has led to multiple glyphosate-resistant weeds; therefore, the use of other herbicides in addition to glyphosate is strongly encouraged. Consult the LSU AgCenter [Louisiana Suggested Chemical Weed Management Guide](#), publication No. 1565, for more information.

LibertyLink: Varieties with the designation “LL” in their brand names are transgenic varieties tolerant to over-the-top applications of glufosinate. These varieties can be managed in a Liberty Link weed control program, which is covered in more detail in the LSU AgCenter Louisiana Suggested Chemical Weed Management Guide publication. Liberty Link cotton will be injured by applications or drift from glyphosate. On farms or in areas where Liberty Link cotton is grown near Roundup Ready crops, care should be taken to avoid confusion of the herbicide systems and to reduce the potential for mistaken applications or drift.

GlyTol + LibertyLink: 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 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 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 herbicides when these weeds are large and well-developed.

Bollgard 2: Varieties with the designation “B2” or “BG2” in their brand names are cotton lines that express insecticidal proteins for the control of the Lepidopteran pest known as the tobacco budworm. After the successful

introduction of Bollgard II technology to 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 activity. Varieties that include Bollgard II technology should not need any supplemental insecticide sprays for control of tobacco budworms. They also provide control of the cotton bollworm, soybean looper, fall armyworm and beet armyworm. For cotton bollworm, note that supplemental chemical control strategies may be necessary to provide satisfactory management depending on prevailing 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, that must be managed with conventional integrated pest management practices.

Bollgard 3: In 2017, varieties with the designation “B3” in their brand names became available. This technology offers three Bt proteins for greater stability, longevity and improved resistance management. The addition of the third protein reinforces the Bt proteins found in Bollgard II. Each gene codes for a unique protein that kills larvae in a different way. There is currently a low likelihood of supplemental applications to control worm pests as a result of enhanced three-gene activity.

WideStrike 3: PhytoGen varieties with designation “W3” in their brand names are cotton lines that express insecticidal proteins for the control of 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 3 traits remain the same for the Widestrike 3 traits in PhytoGen varieties.

TwinLink Plus: In 2017, 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 caterpillar pests as a result of the enhanced three-gene activity.

ThryvON: Varieties with the designation “T” in their brand names are cotton lines that express an insecticidal protein for the control of tarnished plant bug and thrips species. This technology was fully commercialized in the U.S. in February 2023.

Seeding Rate and Stand

Two to three cotton plants per foot of row is the ideal final plant population on 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 3,700 to 5,800. Therefore, seeding rates must be based on seed number per acre and not seed weight 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.

Most commercial cotton seed will have at least an 80% germination reported on the seed tag. This is the result of the warm germination test. Field conditions typically are more adverse than laboratory tests, and cool germination test results are a good indicator of seedling vigor. For example, a seed lot with 85% cool germination is more vigorous than one with 65% cool germination. However, if the 65% cool germination lot is planted under ideal conditions, overall germination is likely to be as high as the 85% lot. Conversely, under adverse conditions the 85% cool germination lot is likely to germinate at a much higher rate than the 65% cool germination lot. A somewhat arbitrary division of the cool germination test results is shown in Table 1. Growers are encouraged to request cool germination test results from seed companies. 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. Arbitrary divisions of cool germination results and planting recommendations.

Cool Germination %	Vigor
>80	Excellent
65-80	Good
50-65	Acceptable – plant under good conditions
<50	Poor – do not plant

Most planting date studies indicate the ideal planting window is Louisiana for cotton is between April 15 and May 15. Earlier planting is 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. Some field research has shown that planting during June may reduce yield potential.

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 coarse-textured soils and 90-120 pounds per acre for finer-textured soils (Table 2). 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 excess nitrogen that can produce very tall and rank cotton. This increased vegetative growth will hinder reproductive growth and yield. Increased use of mepiquat chloride to control plant height may hinder defoliation prior to harvest.

Excessive nitrogen in combination with late-season rainfall can delay maturity, reduce harvesting and ginning percentages, and promote boll shedding and boll rot. Best management practices are to split applications of nitrogen on sandy soils with 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 applied by early bloom at the latest.

Table 2. Nitrogen rates for cotton in Louisiana.

Soil Type	Dryland	Irrigated
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 3. Brands and varieties included in cotton official variety trials, 2023.

Brand	Variety	Brand	Variety
Americot	AMX160030-A B3XF	Dyna-Gro	DG 3519 B3XF
Americot	AMX160030-B B3XF	NexGen	NG 4190 B3XF
Americot	AMX20T157 B3XF	NexGen	NG 4335 B3TXF
Americot	AMX20T079 B3XF	NexGen	NG 4343 B3TXF
Americot	AMX20T114 B3XF	PhytoGen	PX1130B333-04
Americot	AMX21C005 B3TXF	PhytoGen	PX1130D303-04
Aarmor	9371 B3XF	PhytoGen	PX1140B373-04
Deltapine	DP 2211 B3TXF	PhytoGen	PX1140D328-04
Deltapine	DP 2131 B3TXF	PhytoGen	PX1140A385-04
Deltapine	DP 2141NR B3XF	PhytoGen	PX1150B437-04
Deltapine	DP 2127 B3XF	PhytoGen	PX1150D490-04
Deltapine	DP 2115 B3XF	PhytoGen	PHY332W3FE
Deltapine	DP 2317 B3TXF	PhytoGen	PHY360W3FE
Deltapine	DP 2328 B3TXF	PhytoGen	PHY400W3FE
Deltapine	DP 2349NR B3XF	PhytoGen	PHY411W3FE
Deltapine	DP 2143NR B3XF	PhytoGen	PHY415W3FE
Deltapine	DP 2038 B3XF	PhytoGen	PHY443W3FE
Deltapine	DP 2333 B3XF	Stoneville	ST 4990 B3XF
Dyna-Gro	DG 3503 B3XF	Stoneville	ST 4595 B3XF
Dyna-Gro	DG 4530 B3TXF	Stoneville	ST 5091 B3XF
Dyna-Gro	DG 3528 B3XF		

Table 4. Definitions of table abbreviations.

