

2018 MSU Extension On-Farm Cotton Variety Demonstration Program



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2018 County Trial Locations and Cooperators

Trials arranged and conducted by Darrin Dodds, PhD.

Assistance provided by Savana Davis, Lucas Franca, Steven Hall, William Rutland, Tyler Soignier, Brint Lindsey, and Joseph Hayes.

Special thanks to Tyson Raper, PhD, University of Tennessee – West Tennessee Research and Education Center.

Table 1. Locations, growers, and cooperating agronomists for 2018 MSU Extension On-Farm Cotton Variety Demonstration Program.

| Location | Grower | Agronomist |
|-------------------|----------------------------|-------------------|
| Ashland | Heath Byrd | Michael Pruitt |
| Brooksville | Darrin Dodds | Darrin Dodds |
| Bruce | Trey Brower | Darrin Dodds |
| Calhoun City | Seth Davis | Bill Burdine |
| Coffeeville | Coley Bailey | Darrin Dodds |
| Crawford | Rodney Mast/Lowell Mullett | Darrin Dodds |
| Edwards | Kendall Garraway | Darrin Dodds |
| Ellistown | Larry Coker | Charlie Stokes |
| Eupora | Matt Knight | Dennis Reginelli |
| Glendora | Mike Sturdivant | Darrin Dodds |
| Greenwood | John Moor | Andy Braswell |
| Greenwood | Travis Dunn | Andy Braswell |
| Louise | Byron Seward | Darrin Dodds |
| Mattson | Bowen Flowers | Darrin Dodds |
| Mayersville | Chase Mahaliitic | Darrin Dodds |
| Mississippi State | Darrin Dodds | Darrin Dodds |
| Natchez | Matthew Guedon | Darrin Dodds |
| West Point | Ben Harlow | Charlie Stokes |

Mississippi State University Extension sincerely appreciates the time and effort of the cooperating growers and Mississippi State University agronomists. In addition, several independent consultants provided a tremendous level of assistance with these trials, including Ty Edwards, Jason Grafton, Bert Falkner, Tucker Miller, and Tim Richards. Sincere gratitude is also extended to the following seed companies and representatives for providing seed for these trials: BASF, Andy White; Crop Production Services/Dyna-Gro, Scott Cummings; Dow AgroSciences/Phytogen Cottonseed, Tom Eubank; Americot/NexGen, Chase Samples; and Delta and Pine Land, Greg Ferguson. Cooperation from all aforementioned parties is essential for success of the MSU Extension On-Farm Cotton Variety Demonstration Program. In addition, partial financial support for this project was provided by each participating company and Cotton Incorporated.

Introduction

The cotton variety selection process is often difficult and, in many cases, leaves growers wondering for the remainder of the growing season whether they made the right variety selection decisions. Furthermore, the rapid introduction of new varieties and discontinued production of “older” varieties has become commonplace over the past several years

Historically, a premier variety would remain in the marketplace for a long period of time. However, a variety that performs well today typically has a life span of 4–6 years. One that does not perform well will likely remain on the market for less than 3 years. In addition, the historical standard for variety testing information was to have 2–3 years of data before releasing any given variety. Today, 1–2 years of “broad-scale” variety testing is common. Therefore, greater demand has been placed on testing a variety in as many environments as possible as a substitute for multiple years of data. In most cases, variety testing before release is conducted by private industry through a series of testing methods and through university official variety trial (OVT) programs. Official variety trial data is typically available for 1 year before the release of a given variety.

Our on-farm testing program is not designed to replace or compete with small-plot OVT testing programs; rather, it is designed to complement the data that is provided by OVT programs. The use of large-plot variety trial data in conjunction with small-plot OVT data provides a tremendous resource to Mississippi growers with respect to variety performance.

Methodology

The MSU Extension on-farm testing program is designed to test varieties in as many environments as possible. Limiting the number of entries allows for efficient planting and harvest operations and requires a minimum amount of time from cooperating growers. The number of variety entries each company is given depends on market share. In addition, one to two at-large entries are given to smaller companies in order to provide equal opportunity to as many seed providers as possible. Our on-farm variety tests are usually planted in 8- or 12-row sets using planting equipment provided by each respective grower. In some cases, 4- or 6-row sets are used, depending on site characteristics and grower preference. In addition, two replications of each variety are planted and harvested at all locations. Plot lengths ranged from 500 to 2,600 feet in 2018 depending on the characteristics of the field the trial was conducted in. Seed treatments are at the discretion of the company providing seed. A premium seed treatment package including an insecticide, fungicide, and nematocide was provided for each variety. In-season

management is at the discretion of the growers, who are encouraged to manage the plots as they would manage any given field on their farm.

Each replication for each variety was individually harvested using standard harvest equipment. Harvest weights were collected using a boll buggy or trailer modified to display the weight of seed cotton contained therein. Before all harvest operations, each boll buggy or trailer was calibrated by the Mississippi Department of Agriculture to ensure that accurate harvest weights were collected. An 8- to 10-pound seed cotton sample was collected for each variety tested. In order to reduce ginning time, subsamples from replications number 1 and 2 were composited into a single sample. Seed cotton was ginned at the University of Tennessee – West Tennessee Research and Education Center. Ginning equipment at the WTREC consists of a 20-saw Continental Eagle gin equipped with a stick machine, incline cleaners, two lint cleaners, and a condenser. Fiber quality for each ginned sample was determined using a high-volume instrument (HVI) located at the United States Department of Agriculture Classing Office in Memphis.

Entries

A maximum of 10 core variety entries per year are allowed in the MSU Extension On-Farm Cotton Variety Trial program. Entries are allotted by market share from respective companies. One entry per year is automatically given to the variety planted on the highest acreage in the previous year based on the annual Varieties Planted Report from USDA-AMS. In 2018, Monsanto/Delta and Pine Land was allotted three spots; Dow AgroSciences/Phytogen Cottonseed was allotted three spots; Bayer CropScience was allotted two spots; and two additional “at-large” entries were given to provide parity between smaller companies with less resources than larger companies. Entries in the 2018 MSU Extension On-Farm Cotton Variety Demonstration Program are listed in **Table 2**.

