**The Georgia Agricultural Experiment Stations**
**Department of Crop and Soil Sciences**
**College of Agricultural and Environmental Sciences**
**University of Georgia Griffin Campus**

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# GEORGIA
## 2017 Peanut, Cotton, and Tobacco Performance Tests

Daniel Mailhot, J. LaDon Day, Dustin D. Dunn,
Henry Jordan Jr., and Stevan S. LaHue, *Editors*

## Conversion Table

| U.S. Abbr. | Unit | Approximate Metric Equivalent |
|---|---|---|
| | **Length** | |
| mi | mile | 1.609 kilometers |
| yd | yard | 0.9144 meters |
| ft *or* ' | foot | 30.48 centimeters |
| in *or* " | inch | 2.54 centimeters |
| | **Area** | |
| sq mi *or* $mi^2$ | square mile | 2.59 square kilometers |
| acre | acre | 0.405 hectares *or* 4047 square meters |
| sq ft *or* $ft^2$ | square foot | 0.093 square meters |
| | **Volume/Capacity** | |
| gal | gallon | 3.785 liters |
| qt | quart | 0.946 liters |
| pt | pint | 0.473 liters |
| fl oz | fluid ounce | 29.573 milliliters or 28.416 cubic centimeters |
| bu | bushel | 35.238 liters |
| cu ft *or* $ft^3$ | cubic foot | 0.028 cubic meters |
| | **Mass/Weight** | |
| ton | ton | 0.907 metric ton |
| lb | pound | 0.453 kilogram |
| oz | ounce | 28.349 grams |

| Metric Abbr. | Unit | Approximate U.S. Equivalent |
|---|---|---|
| | **Length** | |
| km | kilometer | 0.62 mile |
| m | meter | 39.37 inches *or* 1.09 yards |
| cm | centimeter | 0.39 inch |
| mm | millimeter | 0.04 inch |
| | **Area** | |
| ha | hectare | 2.47 acres |
| | **Volume/Capacity** | |
| liter | liter | 61.02 cubic inches *or* 1.057 quarts |
| ml | milliliter | 0.06 cubic inch *or* 0.034 fluid ounce |
| cc | cubic centimeter | 0.061 cubic inch *or* 0.035 fluid ounce |
| | **Mass/Weight** | |
| MT | metric ton | 1.1 tons |
| kg | kilogram | 2.205 pounds |
| g | gram | 0.035 ounce |
| mg | milligram | $3.5 \times 10^{-5}$ ounce |



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# PREFACE

This research report presents the results of the 2017 statewide performance tests of peanut, cotton, and tobacco. The tests for various evaluations were conducted at several or all of the following locations: Bainbridge, Tifton, Plains and Midville in the Coastal Plain region, and Athens in the Piedmont region. For identification of the test site locations, consult the map on the inside of the back cover.

Agronomic information such as grade, fiber data, plant height, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes. During 2017, HVI (High Volume Instrument) cotton fiber samples were sent to Macon, Georgia, for analysis.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the trials, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose and agreed upon by College of Agricultural and Environmental Sciences agronomists are presented in the 2018 Spring Planting Schedule for Georgia (available from your county Extension office). Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by University of Georgia Agricultural Experiment Stations. For additional information, contact your local county Extension agent or the nearest experiment station.

The least significant difference (LSD) at the 10% level has been included in the tables to aid in comparing varieties. If the yields' difference of any two varieties exceeds the LSD value, they can be considered different in yield ability.

This report is one of four publications presenting the 2017 performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2017 Corn Performance Tests (Annual Publication 101-9), 2016-2017 Small Grains Performance Tests (Annual Publication 100-9), and 2017 Soybean, Sorghum Grain and Silage, and Summer Annual Forage Performance Tests (Annual Publication 103-9),

This report, along with performance test information on other agronomic crops, is also available online at **www.swvt.uga.edu**. Additional information may be obtained by writing to Daniel Mailhot, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment St., Griffin, GA 30223-1797.

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# 2017 PEANUT, COTTON, AND TOBACCO PERFORMANCE TESTS

*Daniel J. Mailhot, Dustin G. Dunn, Henry Jordan Jr.,*
*Stevan S. LaHue, and J. LaDon Day, Editors*

## The Season

The 2017 planting season began with warmer-than-usual temperatures. Rainfall contributed to planting delays in the northern portion of the state, while drier-than-average conditions had the same effect on non-irrigated fields in south Georgia. Warmer-than-average temperatures extended into May, but rainfall was adequate in most locations. June was cooler than average due to much cloud cover and the weather remained moist. In July, warmer and drier weather returned, but August and September were near normal.

Rainfall amounts recorded monthly at the five test locations in Georgia during the 2017 growing season are presented in the following table. Midville was the only location where above normal precipitation occurred, 24% more than the long term average. A long term average rainfall for the Athens location has not been determined.

**2017 Rainfall[1]**

| Month | Athens[2] | Attapulgus[3] | Midville | Plains | Tifton |
|---|---|---|---|---|---|
| | ---------- | ---------- | inches | ---------- | ---------- |
| March | 2.45 | 1.37 | 1.37 | 1.44 | 1.49 |
| April | 5.97 | 1.82 | 4.21 | 4.68 | 3.80 |
| May | 5.34 | 3.72 | 4.35 | 6.26 | 2.65 |
| June | 9.10 | 10.56 | 7.90 | 8.02 | 5.11 |
| July | 3.80 | 4.20 | 5.42 | 4.57 | 4.87 |
| August | 6.20 | 4.27 | 4.15 | 3.14 | 4.47 |
| September | 4.15 | 4.26 | 6.48 | 5.30 | 3.72 |
| October | 3.98 | 2.50 | 1.85 | 2.82 | 2.10 |
| November | 1.57 | 0.43 | 1.46 | 0.89 | 0.68 |
| Total | 42.56 | 33.13 | 37.19 | 37.12 | 28.89 |
| Normal (9 mo)* | NA | 44.13 | 30.11 | 39.96 | 33.83 |

1. Data provided in part by Dr. I. Flitcroft, UGA Griffin campus, Griffin, GA.
2. Iron Horse Plant Sciences Farm; long term data is not available for this site.
3. Attapulgus Research Center is the nearest location to the Bainbridge site.

* Based on average March to November (9 months) 1981-2001.

Crop maturity progressed at the five-year average, and harvest conditions were not slowed in 2017 due to wet weather. Peanut producers planted 835,000 acres, a 16% increase from 2016 and the most planted since 1950. Cotton producers seeded 1.28 million acres in Georgia, an 8% increase over last year. Tobacco producers in the state harvested 12,500 acres in 2017, 8% less than last year.

Daniel J. Mailhot, PhD is the program director of the statewide variety testing program, J. LaDon Day is a research scientist, and Henry Jordan Jr. is a research professional III in the Department of Crop and Soil Sciences, Griffin campus, Griffin, Georgia 30223-1797. Dustin G. Dunn and Stevan S. LaHue are a research professional III and an agricultural specialist, respectively, in the Department of Crop and Soil Sciences, Tifton campus, Tifton, Georgia 31793-5766.

The Georgia state peanut yield in 2017 was 4,380 pounds per acre, a 12% increase in yield from 2016. During 2017, Georgia peanut producers brought 3.613 billion pounds of peanuts to market, an increase of 31% from 2016. This peanut production was a record for Georgia producers going back to 1909. Cotton yielded 850 pounds per acre this year, a 5% decrease from last year, and a total production of 2.25 million bales, 3% more than the previous year, due mainly to the increase in planted acres. Georgia tobacco production on a per-acre basis was 2,100 pounds, same as 2016. Total production was 26.25 million pounds, 2.10 million pounds less (7.4%) than last year.

# PEANUT

## Tifton, Georgia:
## Yield and Grade Performance
## Peanut Variety Trial, 2017, Irrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Spanish Types** | | | | | | | |
| Georgia Browne | 09/26 | **5125** | 73.5 | 5.0 | 0.0 | . | 1019 |
| Tamspan 90 | 09/15 | **5041** | 69.0 | 3.5 | 0.0 | . | 961 |
| Georgia-04S | 09/26 | **4995** | 73.0 | 5.0 | 0.0 | . | 1205 |
| Tamnut OL06 | 09/15 | **4839** | 71.5 | 1.5 | 0.5 | . | 774 |
| Shubert | 09/15 | **4677** | 67.5 | 4.0 | 0.0 | . | 941 |
| | | | | | | | |
| Georgia-17SP | 09/26 | **4613** | 75.0 | 4.0 | 0.0 | . | 865 |
| OLin | 09/15 | 4086 | 70.0 | 3.0 | 0.0 | . | 941 |
| Ole' | 09/05 | 3686 | 68.0 | 3.0 | 0.0 | . | 909 |
| Spanco | 09/05 | 3620 | 70.5 | 4.0 | 0.0 | . | 952 |
| Pronto | 09/05 | 3218 | 71.0 | 3.5 | 0.0 | . | 927 |
| | | | | | | | |
| Average | 09/15 | 4390 | 70.9 | 3.7 | 0.1 | . | 949 |
| LSD at 10% Level | | 593 | 2.8 | 2.7 | - | . | 198 |
| C.V. % | | 16.0 | 2.6 | 42.9 | - | . | 11.9 |
| | | | | | | | |
| **Valencia Types** | | | | | | | |
| GA 142537[1] | 09/15 | **3947** | 71.5 | 3.0 | 0.5 | . | 714 |
| Georgia Valencia | 09/15 | **3657** | 65.5 | 3.0 | 0.5 | . | 675 |
| Georgia Red | 09/15 | **3469** | 70.5 | 3.0 | 0.0 | . | 927 |
| NuMex-01 | 09/05 | **3432** | 63.5 | 7.0 | 0.0 | . | 972 |
| H & W Val. 136 | 09/05 | 3244 | 67.0 | 3.0 | 0.0 | . | 993 |
| | | | | | | | |
| N. M. Val. C | 09/05 | 2891 | 67.5 | 3.0 | 1.0 | . | 966 |
| Val. McRan | 09/05 | 2703 | 65.5 | 4.0 | 0.5 | . | 998 |
| N. M. Val. A | 09/05 | 2536 | 68.5 | 1.5 | 0.0 | . | 966 |
| | | | | | | | |
| Average | 09/08 | 3235 | 67.4 | 3.4 | 0.3 | . | 897 |
| LSD at 10% Level | | 593 | 2.8 | 2.7 | - | . | 198 |
| CV % | | 16.0 | 2.6 | 42.9 | - | . | 11.9 |

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 17, 2017.

Seeding Rate: 6 seed/row foot in 36" rows.

Fertilization: 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 1000 lb dolomitic lime/acre.

Soil Test: P = Very High, K = High, and pH = 6.5.

Soil Type: Tifton sandy loam.

Previous Crop: Cotton.

Management: Disked, moldboard plowed and rototilled; Sonalan (incorporated), Select, and Basagran used for weed control; Chlorothalonil, Folicur, and Fontelis used for fungal control.

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 0.80 | 0 | 1.10 | 3.10 | 0.50 |
| Rainfall (in): | 2.65 | 5.10 | 4.87 | 5.31 | 3.72 |

Test conducted by R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Tifton, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Runner Types** | | | | | | | |
| Georgia-16HO | 10/03 | **6470** | 75.0 | 4.0 | 0.0 | . | 625 |
| GA 122706[1] | 10/26 | **6180** | 78.5 | 2.0 | 1.0 | . | 649 |
| Georgia-12Y | 10/26 | **6120** | 75.0 | 1.5 | 0.0 | . | 704 |
| TUFRunner™ '297' | 10/03 | **6117** | 75.5 | 3.0 | 0.5 | . | 590 |
| Georgia-06G | 10/03 | 6104 | 76.0 | 3.5 | 0.5 | . | 601 |
| Georgia Greener | 10/03 | 6053 | 77.0 | 2.5 | 0.0 | . | 679 |
| GA 132705[1] | 10/26 | 5975 | 75.5 | 3.5 | 0.0 | . | 704 |
| GA 132712[1] | 10/26 | 5973 | 80.0 | 1.0 | 0.0 | . | 700 |
| FloRun™ '331' | 10/03 | 5809 | 74.0 | 4.0 | 0.0 | . | 707 |
| FloRun™ '107' | 10/03 | 5599 | 72.0 | 4.5 | 0.0 | . | 731 |
| GA 122540[1] | 10/26 | 5536 | 77.0 | 5.0 | 0.0 | . | 664 |
| AU-NPL 17 | 10/03 | 5498 | 72.0 | 4.5 | 0.5 | . | 666 |
| TifNV-High O/L | 10/03 | 5295 | 74.0 | 3.5 | 0.0 | . | 641 |
| Georgia-09B | 10/03 | 5157 | 75.0 | 4.0 | 0.0 | . | 692 |
| FloRun™ '157' | 10/03 | 5076 | 75.5 | 4.5 | 0.0 | . | 727 |
| Georgia-13M | 10/26 | 5001 | 76.0 | 4.0 | 0.0 | . | 841 |
| Tifguard | 10/03 | 4853 | 74.5 | 3.0 | 0.5 | . | 639 |
| Florida-07 | 10/26 | 3869 | 72.5 | 4.0 | 0.5 | . | 653 |
| GA 122544[1] | 10/26 | 3734 | 76.0 | 2.5 | 0.5 | . | 710 |
| Georgia-14N | 10/26 | 3626 | 78.0 | 2.5 | 0.5 | . | 796 |
| TUFRunner™ '511' | 10/26 | 3602 | 74.5 | 3.0 | 0.5 | . | 636 |
| Georgia-07W | 10/26 | 3260 | 74.5 | 4.0 | 0.5 | . | 709 |
| Average | 10/14 | 5223 | 75.4 | 3.4 | 0.3 | . | 686 |
| LSD at 10% Level | | 359 | 1.9 | 1.2 | 0.8 | . | 38 |
| CV % | | 7.2 | 1.5 | 22.9 | - | . | 3.3 |
| **Virginia Types** | | | | | | | |
| Florida Fancy | 10/03 | **5550** | 73.0 | 3.0 | 0.5 | 21.5 | 540 |
| Emery | 09/15 | **5391** | 69.5 | 1.5 | 0.5 | 17.0 | 475 |
| Bailey | 09/15 | **5384** | 70.5 | 1.0 | 0.0 | 25.0 | 506 |
| GA 132724[1] | 10/03 | **5308** | 74.5 | 4.0 | 0.5 | . | 566 |
| Wynne | 09/15 | 4928 | 68.0 | 2.0 | 0.5 | 25.0 | 419 |
| Georgia-11J | 10/26 | 4648 | 73.5 | 1.5 | 1.0 | 17.5 | 431 |
| Average | 09/27 | 5202 | 71.5 | 2.2 | 0.5 | 21.2 | 489 |
| LSD at 10% Level | | 359 | 1.9 | 1.2 | 0.8 | 2.3 | 38 |
| CV % | | 7.2 | 1.5 | 22.9 | - | 35.7 | 3.3 |