Abbreviation	Meaning
LY	Lint yield (lb/a)
TO	Turnout (% lint)
MIC	Micronaire
LGTH	Length (inches)
SGTH	Strength (g/tex)
UNIF	Uniformity (%)
LV	Loan value (cents per pound lint)
GR	Gross return (dollars per acre)
NS	Not significant

Table 5. Agronomic milestones for each variety trial location, 2023

	DLREC ¹	MRRS	NERS
Planting date	5/17/23	5/3/23	5/3/23
Emergence date	5/25/23	5/12/23	5/11/23
Row spacing	38"	40"	38"
Seeding rate	40,000	45,850	45,850
Previous crop	Cotton	Soybean	Corn
Soil type	Coushatta silt loam	Gigger-Gilbert silt loam	Commerce silt loam
Irrigated	No	Yes	Yes
N-P-K-S (lbs/a)	60-40-52-0	100-60-60-6	80-0-0-14
Defoliation dates	9/15/23; 9/23/23	9/28/23; 10/3/23	9/22/23; 10/3/23
Harvest date	9/28/23	10/9/23	10/10/23
Harvested plot size	2 rows by 35 feet	2 rows by 35 feet	2 rows by 35 feet

¹DLREC=Dean Lee Research and Extension Center, Alexandria; MRRS=Macon Ridge Research Station, Winnsboro; NERS=Northeast Research Station, St. Joseph.

Table 6. Summary of lint yield (lb/a) performance of cotton varieties in the 2023 official variety trials.

Variety	DLREC-sl ¹	MRRS-sl	NERS-sl	2023 AVG	2022 AVG	2021 AVG	2 or 3-year AVG
9371 B3XF	961	1,580	1,652	1,398	1,263	1,332	1,331
AMX160030-A B3XF	588	1,288	1,115	997			
AMX160030-B B3XF	602	1,344	1,256	1,068			
AMX20T079 B3XF	783	1,507	1,329	1,206			
AMX20T114 B3XF	710	1,346	1,393	1,150			
AMX20T157 B3XF	547	1,368	1,327	1,081			
AMX21C005 B3TXF	668	1,512	1,443	1,208			
DG 3503 B3XF	739	1,855	1,393	1,329			
DG 3519 B3XF	733	1,729	1,486	1,248			
DG 3528 B3XF	939	1,741	1,491	1,390			
DG 4530 B3TXF	843	1,684	1,543	1,357			
DP 2038 B3XF	1,009	1,815	1,619	1,481	1,223	1,071	1,258
DP 2115 B3XF	868	1,750	1,536	1,385	1,237	1,095	1,239
DP 2127 B3XF	884	1,652	1,575	1,370	1,324	1,213	1,302
DP 2131 B3TXF	852	1,489	1,627	1,323			
DP 2141NR B3XF	754	1,557	1,541	1,284	1,190	1,239	1,238
DP 2143NR B3XF	791	1,542	1,354	1,229	1,070		1,150
DP 2211 B3TXF	854	1,627	1,703	1,395			
DP 2317 B3TXF	817	1,612	1,598	1,343			
DP 2328 B3TXF	824	1,598	1,656	1,359			
DP 2333 B3XF	950	1,688	1,426	1,355	1,185		1,270
DP 2349NR B3XF	815	1,774	1,464	1,351			
NG 4190 B3XF	1,221	1,701	1,630	1,517			
NG 4335 B3TXF	778	1,475	1,464	1,239			
NG 4343 B3TXF	683	1,720	1,408	1,270			
PHY332W3FE	849	1,509	1,552	1,303	1,103	1,238	1,215
PHY360W3FE	935	1,338	1,481	1,251	1,076	1,137	1,155
PHY400W3FE	775	1,710	1,418	1,301	1,198	1,194	1,231
PHY411W3FE	1,165	1,437	1,643	1,415	1,205	1,418	1,346
PHY415W3FE	1,069	1,320	1,705	1,365	1,125	1,200	1,230
PHY443W3FE	878	1,318	1,475	1,223	1,076	1,205	1,168
PX1130B333-04	829	1,498	1,490	1,272	1,105		1,189
PX1130D303-04	925	1,491	1,539	1,318			
PX1140A385-04	894	1,640	1,586	1,373			
PX1140B373-04	1,033	1,562	1,817	1,471	1,172		1,321
PX1140D328-04	948	1,797	1,607	1,507			
PX1150B437-04	851	1,478	1,280	1,203	1,167		1,185
PX1150D490-04	948	1,575	1,269	1,264			
ST 4595 B3XF	830	1,689	1,654	1,391	1,258	1,176	1,275
ST 4990 B3XF	1,110	1,639	1,353	1,367	1,148	981	1,165
ST 5091 B3XF	959	1,512	1,624	1,365	1,201	1,003	1,190
LSD (0.10)	219	224	214				
CV (%)	21.6	12.2	12.2				
Grand Mean	863	1,567	1,501				

¹DLREC=Dean Lee Research and Extension Center, Alexandria; MRRS=Macon Ridge Research Station, Winnsboro; NERS=Northeast Research Station, St. Joseph; sl=silt loam and AVG=average.