Table 2. 2018 MSU Extension On-Farm Cotton Variety Demonstration Program entry list.

| Slot | Criteria/Company | Variety |
|------|---|--------------|
| 1 | At-large entry: Crop Production Services/Dyna-Gro | DG 3526 B2XF |
| 2 | At-large entry – Americot | NG 3729 B2XF |
| 3 | BASF | ST 5122GLT |
| 4 | BASF | ST 5471GLTP |
| 5 | Dow AgroSciences/Phytogen Cottonseed | PHY 320 W3FE |
| 6 | Dow AgroSciences/Phytogen Cottonseed | PHY 430 W3FE |
| 7 | Dow AgroSciences/Phytogen Cottonseed | PHY 480 W3FE |
| 8 | Delta and Pine Land | DP 1646 B2XF |
| 9 | Delta and Pine Land | DP 1835 B3XF |
| 10 | Delta and Pine Land | DP 1845 B3XF |

Site Characteristics

Locations for the 2018 MSU Extension On-Farm Cotton Variety Demonstration Program are listed on page 2. Yield trials were conducted at a total of 18 locations. Six locations were in the Delta and 12 in the Hills region. All Delta locations were irrigated; 11 of 12 Hill locations were dryland. The remaining Hill location (Crawford) was pivot irrigated. Field sites were chosen based on grower preference and required elements to conduct a reliable yield trial.

Reported Data and Analysis

Each data table includes the following: variety, lint yield, lint percent, micronaire, staple length (in inches), fiber strength, fiber uniformity, and leaf grade. Data analysis using SAS v. 9.4 was conducted on all replicated trials. Grand means (averages) are presented as well as least significant differences (LSD). Least significant differences are the smallest value with which we can confidently say there is a difference between two means. Differences in means less than the given LSD value are likely due to variability within a given field or environment. For non-replicated trials and fiber data at individual locations, LSDs are not applicable. For locations that were replicated and data from one replication of a given variety was lost, SAS will interpret these data as missing and provide data analysis based on estimates. Therefore, average data for a given location may be slightly different than data reported.

2018 MSU Extension On-Farm Cotton Variety Trial Program

Table 3. Yield and fiber quality data pooled across 18 locations.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1206* | 40.7 | 4.6 | 1.21 | 30.4 | 82.4 | 4.0 |
| NG 3729 B2XF | 1122 | 39.1 | 4.8 | 1.19 | 30.9 | 83.2 | 4.1 |
| DP 1845 B3XF | 1119 | 40.7 | 4.3 | 1.24 | 32.2 | 83.1 | 4.7 |
| DG 3526 B2XF | 1115 | 40.9 | 4.8 | 1.12 | 29.1 | 82.7 | 3.5 |
| ST 5471GLTP | 1107 | 38.5 | 4.4 | 1.14 | 31.3 | 81.7 | 3.9 |
| PHY 430 W3FE | 1105 | 40.4 | 4.5 | 1.12 | 31.6 | 82.9 | 3.9 |
| PHY 320 W3FE | 1083 | 37.8 | 4.4 | 1.16 | 32.2 | 83.4 | 4.2 |
| DP 1835 B3XF | 1081 | 41.7 | 4.7 | 1.16 | 30.7 | 82.0 | 3.9 |
| PHY 480 W3FE | 1044 | 39.1 | 4.5 | 1.15 | 31.0 | 83.4 | 3.9 |
| ST 5122GLT | 1031 | 38.0 | 4.4 | 1.13 | 30.7 | 81.3 | 3.8 |
| Grand Mean | 1101 | 39.7 | 4.5 | 1.16 | 31.0 | 82.6 | 4.0 |
| LSD (0.05) | 54 | 0.5 | 0.1 | 0.01 | 0.8 | 0.5 | 0.4 |

*Yield not statistically different than the top-yielding variety.

Table 4. Yield and fiber quality data pooled over six Delta locations.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1424* | 40.0 | 4.5 | 1.24 | 30.8 | 83.1 | 4.3 |
| NG 3729 B2XF | 1302 | 38.0 | 4.7 | 1.22 | 30.8 | 83.9 | 4.3 |
| DP 1845 B3XF | 1278 | 39.9 | 4.2 | 1.27 | 32.2 | 83.6 | 4.8 |
| PHY 320 W3FE | 1259 | 36.7 | 4.3 | 1.19 | 33.1 | 83.8 | 4.5 |
| PHY 430 W3FE | 1257 | 39.4 | 4.4 | 1.14 | 32.1 | 83.3 | 4.0 |
| ST 5471GLTP | 1215 | 37.6 | 4.4 | 1.15 | 32.3 | 82.0 | 3.8 |
| DP 1835 B3XF | 1199 | 40.9 | 4.6 | 1.19 | 31.9 | 82.6 | 4.0 |
| DG 3526 B2XF | 1187 | 39.4 | 4.7 | 1.13 | 29.6 | 82.8 | 3.3 |
| PHY 480 W3FE | 1162 | 38.1 | 4.4 | 1.18 | 31.2 | 83.9 | 3.8 |
| ST 5122GLT | 1104 | 37.0 | 4.4 | 1.15 | 31.5 | 81.7 | 3.7 |
| Grand Mean | 1239 | 38.7 | 4.4 | 1.18 | 31.5 | 83.1 | 4.1 |
| LSD (0.05) | 97 | 0.6 | 0.2 | 0.02 | 0.9 | 0.8 | 0.7 |

*Yield not statistically different than the top-yielding variety.

Delta locations included Glendora, Greenwood (two locations), Louise, Mayersville, and Mattson.