# Tifton, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 17, 2017. |
| Seeding Rate: | 6 seed/row foot in 36" rows. |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 1000 lb dolomitic lime/acre. |
| Soil Test: | P = Very Hign, K = High, and pH = 6.5. |
| Soil Type: | Tifton sandy loam. |
| Previous Crop: | Cotton. |
| Management: | Disked, moldboard plowed and rototilled; Sonalan (incorporated), Select, and Basagran used for weed control; Chlorothalonil, Folicur, and Fontelis used for fungal control. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 0.80 | 0 | 1.10 | 3.10 | 0.50 |
| Rainfall (in): | 2.65 | 5.10 | 4.87 | 5.31 | 3.72 |

Test conducted by R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Tifton, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Runner Types** | | | | | | | |
| Georgia-12Y | 10/26 | **6461** | 73.5 | 3.0 | 1.0 | . | 636 |
| Georgia-06G | 10/09 | **6433** | 74.5 | 3.5 | 0.5 | . | 622 |
| Georgia Greener | 10/09 | 5889 | 74.5 | 4.5 | 0.0 | . | 669 |
| GA 122706[1] | 10/26 | 5888 | 77.5 | 2.0 | 1.0 | . | 653 |
| Georgia-16HO | 10/09 | 5864 | 74.5 | 4.0 | 0.0 | . | 643 |
| Georgia-13M | 10/26 | 5755 | 75.5 | 3.0 | 0.5 | . | 794 |
| GA 132705[1] | 10/26 | 5706 | 74.0 | 5.0 | 1.0 | . | 683 |
| GA 122540[1] | 10/26 | 5512 | 79.5 | 3.0 | 0.0 | . | 616 |
| TUFRunner™ '297' | 10/09 | 5510 | 77.0 | 2.0 | 0.5 | . | 584 |
| Georgia-09B | 10/09 | 5485 | 74.0 | 4.0 | 0.5 | . | 675 |
| GA 132712[1] | 10/26 | 5450 | 77.5 | 2.5 | 0.5 | . | 669 |
| FloRun™ '331' | 10/09 | 5346 | 74.5 | 2.5 | 0.0 | . | 707 |
| TifNV-High O/L | 10/09 | 5144 | 73.5 | 4.0 | 0.5 | . | 611 |
| FloRun™ '157' | 10/09 | 5136 | 75.5 | 3.5 | 0.0 | . | 725 |
| AU-NPL 17 | 10/09 | 5093 | 74.0 | 3.5 | 0.0 | . | 625 |
| FloRun™ '107' | 10/09 | 5043 | 73.5 | 3.5 | 0.0 | . | 739 |
| Tifguard | 10/09 | 4663 | 74.5 | 3.0 | 0.0 | . | 625 |
| Florida-07 | 10/26 | 4453 | 75.5 | 1.5 | 1.0 | . | 628 |
| Georgia-07W | 10/26 | 4441 | 77.0 | 3.0 | 0.5 | . | 610 |
| GA 122544[1] | 10/26 | 4381 | 76.0 | 2.5 | 0.5 | . | 652 |
| Georgia-14N | 10/26 | 4369 | 77.0 | 3.0 | 1.0 | . | 781 |
| TUFRunner™ '511' | 10/26 | 4259 | 75.5 | 2.5 | 1.0 | . | 626 |
| Average | 10/17 | 5286 | 75.4 | 3.1 | 0.5 | . | 665 |
| LSD at 10% Level | | 448 | 2.4 | 1.5 | 0.8 | . | 92 |
| C.V. % | | 9.0 | 1.9 | 29.3 | - | . | 8.3 |
| **Virginia Types** | | | | | | | |
| Florida Fancy | 10/9 | **5219** | 72.5 | 3.5 | 0.0 | 16.0 | 516 |
| Emery | 9/20 | **5090** | 71.5 | 1.5 | 0.5 | 14.5 | 460 |
| GA 132724[1] | 10/9 | **5081** | 74.5 | 3.5 | 1.0 | | 524 |
| Georgia-11J | 10/26 | **5026** | 73.5 | 2.0 | 0.5 | 19.5 | 531 |
| Bailey | 9/20 | **4857** | 72.5 | 1.0 | 0.0 | 22.0 | 476 |
| Wynne | 9/20 | 4539 | 70.5 | 2.5 | 0.5 | 18.5 | 450 |
| Average | 10/2 | 4968 | 72.5 | 2.3 | 0.4 | 18.1 | 493 |
| LSD at 10% Level | | 448 | 2.4 | 1.5 | 0.8 | 3.8 | 92 |
| CV % | | 9.0 | 1.9 | 29.3 | - | - | 8.3 |

# Tifton, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 17, 2017 |
| Seeding Rate: | 6 seed/row foot in 36" rows. |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$ and 1000 lb dolomitic lime/acre. |
| Soil Test: | P = Very High, K = High, and pH = 6.5. |
| Soil Type: | Tifton sandy loam. |
| Previous Crop: | Cotton. |
| Management: | Disked, moldboard plowed and rototilled; Sonalan (incorporated), Select, and Basagran used for weed control; Chlorothalonil, Folicur, and Fontelis used for fungal control. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 2.65 | 5.10 | 4.87 | 5.31 | 3.72 |

Test conducted by R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Plains, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Runner Types** | | | | | | | |
| TUFRunner™ '297' | 10/10 | **5494** | 74.0 | 3.0 | 1.0 | . | 587 |
| Georgia-09B | 10/10 | **5439** | 74.0 | 3.0 | 1.0 | . | 666 |
| TifNV-High O/L | 10/10 | **5329** | 72.5 | 2.0 | 0.5 | . | 634 |
| Georgia-16HO | 10/10 | **5286** | 73.0 | 3.0 | 1.0 | . | 642 |
| FloRun™ '331' | 10/10 | **5172** | 71.0 | 5.0 | 0.0 | . | 718 |
| Tifguard | 10/6 | **5172** | 71.5 | 5.0 | 0.5 | . | 633 |
| TUFRunner™ '511' | 10/25 | **5081** | 77.0 | 1.5 | 0.5 | . | 662 |
| Georgia Greener | 10/10 | **4996** | 74.0 | 3.0 | 0.0 | . | 678 |
| FloRun™ '107' | 10/10 | **4916** | 70.0 | 5.5 | 0.5 | . | 731 |
| AU-NPL 17 | 10/10 | 4853 | 71.5 | 3.0 | 0.0 | . | 653 |
| Georgia-13M | 10/25 | 4728 | 76.5 | 2.0 | 0.5 | . | 734 |
| FloRun™ '157' | 10/10 | 4726 | 72.0 | 4.5 | 1.0 | . | 724 |
| Georgia-06G | 10/10 | 4686 | 74.5 | 2.5 | 1.0 | . | 607 |
| GA 122540[1] | 10/25 | 4609 | 78.0 | 2.0 | 0.0 | . | 685 |
| Georgia-12Y | 10/25 | 4596 | 73.5 | 2.0 | 1.0 | . | 654 |
| Georgia-07W | 10/25 | 4582 | 75.5 | 2.5 | 1.0 | . | 650 |
| Georgia-14N | 10/25 | 4572 | 77.0 | 2.0 | 1.5 | . | 742 |
| GA 122706[1] | 10/25 | 4545 | 77.5 | 1.0 | 0.5 | . | 726 |
| Florida-07 | 10/25 | 4194 | 73.5 | 2.0 | 0.5 | . | 713 |
| GA 122544[1] | 10/25 | 4074 | 74.5 | 1.5 | 0.5 | . | 664 |
| GA 132712[1] | 10/25 | 4036 | 75.0 | 2.5 | 1.0 | . | 732 |
| GA 132705[1] | 10/25 | 3975 | 74.5 | 4.0 | 0.0 | . | 702 |
| Average | 10/17 | 4776 | 74.1 | 2.8 | 0.6 | . | 680 |
| LSD at 10% Level | | 610 | 1.9 | 1.4 | 0.7 | . | 95 |
| C.V. % | | 13.5 | 1.6 | 32.3 | - | . | 8.5 |
| **Virginia Types** | | | | | | | |
| Georgia-11J | 10/25 | **5320** | 75.5 | 1.0 | 1.0 | 26.5 | 574 |
| Florida Fancy | 10/10 | **4953** | 74.5 | 1.5 | 0.0 | 21.0 | 540 |
| GA 132724[1] | 10/10 | **4795** | 75.0 | 2.0 | 0.0 | . | 522 |
| Bailey | 9/21 | 4295 | 68.0 | 2.0 | 0.0 | 26.5 | 512 |
| Wynne | 9/21 | 4136 | 69.0 | 1.0 | 0.0 | 19.0 | 456 |
| Emery | 9/21 | 4052 | 69.0 | 1.5 | 0.0 | 30.0 | 457 |
| Average | 10/3 | 4592 | 71.8 | 1.5 | 0.2 | 24.6 | 510 |
| LSD at 10% Level | | 610 | 1.9 | 1.4 | 0.7 | 6.9 | 95 |
| CV % | | 13.5 | 1.6 | 32.3 | - | - | 8.5 |

# Plains, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated
# (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | |
|---|---|---|---|---|
| Planted: | May 30, 2017. | | | |
| Seeding Rate: | 6 seed/row foot in 36" rows. | | | |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 1000 lb domolitic lime/acre. | | | |
| Soil Test: | P = High, K = Very High, and pH = 6.3. | | | |
| Soil Type: | Greenville sandy clay loam. | | | |
| Previous Crop: | Corn. | | | |
| Management: | Disked, moldboard plowed, and rototilled; Sonolan, Strong Arm, and Valor used for weed control; Headline, Provost, and Bravo used for fungal control. | | | |
| Irrigation (in): | 4 inches total. | | | |
| | June | July | Aug. | Sept. |
| Rainfall (in): | 6.95 | 5.96 | 3.18 | 4.70 |

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Plains, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| Georgia-09B | 10/10 | **5110** | 71.0 | 4.0 | 2.0 | . | 655 |
| TUFRunner™ '297' | 10/10 | **4807** | 73.5 | 2.5 | 2.0 | . | 566 |
| Georgia-06G | 10/10 | **4759** | 75.0 | 3.0 | 1.5 | . | 610 |
| FloRun™ '331' | 10/10 | **4706** | 72.0 | 3.0 | 0.5 | . | 684 |
| AU-NPL 17 | 10/10 | 4565 | 71.5 | 2.5 | 1.0 | . | 649 |
| GA 122706[1] | 10/25 | 4533 | 76.0 | 1.0 | 1.5 | . | 646 |
| Georgia-16HO | 10/10 | 4371 | 73.5 | 2.5 | 0.5 | . | 625 |
| GA 132705[1] | 10/25 | 4333 | 73.0 | 3.0 | 1.5 | . | 692 |
| FloRun™ '107' | 10/10 | 4316 | 73.5 | 2.5 | 1.5 | . | 708 |
| TUFRunner™ '511' | 10/25 | 4292 | 75.5 | 2.0 | 1.5 | . | 642 |
| Georgia-13M | 10/25 | 4116 | 75.5 | 1.5 | 1.0 | . | 767 |
| GA 122540[1] | 10/25 | 4014 | 77.0 | 2.5 | 1.5 | . | 655 |
| Georgia-12Y | 10/25 | 3988 | 72.5 | 2.0 | 2.0 | . | 686 |
| TifNV-High O/L | 10/10 | 3977 | 70.0 | 3.5 | 2.0 | . | 608 |
| Georgia Greener | 10/10 | 3970 | 75.0 | 2.5 | 0.5 | . | 675 |
| FloRun™ '157' | 10/10 | 3911 | 74.5 | 3.0 | 1.0 | . | 729 |
| GA 122544[1] | 10/25 | 3644 | 74.0 | 1.5 | 1.5 | . | 648 |
| Georgia-14N | 10/25 | 3594 | 73.0 | 1.5 | 3.0 | . | 715 |
| Florida-07 | 10/25 | 3553 | 73.5 | 3.0 | 1.0 | . | 692 |
| Georgia-07W | 10/25 | 3491 | 72.0 | 3.0 | 2.5 | . | 645 |
| Tifguard | 10/10 | 3435 | 72.5 | 3.0 | 1.0 | . | 618 |
| GA 132712[1] | 10/25 | 2680 | 75.0 | 2.0 | 1.0 | . | 728 |
| Average | 10/17 | 4098 | 73.6 | 2.5 | 1.4 | . | 666 |
| LSD at 10% Level | | 497 | 3.9 | 1.3 | 1.2 | . | 48 |
| C.V. % | | 12.8 | 3.1 | 32.9 | - | . | 4.4 |
| **Virginia Types** | | | | | | | |
| GA 132724[1] | 10/10 | **4827** | 74.0 | 2.5 | 1.5 | . | 533 |
| Florida Fancy | 10/10 | **4613** | 71.0 | 2.5 | 2.0 | 26.0 | 548 |
| Georgia-11J | 10/25 | 3769 | 70.0 | 2.0 | 2.0 | 17.5 | 422 |
| Emery | 09/27 | 3743 | 70.5 | 1.0 | 0.0 | 12.0 | 438 |
| Wynne | 09/27 | 3280 | 66.0 | 1.0 | 1.0 | 15.5 | 433 |
| Bailey | 09/27 | 3254 | 65.5 | 2.0 | 1.0 | 19.5 | 533 |
| Average | 10/06 | 3914 | 69.5 | 1.8 | 1.3 | 18.1 | 480 |
| LSD at 10% Level | | 497 | 3.9 | 1.3 | 1.2 | 1.5 | 48 |
| CV % | | 12.8 | 3.1 | 32.9 | - | 26.7 | 4.4 |