Table 7. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre of cotton varieties grown on a Coughatta silt loam at the Dean Lee Research and Extension Center, Alexandria, 2023.

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
NG 4190 B3XF	1,221	39.2	4.3	1.11	28.1	82.1	53.3	\$796.86
PHY411W3FE	1,165	43.0	4.7	1.03	31.6	82.1	48.9	\$708.87
ST 4990 B3XF	1,110	37.7	4.5	1.11	28.6	82.8	53.2	\$721.85
PHY415W3FE	1,069	38.9	4.3	1.13	32.7	83.9	54.2	\$705.84
PX1140B373-04	1,033	37.9	4.4	1.04	33.6	83.4	51.6	\$636.12
DP 2038 B3XF	1,009	39.5	4.6	1.05	26.8	80.3	48.2	\$640.39
9371 B3XF	961	39.4	4.4	1.10	26.6	82.5	51.6	\$609.86
ST 5091 B3XF	959	37.7	4.1	1.07	28.4	81.6	52.5	\$618.16
DP 2333 B3XF	950	39.2	4.7	1.08	27.6	81.0	51.0	\$594.82
PX1140D328-04	948	39.8	4.0	1.14	33.8	83.5	54.0	\$621.97
PX1150D490-04	948	42.8	4.6	1.10	29.9	82.3	53.1	\$615.00
DG 3528 B3XF	939	39.1	4.1	1.11	28.3	82.9	51.9	\$601.20
PHY360W3FE	935	39.5	4.3	1.12	27.7	81.5	52.1	\$599.84
PX1130D303-04	925	40.0	4.3	1.07	31.4	83.8	52.6	\$596.04
PX1140A385-04	894	42.7	4.6	1.06	33.7	82.8	51.9	\$570.25
DP 2127 B3XF	884	40.4	4.9	1.08	27.8	81.7	51.1	\$554.48
PHY443W3FE	878	40.2	4.3	1.07	32.7	82.7	52.2	\$566.52
DP 2115 B3XF	868	43.4	4.4	1.09	28.9	82.7	52.4	\$559.07
DP 2211 B3TXF	854	39.9	4.1	1.13	26.8	82.2	52.0	\$547.67
DP 2131 B3TXF	852	40.5	4.1	1.15	29.3	82.4	53.9	\$559.90
PX1150B437-04	851	37.5	4.7	1.10	33.5	82.6	52.8	\$552.15
PHY332W3FE	849	39.6	3.9	1.12	32.0	83.2	53.6	\$557.24
DG 4530 B3TXF	843	41.2	4.2	1.12	26.7	83.2	52.4	\$543.06
ST 4595 B3XF	830	40.8	4.4	1.08	26.5	81.5	49.9	\$507.92
PX1130B333-04	829	39.9	4.1	1.07	31.0	82.5	51.9	\$528.88
DP 2328 B3TXF	824	40.2	4.3	1.10	28.2	81.7	52.2	\$529.51
DP 2317 B3TXF	817	38.7	4.0	1.11	25.9	82.4	49.0	\$498.28
DP 2349NR B3XF	815	40.0	4.8	1.09	29.8	82.9	51.6	\$518.46
DP 2143NR B3XF	791	38.6	5.0	1.12	32.3	82.9	51.5	\$501.02
AMX20T079 B3XF	783	37.8	4.1	1.10	28.2	82.8	53.0	\$507.74
NG 4335 B3TXF	778	37.4	4.1	1.16	32.6	84.1	54.3	\$514.13
PHY400W3FE	775	40.9	4.1	1.12	30.3	81.9	53.6	\$506.87
DP 2141NR B3XF	754	39.5	4.8	1.08	30.9	81.8	52.0	\$481.32
DG 3503 B3XF	739	40.9	4.0	1.11	29.3	82.6	52.2	\$467.18
DG 3519 B3XF	733	39.5	3.9	1.11	30.5	82.9	52.4	\$468.92
AMX20T114 B3XF	710	38.3	4.7	1.11	30.1	83.1	53.3	\$462.65
NG 4343 B3TXF	683	38.0	4.0	1.15	30.0	82.8	54.0	\$449.27
AMX21C005 B3TXF	668	36.7	4.0	1.12	28.8	83.2	53.4	\$435.62
AMX160030-B B3XF	602	39.8	4.6	1.09	31.0	82.3	52.7	\$389.00
AMX160030-A B3XF	588	41.3	4.3	1.16	30.9	83.4	54.1	\$387.82
AMX20T157 B3XF	547	39.0	4.0	1.10	31.2	82.4	53.2	\$354.70
LSD P=0.10	210	0.02	0.3	0.03	2.4	1.3	2.2	\$139.10
CV (%)	20.9	5.3	5.9	2.5	7.0	1.3	3.6	21.5
Grand Mean	859	39.7	4.3	1.10	29.8	82.5	52.3	\$550.89

¹Please refer to Table 4 for abbreviations definitions.

²Shaded values are not statistically different than the highest value in each column.

Table 8. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre of cotton varieties grown on a Gigger-Gilbert silt loam at the Macon Ridge Research Station, Winnsboro, 2023.