Table 5. Yield and fiber quality data pooled over 12 Hill Region locations.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1042* | 41.3 | 4.6 | 1.19 | 30.0 | 81.9 | 3.8 |
| DG 3526 B2XF | 1024* | 41.7 | 4.8 | 1.11 | 28.7 | 82.6 | 3.5 |
| ST 5471GLTP | 1000* | 39.2 | 4.4 | 1.13 | 30.7 | 81.5 | 3.9 |
| DP 1845 B3XF | 986* | 41.2 | 4.3 | 1.23 | 32.0 | 82.8 | 4.6 |
| NG 3729 B2XF | 978 | 39.9 | 4.8 | 1.17 | 30.9 | 82.8 | 4.0 |
| PHY 430 W3FE | 975 | 41.1 | 4.6 | 1.11 | 31.1 | 82.6 | 3.9 |
| DP 1835 B3XF | 968 | 42.3 | 4.7 | 1.14 | 29.8 | 81.6 | 3.9 |
| ST 5122GLT | 941 | 38.7 | 4.4 | 1.12 | 30.1 | 81.0 | 3.8 |
| PHY 320 W3FE | 938 | 38.5 | 4.4 | 1.13 | 31.5 | 83.2 | 4.0 |
| PHY 480 W3FE | 931 | 39.8 | 4.6 | 1.13 | 30.8 | 83.0 | 4.0 |
| Grand Mean | 978 | 40.4 | 4.6 | 1.15 | 30.6 | 82.3 | 4.0 |
| LSD (0.05) | 62 | 0.6 | 0.1 | 0.02 | 1.1 | 0.6 | 0.5 |

*Yield not statistically different than the top-yielding variety.

Hill Region locations included Ashland, Brooksville, Bruce, Calhoun City, Coffeeville, Crawford, Edwards, Ellistown, Eupora, Mississippi State, Natchez, and West Point.

Table 6. Yield and fiber quality data pooled over seven irrigated locations.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1534* | 41.0 | 4.6 | 1.24 | 30.9 | 83.1 | 4.2 |
| NG 3729 B2XF | 1403 | 38.8 | 4.8 | 1.21 | 31.1 | 83.7 | 4.1 |
| DP 1845 B3XF | 1373 | 40.9 | 4.3 | 1.26 | 32.1 | 83.4 | 4.7 |
| PHY 430 W3FE | 1371 | 40.3 | 4.5 | 1.14 | 32.3 | 83.3 | 4.0 |
| PHY 320 W3FE | 1365 | 37.7 | 4.4 | 1.18 | 33.1 | 83.7 | 4.2 |
| ST 5471GLTP | 1334 | 38.6 | 4.5 | 1.15 | 32.4 | 82.1 | 3.7 |
| DP 1835 B3XF | 1313 | 41.8 | 4.6 | 1.18 | 32.0 | 82.6 | 4.0 |
| PHY 480 W3FE | 1294 | 39.0 | 4.5 | 1.18 | 31.3 | 83.8 | 3.7 |
| DG 3526 B2XF | 1290 | 40.3 | 4.7 | 1.13 | 29.9 | 83.0 | 3.2 |
| ST 5122GLT | 1244 | 38.1 | 4.4 | 1.15 | 31.7 | 81.7 | 3.5 |
| Grand Mean | 1352 | 39.7 | 4.5 | 1.18 | 31.7 | 83.0 | 3.9 |
| LSD (0.05) | 88 | 0.5 | 0.2 | 0.02 | 0.9 | 0.7 | 0.6 |

*Yield not statistically different than the top-yielding variety.

Irrigated locations included Crawford, Glendora, Greenwood (two locations), Louise, Mayersville, and Mattson.

Table 7. Yield and fiber quality data pooled over 11 dryland locations.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DG 3526 B2XF | 991* | 41.8 | 4.8 | 1.11 | 28.4 | 82.5 | 3.6 |
| DP 1646 B2XF | 986* | 41.2 | 4.6 | 1.18 | 29.9 | 81.9 | 3.8 |
| ST 5471GLTP | 953* | 39.1 | 4.4 | 1.13 | 30.5 | 81.3 | 4.0 |
| DP 1845 B3XF | 948* | 41.1 | 4.3 | 1.23 | 32.1 | 82.8 | 4.7 |
| NG 3729 B2XF | 933* | 39.9 | 4.8 | 1.16 | 30.7 | 82.8 | 4.1 |
| PHY 430 W3FE | 926 | 41.0 | 4.6 | 1.10 | 30.9 | 82.4 | 3.9 |
| DP 1835 B3XF | 923 | 42.3 | 4.7 | 1.14 | 29.5 | 81.5 | 3.9 |
| PHY 320 W3FE | 890 | 38.5 | 4.4 | 1.13 | 31.4 | 83.2 | 4.1 |
| ST 5122GLT | 886 | 38.6 | 4.4 | 1.12 | 29.8 | 80.9 | 3.9 |
| PHY 480 W3FE | 874 | 39.8 | 4.6 | 1.13 | 30.7 | 83.0 | 4.1 |
| Grand Mean | 931 | 40.3 | 4.6 | 1.14 | 30.4 | 82.2 | 4.0 |
| LSD (0.05) | 65 | 0.7 | 0.1 | 0.02 | 1.2 | 0.7 | 0.5 |

*Yield not statistically different than the top-yielding variety.

Dryland locations included Ashland, Brooksville, Bruce, Calhoun City, Coffeetown, Edwards, Ellistown, Eupora, Mississippi State, Natchez, and West Point.