# Plains, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated
# (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 30, 2017. |
| Seeding Rate: | 6 seed/row foot in 36" rows. |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 1000 lb domolitic lime/acre. |
| Soil Test: | P = Very High, K = Very High, and pH = 6.1. |
| Soil Type: | Greenville sandy clay loam. |
| Previous Crop: | Corn. |
| Management: | Disked, moldboard plowed, and rototilled; Sonolan, Strong Arm, and Valor used for weed control; Headline, Provost, and Bravo used for fungal control. |

| | June | July | Aug. | Sept. |
|---|---|---|---|---|
| Rainfall (in): | 6.95 | 5.96 | 3.18 | 4.70 |

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Midville, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Runner Types** | | | | | | | |
| GA 122540[1] | 10/19 | **7114** | 76.0 | 3.5 | 0.5 | . | 653 |
| Georgia-13M | 10/19 | **6830** | 76.5 | 2.0 | 0.0 | . | 790 |
| FloRun™ '331' | 10/06 | **6815** | 74.5 | 2.5 | 0.0 | . | 681 |
| Georgia-14N | 10/19 | **6772** | 77.5 | 3.0 | 0.0 | . | 790 |
| Georgia-12Y | 10/19 | **6725** | 72.5 | 3.5 | 0.0 | . | 724 |
| Georgia-09B | 10/06 | **6667** | 74.5 | 2.5 | 1.0 | . | 645 |
| Georgia-06G | 10/06 | **6588** | 76.5 | 2.0 | 0.0 | . | 608 |
| GA 132705[1] | 10/19 | **6544** | 77.0 | 2.5 | 0.0 | . | 726 |
| TUFRunner™ '297' | 10/06 | **6538** | 75.5 | 2.0 | 0.0 | . | 623 |
| Georgia-16HO | 10/06 | **6507** | 73.0 | 3.5 | 0.5 | . | 664 |
| AU-NPL 17 | 10/06 | **6360** | 74.0 | 2.5 | 0.0 | . | 672 |
| TUFRunner™ '511' | 10/19 | **6340** | 74.5 | 3.0 | 0.0 | . | 618 |
| GA 122706[1] | 10/19 | 6321 | 77.5 | 2.0 | 1.0 | . | 623 |
| FloRun™ '107' | 10/06 | 6249 | 73.0 | 3.0 | 0.0 | . | 711 |
| TifNV-High O/L | 10/06 | 6096 | 75.0 | 2.5 | 0.0 | . | 617 |
| Georgia Greener | 10/06 | 6003 | 74.5 | 3.5 | 0.0 | . | 660 |
| GA 132712[1] | 10/19 | 5952 | 77.0 | 3.0 | 0.0 | . | 663 |
| Georgia-07W | 10/19 | 5669 | 75.5 | 3.0 | 1.0 | . | 666 |
| GA 122544[1] | 10/19 | 5412 | 75.0 | 3.0 | 0.0 | . | 663 |
| FloRun™ '157' | 10/06 | 5410 | 76.0 | 1.5 | 0.0 | . | 714 |
| Florida-07 | 10/19 | 5385 | 73.0 | 3.0 | 0.0 | . | 695 |
| Tifguard | 10/06 | 5153 | 72.5 | 4.0 | 0.0 | . | 632 |
| Average | 10/12 | 6248 | 75.1 | 2.8 | 0.2 | . | 674 |
| LSD at 10% Level | | 780 | 2.1 | 1.2 | 0.5 | . | 48 |
| C.V. % | | 13.2 | 1.7 | 26.0 | - | . | 4.4 |
| **Virginia Types** | | | | | | | |
| Florida Fancy | 10/06 | **6630** | 73.5 | 3.0 | 0.5 | 21.0 | 551 |
| Georgia-11J | 10/19 | **6444** | 71.5 | 2.0 | 1.0 | 19.0 | 415 |
| GA 132724[1] | 10/06 | **5981** | 75.0 | 3.0 | 0.5 | . | 593 |
| Bailey | 09/18 | 5488 | 69.0 | 2.0 | 0.0 | 31.0 | 502 |
| Wynne | 09/18 | 5475 | 68.5 | 1.5 | 0.0 | 23.5 | 512 |
| Emery | 09/18 | 5280 | 70.5 | 1.0 | 0.0 | 22.5 | 506 |
| Average | 09/29 | 5883 | 71.3 | 2.1 | 0.3 | 23.4 | 513 |
| LSD at 10% Level | | 780 | 2.1 | 1.2 | 0.5 | 4.1 | 48 |
| CV % | | 13.2 | 1.7 | 26.0 | - | - | 4.4 |

# Midville, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Irrigated
# (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 16, 2017. |
| Seeding Rate: | 6 seed/row foot in 36" rows. |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 0 lb/acre N. |
| Soil Test: | P = High, K = High, and pH = 6.3. |
| Soil Type: | Dothan loamy sand. |
| Previous Crop: | Soybeans. |
| Management: | Disked, field conditioned, and subsoiled/bedded; Valor, Gamoxone, Storm, Dual, and Butyrac used for weed control; Thimet used for nematode control; Priaxor, Chlorothalonil, and Tebuconazole used for fungal control. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 1.00 | 0.50 | 2.50 | 5.00 | 1.25 |
| Rainfall (in): | 4.35 | 7.62 | 5.42 | 4.32 | 6.48 |

Test conducted by A. Black, R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# Midville, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated

| Variety | Digging Date | Yield | TSMK | OK | DK | ELK | Seed |
|---|---|---|---|---|---|---|---|
| | | lb/A | % | % | % | % | no./lb |
| **Runner Types** | | | | | | | |
| FloRun™ '331' | 10/10 | **5643** | 72.0 | 4.0 | 0.0 | . | 716 |
| Georgia-13M | 10/10 | **5400** | 73.5 | 3.5 | 1.0 | . | 861 |
| AU-NPL 17 | 10/10 | **5351** | 72.5 | 2.0 | 0.0 | . | 691 |
| Georgia-12Y | 10/10 | **5228** | 70.5 | 3.5 | 1.0 | . | 725 |
| GA 122544[1] | 10/10 | 5007 | 74.5 | 2.5 | 0.0 | . | 699 |
| FloRun™ '107' | 10/10 | 4872 | 70.0 | 5.5 | 0.5 | . | 753 |
| Georgia Greener | 10/10 | 4767 | 73.5 | 3.5 | 0.5 | . | 729 |
| GA 122540[1] | 10/10 | 4757 | 74.5 | 2.0 | 0.5 | . | 761 |
| Georgia-16HO | 10/10 | 4743 | 73.0 | 3.0 | 0.5 | . | 667 |
| TUFRunner™ '297' | 10/10 | 4728 | 74.0 | 2.5 | 0.0 | . | 651 |
| Georgia-14N | 10/10 | 4653 | 75.5 | 3.5 | 0.0 | . | 800 |
| TUFRunner™ '511' | 10/10 | 4616 | 73.5 | 2.0 | 0.5 | . | 621 |
| Florida-07 | 10/10 | 4613 | 72.0 | 3.5 | 0.0 | . | 682 |
| Georgia-06G | 10/10 | 4576 | 75.0 | 2.0 | 1.0 | . | 671 |
| Georgia-07W | 10/10 | 4464 | 75.5 | 2.5 | 0.0 | . | 698 |
| GA 132712[1] | 10/10 | 4453 | 75.0 | 3.0 | 0.0 | . | 697 |
| FloRun™ '157' | 10/10 | 4443 | 72.5 | 3.5 | 0.0 | . | 778 |
| TifNV-High O/L | 10/10 | 4421 | 73.0 | 3.0 | 0.5 | . | 670 |
| Georgia-09B | 10/10 | 4403 | 73.5 | 3.0 | 0.5 | . | 733 |
| GA 132705[1] | 10/10 | 4314 | 75.5 | 1.5 | 0.5 | . | 696 |
| Tifguard | 10/10 | 4266 | 75.0 | 2.5 | 0.0 | . | 622 |
| GA 122706[1] | 10/10 | 4197 | 74.0 | 2.0 | 1.0 | . | 727 |
| Average | 10/10 | 4723 | 73.6 | 2.9 | 0.4 | . | 711 |
| LSD at 10% Level | | 520 | 2.4 | 1.6 | 0.8 | . | 37 |
| C.V. % | | 12.0 | 1.9 | 35.5 | - | . | 3.2 |
| **Virginia Types** | | | | | | | |
| GA 132724[1] | 10/10 | **5192** | 73.0 | 2.5 | 0.5 | . | 581 |
| Georgia-11J | 10/10 | **5153** | 72.0 | 3.0 | 0.5 | 31.0 | 496 |
| Florida Fancy | 10/10 | 4427 | 71.5 | 2.0 | 0.5 | 26.5 | 569 |
| Wynne | 09/26 | 2793 | 69.5 | 1.0 | 0.0 | 32.0 | 510 |
| Emery | 09/26 | 2781 | 71.0 | 1.0 | 0.0 | 31.0 | 501 |
| Bailey | 09/26 | 2325 | 70.0 | 1.0 | 0.0 | 36.5 | 555 |
| Average | 10/03 | 3778 | 71.2 | 1.8 | 0.3 | 31.4 | 535 |
| LSD at 10% Level | | 520 | 2.4 | 1.6 | 0.8 | 1.4 | 37 |
| CV % | | 12.0 | 1.9 | 35.5 | - | 14.7 | 3.2 |

# Midville, Georgia:
# Yield and Grade Performance
# Peanut Variety Trial, 2017, Nonirrigated
# (Continued)

1. Advanced Georgia breeding line.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 16, 2017. |
| Seeding Rate: | 6 seed/row foot in 36" rows. |
| Fertilization: | 0 lb N, 0 lb $P_2O_5$, 0 lb $K_2O$, and 1000 dolomitic lime/acre. |
| Soil Test: | P = High, K = High, and pH = 5.4. |
| Soil Type: | Dothan loamy sand. |
| Previous Crop: | Soybeans. |
| Management: | Disked, field conditioned, and subsoiled/bedded; Valor, Gamoxone, Storm, Dual, and Butyrac used for weed control; Thimet used for nematode control; Priaxor, Chlorothalonil, and Tebuconazole used for fungal control. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 4.35 | 7.62 | 5.42 | 4.32 | 6.48 |

Test conducted by A. Black, R. Brooke, D. Dunn, M. Cofield, and K. Cawley.

# COTTON

## Bainbridge, Georgia:
## Earlier Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| DG 3526 B2XF | **1491** | 0.47 | 83.5 | 1.08 | 28.8 | 5.0 | 74.4 | 7.1 | 0.4 |
| GA 2011113 | **1471** | 0.44 | 84.2 | 1.13 | 34.0 | 4.8 | 75.1 | 6.7 | 0.2 |
| DP 1522 B2XF | **1465** | 0.45 | 82.8 | 1.07 | 29.6 | 5.3 | 74.9 | 7.1 | 0.2 |
| NG 3522 B2XF | **1410** | 0.46 | 83.4 | 1.06 | 26.9 | 5.1 | 75.3 | 7.3 | 0.3 |
| DG 3385 B2XF | **1409** | 0.46 | 83.4 | 1.07 | 29.5 | 5.1 | 74.6 | 7.6 | 0.1 |
| BRS 335 | **1370** | 0.43 | 83.6 | 1.15 | 32.3 | 4.3 | 76.8 | 6.3 | 0.5 |
| DP 1725 B2XF | **1341** | 0.47 | 83.5 | 1.10 | 29.8 | 5.1 | 75.3 | 6.6 | 0.2 |
| GA 2013025 | **1300** | 0.44 | 83.1 | 1.12 | 32.0 | 4.9 | 74.5 | 6.9 | 0.4 |
| SSG HQ 210 CT | **1258** | 0.43 | 81.2 | 1.06 | 31.1 | 5.3 | 76.2 | 6.4 | 0.3 |
| GA 2013024 | **1229** | 0.44 | 84.6 | 1.15 | 31.6 | 4.7 | 76.2 | 6.6 | 0.3 |
| GA 2013055 | 1181 | 0.43 | 83.3 | 1.15 | 35.3 | 4.4 | 75.6 | 6.7 | 0.3 |
| DP 1518 B2XF | 1099 | 0.45 | 84.1 | 1.11 | 29.6 | 4.2 | 74.6 | 6.8 | 0.3 |
| SSG HQ 212 CT | 1057 | 0.44 | 82.2 | 1.05 | 30.4 | 5.2 | 76.9 | 6.6 | 0.2 |
| BRS 286 | 1044 | 0.43 | 82.9 | 1.07 | 30.4 | 4.3 | 76.6 | 6.7 | 0.2 |
| NG 3406 B2XF | 1033 | 0.45 | 82.5 | 1.06 | 29.2 | 4.9 | 76.0 | 7.2 | 0.3 |
| SSG UA 222 | 1014 | 0.44 | 84.4 | 1.14 | 33.9 | 4.3 | 74.6 | 7.0 | 0.4 |
| Average | 1261 | 0.45 | 83.3 | 1.10 | 30.9 | 4.8 | 75.5 | 6.8 | 0.3 |
| LSD at 10% | 279 | 0.01 | NS[2] | 0.03 | 2.5 | 0.5 | NS | 0.3 | NS |
| CV % | 18.6 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 15, 2017. |
| Harvested: | October 25, 2017. |
| Seeding Rate: | 4 seeds/foot in 36" rows. |
| Soil Type: | Lucy or Blanton loamy sand. |
| Soil Test: | P = High, K = Medium, and pH = 6.0. |
| Fertilization: | 141 lb N, 104 lb $P_2O_5$, 198 lb $K_2O$, and 19 lb S/acre. |
| Previous Crop: | Corn. |
| Management: | Strip-tilled and subsoiled; Prowl, Valor, Cotoran, MSMA, and Suprend used for weed control; Imidacloprid, Knack, and Bifenthrin used for insect control. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 1.50 | 0 | 2.40 | 2.40 | 0 |
| Rainfall (in): | 2.70 | 7.30 | 5.10 | 8.25 | 4.10 |

Trials conducted by D. Dunn, R. Brooke, and M. Cofield.