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
DG 3503 B3XF	1,855	40.1	4.1	1.23	33.5	84.8	54.45	\$1,229.93
DP 2038 B3XF	1,815	43.5	4.9	1.11	30.6	82.2	52.29	\$1,161.96
PX1140D328-04	1,797	40.9	4.6	1.14	33.2	83.7	54.24	\$1,187.74
DP 2349NR B3XF	1,774	40.4	4.9	1.10	31.3	83.9	51.54	\$1,139.19
DP 2115 B3XF	1,750	41.6	5.3	1.12	30.5	83.2	51.06	\$1,102.55
DG 3528 B3XF	1,741	41.0	4.9	1.14	30.0	83.6	52.01	\$1,113.39
DG 3519 B3XF	1,729	39.4	4.7	1.18	32.5	84.4	54.29	\$1,145.44
NG 4343 B3TXF	1,720	39.9	4.8	1.17	31.6	84.2	53.63	\$1,126.28
PHY400W3FE	1,710	40.8	4.6	1.14	32.6	83.4	53.20	\$1,116.05
NG 4190 B3XF	1,701	40.7	4.8	1.15	29.7	84.5	52.76	\$1,099.96
ST 4595 B3XF	1,689	42.0	5.3	1.17	30.5	83.8	51.88	\$1,077.55
DP 2333 B3XF	1,688	39.9	5.2	1.14	30.7	83.5	51.40	\$1,072.26
DG 4530 B3TXF	1,684	40.7	4.7	1.15	28.4	83.1	53.18	\$1,095.97
DP 2127 B3XF	1,652	40.7	5.3	1.09	30.1	83.7	50.20	\$1,026.47
PX1140A385-04	1,640	41.5	4.2	1.12	36.1	83.6	53.75	\$1,076.37
ST 4990 B3XF	1,639	37.0	4.7	1.18	32.0	84.5	54.28	\$1,083.72
DP 2211 B3TXF	1,627	41.0	4.9	1.14	28.8	84.2	52.86	\$1,054.15
DP 2317 B3TXF	1,612	38.8	4.5	1.17	29.2	84.0	53.96	\$1,061.29
DP 2328 B3TXF	1,598	40.1	4.9	1.14	29.3	82.9	52.59	\$1,030.38
9371 B3XF	1,580	41.4	5.1	1.13	29.0	84.4	51.80	\$1,003.78
PX1150D490-04	1,575	41.7	4.5	1.12	30.0	83.4	53.40	\$1,026.95
PX1140B373-04	1,562	39.1	4.6	1.11	34.8	83.8	53.88	\$1,026.44
DP 2141NR B3XF	1,557	38.8	5.0	1.16	33.8	83.7	54.08	\$966.27
DP 2143NR B3XF	1,542	39.4	5.3	1.17	35.6	84.2	51.23	\$972.40
AMX21C005 B3TXF	1,512	38.8	4.3	1.14	29.5	83.3	53.68	\$991.89
ST 5091 B3XF	1,512	39.8	4.9	1.13	28.6	82.3	51.89	\$963.87
PHY332W3FE	1,509	39.9	4.7	1.19	35.1	84.3	54.46	\$1,000.89
AMX20T079 B3XF	1,507	39.1	4.4	1.16	29.4	83.8	53.65	\$986.93
PX1130B333-04	1,498	39.4	4.6	1.13	34.1	84.1	53.39	\$975.41
PX1130D303-04	1,491	39.2	4.9	1.12	33.4	85.3	53.38	\$972.90
DP 2131 B3TXF	1,489	40.8	4.7	1.17	31.3	83.7	54.11	\$982.04
PX1150B437-04	1,478	38.3	5.1	1.09	33.4	83.0	50.64	\$923.45
NG 4335 B3TXF	1,475	38.7	4.7	1.18	31.4	85.1	54.23	\$974.79
PHY411W3FE	1,437	41.6	4.7	1.08	33.4	82.2	52.89	\$930.20
AMX20T157 B3XF	1,368	40.3	4.7	1.14	30.7	83.5	53.11	\$887.63
AMX20T114 B3XF	1,346	36.7	5.0	1.18	31.3	84.8	52.98	\$872.92
AMX160030-B B3XF	1,344	38.7	4.8	1.17	32.1	83.7	53.00	\$872.39
PHY360W3FE	1,338	39.0	5.0	1.11	28.5	83.4	51.91	\$854.09
PHY415W3FE	1,320	40.6	4.8	1.12	33.1	83.6	53.15	\$858.65
PHY443W3FE	1,318	40.1	4.4	1.11	33.7	84.0	53.18	\$856.72
AMX160030-A B3XF	1,288	42.0	4.5	1.16	29.4	83.3	53.84	\$845.83
LSD P=0.10	213	1.0	0.3	0.04	1.5	1.3	1.72	\$148.26
CV (%)	11.5	2.2	5.8	2.7	3.9	1.3	2.8	12.4
Grand Mean	1,572	40.0	4.8	1.14	31.5	83.7	52.96	\$1,018.22

¹Please refer to Table 4 for abbreviations definitions.

²Shaded values are not statistically different than the highest value in each column.

Table 9. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre of cotton varieties grown on a Commerce silt loam at the Northeast Research Station, St. Joseph, 2023.