Individual Trial Location Data

Location: Ashland
 Grower: Heath Byrd
 MSU Agronomist: M. Pruitt

Row width: 38"
 Irrigated: Dryland
 Planting date: May 11, 2018

Harvest date: October 23, 2018
 Soil series: Cascilla Silt Loam

Table 8. Yield and fiber quality data at Ashland.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| PHY 430 W3FE | 891 | 42.3 | 4.1 | 1.08 | 29.1 | 82.6 | 4 |
| ST 5122GLT | 848 | 39.6 | 4.0 | 1.16 | 30.6 | 81.2 | 5 |
| ST 5471GLTP | 842 | 42.4 | 3.8 | 1.15 | 30.1 | 81.6 | 5 |
| NG 3729 B2XF | 830 | 39.0 | 4.2 | 1.19 | 29.5 | 83.6 | 5 |
| DP 1646 B2XF | 817 | 39.9 | 4.2 | 1.20 | 31.0 | 82.4 | 4 |
| DP 1835 B3XF | 812 | 42.5 | 4.2 | 1.15 | 28.5 | 80.7 | 4 |
| PHY 480 W3FE | 804 | 40.0 | 4.2 | 1.13 | 30.4 | 83.9 | 4 |
| DG 3526 B2XF | 756 | 41.8 | 4.3 | 1.14 | 28.5 | 83.7 | 2 |
| DP 1845 B3XF | 745 | 40.8 | 3.8 | 1.26 | 31.8 | 83.6 | 5 |
| PHY 320 W3FE | 637 | 38.0 | 3.8 | 1.12 | 29.6 | 83.3 | 5 |
| Grand Mean | 798 | 40.6 | 4.1 | 1.16 | 29.9 | 82.7 | 4.3 |

*No statistical analysis performed as only one replication was planted.

Location: Brooksville
 Grower: Darrin Dodds
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 25, 2018

Harvest date: October 30, 2018
 Soil series: Brooksville Silty Clay

Table 9. Yield and fiber quality data at Brooksville.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DG 3526 B2XF | 1241* | 42.3 | 4.9 | 1.09 | 26.6 | 82.5 | 4 |
| DP 1646 B2XF | 1222* | 41.1 | 4.4 | 1.23 | 31.5 | 81.5 | 3 |
| DP 1835 B3XF | 1219* | 41.3 | 4.7 | 1.15 | 32.3 | 81.0 | 3 |
| ST 5471GLTP | 1151* | 38.8 | 4.4 | 1.17 | 33.0 | 83.1 | 4 |
| NG 3729 B2XF | 1105* | 42.2 | 4.7 | 1.17 | 32.0 | 81.5 | 4 |
| PHY 480 W3FE | 1044 | 38.4 | 4.2 | 1.12 | 29.1 | 82.4 | 4 |
| DP 1845 B3XF | 1037 | 40.1 | 4.0 | 1.25 | 33.4 | 82.2 | 4 |
| PHY 430 W3FE | 1015 | 41.6 | 4.4 | 1.14 | 31.7 | 82.5 | 4 |
| PHY 320 W3FE | 963 | 39.0 | 4.2 | 1.13 | 31.6 | 82.2 | 4 |
| ST 5122GLT | 913 | 38.3 | 4.4 | 1.10 | 28.4 | 80.3 | 4 |
| Grand Mean | 1091 | 40.3 | 4.4 | 1.16 | 31.0 | 81.9 | 3.8 |
| LSD (0.05) | 171 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Bruce
 Grower: Trey Brower
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 15, 2018

Harvest date: October 29, 2018
 Soil series: Collins/Falaya Silt Loam

Table 10. Yield and fiber quality data at Bruce.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| PHY 320 W3FE | 791 | 38.2 | 4.5 | 1.09 | 33.3 | 81.2 | 5 |
| DP 1835 B3XF | 728 | 42.6 | 4.3 | 1.21 | 34.6 | 83.0 | 6 |
| PHY 430 W3FE | 728 | 39.3 | 4.5 | 1.12 | 29.4 | 82.1 | 6 |
| ST 5471GLTP | 670 | 36.6 | 4.7 | 1.16 | 30.7 | 81.4 | 5 |
| ST 5122GLT | 662 | 36.1 | 4.3 | 1.10 | 32.9 | 81.0 | 5 |
| PHY 480 W3FE | 627 | 38.7 | 4.5 | 1.10 | 29.2 | 80.1 | 4 |
| NG 3729 B2XF | 576 | 38.6 | 4.4 | 1.13 | 34.1 | 84.0 | 5 |
| DP 1646 B2XF | 561 | 39.9 | 4.7 | 1.12 | 28.7 | 81.7 | 4 |
| DG 3526 B2XF | 552 | 39.3 | 4.7 | 1.15 | 30.9 | 81.8 | 5 |
| DP 1845 B3XF | 425 | 39.1 | 5.1 | 1.14 | 32.5 | 82.1 | 5 |
| Grand Mean | 632 | 38.8 | 4.6 | 1.13 | 31.6 | 81.8 | 5 |
| LSD (0.05) | NS | • | • | • | • | • | • |

Location: Calhoun City
 Grower: Seth Davis
 MSU Agronomist: B. Burdine

Row width: 38"
 Irrigated: Dryland
 Planting date: May 3, 2018

Harvest date: October 2, 2018
 Soil series: Collins/Falaya/ Hatchie Silt Loam

Table 11. Yield and fiber quality data at Calhoun City.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1407* | 43.1 | 5.0 | 1.14 | 29.1 | 83.8 | 4 |
| DG 3526 B2XF | 1335* | 42.4 | 4.9 | 1.12 | 28.8 | 83.2 | 4 |
| NG 3729 B2XF | 1295* | 39.2 | 4.8 | 1.18 | 31.7 | 83.3 | 3 |
| DP 1845 B3XF | 1265* | 42.3 | 4.4 | 1.23 | 31.5 | 84.7 | 5 |
| ST 5471GLTP | 1260* | 39.3 | 4.8 | 1.13 | 30.8 | 81.5 | 4 |
| PHY 430 W3FE | 1259* | 41.4 | 5.0 | 1.12 | 32.7 | 84.6 | 4 |
| PHY 320 W3FE | 1252* | 38.5 | 4.8 | 1.14 | 33.7 | 83.4 | 3 |
| DP 1835 B3XF | 1164 | 41.2 | 4.8 | 1.17 | 31.4 | 83.1 | 5 |
| PHY 480 W3FE | 1156 | 39.7 | 4.8 | 1.14 | 33.4 | 83.0 | 4 |
| ST 5122GLT | 1072 | 38.7 | 4.6 | 1.13 | 31.4 | 82.2 | 4 |
| Grand Mean | 1246 | 40.6 | 4.8 | 1.15 | 31.5 | 83.3 | 4 |
| LSD (0.05) | 161 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Coffeerville
 Grower: Coley Bailey
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 14, 2018