# Midville, Georgia:
# Earlier Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| BRS 335 | **2231** | 0.48 | 83.0 | 1.19 | 33.1 | 3.8 | 71.1 | 6.2 | 1.7 |
| BRS 286 | **2088** | 0.45 | 82.5 | 1.17 | 33.8 | 3.9 | 69.5 | 7.3 | 1.6 |
| GA 2011113 | **2055** | 0.46 | 83.8 | 1.17 | 32.4 | 4.4 | 70.6 | 6.6 | 1.7 |
| DP 1518 B2XF | **2039** | 0.44 | 84.0 | 1.16 | 29.7 | 4.0 | 71.2 | 6.5 | 1.7 |
| GA 2013055 | 1949 | 0.42 | 83.8 | 1.15 | 31.3 | 4.3 | 71.4 | 7.0 | 1.7 |
| GA 2013024 | 1935 | 0.44 | 84.3 | 1.18 | 30.6 | 4.3 | 72.0 | 6.6 | 1.7 |
| DG 3526 B2XF | 1894 | 0.44 | 83.6 | 1.11 | 28.5 | 4.4 | 72.6 | 6.8 | 2.2 |
| GA 2013025 | 1891 | 0.42 | 83.5 | 1.16 | 31.6 | 4.3 | 69.3 | 6.6 | 2.2 |
| DG 3385 B2XF | 1889 | 0.47 | 84.2 | 1.13 | 29.8 | 4.6 | 72.8 | 7.1 | 1.3 |
| DP 1725 B2XF | 1866 | 0.46 | 82.6 | 1.12 | 30.1 | 4.4 | 73.3 | 7.0 | 1.1 |
| DP 1522 B2XF | 1794 | 0.46 | 84.2 | 1.15 | 30.9 | 4.7 | 69.4 | 6.5 | 1.6 |
| SSG HQ 210 CT | 1789 | 0.42 | 82.9 | 1.11 | 31.4 | 4.4 | 73.5 | 6.6 | 1.5 |
| SSG UA 222 | 1780 | 0.41 | 84.4 | 1.16 | 30.4 | 4.4 | 68.4 | 6.3 | 1.6 |
| NG 3406 B2XF | 1731 | 0.41 | 82.6 | 1.11 | 29.3 | 4.4 | 71.8 | 7.3 | 1.3 |
| SSG HQ 212 CT | 1659 | 0.41 | 82.8 | 1.08 | 30.3 | 4.4 | 74.4 | 6.7 | 1.5 |
| NG 3522 B2XF | 1640 | 0.40 | 82.2 | 1.07 | 27.8 | 4.3 | 71.9 | 7.2 | 1.3 |
| Average | 1889 | 0.44 | 83.4 | 1.14 | 30.7 | 4.3 | 71.4 | 6.8 | 1.6 |
| LSD at 10% | 226 | 0.03 | NS[2] | 0.04 | 2.0 | 0.4 | NS | NS | NS |
| CV % | 10.1 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 11, 2017. |
| Harvested: | October 18, 2017. |
| Seeding Rate: | 4 seeds/foot in 36" rows. |
| Soil Type: | Dothan loamy sand. |
| Soil Test: | P = Medium, K = Medium, and pH = 6.2. |
| Fertilization: | 60 lb N, 90 lb $P_2O_5$, and 80 lb $K_2O$/acre. Sidedress: 70 lb N/acre. |
| Previous Crop: | Peanuts (Spanish and Runner types). |
| Management: | Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Liberty, Diuron, Reflex, Staple, Envoke, and MSMA used for weed control; Acephate, Prevathon, Bidrin, and Bifenthrin used for insect control; Boron used for boll retention; Mepiquat used for PGR; Ethephon, Dropp, and Def used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 1.20 | 1.25 | 2.75 | 3.75 | 4.32 |
| Rainfall (in): | 4.35 | 7.92 | 5.42 | 4.32 | 6.48 |

Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

# Plains, Georgia:
# Earlier Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| GA 2013024 | **1641** | 0.46 | 84.3 | 1.14 | 29.0 | 4.6 | 71.0 | 7.4 | 1.9 |
| NG 3522 B2XF | **1620** | 0.45 | 83.8 | 1.18 | 32.3 | 4.5 | 70.8 | 6.8 | 2.4 |
| SSG HQ 210 CT | **1617** | 0.47 | 83.8 | 1.14 | 31.2 | 4.7 | 69.6 | 6.7 | 2.9 |
| DG 3526 B2XF | **1617** | 0.47 | 84.2 | 1.19 | 32.9 | 4.5 | 71.2 | 6.8 | 2.1 |
| DP 1522 B2XF | **1573** | 0.42 | 84.5 | 1.17 | 32.0 | 4.4 | 72.1 | 7.0 | 2.0 |
| DP 1518 B2XF | **1543** | 0.43 | 84.4 | 1.13 | 31.9 | 4.4 | 70.7 | 6.7 | 2.3 |
| BRS 335 | **1539** | 0.44 | 84.1 | 1.19 | 32.3 | 4.5 | 69.8 | 6.8 | 2.1 |
| BRS 286 | **1527** | 0.43 | 83.6 | 1.21 | 33.0 | 4.5 | 70.1 | 7.0 | 2.2 |
| DP 1725 B2XF | **1503** | 0.45 | 84.3 | 1.18 | 31.9 | 4.7 | 67.7 | 6.3 | 3.3 |
| GA 2011113 | **1500** | 0.44 | 82.4 | 1.21 | 32.0 | 4.2 | 69.6 | 6.1 | 2.6 |
| SSG HQ 212 CT | **1466** | 0.44 | 83.4 | 1.19 | 33.2 | 4.2 | 70.1 | 6.8 | 2.0 |
| GA 2013025 | **1455** | 0.41 | 83.8 | 1.14 | 30.6 | 4.6 | 71.1 | 7.7 | 1.6 |
| NG 3406 B2XF | **1451** | 0.42 | 83.4 | 1.17 | 32.8 | 4.3 | 71.7 | 7.1 | 2.3 |
| GA 2013055 | **1422** | 0.43 | 83.7 | 1.16 | 30.3 | 4.2 | 69.3 | 7.1 | 2.8 |
| DG 3385 B2XF | **1319** | 0.42 | 83.0 | 1.12 | 29.6 | 4.6 | 70.6 | 7.3 | 1.9 |
| SSG UA 222 | **1623** | 0.44 | 84.4 | 1.17 | 30.2 | 4.2 | 71.8 | 6.6 | 1.6 |
| Average | 1526 | 0.44 | 83.8 | 1.17 | 31.6 | 4.4 | 70.4 | 6.9 | 2.2 |
| LSD at 10% | NS[2] | 0.03 | NS | NS | NS | NS | NS | 0.6 | NS |
| CV% | 14.1 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 8, 2017. | | | | |
| Harvested: | November 1, 2017. | | | | |
| Seeding Rate: | 4 seed/ft on 36" rows. | | | | |
| Soil Type: | Faceville sandy loam. | | | | |
| Soil Test: | P = Medium, K = Very High, and pH = 6.3. | | | | |
| Fertilization: | 18 lb N, 47 lb $P_2O5$, and 0 lb $K_2O$/acre. Sidedress: 80 lb N/acre. | | | | |
| Previous Crop: | Soybeans. | | | | |
| Management: | Disked, subsoiled/bedded, rototilled, and cultivated; Prowl, Reflex, Staple, MSMA, Diuron, and Envoke used for weed control; Bidrin, Bifenthrin, and Prevathon used for insect control; Mepiquat Chloride used for PGR; Folex, Ethephon, and Thidiazuron used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Irrigation (in): | Total of 5.33 in. | | | | |
| Rainfall (in): | 6.17 | 6.95 | 5.96 | 3.18 | 4.70 |

Trials conducted by W. Jones, D. Pearce, D. Dunn, R. Brooke, and M. Cofield.

# Tifton, Georgia:
# Earlier Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| NG 3522 B2XF | **1419** | 0.38 | 82.2 | 1.08 | 27.7 | 4.7 | 81.2 | 8.9 | 0.1 |
| BRS 335 | **1377** | 0.37 | 83.4 | 1.19 | 32.5 | 3.9 | 79.6 | 8.2 | 0.7 |
| SSG UA 222 | **1295** | 0.36 | 83.5 | 1.19 | 31.2 | 4.4 | 78.8 | 8.3 | 0.6 |
| GA 2013055 | **1274** | 0.38 | 82.5 | 1.21 | 33.6 | 4.4 | 80.1 | 8.0 | 0.5 |
| DG 3385 B2XF | **1262** | 0.37 | 82.3 | 1.11 | 28.7 | 4.5 | 80.0 | 8.8 | 0.3 |
| DP 1518 B2XF | **1256** | 0.38 | 82.5 | 1.14 | 30.7 | 4.1 | 80.6 | 8.1 | 0.5 |
| SSG HQ 210 CT | **1242** | 0.35 | 81.9 | 1.12 | 30.4 | 4.6 | 81.2 | 7.9 | 0.2 |
| DG 3526 B2XF | **1242** | 0.41 | 83.0 | 1.10 | 28.8 | 4.6 | 80.5 | 8.5 | 0.2 |
| GA 2013024 | **1236** | 0.38 | 84.0 | 1.15 | 33.3 | 4.6 | 80.5 | 8.4 | 0.3 |
| BRS 286 | **1218** | 0.36 | 82.8 | 1.14 | 33.1 | 4.3 | 79.9 | 8.4 | 0.4 |
| GA 2011113 | **1212** | 0.38 | 83.2 | 1.19 | 32.2 | 4.2 | 80.4 | 8.1 | 0.2 |
| DP 1725 B2XF | **1201** | 0.41 | 82.6 | 1.15 | 31.3 | 4.3 | 81.0 | 8.4 | 0.3 |
| NG 3406 B2XF | **1201** | 0.38 | 82.0 | 1.12 | 30.6 | 4.5 | 78.5 | 8.5 | 0.2 |
| GA 2013025 | **1184** | 0.38 | 84.2 | 1.17 | 32.2 | 4.6 | 78.9 | 7.9 | 0.4 |
| DP 1522 B2XF | **1114** | 0.38 | 83.1 | 1.17 | 31.8 | 4.7 | 79.4 | 8.3 | 0.4 |
| SSG HQ 212 CT | **1054** | 0.36 | 83.5 | 1.14 | 31.5 | 4.5 | 81.8 | 8.0 | 0.2 |
| Average | 1237 | 0.38 | 82.9 | 1.15 | 31.2 | 4.4 | 80.1 | 8.3 | 0.3 |
| LSD at 10% | NS[2] | 0.01 | NS | 0.04 | 1.8 | 0.3 | 0.9 | 0.3 | 0.2 |
| CV % | 12.5 | | | | | | | | |

* Percent lint fractions were determined from plot seed cotton ginned in the MicroGin located on the UGA Tifton campus. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 3, 2017. |
| Harvested: | October 6, 2017. |
| Seeding Rate: | 4 seed/foot in 36" rows. |
| Soil Type: | Tifton sandy loam. |
| Soil Test: | P = High, K = Medium, and pH = 6.2. |
| Fertilization: | 25 lb N, 70 lb $P_2O_5$, and 60 lb $K_2O$/acre. Sidedress: 75 lb N and 30 lb $K_2O$/acre. |
| Previous Crop: | Peanuts. |
| Management: | Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Diuron, MSMA, and Envoke used for weed control; Knack, Beseige, Courier, and Karate Z used for insect control; Prep, Folex, and Dropp used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 0.50 | 0 | 0 | 2.00 | 0 |
| Rainfall (in): | 2.45 | 9.66 | 4.00 | 2.26 | 4.03 |

Trials conducted by S. Willis, R. Brooke, D. Dunn, and M. Cofield.