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
PX1140B373-04	1,817	39.1	4.7	1.17	37.7	85.2	54.35	\$1,204.29
PHY415W3FE	1,705	39.8	4.7	1.20	34.4	84.9	54.48	\$1,131.01
DP 2211 B3TXF	1,703	41.5	4.4	1.19	28.2	84.2	53.98	\$1,121.23
DP 2328 B3TXF	1,656	41.2	4.6	1.16	29.2	83.4	53.30	\$1,077.47
ST 4595 B3XF	1,654	41.2	4.8	1.22	31.1	85.1	53.71	\$1,083.82
9371 B3XF	1,652	41.4	5.0	1.17	29.7	85.0	52.80	\$1,067.33
PHY411W3FE	1,643	42.4	4.7	1.14	34.0	84.0	53.61	\$1,075.96
NG 4190 B3XF	1,630	40.3	4.6	1.22	31.5	85.9	54.40	\$1,080.36
DP 2131 B3TXF	1,627	39.7	4.4	1.24	30.8	84.6	54.28	\$1,076.01
ST 5091 B3XF	1,624	40.3	4.4	1.19	29.2	83.1	53.93	\$1,068.12
DP 2038 B3XF	1,619	44.3	5.0	1.13	30.0	82.5	51.64	\$1,026.29
PX1140D328-04	1,607	40.6	4.4	1.23	36.3	85.4	54.56	\$1,067.48
DP 2317 B3TXF	1,598	38.9	4.2	1.19	31.3	83.9	54.31	\$1,057.66
PX1140A385-04	1,586	42.8	4.8	1.14	37.2	85.4	53.70	\$1,039.94
DP 2127 B3XF	1,575	40.2	5.1	1.18	31.8	85.4	52.51	\$1,013.14
PHY332W3FE	1,552	38.8	4.2	1.23	34.5	84.1	54.54	\$1,030.37
DG 4530 B3TXF	1,543	39.6	4.5	1.20	30.0	85.0	54.18	\$1,018.85
DP 2141NR B3XF	1,541	39.2	4.7	1.21	34.8	84.7	53.86	\$1,013.88
PX1130D303-04	1,539	40.2	4.5	1.16	35.4	85.3	54.40	\$1,019.25
DP 2115 B3XF	1,536	41.2	4.9	1.17	32.2	84.0	53.65	\$1,003.84
DG 3528 B3XF	1,491	39.6	4.4	1.23	32.9	85.6	54.48	\$1,054.11
PX1130B333-04	1,490	39.1	4.6	1.18	36.8	85.2	54.43	\$963.07
DG 3519 B3XF	1,486	40.1	4.5	1.22	32.0	85.2	54.41	\$984.47
PHY360W3FE	1,481	39.5	4.4	1.17	30.3	82.4	54.06	\$975.96
PHY443W3FE	1,475	40.4	4.5	1.18	37.6	85.4	54.49	\$978.37
DP 2349NR B3XF	1,464	42.2	4.8	1.18	33.1	84.5	53.75	\$960.43
NG 4335 B3TXF	1,464	37.6	4.4	1.24	32.2	85.0	54.41	\$969.61
AMX21C005 B3TXF	1,443	38.4	4.2	1.19	30.7	84.3	54.35	\$955.45
DP 2333 B3XF	1,426	41.3	4.9	1.16	29.4	83.0	52.63	\$919.15
PHY400W3FE	1,418	41.1	4.4	1.20	34.0	84.1	54.51	\$940.79
NG 4343 B3TXF	1,408	39.6	4.5	1.21	31.3	84.6	54.31	\$931.39
DG 3503 B3XF	1,393	41.5	4.1	1.27	33.8	84.5	54.56	\$925.04
AMX20T114 B3XF	1,393	38.9	4.5	1.22	31.5	85.6	54.36	\$922.30
DP 2143NR B3XF	1,354	39.6	5.0	1.20	34.2	84.3	53.26	\$879.69
ST 4990 B3XF	1,353	36.5	4.6	1.22	30.0	84.8	54.18	\$893.38
AMX20T079 B3XF	1,329	38.6	4.3	1.20	31.9	83.7	54.34	\$879.76
AMX20T157 B3XF	1,327	38.9	4.8	1.19	32.4	84.7	54.35	\$878.35
PX1150B437-04	1,280	37.7	4.7	1.17	35.2	84.2	54.38	\$847.66
PX1150D490-04	1,269	39.3	4.5	1.19	32.1	84.5	54.33	\$841.17
AMX160030-B B3XF	1,256	38.5	4.5	1.19	32.3	85.1	54.35	\$830.47
AMX160030-A B3XF	1,115	40.8	4.6	1.22	30.2	84.5	54.24	\$736.39
LSD P=0.10	214	0.01	0.2	0.03	1.4	1.0	0.84	\$136.96
CV (%)	12.2	2.4	4.5	2.1	3.8	1.0	1.3	11.8
Grand Mean	1,501	40.0	4.6	1.19	32.5	84.5	54.01	\$988.86

¹Please refer to Table 4 for abbreviations definitions.

²Shaded values are not statistically different than the highest value in each column.

Table 10. Lint yield (lb/a) summary of the 2023 cotton on-farm core block demonstrations at six locations identified by parish.

Brand	Variety	Caddo	Franklin	Morehouse	Pointe Coupee	Richland ¹	Tensas	Average ²
Deltapine	DP 2127 B3XF	1,284	1,371	1,245	1,366	715	1,559	1,257
Deltapine	DP 2333 B3XF	1,211	1,515	1,190	1,218	648	1,394	1,196
Stoneville	ST 4595 B3XF	1,136	1,307	1,092	1,409	598	1,534	1,179
Stoneville	ST 5091 B3XF	1,174	1,404	1,156	1,298	651	1,382	1,177
Dyna-Gro	3519 B3XF	1,213	1,237	969	1,278	604	1,457	1,126
Dyna-Gro	4530 B3XF	1,085	1,171	1,067	1,283	778	1,198	1,097
PhytoGen	PHY 411 W3FE	³	1,363	1,367	824 ⁴	662	1,251	1,094
PhytoGen	PHY 415 W3FE	³	1,233	1,195	835 ⁴	613	1,404	1,056
Location average		1,184	1,325	1,160	1,159	659	1,397	

¹Location had severe drought stress.