Harvest date: November 21, 2018
 Soil series: Collins Silt Loam

Table 12. Yield and fiber quality data at Coffeerville.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1403* | 41.0 | | | | | |
| DP 1835 B3XF | 1304* | 41.2 | | | | | |
| DG 3526 B2XF | 1284* | 40.7 | | | | | |
| PHY 430 W3FE | 1231* | 43.4 | | | | | |
| DP 1845 B3XF | 1228* | 40.3 | | | | | |
| ST 5471GLTP | 1178 | 40.7 | | | | | |
| ST 5122GLT | 1109 | 38.3 | | | | | |
| PHY 480 W3FE | 1079 | 39.5 | | | | | |
| NG 3729 B2XF | 1066 | 37.8 | | | | | |
| PHY 320 W3FE | 971 | 35.5 | | | | | |
| Grand Mean | 1185 | 39.8 | | | | | |
| LSD (0.05) | 178 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

**No fiber quality data available—samples were lost at USDA Classing Office, Memphis, TN.

Location: Crawford
 Grower: Rodney Mast/Lowell Mullett
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Pivot
 Planting date: May 7, 2018

Harvest date: October 2, 2018
 Soil series: Vaiden Silty Clay

Table 13. Yield and fiber quality data at Crawford.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1661* | 42.1 | 4.8 | 1.24 | 31.5 | 82.9 | 4 |
| PHY 480 W3FE | 1566* | 40.0 | 4.8 | 1.16 | 32.2 | 83.3 | 3 |
| ST 5122GLT | 1558* | 40.3 | 4.6 | 1.16 | 33.0 | 82.1 | 3 |
| PHY 430 W3FE | 1520 | 41.4 | 4.8 | 1.14 | 33.6 | 83.9 | 4 |
| ST 5471GLTP | 1517 | 39.9 | 4.6 | 1.17 | 32.9 | 82.7 | 3 |
| NG 3729 B2XF | 1466 | 39.2 | 5.2 | 1.19 | 32.8 | 82.7 | 3 |
| PHY 320 W3FE | 1466 | 39.0 | 4.6 | 1.16 | 32.9 | 83.0 | 3 |
| DP 1835 B3XF | 1464 | 42.9 | 4.7 | 1.17 | 32.8 | 82.5 | 4 |
| DP 1845 B3XF | 1400 | 41.9 | 4.5 | 1.25 | 31.7 | 82.4 | 4 |
| DG 3526 B2XF | 1376 | 40.8 | 4.9 | 1.15 | 31.6 | 83.9 | 3 |
| Grand Mean | 1499 | 40.8 | 4.8 | 1.18 | 32.5 | 82.9 | 3.4 |
| LSD (0.05) | 121 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Edwards
 Grower: Kendall Garraway
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 9, 2018

Harvest date: October 11, 2018
 Soil series: Reidtown Silt Loam

Table 14. Yield and fiber quality data at Edwards.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1187* | 39.6 | 4.6 | 1.22 | 29.4 | 82.7 | 4 |
| DG 3526 B2XF | 1170* | 39.7 | 4.7 | 1.13 | 29.7 | 82.0 | 3 |
| NG 3729 B2XF | 1137* | 37.9 | 5.0 | 1.22 | 31.7 | 84.1 | 3 |
| DP 1845 B3XF | 1136* | 40.5 | 4.2 | 1.27 | 32.2 | 82.9 | 3 |
| DP 1835 B3XF | 1099* | 43.1 | 4.8 | 1.18 | 32.1 | 81.7 | 3 |
| PHY 320 W3FE | 1089* | 37.8 | 4.1 | 1.18 | 34.5 | 85.3 | 4 |
| PHY 430 W3FE | 976 | 41.5 | 4.7 | 1.15 | 31.5 | 82.6 | 3 |
| ST 5471GLTP | 925 | 37.5 | 4.7 | 1.14 | 32.2 | 81.8 | 3 |
| PHY 480 W3FE | 904 | 38.6 | 4.6 | 1.18 | 32.0 | 84.6 | 3 |
| ST 5122GLT | 866 | 36.6 | 4.2 | 1.14 | 30.6 | 81.5 | 3 |
| Grand Mean | 1049 | 39.3 | 4.6 | 1.18 | 31.6 | 82.9 | 3.2 |
| LSD (0.05) | 107 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Ellistown
 Grower: Larry Coker
 MSU Agronomist: C. Stokes

Row width: 38"
 Irrigated: Dryland
 Planting date: May 8, 2018

Harvest date: October 8, 2018
 Soil series: Mantachie/Talla Silt Loam

Table 15. Yield and fiber quality data at Ellistown.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| NG 3729 B2XF | 999 | 39.4 | 4.9 | 1.15 | 31.5 | 83.3 | 4 |
| DP 1646 B2XF | 939 | 41.2 | 5.0 | 1.17 | 30.6 | 81.8 | 4 |
| PHY 320 W3FE | 871 | 37.9 | 4.8 | 1.11 | 32.0 | 82.5 | 4 |
| PHY 480 W3FE | 869 | 39.9 | 5.1 | 1.13 | 29.9 | 82.6 | 4 |
| PHY 430 W3FE | 868 | 40.1 | 4.9 | 1.09 | 31.6 | 82.9 | 4 |
| ST 5471GLTP | 843 | 38.0 | 4.8 | 1.12 | 27.9 | 81.5 | 4 |
| DP 1845 B3XF | 839 | 41.4 | 4.7 | 1.23 | 34.1 | 82.8 | 5 |
| DG 3526 B2XF | 833 | 41.1 | 5.4 | 1.08 | 28.8 | 82.5 | 3 |
| ST 5122GLT | 821 | 36.7 | 4.7 | 1.10 | 29.1 | 80.4 | 4 |
| DP 1835 B3XF | 804 | 42.7 | 5.0 | 1.13 | 29.6 | 81.7 | 3 |
| Grand Mean | 869 | 39.8 | 4.9 | 1.13 | 30.5 | 82.2 | 3.9 |
| LSD (0.05) | NS | • | • | • | • | • | • |