# Yield Summary of Earlier Maturity Cotton Varieties at Four Locations[1], 2017, Irrigated

| Variety | 2016 Lint Yield[2] | 2017 Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire | Color Grade[3] | | HVI Trash |
| | | | | | | | | Rd Color | +B Color | |
| | lb/acre | lb/acre | % | fraction | inches | g/tex | units | grade | grade | % area |
| BRS 335 | 1533 | **1629** | 0.43 | 83.5 | 1.17 | 32.5 | 4.1 | 74.3 | 6.9 | 1.2 |
| DG 3526 B2XF | 1469 | **1561** | 0.45 | 83.6 | 1.12 | 29.7 | 4.6 | 74.6 | 7.3 | 1.2 |
| GA 2011113 | 1642 | **1560** | 0.43 | 83.4 | 1.18 | 32.6 | 4.4 | 73.9 | 6.8 | 1.1 |
| NG 3522 B2XF | . | **1522** | 0.42 | 82.9 | 1.10 | 28.6 | 4.6 | 74.8 | 7.5 | 1.0 |
| GA 2013024 | . | **1510** | 0.43 | 84.3 | 1.16 | 31.1 | 4.5 | 74.9 | 7.3 | 1.0 |
| DP 1522 B2XF | . | **1486** | 0.43 | 83.6 | 1.14 | 31.1 | 4.8 | 73.9 | 7.2 | 1.0 |
| DP 1518 B2XF | . | **1484** | 0.43 | 83.7 | 1.14 | 30.5 | 4.2 | 74.2 | 7.0 | 1.2 |
| DP 1725 B2XF | . | **1478** | 0.45 | 83.2 | 1.14 | 30.7 | 4.6 | 74.3 | 7.0 | 1.2 |
| SSG HQ 210 CT | 1351 | **1477** | 0.42 | 82.4 | 1.10 | 31.0 | 4.7 | 75.1 | 6.9 | 1.2 |
| DG 3385 B2XF | . | **1470** | 0.43 | 83.2 | 1.11 | 29.4 | 4.7 | 74.5 | 7.7 | 0.9 |
| BRS 286 | **1661** | **1469** | 0.42 | 82.9 | 1.15 | 32.6 | 4.2 | 74.0 | 7.4 | 1.1 |
| GA 2013025 | . | **1457** | 0.42 | 83.6 | 1.15 | 31.6 | 4.6 | 73.4 | 7.3 | 1.1 |
| GA 2013055 | . | **1457** | 0.41 | 83.3 | 1.17 | 32.6 | 4.3 | 74.1 | 7.2 | 1.3 |
| SSG UA 222 | 1508 | **1428** | 0.41 | 84.2 | 1.16 | 31.4 | 4.3 | 73.4 | 7.0 | 1.0 |
| NG 3406 B2XF | 1576 | **1354** | 0.41 | 82.6 | 1.11 | 30.5 | 4.5 | 74.5 | 7.5 | 1.0 |
| SSG HQ 212 CT | 1405 | **1309** | 0.41 | 82.9 | 1.11 | 31.3 | 4.6 | 75.8 | 7.0 | 0.9 |
| Average | 1549 | 1478 | 0.43 | 83.3 | 1.14 | 31.1 | 4.5 | 74.4 | 7.2 | 1.1 |
| LSD at 10% | 137 | NS[4] | NS | 0.8 | 0.04 | 1.5 | 0.3 | NS | NS | NS |
| CV % | 8.8 | 23.9 | | | | | | | | |

1. Bainbridge, Midville, Plains, and Tifton.
2. The average, LSD, CV, and bolding for the 2016 yield column reflect the 2016 tests as a whole and are not limited to the varieties listed in the column.
3. Color grade: composed of Rd (reflectance) and +B (yellowness).
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

# Bainbridge, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PX3A82W3FE | **1661** | 0.47 | 84.4 | 1.09 | 33.2 | 5.0 | 74.1 | 6.8 | 0.7 |
| PHY 330 W3FE | **1594** | 0.48 | 84.0 | 1.10 | 31.1 | 4.4 | 74.3 | 7.9 | 0.3 |
| PHY 340 W3FE | **1592** | 0.48 | 84.2 | 1.12 | 32.6 | 4.9 | 74.9 | 7.7 | 0.4 |
| DP 1639 B2XF | **1542** | 0.48 | 83.8 | 1.07 | 31.1 | 5.2 | 72.2 | 6.9 | 0.3 |
| DP 1646 B2XF | **1484** | 0.48 | 83.5 | 1.15 | 29.7 | 4.7 | 76.1 | 6.4 | 0.3 |
| AMX 1711 B2XF | **1443** | 0.46 | 83.2 | 1.15 | 30.3 | 4.8 | 77.6 | 7.0 | 0.2 |
| PX3A96W3FE | **1439** | 0.45 | 84.3 | 1.11 | 32.0 | 5.0 | 74.4 | 6.6 | 0.3 |
| AMX 1713 B2XF | **1410** | 0.46 | 82.2 | 1.11 | 29.4 | 4.8 | 77.0 | 6.9 | 0.2 |
| DP 1725 B2XF | **1406** | 0.48 | 83.1 | 1.11 | 30.4 | 4.8 | 74.9 | 6.7 | 0.2 |
| ST 6182GLT | **1393** | 0.49 | 83.5 | 1.12 | 31.0 | 4.7 | 75.6 | 7.3 | 0.2 |
| ST 4949GLT | **1379** | 0.48 | 83.7 | 1.08 | 30.3 | 5.0 | 76.4 | 7.5 | 0.2 |
| PX5B73W3FE | **1339** | 0.46 | 84.5 | 1.13 | 32.1 | 5.0 | 76.7 | 7.1 | 0.3 |
| AMX 1710 B2XF | **1335** | 0.45 | 83.3 | 1.10 | 31.7 | 4.6 | 75.9 | 7.8 | 0.2 |
| DP 1553 B2XF | **1328** | 0.47 | 84.8 | 1.15 | 29.3 | 4.8 | 75.6 | 7.4 | 0.2 |
| DP 1538 B2XF | **1322** | 0.46 | 82.8 | 1.07 | 27.9 | 5.2 | 73.7 | 6.6 | 0.4 |
| CG 9608 B3XF | **1315** | 0.48 | 82.8 | 1.10 | 28.8 | 4.5 | 74.2 | 7.5 | 0.2 |
| DP 1555 B2RF | **1303** | 0.48 | 84.3 | 1.13 | 31.7 | 4.9 | 77.5 | 6.9 | 0.4 |
| NG 4601 B2XF | **1301** | 0.46 | 83.1 | 1.15 | 33.8 | 4.9 | 75.0 | 6.8 | 0.2 |
| PX4A54W3FE | **1295** | 0.47 | 83.5 | 1.12 | 32.8 | 4.9 | 75.7 | 8.0 | 0.4 |
| ST 5115GLT | **1292** | 0.44 | 83.3 | 1.11 | 32.1 | 4.3 | 77.9 | 6.2 | 0.3 |
| PHY 490 W3FE | **1290** | 0.46 | 84.8 | 1.11 | 35.4 | 5.2 | 76.0 | 7.4 | 0.2 |
| DP 1747NR B2XF | **1282** | 0.48 | 82.8 | 1.08 | 30.9 | 5.2 | 75.1 | 8.1 | 0.4 |
| DG 3757 B2XF | **1282** | 0.47 | 83.8 | 1.11 | 29.2 | 4.8 | 74.3 | 7.9 | 0.2 |
| PX5A57W3FE | **1263** | 0.46 | 84.0 | 1.13 | 31.9 | 4.8 | 76.7 | 7.3 | 0.3 |
| GA 230 | **1261** | 0.43 | 82.4 | 1.16 | 30.8 | 4.6 | 76.6 | 6.2 | 0.2 |
| NG 5007 B2XF | **1256** | 0.46 | 83.0 | 1.10 | 28.3 | 4.8 | 74.0 | 7.0 | 0.2 |
| ST 5020 GLT | **1243** | 0.45 | 84.5 | 1.15 | 33.3 | 4.9 | 74.1 | 7.0 | 0.4 |
| PHY 312 WRF | **1237** | 0.46 | 84.3 | 1.10 | 31.8 | 4.6 | 74.6 | 7.0 | 0.3 |
| DG 1602 GLT | **1237** | 0.45 | 84.0 | 1.16 | 32.2 | 5.1 | 74.0 | 6.8 | 0.3 |
| DG 3605 B2XF | **1235** | 0.47 | 83.6 | 1.18 | 30.5 | 4.8 | 76.1 | 6.8 | 0.5 |
| PHY 450 W3FE | **1218** | 0.45 | 84.3 | 1.10 | 34.9 | 5.3 | 73.8 | 7.5 | 0.5 |
| GA 2012141 | **1207** | 0.45 | 85.2 | 1.17 | 33.3 | 4.9 | 77.4 | 7.2 | 0.3 |
| PX4A52W3FE | **1184** | 0.46 | 84.7 | 1.13 | 32.7 | 4.9 | 76.2 | 7.7 | 0.4 |
| PX3A99W3FE | **1179** | 0.45 | 82.9 | 1.13 | 30.8 | 5.1 | 75.5 | 7.6 | 0.3 |
| PX4A57W3FE | **1179** | 0.47 | 82.7 | 1.07 | 32.8 | 4.8 | 74.0 | 8.5 | 0.4 |
| BRS 293 | **1169** | 0.42 | 84.0 | 1.13 | 35.0 | 4.9 | 76.0 | 8.2 | 0.3 |
| PX5B76W3FE | **1142** | 0.45 | 84.9 | 1.15 | 34.4 | 5.0 | 75.1 | 6.8 | 0.5 |
| AMX 1712 B2XF | **1127** | 0.46 | 84.4 | 1.14 | 30.5 | 4.9 | 76.7 | 7.1 | 0.3 |
| PHY 444 WRF | **1121** | 0.47 | 84.5 | 1.17 | 32.2 | 4.3 | 76.2 | 7.7 | 0.2 |
| ST 4848GLT | **1098** | 0.47 | 84.1 | 1.10 | 30.6 | 4.7 | 75.2 | 7.2 | 0.4 |
| GA 2013114 | **1049** | 0.45 | 83.6 | 1.15 | 32.1 | 4.7 | 77.5 | 7.1 | 0.3 |
| PHY 300 W3FE | **998** | 0.49 | 83.6 | 1.09 | 31.9 | 4.8 | 74.2 | 7.8 | 0.4 |
| PX4A62W3FE | **990** | 0.48 | 84.6 | 1.15 | 35.5 | 4.6 | 77.6 | 7.8 | 0.1 |
| PX2A28W3FE | **986** | 0.44 | 83.4 | 1.13 | 32.2 | 4.8 | 76.7 | 6.8 | 0.3 |
| GA 2011113 | **974** | 0.44 | 83.7 | 1.15 | 33.4 | 4.6 | 76.4 | 6.7 | 0.3 |
| ST 5517 GLTP | **952** | 0.43 | 83.9 | 1.14 | 32.6 | 4.5 | 77.2 | 7.0 | 0.3 |
| Average | 1271 | 0.46 | 83.8 | 1.12 | 31.7 | 4.8 | 75.6 | 7.2 | 0.3 |
| LSD at 10% | NS[2] | 0.01 | 1.3 | 0.03 | 1.7 | 0.3 | 1.3 | 0.4 | NS |
| CV % | 11.2 | | | | | | | | |

# Bainbridge, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 15, 2017. | | | | |
| Harvested: | October 25, 2017. | | | | |
| Seeding Rate: | 4 seeds/foot in 36" rows. | | | | |
| Soil Type: | Lucy or Blanton loamy sand. | | | | |
| Soil Test: | P = High, K = Medium, and pH = 6.0. | | | | |
| Fertilization: | 141 lb N, 104 lb $P_2O_5$, 198 lb $K_2O$, and 19 lb S/acre. | | | | |
| Previous Crop: | Corn. | | | | |
| Management: | Strip-tilled and subsoiled; Prowl, Valor, Cotoran, MSMA, and Suprend used for weed control; Imidacloprid, Knack, and Bifenthrin used for insect control. | | | | |
| | May | June | July | Aug. | Sept. |
| Irrigation (in): | 1.50 | 0 | 2.40 | 2.40 | 0 |
| Rainfall (in): | 2.70 | 7.30 | 5.10 | 8.25 | 4.10 |

Trials conducted by D. Dunn, R. Brooke, and M. Cofield.