²Balanced average that represents the six locations in which all varieties were present.

³Variety not included at this location.

⁴Herbicide damage.

Table 11. Lint yield (lb/a) summary of the 2023 cotton on-farm core block demonstrations at five locations identified by parish excluding drought and herbicide damaged plots.

Brand	Variety	Caddo	Franklin	Morehouse	Pointe Coupee	Tensas	Average ¹
Deltapine	DP 2127 B3XF	1,284	1,371	1,245	1,366	1,559	1,365
PhytoGen	PHY 411 W3FE	²	1,363	1,367	³	1,251	1,327
Deltapine	DP 2333 B3XF	1,211	1,515	1,190	1,218	1,394	1,305
Stoneville	ST 4595 B3XF	1,136	1,307	1,092	1,409	1,534	1,296
Stoneville	ST 5091 B3XF	1,174	1,404	1,156	1,298	1,382	1,283
PhytoGen	PHY 415 W3FE	²	1,233	1,195	³	1,404	1,277
Dyna-Gro	3519 B3XF	1,213	1,237	969	1,278	1,457	1,231
Dyna-Gro	4530 B3XF	1,085	1,171	1,067	1,283	1,198	1,161
Location average		1,184	1,325	1,160	1,311	1,397	

¹Balanced average that represents the five locations in which all varieties were present.

²Variety not included at this location.

³Data excluded because of herbicide damage.

Table 12. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Caddo core block demonstration, 2023.

Parish: Caddo

Previous crop: Corn

Irrigation: Yes

Community: Dixie

Soil type: Coushatta silt loam

Plot size: 1.06-1.10 acres

Cooperator: Ryan Kirby

Tillage: Minimum

Planting date: 5/4/23

Agent: John Terrell

N rate (lbs/acre): 85

Row spacing: 30" (2:1 skip)

Seeding rate: 38,000

Harvest date: 10/12/23

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
DP 2127 B3XF	1,299	41.6	5.1	1.13	30.2	84.1	51.45	\$822.07
DP 2127 B3XF	1,270	40.3	4.8	1.18	33.4	86.9	54.60	\$803.94
Average	1,284	41.0	5.0	1.16	31.8	85.5	53.03	\$813.00
3519 B3XF	1,233	40.0	4.6	1.20	32.9	85.7	54.40	\$816.82
3519 B3XF	1,193	39.6	4.6	1.25	33.5	86.1	54.60	\$790.19
Average	1,213	39.8	4.6	1.23	33.2	85.9	54.50	\$803.51
DP 2333 B3XF	1,260	41.6	4.7	1.12	29.8	83.9	53.65	\$825.03
DP 2333 B3XF	1,162	40.5	4.8	1.21	30.2	85.2	54.25	\$761.20
Average	1,211	41.0	4.8	1.17	30.0	84.6	53.95	\$793.12
ST 5091 B3XF	1,072	37.2	4.2	1.17	32.6	82.9	54.20	\$708.05
ST 5091 B3XF	1,275	39.7	4.0	1.22	31.0	83.2	54.40	\$842.44
Average	1,174	38.5	4.1	1.20	31.8	83.1	54.30	\$775.24
ST 4595 B3XF	1,094	41.4	4.7	1.23	33.9	84.3	54.50	\$725.99
ST 4595 B3XF	1,177	40.4	4.9	1.20	31.7	85.8	54.40	\$781.22
Average	1,136	40.9	4.8	1.22	32.8	85.1	54.45	\$753.61
DP 2131 B3XF	1,195	39.5	4.1	1.26	32.1	84.6	54.45	\$792.09
DP 2131 B3XF	1,029	39.7	4.3	1.26	31.3	85.6	54.40	\$682.27
Average	1,112	39.6	4.2	1.26	31.7	85.1	54.43	\$737.18
4530 B3XF	1,078	38.7	4.3	1.22	28.6	84.3	54.00	\$709.82
4530 B3XF	1,091	40.2	4.2	1.20	29.5	85.4	54.20	\$718.72
Average	1,085	39.4	4.3	1.21	29.1	84.9	54.10	\$714.27

¹Please refer to Table 4 for abbreviation definitions.

Table 13. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Franklin core block demonstration, 2023.

Parish: Franklin

Previous crop: Corn

Irrigation: Yes

Community: Jigger

Soil type: Gilbert-Egypt sl

Plot size: 1.21-1.56 acres

Cooperator: Kody and Melanie Beavers

Tillage: Minimum

Planting date: 5/6/23

Agent: Carol Pinnell-Alison

N rate (lbs/acre): 100

Row spacing: 38"