Location: Eupora
 Grower: Matt Knight
 MSU Agronomist: D. Reginelli

Row width: 38"
 Irrigated: Dryland
 Planting date: May 11, 2018

Harvest date: November 20, 2018
 Soil series: Oaklimter Silt Loam

Table 16. Yield and fiber quality data at Eupora.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1845 B3XF | 1253* | 42.2 | 4.6 | 1.20 | 30.6 | 82.3 | 3 |
| DG 3526 B2XF | 1191 | 44.5 | 4.9 | 1.08 | 27.2 | 83.1 | 3 |
| ST 5122GLT | 1080 | 40.2 | 4.2 | 1.12 | 27.9 | 80.1 | 3 |
| PHY 480 W3FE | 1042 | 39.9 | 4.5 | 1.11 | 29.1 | 82.9 | 3 |
| NG 3729 B2XF | 1025 | 39.5 | 4.8 | 1.17 | 28.5 | 82.5 | 3 |
| ST 5471GLTP | 1018 | 38.4 | 4.3 | 1.12 | 28.1 | 81.1 | 3 |
| PHY 320 W3FE | 1012 | 38.7 | 4.1 | 1.11 | 29.1 | 83.5 | 3 |
| DP 1835 B3XF | 998 | 43.3 | 4.6 | 1.14 | 29.0 | 82.6 | 3 |
| PHY 430 W3FE | 961 | 42.2 | 4.7 | 1.06 | 29.4 | 82.1 | 3 |
| DP 1646 B2XF | 865 | 41.4 | 4.5 | 1.18 | 28.7 | 81.3 | 3 |
| Grand Mean | 1044 | 41.0 | 4.5 | 1.13 | 28.8 | 82.2 | 3 |
| LSD (0.05) | 32 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Glendora
 Grower: Mike Sturdivant Jr.
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Furrow
 Planting date: May 14, 2018

Harvest date: October 24, 2018
 Soil series: Dubbs Loam/Tensas Silty Clay Loam

Table 17. Yield and fiber quality data at Glendora.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1733* | 40.3 | 4.3 | 1.24 | 30.3 | 82.7 | 4 |
| NG 3729 B2XF | 1569 | 39.4 | 4.7 | 1.26 | 30.4 | 84.3 | 5 |
| PHY 430 W3FE | 1519 | 39.2 | 4.2 | 1.15 | 33.3 | 82.7 | 4 |
| DP 1845 B3XF | 1463 | 40.0 | 4.0 | 1.28 | 33.2 | 83.4 | 5 |
| PHY 320 W3FE | 1454 | 36.6 | 4.2 | 1.23 | 33.2 | 85.2 | 5 |
| DG 3526 B2XF | 1405 | 39.3 | 4.5 | 1.16 | 29.6 | 83.1 | 5 |
| DP 1835 B3XF | 1371 | 40.2 | 4.3 | 1.24 | 33.4 | 83.5 | 4 |
| ST 5471GLTP | 1239 | 38.0 | 4.2 | 1.19 | 32.9 | 83.0 | 4 |
| PHY 480 W3FE | 1224 | 35.4 | 4.3 | 1.18 | 32.0 | 83.6 | 5 |
| ST 5122GLT | 1072 | 36.3 | 4.3 | 1.19 | 32.7 | 81.6 | 3 |
| Grand Mean | 1405 | 38.5 | 4.3 | 1.21 | 32.1 | 83.3 | 4.4 |
| LSD (0.05) | 93 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Greenwood
 Grower: John Moor
 MSU Agronomist: A. Braswell

Row width: 38"
 Irrigated: Furrow
 Planting date: May 14, 2018

Harvest date: October 24, 2018
 Soil series: Dubbs Loam/Tensas Silty Clay Loam

Table 18. Yield and fiber quality data at Greenwood.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1515* | 37.6 | 4.2 | 1.23 | 29.8 | 82.0 | 5 |
| ST 5471GLTP | 1307 | 36.7 | 4.1 | 1.16 | 31.2 | 80.8 | 3 |
| NG 3729 B2XF | 1303 | 39.5 | 4.6 | 1.20 | 31.1 | 82.8 | 4 |
| PHY 320 W3FE | 1281 | 38.5 | 3.9 | 1.18 | 32.8 | 82.5 | 4 |
| DP 1845 B3XF | 1218 | 36.3 | 3.8 | 1.26 | 31.0 | 82.4 | 5 |
| DG 3526 B2XF | 1198 | 37.6 | 4.3 | 1.13 | 30.4 | 82.6 | 3 |
| PHY 430 W3FE | 1164 | 39.8 | 3.9 | 1.14 | 31.4 | 82.3 | 4 |
| PHY 480 W3FE | 1118 | 40.1 | 4.2 | 1.17 | 30.7 | 82.5 | 3 |
| ST 5122GLT | 1072 | 40.2 | 4.1 | 1.17 | 32.0 | 81.2 | 3 |
| DP 1835 B3XF | 1004 | 39.0 | 4.1 | 1.16 | 30.8 | 81.9 | 4 |
| Grand Mean | 1218 | 38.5 | 4.1 | 1.18 | 31.1 | 82.1 | 3.8 |
| LSD (0.05) | 86 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Greenwood
 Grower: Travis Dunn
 MSU Agronomist: A. Braswell