# Midville, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] | | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Rd Color | +B Color | |
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| GA 2011113 | **2131** | 0.46 | 84.2 | 1.17 | 33.6 | 4.3 | 71.9 | 5.9 | 1.8 |
| DP 1555 B2RF | **2048** | 0.45 | 83.5 | 1.16 | 32.0 | 4.3 | 75.4 | 6.5 | 1.0 |
| DG 3605 B2XF | **2010** | 0.45 | 83.5 | 1.23 | 29.8 | 4.3 | 72.8 | 6.5 | 1.9 |
| DP 1646 B2XF | **1974** | 0.45 | 82.7 | 1.22 | 28.9 | 4.1 | 71.9 | 6.5 | 2.0 |
| GA 2012141 | **1914** | 0.47 | 82.7 | 1.17 | 30.3 | 4.6 | 71.9 | 6.6 | 1.3 |
| PHY 444 WRF | 1893 | 0.44 | 85.6 | 1.23 | 33.4 | 4.0 | 73.4 | 7.1 | 1.5 |
| AMX 1712 B2XF | 1892 | 0.44 | 83.0 | 1.18 | 30.6 | 4.2 | 72.7 | 7.0 | 1.6 |
| GA 2013114 | 1833 | 0.45 | 83.0 | 1.15 | 30.4 | 4.3 | 72.1 | 6.4 | 1.2 |
| ST 4949GLT | 1804 | 0.44 | 82.8 | 1.10 | 29.0 | 4.3 | 70.3 | 6.8 | 1.9 |
| ST 6182GLT | 1803 | 0.46 | 82.3 | 1.10 | 28.2 | 4.5 | 72.8 | 6.8 | 1.1 |
| PX4A62W3FE | 1801 | 0.44 | 82.6 | 1.19 | 33.6 | 3.9 | 68.8 | 7.1 | 1.6 |
| DG 1602 GLT | 1799 | 0.46 | 82.9 | 1.15 | 30.5 | 4.3 | 69.8 | 6.9 | 2.1 |
| NG 5007 B2XF | 1796 | 0.44 | 81.8 | 1.11 | 27.6 | 3.8 | 72.8 | 7.1 | 1.4 |
| ST 5517 GLTP | 1793 | 0.44 | 82.1 | 1.13 | 32.5 | 4.1 | 74.6 | 6.0 | 1.8 |
| DG 3757 B2XF | 1787 | 0.45 | 83.2 | 1.13 | 28.2 | 4.2 | 72.8 | 7.4 | 1.5 |
| DP 1553 B2XF | 1782 | 0.42 | 83.7 | 1.17 | 28.8 | 4.2 | 73.0 | 7.3 | 1.4 |
| PHY 490 W3FE | 1778 | 0.46 | 83.6 | 1.11 | 32.6 | 4.4 | 70.0 | 6.4 | 2.4 |
| DP 1747NR B2XF | 1766 | 0.45 | 83.1 | 1.13 | 31.8 | 4.3 | 70.0 | 7.0 | 2.0 |
| DP 1538 B2XF | 1755 | 0.43 | 83.2 | 1.08 | 27.3 | 4.4 | 71.5 | 7.0 | 1.7 |
| DP 1639 B2XF | 1728 | 0.43 | 83.8 | 1.12 | 31.4 | 4.5 | 71.3 | 6.8 | 2.2 |
| PX5B76W3FE | 1716 | 0.40 | 83.4 | 1.14 | 31.8 | 4.1 | 73.5 | 6.3 | 1.0 |
| GA 230 | 1713 | 0.43 | 83.7 | 1.19 | 31.6 | 4.1 | 73.5 | 6.6 | 0.9 |
| PX4A54W3FE | 1696 | 0.43 | 84.8 | 1.13 | 31.8 | 4.4 | 70.2 | 7.5 | 1.6 |
| PX4A57W3FE | 1688 | 0.43 | 82.6 | 1.07 | 30.2 | 4.3 | 68.4 | 7.8 | 2.1 |
| ST 4848GLT | 1684 | 0.42 | 83.4 | 1.12 | 29.8 | 4.3 | 70.0 | 6.9 | 1.6 |
| CG 9608 B3XF | 1678 | 0.43 | 83.7 | 1.18 | 32.8 | 4.3 | 70.2 | 6.8 | 1.8 |
| PHY 340 W3FE | 1669 | 0.44 | 82.3 | 1.12 | 30.6 | 4.3 | 69.1 | 6.9 | 1.9 |
| DP 1725 B2XF | 1658 | 0.46 | 82.4 | 1.13 | 30.2 | 4.5 | 72.1 | 6.8 | 0.8 |
| PX3A82W3FE | 1654 | 0.45 | 83.3 | 1.12 | 32.0 | 4.4 | 71.4 | 6.9 | 1.8 |
| AMX 1710 B2XF | 1650 | 0.44 | 82.6 | 1.10 | 31.0 | 4.4 | 72.0 | 7.2 | 1.4 |
| PHY 300 W3FE | 1642 | 0.43 | 83.1 | 1.11 | 29.7 | 4.1 | 68.7 | 7.1 | 1.4 |
| PX4A52W3FE | 1613 | 0.44 | 83.1 | 1.13 | 29.2 | 4.0 | 71.8 | 7.1 | 1.6 |
| AMX 1711 B2XF | 1603 | 0.44 | 81.6 | 1.19 | 31.2 | 4.2 | 73.3 | 6.8 | 1.3 |
| ST 5020 GLT | 1603 | 0.41 | 82.7 | 1.15 | 30.7 | 4.4 | 71.4 | 6.4 | 2.0 |
| PX3A96W3FE | 1593 | 0.41 | 83.6 | 1.15 | 30.4 | 4.4 | 73.5 | 6.7 | 1.3 |
| AMX 1713 B2XF | 1583 | 0.43 | 82.3 | 1.14 | 29.8 | 4.2 | 73.1 | 7.2 | 1.1 |
| NG 4601 B2XF | 1576 | 0.42 | 83.4 | 1.14 | 31.9 | 4.3 | 73.1 | 6.7 | 1.2 |
| PX3A99W3FE | 1570 | 0.44 | 83.2 | 1.14 | 30.4 | 4.4 | 71.8 | 6.7 | 1.2 |
| PX2A28W3FE | 1543 | 0.44 | 82.3 | 1.14 | 33.0 | 4.2 | 72.9 | 6.3 | 1.6 |
| PHY 330 W3FE | 1517 | 0.41 | 82.7 | 1.16 | 30.1 | 4.4 | 69.9 | 7.2 | 1.1 |
| ST 5115GLT | 1483 | 0.40 | 82.2 | 1.13 | 29.7 | 4.1 | 71.1 | 5.9 | 2.3 |
| PX5B73W3FE | 1478 | 0.42 | 84.0 | 1.15 | 31.1 | 4.1 | 71.3 | 6.5 | 2.1 |
| PHY 312 WRF | 1472 | 0.40 | 83.2 | 1.14 | 31.0 | 4.3 | 68.0 | 6.6 | 2.1 |
| BRS 293 | 1467 | 0.43 | 82.9 | 1.15 | 35.0 | 4.7 | 72.5 | 7.6 | 1.3 |
| PX5A57W3FE | 1406 | 0.40 | 83.6 | 1.14 | 31.3 | 3.8 | 72.3 | 6.2 | 1.7 |
| PHY 450 W3FE | 1389 | 0.40 | 82.9 | 1.10 | 33.1 | 4.5 | 65.4 | 7.0 | 1.9 |
| Average | 1705 | 0.43 | 83.1 | 1.14 | 30.9 | 4.2 | 71.5 | 6.8 | 1.6 |
| LSD at 10% | 237 | 0.02 | 1.4 | 0.04 | 2.5 | NS[2] | 2.9 | 0.5 | 0.8 |
| CV % | 11.9 | | | | | | | | |

# Midville, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 11, 2017. | | | | |
| Harvested: | October 19, 2017. | | | | |
| Seeding Rate: | 4 seeds/foot in 36" rows. | | | | |
| Soil Type: | Dothan loamy sand. | | | | |
| Soil Test: | P = Medium, K = Medium, and pH = 6.2. | | | | |
| Fertilization: | 60 lb N, 90 lb $P_2O_5$, and 80 lb $K_2O$/acre. Sidedress: 70 lb N/acre. | | | | |
| Previous Crop: | Peanuts (Spanish and Runner types). | | | | |
| Management: | Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Liberty, Diuron, Reflex, Staple, Envoke, and MSMA used for weed control; Acephate, Prevathon, Bidrin, and Bifenthrin used for insect control; Boron used boll retention; Mepiquat used for PGR; Ethephon, Dropp, and Def used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Irrigation (in): | 1.20 | 1.25 | 2.75 | 3.75 | 4.32 |
| Rainfall (in): | 4.35 | 7.92 | 5.42 | 4.32 | 6.48 |

Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

# Plains, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PHY 300 W3FE | **1773** | 0.45 | 83.6 | 1.12 | 28.2 | 4.6 | 71.3 | 6.9 | 1.9 |
| PHY 330 W3FE | **1661** | 0.42 | 83.5 | 1.17 | 33.9 | 4.2 | 70.0 | 6.8 | 1.6 |
| BRS 293 | **1652** | 0.42 | 83.3 | 1.19 | 31.9 | 4.2 | 70.1 | 7.9 | 1.8 |
| DP 1639 B2XF | **1640** | 0.43 | 83.5 | 1.15 | 31.4 | 4.3 | 71.9 | 7.0 | 1.3 |
| DG 3605 B2XF | **1626** | 0.43 | 83.3 | 1.14 | 30.5 | 4.3 | 71.0 | 7.0 | 1.9 |
| AMX 1710 B2XF | **1620** | 0.41 | 82.7 | 1.18 | 29.7 | 4.2 | 73.4 | 7.2 | 1.5 |
| PX2A28W3FE | **1603** | 0.43 | 84.2 | 1.19 | 32.7 | 4.0 | 69.3 | 7.5 | 2.3 |
| GA 2011113 | **1600** | 0.42 | 83.1 | 1.13 | 30.3 | 4.2 | 68.9 | 7.2 | 3.0 |
| PHY 450 W3FE | **1600** | 0.43 | 83.3 | 1.19 | 31.3 | 4.2 | 68.4 | 7.3 | 2.8 |
| AMX 1712 B2XF | **1599** | 0.41 | 82.4 | 1.17 | 31.5 | 4.2 | 71.5 | 7.0 | 2.4 |
| DP 1538 B2XF | **1584** | 0.43 | 83.1 | 1.20 | 30.8 | 4.1 | 71.8 | 7.4 | 1.9 |
| DP 1646 B2XF | **1581** | 0.42 | 84.4 | 1.19 | 31.3 | 4.3 | 71.0 | 6.7 | 1.4 |
| DG 1602 GLT | **1580** | 0.42 | 83.1 | 1.13 | 30.2 | 4.1 | 70.7 | 6.9 | 1.9 |
| DP 1725 B2XF | **1575** | 0.42 | 83.5 | 1.12 | 30.3 | 3.8 | 71.4 | 7.4 | 1.8 |
| ST 5020 GLT | **1565** | 0.43 | 83.2 | 1.12 | 32.2 | 4.1 | 67.0 | 7.5 | 2.6 |
| ST 4848GLT | **1563** | 0.42 | 84.3 | 1.15 | 33.0 | 3.9 | 69.6 | 7.1 | 1.9 |
| ST 6182GLT | **1560** | 0.43 | 81.9 | 1.11 | 32.3 | 4.5 | 69.8 | 7.6 | 1.4 |
| NG 4601 B2XF | **1555** | 0.42 | 82.9 | 1.22 | 31.7 | 4.2 | 70.3 | 6.3 | 2.2 |
| PX5B73W3FE | **1554** | 0.43 | 82.9 | 1.15 | 30.0 | 4.3 | 70.7 | 7.2 | 2.4 |
| PX4A57W3FE | **1551** | 0.43 | 82.6 | 1.13 | 29.6 | 4.2 | 72.3 | 6.9 | 1.8 |
| PX5B76W3FE | **1548** | 0.42 | 83.6 | 1.17 | 30.7 | 4.1 | 71.5 | 6.7 | 2.1 |
| GA 2013114 | **1525** | 0.42 | 83.5 | 1.21 | 31.9 | 4.2 | 70.2 | 7.5 | 2.2 |
| PHY 340 W3FE | **1523** | 0.41 | 84.0 | 1.15 | 32.2 | 4.4 | 70.1 | 6.8 | 1.4 |
| ST 4949GLT | **1513** | 0.41 | 82.0 | 1.11 | 30.1 | 3.9 | 70.2 | 7.0 | 2.3 |
| PX4A54W3FE | **1507** | 0.42 | 83.8 | 1.14 | 31.5 | 4.4 | 71.5 | 7.3 | 2.1 |
| AMX 1711 B2XF | **1499** | 0.41 | 84.1 | 1.17 | 29.6 | 4.5 | 71.1 | 7.2 | 1.9 |
| CG 9608 B3XF | **1487** | 0.42 | 83.8 | 1.13 | 31.7 | 4.2 | 71.0 | 6.8 | 2.2 |
| DP 1555 B2RF | **1476** | 0.41 | 83.0 | 1.14 | 30.2 | 4.1 | 70.0 | 6.6 | 2.4 |
| DP 1553 B2XF | **1470** | 0.41 | 82.5 | 1.19 | 30.5 | 4.1 | 70.5 | 7.0 | 1.4 |
| PX4A62W3FE | **1461** | 0.44 | 83.2 | 1.13 | 31.5 | 4.5 | 70.5 | 7.3 | 2.2 |
| NG 5007 B2XF | **1460** | 0.41 | 83.6 | 1.23 | 31.6 | 4.4 | 71.3 | 7.2 | 1.8 |
| GA 230 | **1450** | 0.40 | 83.1 | 1.15 | 31.1 | 4.5 | 70.0 | 7.1 | 2.2 |
| PX3A82W3FE | **1449** | 0.41 | 83.9 | 1.12 | 31.6 | 4.4 | 72.9 | 6.3 | 1.8 |
| ST 5517 GLTP | **1443** | 0.41 | 82.1 | 1.15 | 31.2 | 3.8 | 71.2 | 7.3 | 1.2 |
| DP 1747NR B2XF | **1442** | 0.44 | 84.1 | 1.19 | 30.8 | 4.0 | 69.9 | 6.6 | 1.7 |
| PHY 444 WRF | **1441** | 0.41 | 83.6 | 1.12 | 33.0 | 4.1 | 68.7 | 7.5 | 2.7 |
| PX3A96W3FE | **1437** | 0.41 | 83.8 | 1.17 | 31.6 | 4.1 | 71.6 | 7.2 | 1.6 |
| ST 5115GLT | **1427** | 0.40 | 84.1 | 1.17 | 32.6 | 4.2 | 73.1 | 6.6 | 2.2 |
| DG 3757 B2XF | **1409** | 0.40 | 84.1 | 1.17 | 30.7 | 4.3 | 70.3 | 6.6 | 2.2 |
| PHY 490 W3FE | **1399** | 0.44 | 82.5 | 1.12 | 31.2 | 4.3 | 71.7 | 7.6 | 1.9 |
| AMX 1713 B2XF | **1378** | 0.40 | 83.7 | 1.15 | 32.4 | 4.0 | 70.6 | 7.4 | 2.0 |
| PX5A57W3FE | **1358** | 0.43 | 84.1 | 1.15 | 30.1 | 4.5 | 69.7 | 7.3 | 2.0 |
| PX4A52W3FE | **1336** | 0.42 | 82.6 | 1.17 | 33.7 | 4.0 | 71.1 | 6.7 | 2.0 |
| PHY 312 WRF | **1325** | 0.41 | 82.3 | 1.17 | 31.5 | 4.3 | 72.9 | 6.7 | 1.4 |
| GA 2012141 | **1298** | 0.44 | 83.3 | 1.11 | 29.4 | 4.7 | 71.8 | 7.5 | 1.7 |
| PX3A99W3FE | **1262** | 0.40 | 83.9 | 1.12 | 32.2 | 4.2 | 69.4 | 7.5 | 2.3 |
| Average | 1508 | 0.42 | 83.3 | 1.16 | 31.2 | 4.2 | 70.7 | 7.1 | 1.9 |
| LSD at 10% | NS[2] | 0.02 | NS | 0.06 | NS | 0.6 | 3.6 | 0.8 | NS |
| CV % | 15 | | | | | | | | |