Seeding rate: 39,000

Harvest date: 10/2/23

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
DP 2333 B3XF	1,442	39.4	4.9	1.15	30.0	82.3	53.95	\$948.56
DP 2333 B3XF	1,587	40.1	4.9	1.19	30.2	84.4	54.20	\$1,044.51
Average	1,515	39.8	4.9	1.17	30.1	83.4	54.08	\$996.54
ST 5091 B3XF	1,362	39.8	4.3	1.18	27.8	84.1	54.00	\$897.19
ST 5091 B3XF	1,445	39.6	4.1	1.19	29.1	83.7	54.10	\$951.68
Average	1,404	39.7	4.2	1.19	28.5	83.9	54.05	\$924.43
DP 2127 B3XF	1,353	40.9	4.9	1.18	31.8	85.1	54.40	\$896.24
DP 2127 B3XF	1,389	40.1	5.0	1.17	32.2	84.8	51.80	\$920.31
Average	1,371	40.5	5.0	1.18	32.0	85.0	53.10	\$908.28
PHY 411 W3FE	1,292	42.7	4.8	1.17	34.4	84.7	54.35	\$855.25
PHY 411 W3FE	1,434	41.1	4.5	1.20	36.3	84.4	54.50	\$949.29
Average	1,363	41.9	4.7	1.19	35.4	84.6	54.43	\$902.27
ST 4595 B3XF	1,305	39.7	4.9	1.18	32.4	85.5	54.40	\$864.68
ST 4595 B3XF	1,309	41.0	4.9	1.20	30.9	85.2	54.25	\$866.87
Average	1,307	40.4	4.9	1.19	31.7	85.4	54.33	\$865.78
3519 B3XF	1,285	39.0	4.9	1.25	33.7	85.8	54.55	\$853.34
3519 B3XF	1,188	38.4	4.3	1.22	34.9	86.1	54.60	\$789.03
Average	1,237	38.7	4.6	1.24	34.3	86.0	54.58	\$821.18
PHY 415 W3FE	1,252	39.5	4.5	1.24	38.0	85.5	54.55	\$831.13
PHY 415 W3FE	1,214	39.4	4.4	1.22	37.2	86.4	54.60	\$806.34
Average	1,233	39.5	4.5	1.23	37.6	86.0	54.58	\$818.73
4530 B3XF	1,144	39.9	4.8	1.16	29.4	85.3	53.95	\$752.84
4530 B3XF	1,197	40.1	4.1	1.17	30.6	82.9	54.05	\$787.82
Average	1,171	40.0	4.5	1.17	30.0	84.1	54.00	\$770.33

¹Please refer to Table 4 for abbreviation definitions.

Table 14. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Morehouse core block demonstration, 2023.

Parish: Morehouse

Cooperators: Matt Turner

Soil type: Sterlington silt loam

Community: Gallion

Agent: Bruce Garner

GPS: 32°50'50.45"N, 91°47'25.14"W

Plot size: 1.43-1.55 acres

Irrigation: Yes

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
PHY 411 W3FE	1,367	42.0	4.3	1.16	37.5	84.6	54.35	\$905.08
DP 2333 B3XF	1,245	40.9	4.6	1.18	32.0	84.4	54.35	\$824.30
PHY 415 W3FE	1,195	39.3	3.9	1.27	40.8	86.7	54.70	\$795.18
3519 B3XF	1,190	37.5	4.4	1.24	35.9	86.5	54.60	\$790.62
ST 5091 B3XF	1,156	39.5	3.9	1.17	29.6	81.8	53.85	\$759.16
ST 4595 B3XF	1,092	40.4	4.8	1.24	34.7	86.1	54.60	\$725.49
DP 2127 B3XF	1,067	40.1	4.5	1.18	30.7	84.4	54.20	\$704.60
4530 B3XF	969	40.2	4.5	1.19	29.8	83.8	54.00	\$638.33

¹Please refer to Table 4 for abbreviation definitions.

Table 15. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Pointe Coupee core block demonstration, 2023.

Parish: Pointe Coupee

Agent: Mark Carriere

Plot size: 0.61-0.7 acres

Community: Batchelor

Seeding Rate: 34,500

Planting Date: 5/26/23

Cooperator: George LaCour

Harvest Date: 10/4/23

Row spacing: 38"

Irrigation: No

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
ST 4595 B3XF	1,346	39.7	4.7	1.23	32.5	84.8	54.35	\$891.07
ST 4595 B3XF	1,452	42.3	4.6	1.16	29.9	83.1	53.85	\$961.35
ST 4595 B3XF	1,420	40.4	4.1	1.21	30.7	84.1	54.30	\$939.99
Average	1,406	40.8	4.5	1.20	31.0	84.0	54.17	\$930.80
DP 2127 B3XF	1,328	38.7	4.6	1.12	29.2	84.4	53.70	\$870.22
DP 2127 B3XF	1,386	41.3	4.2	1.16	30.5	83.9	54.10	\$908.65
DP 2127 B3XF	1,374	39.6	4.6	1.17	31.9	83.8	54.15	\$900.37
Average	1,362	39.9	4.5	1.15	30.5	84.0	53.98	\$893.08
DG 4530 B3TXF	1,309	40.3	4.2	1.19	30.8	85.0	54.35	\$866.58
DG 4530 B3TXF	1,233	40.2	3.9	1.16	27.0	84.0	53.95	\$816.03
DG 4530 B3TXF	1,294	38.0	4.1	1.23	29.8	85.1	54.20	\$856.82
Average	1,279	39.5	4.1	1.19	29.2	84.7	54.17	\$846.48
DG 3519 B3XF	1,237	38.9	4.3	1.22	33.4	84.8	54.50	\$820.68
DG 3519 B3XF	1,350	38.5	4.1	1.25	35.7	86.6	54.70	\$895.93
DG 3519 B3XF	1,236	37.6	4.2	1.23	31.7	85.3	54.50	\$820.39
Average	1,275	38.4	4.2	1.23	33.6	85.6	54.57	\$845.66
ST 5091 B3XF	1,235	39.6	3.9	1.10	26.7	81.6	52.65	\$796.56
ST 5091 B3XF	1,245	37.2	4.0	1.22	31.6	84.8	54.45	\$803.03
ST 5091 B3XF	1,407	40.1	4.2	1.16	29.7	83.9	53.95	\$907.29
Average	1,296	38.9	4.0	1.16	29.3	83.4	53.68	\$835.63
DP 2333 B3XF	1,211	40.7	4.3	1.12	30.0	82.6	53.75	\$794.14
DP 2333 B3XF	1,082	38.1	4.4	1.09	28.2	82.2	52.60	\$709.51
DP 2333 B3XF	1,360	40.7	4.3	1.11	28.7	82.9	53.55	\$891.85
Average	1,217	39.8	4.3	1.11	29.0	82.6	53.30	\$798.50
PHY 415 W3FE	859	40.8	3.6	1.23	33.8	86.2	54.60	\$571.12
PHY 415 W3FE	794	40.4	4.4	1.15	36.9	85.3	54.40	\$527.47
PHY 415 W3FE	847	39.7	3.9	1.23	36.2	84.9	54.60	\$562.95
Average	833	40.3	4.0	1.20	35.6	85.5	54.53	\$553.85
PHY 411 W3FE	909	42.5	4.8	1.08	35.1	82.4	53.10	\$590.53
PHY 411 W3FE	836	42.6	3.7	1.15	34.5	82.6	54.35	\$542.81
PHY 411 W3FE	724	42.3	4.5	1.07	36.1	84.0	52.65	\$470.06
Average	823	42.5	4.3	1.10	35.2	83.0	53.37	\$534.47