Row width: 38"
 Irrigated: Irrigated
 Planting date: May 11, 2018

Harvest date: October 15, 2018
 Soil series: Dundee Loam/ Tensas Silty Clay Loam

Table 19. Yield and fiber quality data at Greenwood.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| NG 3729 B2XF | 1521* | 37.6 | 4.7 | 1.20 | 30.7 | 83.5 | 5 |
| PHY 320 W3FE | 1355* | 36.0 | 3.9 | 1.19 | 34.0 | 85.1 | 5 |
| ST 5122GLT | 1346* | 37.7 | 4.4 | 1.14 | 29.5 | 82.5 | 5 |
| DP 1845 B3XF | 1343* | 38.8 | 4.1 | 1.24 | 31.6 | 83.4 | 6 |
| DP 1835 B3XF | 1331* | 40.7 | 4.6 | 1.20 | 32.1 | 81.9 | 5 |
| ST 5471GLTP | 1330 | 37.2 | 4.4 | 1.15 | 31.3 | 82.8 | 5 |
| DP 1646 B2XF | 1322 | 38.6 | 4.2 | 1.24 | 31.0 | 83.5 | 5 |
| PHY 430 W3FE | 1299 | 38.1 | 4.5 | 1.14 | 31.6 | 82.8 | 4 |
| DG 3526 B2XF | 1216 | 39.1 | 4.5 | 1.11 | 30.0 | 82.8 | 3 |
| PHY 480 W3FE | 1144 | 37.1 | 4.0 | 1.19 | 31.4 | 84.9 | 4 |
| Grand Mean | 1321 | 38.1 | 4.3 | 1.18 | 31.3 | 83.3 | 4.7 |
| LSD (0.05) | 191 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Louise
 Grower: Byron Seward
 MSU Agronomist: D. Dodds

Row width: 30" 2x1 Skip
 Irrigated: Furrow
 Planting date: May 8, 2018

Harvest date: October 6, 2018
 Soil series: Forestdale-Brittain Silt Loam

Table 20. Yield and fiber quality data at Louise.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1384* | 41.2 | 4.8 | 1.21 | 32.7 | 82.9 | 4 |
| DP 1835 B3XF | 1279 | 42.7 | 5.0 | 1.18 | 31.4 | 82.9 | 4 |
| DP 1845 B3XF | 1278 | 41.4 | 4.6 | 1.28 | 33.4 | 84.5 | 4 |
| NG 3729 B2XF | 1224 | 39.4 | 4.8 | 1.17 | 30.8 | 84.4 | 4 |
| DG 3526 B2XF | 1221 | 41.1 | 4.9 | 1.13 | 29.5 | 82.5 | 3 |
| PHY 480 W3FE | 1179 | 39.9 | 4.7 | 1.18 | 33.3 | 84.2 | 4 |
| PHY 430 W3FE | 1135 | 40.1 | 4.7 | 1.15 | 33.3 | 83.2 | 3 |
| PHY 320 W3FE | 1089 | 37.9 | 4.9 | 1.18 | 33.9 | 83.8 | 4 |
| ST 5471GLTP | 1062 | 38.0 | 4.5 | 1.14 | 33.6 | 82.8 | 4 |
| ST 5122GLT | 900 | 36.7 | 4.4 | 1.15 | 33.3 | 81.7 | 4 |
| Grand Mean | 1175 | 39.8 | 4.7 | 1.18 | 32.5 | 83.3 | 3.8 |
| LSD (0.05) | 96 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Mayersville
 Grower: Chase Mahalitic
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Furrow
 Planting date: May 15, 2018

Harvest date: December 8, 2018
 Soil series: Commerce Silty Clay Loam/Tunica Clay

Table 21. Yield and fiber quality data at Mayersville.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|---------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1646 B2XF | 1306* | 40.0 | 4.7 | 1.23 | 29.9 | 83.4 | 3 |
| PHY 430 W3FE | 1266* | 40.8 | 4.8 | 1.11 | 30.4 | 83.3 | 3 |
| PHY 480 W3FE | 1265* | 39.1 | 4.6 | 1.15 | 28.5 | 83.2 | 3 |
| DP 1845 B3XF | 1214* | 40.3 | 4.4 | 1.25 | 30.4 | 82.3 | 4 |
| ST 5122GLT | 1156 | 37.1 | 4.4 | 1.11 | 29.5 | 80.9 | 3 |
| DP 1835 B3XF | 1142 | 40.9 | 4.6 | 1.16 | 30.0 | 82.5 | 3 |
| ST 5471GLTP | 1133 | 37.1 | 4.5 | 1.11 | 30.4 | 81.1 | 3 |
| NG 3729 B2XF | 1125 | 38.0 | 5.0 | 1.17 | 29.5 | 83.0 | 3 |
| PHY 320 W3FE | 1094 | 36.4 | 4.3 | 1.14 | 31.2 | 82.4 | 4 |
| DG 3526 B2XF | 1027 | 38.9 | 4.8 | 1.10 | 27.9 | 81.8 | 3 |
| Grand Mean | 1173 | 38.9 | 4.6 | 1.15 | 29.8 | 82.4 | 3.2 |
| LSD (0.05) | 97 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Mattson
 Grower: B. Flowers
 MSU Agronomist: D. Dodds

Row width: 40"
 Irrigated: Furrow
 Planting date: May 14, 2018

Harvest date: October 3, 2018
 Soil series: Dundee Silt Loam/Very Fine Sandy Loam

Table 22. Yield and fiber quality data at Mattson.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| PHY 320 W3FE | 1260 | 37.3 | 4.6 | 1.20 | 33.7 | 83.8 | 5 |
| DP 1646 B2XF | 1225 | 39.6 | 4.7 | 1.26 | 31.2 | 84.0 | 5 |
| PHY 430 W3FE | 1194 | 40.0 | 4.5 | 1.16 | 32.5 | 85.2 | 6 |
| DP 1845 B3XF | 1171 | 39.3 | 4.2 | 1.28 | 33.5 | 85.3 | 5 |
| ST 5471GLTP | 1163 | 37.6 | 4.7 | 1.14 | 34.3 | 81.3 | 4 |
| DP 1835 B3XF | 1158 | 41.1 | 4.8 | 1.17 | 33.6 | 82.8 | 4 |
| ST 5122GLT | 1087 | 37.8 | 4.6 | 1.13 | 31.9 | 82.2 | 4 |
| NG 3729 B2XF | 1062 | 36.1 | 4.2 | 1.29 | 32.1 | 85.3 | 5 |
| PHY 480 W3FE | 1052 | 36.6 | 4.5 | 1.20 | 31.2 | 85.1 | 4 |
| DG 3526 B2XF | 986 | 39.5 | 4.9 | 1.15 | 30.1 | 84.2 | 3 |
| Grand Mean | 1136 | 38.5 | 4.6 | 1.20 | 32.4 | 83.9 | 4.5 |
| LSD (0.05) | NS | • | • | • | • | • | • |