# Plains, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 8, 2017. | | | | |
| Harvested: | November 1, 2017. | | | | |
| Seeding Rate: | 4 seed/ft on 36" rows. | | | | |
| Soil Type: | Faceville sandy loam. | | | | |
| Soil Test: | P = Medium, K = Very High, and pH = 6.3. | | | | |
| Fertilization: | 18 lb N, 47 lb $P_2O_5$, and 0 lb $K_2O$/acre. Sidedress: 80 lb N/acre. | | | | |
| Previous Crop: | Soybeans. | | | | |
| Management: | Disked, subsoiled/bedded, rototilled, and cultivated; Prowl, Reflex, Staple, MSMA, Diuron, and Envoke used for weed control; Bidrin, Bifenthrin, and Prevathon used for insect control; Mepiquat Chloride used for PGR; Folex, Ethephon, and Thidiazuron used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Irrigation (in): | Total of 5.33 in. | | | | |
| Rainfall (in): | 6.17 | 6.95 | 5.96 | 3.18 | 4.70 |

Trials conducted by W. Jones, D. Pearce, D. Dunn, R. Brooke, and M. Cofield.

# Tifton, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| DP 1646 B2XF | **1519** | 0.41 | 84.2 | 1.19 | 32.8 | 4.4 | 78.8 | 8.3 | 0.3 |
| AMX 1712 B2XF | **1467** | 0.41 | 83.0 | 1.17 | 31.9 | 4.5 | 79.3 | 8.2 | 0.2 |
| DP 1553 B2XF | **1416** | 0.41 | 83.8 | 1.17 | 31.3 | 4.6 | 78.7 | 8.7 | 0.2 |
| AMX 1711 B2XF | **1404** | 0.40 | 83.8 | 1.17 | 33.1 | 4.5 | 80.8 | 8.3 | 0.2 |
| PX3A99W3FE | **1395** | 0.39 | 83.4 | 1.14 | 31.1 | 4.5 | 78.9 | 8.7 | 0.3 |
| ST 5517 GLTP | **1391** | 0.38 | 81.7 | 1.15 | 31.2 | 4.2 | 77.6 | 7.9 | 0.3 |
| PX3A96W3FE | **1384** | 0.38 | 83.1 | 1.15 | 31.7 | 4.6 | 78.5 | 8.1 | 0.4 |
| GA 2011113 | **1372** | 0.38 | 83.5 | 1.18 | 33.7 | 4.4 | 77.2 | 7.6 | 0.5 |
| AMX 1713 B2XF | **1371** | 0.40 | 82.5 | 1.17 | 32.2 | 4.4 | 79.6 | 8.2 | 0.2 |
| DP 1555 B2RF | **1370** | 0.41 | 83.2 | 1.14 | 33.3 | 4.5 | 79.6 | 8.4 | 0.3 |
| PHY 312 WRF | **1364** | 0.37 | 83.6 | 1.13 | 31.6 | 4.7 | 78.8 | 8.3 | 0.3 |
| NG 5007 B2XF | **1364** | 0.40 | 82.4 | 1.13 | 29.3 | 4.5 | 79.8 | 8.6 | 0.2 |
| PHY 444 WRF | **1353** | 0.40 | 84.6 | 1.23 | 32.9 | 4.0 | 80.1 | 8.2 | 0.2 |
| ST 6182GLT | 1326 | 0.42 | 82.9 | 1.14 | 30.3 | 4.7 | 79.3 | 8.4 | 0.2 |
| GA 2013114 | 1321 | 0.39 | 83.6 | 1.19 | 33.1 | 4.4 | 77.4 | 8.2 | 0.4 |
| PX4A62W3FE | 1320 | 0.39 | 83.5 | 1.18 | 35.2 | 4.0 | 78.5 | 8.7 | 0.4 |
| CG 9608 B3XF | 1318 | 0.42 | 82.7 | 1.14 | 31.4 | 4.5 | 75.1 | 8.9 | 0.5 |
| PX5B76W3FE | 1307 | 0.37 | 83.1 | 1.13 | 32.9 | 4.4 | 79.3 | 8.3 | 0.3 |
| PX3A82W3FE | 1289 | 0.37 | 84.3 | 1.14 | 33.4 | 4.2 | 78.2 | 8.4 | 0.6 |
| GA 2012141 | 1288 | 0.39 | 84.0 | 1.19 | 33.1 | 4.3 | 79.6 | 8.1 | 0.3 |
| AMX 1710 B2XF | 1279 | 0.37 | 82.9 | 1.12 | 32.3 | 4.5 | 78.2 | 8.7 | 0.3 |
| PHY 300 W3FE | 1278 | 0.40 | 83.1 | 1.13 | 30.9 | 4.6 | 76.5 | 9.3 | 0.3 |
| DG 3605 B2XF | 1278 | 0.41 | 83.0 | 1.20 | 31.6 | 4.6 | 81.3 | 7.9 | 0.4 |
| PX4A54W3FE | 1278 | 0.39 | 83.5 | 1.13 | 32.9 | 4.5 | 76.3 | 9.4 | 0.2 |
| DG 3757 B2XF | 1275 | 0.41 | 83.3 | 1.11 | 29.5 | 4.6 | 79.0 | 8.8 | 0.3 |
| ST 5020 GLT | 1275 | 0.39 | 83.7 | 1.19 | 34.0 | 4.4 | 77.4 | 7.8 | 0.4 |
| DG 1602 GLT | 1269 | 0.40 | 83.2 | 1.15 | 31.8 | 5.0 | 80.2 | 8.3 | 0.3 |
| PX4A52W3FE | 1266 | 0.39 | 84.1 | 1.14 | 32.6 | 4.4 | 79.3 | 8.9 | 0.3 |
| PX5B73W3FE | 1251 | 0.38 | 83.6 | 1.15 | 33.0 | 4.6 | 79.7 | 8.2 | 0.3 |
| DP 1538 B2XF | 1243 | 0.40 | 82.9 | 1.09 | 29.1 | 4.8 | 79.4 | 8.4 | 0.2 |
| PHY 450 W3FE | 1242 | 0.39 | 83.8 | 1.14 | 34.1 | 5.2 | 70.8 | 4.5 | 0.3 |
| DP 1747NR B2XF | 1241 | 0.42 | 82.4 | 1.09 | 32.5 | 5.1 | 78.8 | 8.7 | 0.3 |
| PX4A57W3FE | 1241 | 0.40 | 82.8 | 1.08 | 31.9 | 4.5 | 77.5 | 9.3 | 0.4 |
| ST 4848GLT | 1232 | 0.40 | 83.3 | 1.13 | 31.4 | 4.6 | 77.4 | 8.5 | 0.3 |
| DP 1725 B2XF | 1227 | 0.42 | 82.5 | 1.13 | 30.7 | 4.6 | 78.7 | 8.0 | 0.3 |
| PHY 340 W3FE | 1226 | 0.39 | 82.9 | 1.12 | 31.2 | 4.5 | 76.7 | 8.6 | 0.3 |
| DP 1639 B2XF | 1191 | 0.40 | 83.8 | 1.11 | 31.3 | 4.9 | 79.0 | 8.7 | 0.2 |
| GA 230 | 1186 | 0.38 | 83.8 | 1.19 | 32.9 | 4.4 | 80.0 | 7.8 | 0.3 |
| ST 5115GLT | 1182 | 0.39 | 82.7 | 1.13 | 32.4 | 4.2 | 79.5 | 8.2 | 0.5 |
| ST 4949GLT | 1180 | 0.41 | 82.3 | 1.10 | 31.0 | 4.5 | 77.7 | 8.7 | 0.3 |
| PX2A28W3FE | 1167 | 0.37 | 83.6 | 1.19 | 33.5 | 4.1 | 78.4 | 8.1 | 0.4 |
| PX5A57W3FE | 1162 | 0.38 | 83.4 | 1.16 | 32.7 | 4.4 | 79.7 | 8.0 | 0.2 |
| NG 4601 B2XF | 1141 | 0.40 | 84.3 | 1.15 | 32.3 | 4.8 | 80.7 | 8.0 | 0.3 |
| PHY 490 W3FE | 1058 | 0.39 | 84.0 | 1.14 | 35.3 | 4.8 | 78.9 | 8.4 | 0.3 |
| PHY 330 W3FE | 1048 | 0.39 | 83.4 | 1.14 | 33.6 | 4.3 | 78.4 | 8.5 | 0.4 |
| BRS 293 | 586 | 0.38 | 83.5 | 1.14 | 34.5 | 4.7 | 77.0 | 9.2 | 0.2 |
| Average | 1268 | 0.39 | 83.3 | 1.15 | 32.2 | 4.5 | 78.5 | 8.3 | 0.3 |
| LSD at 10% | 166 | 0.01 | 1.5 | 1.68 | 1.8 | 0.3 | 3.2 | NS[2] | 0.1 |
| CV % | 11.2 | | | | | | | | |

# Tifton, Georgia:
# Later Maturity Cotton Variety Performance, 2017, Irrigated (Continued)

* Percent lint fractions were determined from plot seed cotton ginned in the MicroGin located on the UGA Tifton campus. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 3, 2017. |
| Harvested: | October 6, 2017. |
| Seeding Rate: | 4 seed/foot in 36" rows. |
| Soil Type: | Tifton sandy loam. |
| Soil Test: | P = High, K = Medium, and pH = 6.2. |
| Fertilization: | 25 lb N, 70 lb $P_2O_5$, and 60 lb $K_2O$/acre. Sidedress: 75 lb N and 30 lb $K_2O$/acre. |
| Previous Crop: | Peanuts. |
| Management: | Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Diuron, MSMA, and Envoke used for weed control; Knack, Beseige, Courier, and Karate Z used for insect control; Prep, Folex, and Dropp used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 0.50 | 0 | 0 | 2.00 | 0 |
| Rainfall (in): | 2.45 | 9.66 | 4.00 | 2.26 | 4.03 |

Trials conducted by S. Willis, R. Brooke, D. Dunn, and M. Cofield.