¹Please refer to Table 4 for abbreviation definitions.

Table 16. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Richland core block demonstration, 2023.

Parish: Richland **Previous crop:** Corn **Irrigation:** Yes
Community: Archibald **Soil type:** Gigger-Gilbert complex **Plot size:** 2.52-3.35 acres
Cooperator: Eddie Conley **Tillage:** Minimum **Planting date:** 5/18/23
Agent: Carol Pinnell-Alison **N rate (lbs/acre):** 100 **Row spacing:** 38"
Seeding rate: 3 seed/ft **Harvest date:** 10/17/23

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
4530 B3XF	778	39.2	5.0	1.18	30.3	84.7	51.80	\$495.05
DP 2127 B3XF	715	41.3	5.1	1.17	38.1	86.1	52.05	\$456.56
PHY 411 W3FE	662	39.9	4.7	1.15	37.3	85.1	54.40	\$438.77
ST 5091 B3XF	651	39.7	4.7	1.10	29.9	83.0	52.70	\$419.96
DP 2333 B3XF	648	40.2	5.1	1.16	30.9	82.9	51.55	\$411.07
PHY 415 W3FE	613	40.1	4.7	1.20	36.7	83.9	54.45	\$406.51
3519 B3XF	604	39.2	4.8	1.19	34.3	84.7	54.50	\$401.03
ST 4595 B3XF	598	40.7	5.0	1.21	32.6	84.3	51.95	\$381.35

¹Please refer to Table 4 for abbreviations definitions.

Table 17. Lint yield, gin turnout, fiber characteristics, loan value and gross return per acre, Tensas core block demonstration, 2023.

Parish: Tensas **Agent:** Dennis Burns **Row spacing:** 38"
Community: Tullonia Plantation **Harvest date:** 10/29/23 **Soil type:** Sharkey clay, Dundee silt loam
Cooperators: Kody and Melanie Beavers **Irrigation:** Yes **GPS:** 31.847944, -91.502156
Plot size: 1.38-1.84 acres

Variety	LY (lb/a) ¹	TO (%)	MIC	LGTH (in)	SGTH (g/tex)	UNIF (%)	LV (¢/lb)	GR (\$/a)
DP 2127 B3XF	1,559	40.1	4.7	1.11	34.5	84.0	54.15	\$1,029.19
ST 4595 B3XF	1,534	40.7	4.9	1.12	35.6	82.4	54.05	\$1,010.93
DG 3519 B3XF	1,457	39.7	5.0	1.09	33.0	82.4	50.70	\$911.15
PHY 415 W3FE	1,404	39.6	4.8	1.08	33.4	83.5	53.15	\$912.86
DP 2333 B3XF	1,394	41.3	4.8	1.13	36.5	83.3	54.10	\$919.11
ST 5091 B3XF	1,382	38.7	4.9	1.11	33.0	81.4	54.00	\$910.00
PHY 411 W3FE	1,251	41.1	5.1	1.11	34.9	84.7	51.75	\$795.78
DG 4530 B3TXF	1,198	39.0	5.2	1.10	33.3	82.3	50.70	\$749.44

¹Please refer to Table 4 for abbreviations definitions.

Notes

[illegible]

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Riley Tullos, Research Associate

LSU AgCenter Dean Lee Research and Extension Center

Daniel Stephenson, Professor/State Weed Specialist

Boyd Padgett, Professor/Plant Pathologist

Cory Juneau, Farm Manager

Fred Collins, Research Associate

Tashia Monaghan, Research Associate

LSU AgCenter Macon Ridge Research Station

Rasel Parvej, Assistant Professor/Soil Fertility Specialist

Trey Price, Associate Professor/Plant Pathologist

Scott Washam, Research Farm Manager

Myra Purvis, Research Associate

Dustin Ezell, Research Associate

Moklasur Rahman, Research Associate

Jamil Uddin, Postdoctoral Researcher

LSU AgCenter Cotton Fiber Lab

John I. Dickson, Instructor



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