Location: Mississippi State
 Grower: Darrin Dodds
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 2, 2018

Harvest date: October 24, 2018
 Soil series: Catalpa/Leeper Silty Clay Loam

Table 23. Yield and fiber quality data at Mississippi State.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| ST 5471GLTP | 828* | 40.4 | 3.8 | 1.12 | 30.0 | 79.6 | 4 |
| ST 5122GLT | 727* | 39.6 | 4.3 | 1.12 | 29.5 | 80.0 | 4 |
| DP 1845 B3XF | 669 | 40.9 | 4.1 | 1.22 | 30.8 | 82.2 | 5 |
| DG 3526 B2XF | 659 | 42.9 | 4.8 | 1.11 | 27.0 | 81.5 | 3 |
| NG 3729 B2XF | 654 | 40.8 | 4.5 | 1.12 | 29.3 | 81.6 | 4 |
| DP 1646 B2XF | 641 | 42.7 | 4.2 | 1.18 | 28.5 | 81.0 | 3 |
| PHY 430 W3FE | 635 | 39.4 | 4.1 | 1.13 | 28.6 | 81.9 | 4 |
| PHY 320 W3FE | 618 | 40.3 | 4.7 | 1.17 | 28.7 | 81.4 | 4 |
| PHY 480 W3FE | 550 | 42.5 | 4.4 | 1.11 | 29.7 | 81.3 | 4 |
| DP 1835 B3XF | 435 | 43.4 | 4.5 | 1.10 | 26.5 | 80.1 | 4 |
| Grand Mean | 642 | 41.3 | 4.3 | 1.14 | 28.9 | 81.1 | 3.9 |
| LSD (0.05) | 104 | • | • | • | • | • | • |

*Yield not statistically different than the top-yielding variety.

Location: Natchez
 Grower: Matthew Guedon
 MSU Agronomist: D. Dodds

Row width: 38"
 Irrigated: Dryland
 Planting date: May 2, 2018

Harvest date: October 3, 2018
 Soil series: Convent Silt Loam

Table 24. Yield and fiber quality data at Natchez.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| DP 1845 B3XF | 1001 | 41.5 | 4.4 | 1.26 | 31.1 | 83.3 | 5 |
| DP 1646 B2XF | 956 | 41.0 | 4.6 | 1.19 | 29.6 | 81.0 | 4 |
| DG 3526 B2XF | 931 | 41.5 | 4.8 | 1.11 | 27.4 | 82.7 | 4 |
| ST 5122GLT | 834 | 38.7 | 4.6 | 1.12 | 30.6 | 81.7 | 4 |
| PHY 430 W3FE | 813 | 40.6 | 4.6 | 1.15 | 33.3 | 84.0 | 4 |
| DP 1835 B3XF | 812 | 38.8 | 4.8 | 1.17 | 30.5 | 82.1 | 5 |
| ST 5471GLTP | 776 | 37.9 | 4.5 | 1.13 | 30.4 | 81.8 | 4 |
| NG 3729 B2XF | 769 | 41.5 | 4.9 | 1.18 | 30.0 | 82.2 | 5 |
| PHY 480 W3FE | 694 | 38.4 | 4.5 | 1.18 | 32.2 | 83.9 | 4 |
| Grand Mean | 843 | 40.7 | 4.6 | 1.17 | 30.9 | 82.5 | 4.4 |
| LSD (0.05) | NS | • | • | • | • | • | • |

Location: West Point
 Grower: Ben Harlow
 MSU Agronomist: C. Stokes

Row width: 30"
 Irrigated: Dryland
 Planting date: May 25, 2018

Harvest date: October 29, 2018
 Soil series: Houston Clay

Table 25. Yield and fiber quality data at West Point.

| Variety | Lint Yield (lb/acre) | Lint Percent | Mic | Staple (in) | Strength (g/tex) | Uniformity (%) | Leaf |
|-------------------|----------------------|--------------|-----|-------------|------------------|----------------|------|
| ST 5471GLTP | 903 | 42.0 | 4.8 | 1.08 | 29.3 | 80.4 | 4 |
| PHY 430 W3FE | 893 | 41.8 | 4.8 | 1.03 | 27.8 | 80.0 | 4 |
| PHY 480 W3FE | 886 | 42.4 | 4.9 | 1.08 | 31.4 | 82.9 | 5 |
| DG 3526 B2XF | 870 | 41.2 | 5.0 | 1.09 | 29.3 | 81.8 | 5 |
| ST 5122GLT | 854 | 40.1 | 4.6 | 1.10 | 30.6 | 81.8 | 4 |
| DP 1835 B3XF | 818 | 41.4 | 4.9 | 1.09 | 26.8 | 80.4 | 5 |
| DP 1845 B3XF | 817 | 44.2 | 4.7 | 1.13 | 30.7 | 80.9 | 6 |
| DP 1646 B2XF | 812 | 45.0 | 5.0 | 1.16 | 29.9 | 81.6 | 4 |
| NG 3729 B2XF | 811 | 41.3 | 5.0 | 1.12 | 30.3 | 84.0 | 5 |
| PHY 320 W3FE | 784 | 43.5 | 4.7 | 1.08 | 28.9 | 82.8 | 5 |
| Grand Mean | 845 | 42.3 | 4.8 | 1.10 | 29.5 | 81.7 | 4.7 |
| LSD (0.05) | NS | • | • | • | • | • | • |

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