# Yield Summary of Later Maturity Cotton Varieties at Four Locations[1], 2017, Irrigated

| Variety | 2016 Lint Yield[2] | 2017 Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[3] | | HVI Trash |
| | | | | | | | | Rd Color | +B Color | |
| | lb/acre | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| DP 1646 B2XF | **1723** | **1639** | 0.44 | 83.7 | 1.19 | 30.6 | 4.4 | 74.4 | 6.9 | 1.0 |
| GA 2011113 | . | **1556** | 0.43 | 83.6 | 1.16 | 32.7 | 4.4 | 73.6 | 6.8 | 1.4 |
| DP 1555 B2RF | **1705** | **1549** | 0.44 | 83.5 | 1.14 | 31.8 | 4.4 | 75.6 | 7.1 | 1.0 |
| DG 3605 B2XF | . | **1537** | 0.44 | 83.3 | 1.19 | 30.6 | 4.5 | 75.3 | 7.0 | 1.2 |
| DP 1639 B2XF | 1535 | **1525** | 0.44 | 83.7 | 1.11 | 31.3 | 4.7 | 73.6 | 7.3 | 1.0 |
| AMX 1712 B2XF | . | **1521** | 0.43 | 83.2 | 1.17 | 31.1 | 4.4 | 75.0 | 7.3 | 1.1 |
| ST 6182GLT | **1663** | **1520** | 0.45 | 82.6 | 1.12 | 30.4 | 4.6 | 74.4 | 7.5 | 0.7 |
| PX3A82W3FE | . | **1513** | 0.42 | 84.0 | 1.12 | 32.5 | 4.5 | 74.1 | 7.1 | 1.2 |
| PHY 340 W3FE | . | **1502** | 0.43 | 83.3 | 1.13 | 31.6 | 4.5 | 72.7 | 7.5 | 1.0 |
| DP 1553 B2XF | 1302 | **1499** | 0.43 | 83.7 | 1.17 | 30.0 | 4.4 | 74.4 | 7.6 | 0.8 |
| AMX 1711 B2XF | . | **1487** | 0.43 | 83.1 | 1.17 | 31.0 | 4.5 | 75.7 | 7.3 | 0.9 |
| DP 1538 B2XF | **1606** | **1476** | 0.43 | 83.0 | 1.11 | 28.8 | 4.6 | 74.1 | 7.3 | 1.0 |
| PHY 444 WRF | **1673** | **1474** | 0.43 | 84.6 | 1.18 | 32.9 | 4.1 | 74.6 | 7.6 | 1.1 |
| AMX 1710 B2XF | . | **1471** | 0.42 | 82.9 | 1.12 | 31.2 | 4.4 | 74.8 | 7.7 | 0.8 |
| DG 1602 GLT | . | **1471** | 0.43 | 83.3 | 1.15 | 31.2 | 4.6 | 73.6 | 7.2 | 1.1 |
| ST 4949GLT | 1387 | **1469** | 0.43 | 82.7 | 1.10 | 30.1 | 4.4 | 73.6 | 7.5 | 1.1 |
| NG 5007 B2XF | **1661** | **1469** | 0.43 | 82.7 | 1.14 | 29.2 | 4.4 | 74.5 | 7.4 | 0.9 |
| DP 1725 B2XF | . | **1466** | 0.44 | 82.9 | 1.13 | 30.4 | 4.4 | 74.3 | 7.2 | 0.8 |
| PX3A96W3FE | . | **1463** | 0.41 | 83.7 | 1.14 | 31.4 | 4.5 | 74.5 | 7.1 | 0.9 |
| PHY 330 W3FE | . | **1455** | 0.43 | 83.4 | 1.14 | 32.2 | 4.3 | 73.1 | 7.6 | 0.9 |
| CG 9608 B3XF | . | **1449** | 0.44 | 83.2 | 1.14 | 31.1 | 4.4 | 72.6 | 7.5 | 1.2 |
| PX4A54W3FE | . | **1444** | 0.43 | 83.9 | 1.13 | 32.3 | 4.5 | 73.4 | 8.0 | 1.0 |
| GA 2012141 | . | **1441** | 0.44 | 83.8 | 1.16 | 31.5 | 4.6 | 75.2 | 7.3 | 0.9 |
| DG 3757 B2XF | 1502 | **1438** | 0.43 | 83.6 | 1.13 | 29.4 | 4.4 | 74.1 | 7.7 | 1.0 |
| AMX 1713 B2XF | . | **1436** | 0.42 | 82.7 | 1.14 | 30.9 | 4.3 | 75.1 | 7.4 | 0.9 |
| DP 1747NR B2XF | . | **1433** | 0.45 | 83.1 | 1.12 | 31.5 | 4.6 | 73.4 | 7.6 | 1.1 |
| GA 2013114 | . | **1432** | 0.43 | 83.4 | 1.18 | 31.9 | 4.4 | 74.3 | 7.3 | 1.0 |
| PX5B76W3FE | . | **1428** | 0.41 | 83.8 | 1.15 | 32.4 | 4.4 | 74.8 | 7.0 | 0.9 |
| PHY 300 W3FE | . | **1423** | 0.44 | 83.3 | 1.11 | 30.2 | 4.5 | 72.7 | 7.7 | 1.0 |
| ST 5020 GLT | . | **1421** | 0.42 | 83.5 | 1.15 | 32.5 | 4.4 | 72.5 | 7.2 | 1.3 |
| PX4A57W3FE | . | **1415** | 0.43 | 82.6 | 1.09 | 31.1 | 4.4 | 73.0 | 8.1 | 1.1 |
| PX5B73W3FE | . | **1405** | 0.42 | 83.8 | 1.14 | 31.5 | 4.5 | 74.6 | 7.2 | 1.3 |
| GA 230 | 1522 | **1403** | 0.41 | 83.2 | 1.17 | 31.6 | 4.4 | 75.0 | 6.9 | 0.9 |
| ST 5517 GLTP | . | **1395** | 0.41 | 82.4 | 1.14 | 31.9 | 4.1 | 75.1 | 7.0 | 0.9 |
| ST 4848GLT | 1456 | **1394** | 0.43 | 83.8 | 1.12 | 31.2 | 4.4 | 73.0 | 7.4 | 1.0 |
| NG 4601 B2XF | . | **1393** | 0.42 | 83.4 | 1.16 | 32.4 | 4.5 | 74.8 | 6.9 | 0.9 |
| PX4A62W3FE | . | **1393** | 0.44 | 83.4 | 1.16 | 33.9 | 4.2 | 73.8 | 7.7 | 1.1 |
| PHY 490 W3FE | . | **1381** | 0.44 | 83.7 | 1.12 | 33.6 | 4.6 | 74.1 | 7.4 | 1.2 |
| PHY 450 W3FE | . | **1362** | 0.42 | 83.5 | 1.13 | 33.3 | 4.8 | 69.6 | 6.6 | 1.4 |
| PX4A52W3FE | . | **1361** | 0.43 | 83.6 | 1.14 | 32.0 | 4.3 | 74.6 | 7.6 | 1.1 |
| PX3A99W3FE | . | **1352** | 0.42 | 83.3 | 1.13 | 31.1 | 4.5 | 73.9 | 7.6 | 1.0 |
| PHY 312 WRF | . | **1350** | 0.41 | 83.3 | 1.14 | 31.5 | 4.5 | 73.6 | 7.1 | 1.0 |
| ST 5115GLT | **1662** | **1346** | 0.41 | 83.0 | 1.13 | 31.7 | 4.2 | 75.4 | 6.7 | 1.3 |
| PX2A28W3FE | . | **1325** | 0.42 | 83.4 | 1.16 | 32.8 | 4.3 | 74.3 | 7.2 | 1.1 |
| PX5A57W3FE | . | **1297** | 0.42 | 83.8 | 1.14 | 31.5 | 4.4 | 74.6 | 7.2 | 1.0 |
| BRS 293 | 1406 | **1218** | 0.41 | 83.4 | 1.15 | 34.1 | 4.6 | 73.9 | 8.2 | 0.9 |
| Average | 1580 | 1439 | 0.43 | 83.4 | 1.14 | 31.5 | 4.4 | 74.1 | 7.3 | 1.0 |
| LSD at 10% | 161 | NS[4] | 0.02 | 0.8 | 0.03 | 1.3 | NS | NS | NS | NS |
| CV % | 10.2 | 21.6 | | | | | | | | |

## Yield Summary of Later Maturity Cotton Varieties at Four Locations[1], 2017, Irrigated (Continued)

1. Bainbridge, Midville, Plains, and Tifton.
2. The average, LSD, CV, and bolding for the 2016 yield column reflect the 2016 tests as a whole and are not limited to the varieties listed in the column.
3. Color grade: composed of Rd (reflectance) and +B (yellowness).
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

# Midville, Georgia:
# Cotton Strains Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PHY 444 WRF | **2229** | 0.49 | 84.8 | 1.23 | 31.2 | 3.7 | 73.5 | 7.1 | 1.7 |
| GA 2015072 | **2005** | 0.45 | 84.3 | 1.19 | 32.2 | 4.4 | 71.2 | 6.6 | 1.9 |
| CPS 1702 GLT | **1976** | 0.43 | 82.2 | 1.12 | 29.0 | 3.9 | 69.0 | 6.6 | 2.3 |
| 16R338 B3XF | 1950 | 0.47 | 83.3 | 1.17 | 31.0 | 4.2 | 71.5 | 7.2 | 2.1 |
| GA 2015024 | 1920 | 0.45 | 83.4 | 1.17 | 30.0 | 4.2 | 72.9 | 7.4 | 1.4 |
| GA 2015007 | 1906 | 0.42 | 84.1 | 1.21 | 31.4 | 4.6 | 72.6 | 7.6 | 1.0 |
| 16R353 B3XF | 1869 | 0.49 | 84.5 | 1.16 | 31.8 | 4.1 | 71.2 | 7.5 | 1.8 |
| CPS 161206D | 1770 | 0.46 | 85.5 | 1.22 | 33.8 | 4.6 | 71.2 | 7.4 | 1.4 |
| CPS 16033 B2XF | 1770 | 0.41 | 83.3 | 1.11 | 29.5 | 4.3 | 65.3 | 7.3 | 1.8 |
| GA 2015041 | 1765 | 0.41 | 84.2 | 1.18 | 34.1 | 4.5 | 72.7 | 6.8 | 1.2 |
| 16R351 B3XF | 1729 | 0.46 | 84.3 | 1.21 | 33.5 | 3.7 | 72.5 | 7.1 | 1.9 |
| CPS 17228NR B2XF | 1707 | 0.44 | 84.2 | 1.17 | 31.3 | 4.3 | 69.9 | 7.6 | 1.8 |
| 16R343 B3XF | 1646 | 0.43 | 83.2 | 1.21 | 31.1 | 3.7 | 73.2 | 7.3 | 1.8 |
| GA 2015092 | 1640 | 0.42 | 84.5 | 1.18 | 32.0 | 4.7 | 70.1 | 7.4 | 1.3 |
| CPS 17330 B3XF | 1607 | 0.48 | 83.5 | 1.13 | 30.8 | 4.9 | 72.4 | 7.8 | 1.2 |
| CPS 16214 B2XF | 1593 | 0.41 | 84.1 | 1.17 | 29.5 | 4.6 | 69.4 | 7.0 | 2.0 |
| NG 3522 B2XF | 1541 | 0.41 | 82.0 | 1.08 | 27.4 | 4.3 | 72.1 | 7.3 | 1.6 |
| CPS 1703 GLT | 1434 | 0.44 | 83.4 | 1.15 | 30.2 | 4.4 | 69.9 | 6.9 | 2.1 |
| Average | 1781 | 0.44 | 83.8 | 1.17 | 31.1 | 4.3 | 71.1 | 7.2 | 1.7 |
| LSD at 10% | 265 | 0.02 | 1.1 | 0.05 | 1.9 | 0.3 | NS[2] | 0.6 | NS |
| CV % | 12.6 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 11, 2017. |
| Harvested: | October 18, 2017. |
| Seeding Rate: | 4 seeds/foot in 36" rows. |
| Soil Type: | Dothan loamy sand. |
| Soil Test: | P = Medium, K = Medium, and pH = 6.2. |
| Fertilization: | 60 lb N, 90 lb $P_2O_5$, and 80 lb $K_2O$/acre. Sidedress: 70 lb N/acre. |
| Previous Crop: | Peanuts (Spanish and Runner types). |
| Management: | Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Liberty, Diuron, Reflex, Staple, Envoke, and MSMA used for weed control; Acephate, Prevathon, Bidrin, and Bifenthrin used for insect control; Boron used boll retention; Mepiquat used for PGR; Ethephon, Dropp, and Def used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 1.20 | 1.25 | 2.75 | 3.75 | 4.32 |
| Rainfall (in): | 4.35 | 7.92 | 5.42 | 4.32 | 6.48 |

Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

# Plains, Georgia:
# Cotton Strains Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PHY 444 WRF | **1593** | 0.45 | 84.2 | 1.14 | 29.6 | 4.9 | 65.1 | 8.3 | 1.0 |
| CPS 161206D | **1587** | 0.47 | 83.8 | 1.17 | 32.9 | 4.3 | 70.1 | 7.0 | 2.0 |
| 16R343 B3XF | **1586** | 0.48 | 82.7 | 1.19 | 31.9 | 4.2 | 71.0 | 6.9 | 1.6 |
| GA 2015092 | **1579** | 0.45 | 84.6 | 1.21 | 31.7 | 4.4 | 70.9 | 6.7 | 2.1 |
| 16R338 B3XF | **1548** | 0.44 | 83.8 | 1.17 | 33.0 | 4.5 | 68.4 | 7.1 | 1.9 |
| 16R353 B3XF | **1527** | 0.44 | 81.8 | 1.13 | 30.7 | 4.2 | 70.1 | 7.0 | 1.5 |
| GA 2015007 | **1520** | 0.44 | 82.7 | 1.14 | 29.3 | 4.6 | 66.0 | 7.4 | 2.4 |
| CPS 16033 B2XF | **1500** | 0.44 | - | - | 30.1 | 4.5 | 69.8 | 8.3 | 1.7 |
| CPS 17330 B3XF | **1495** | 0.42 | 83.0 | 1.18 | 32.8 | 4.3 | 71.8 | 7.3 | 1.2 |
| CPS 17228NR B2XF | **1473** | 0.44 | 83.8 | 1.15 | 32.5 | 4.7 | 69.1 | 7.5 | 2.0 |
| GA 2015072 | **1447** | 0.44 | 83.2 | 1.14 | 31.2 | 4.7 | 71.2 | 7.6 | 1.4 |
| CPS 16214 B2XF | **1430** | 0.46 | 84.0 | 1.18 | 32.2 | 4.3 | 71.7 | 6.8 | 1.3 |
| CPS 1703 GLT | **1422** | 0.42 | 84.1 | 1.20 | 34.4 | 4.6 | 71.7 | 7.9 | 1.4 |
| GA 2015024 | **1420** | 0.43 | 83.1 | 1.14 | 30.1 | 4.4 | 69.8 | 7.0 | 1.8 |
| NG 3522 B2XF | **1419** | 0.45 | 84.8 | 1.23 | 33.0 | 4.0 | 69.0 | 7.0 | 1.3 |
| CPS 1702 GLT | **1413** | 0.47 | 82.9 | 1.18 | 32.6 | 4.4 | 68.7 | 6.8 | 1.8 |
| GA 2015041 | **1340** | 0.40 | 82.2 | 1.17 | 32.0 | 3.9 | 70.7 | 6.8 | 0.7 |
| 16R351 B3XF | **1305** | 0.44 | 85.3 | 1.25 | 32.9 | 4.2 | 72.5 | 7.1 | 1.3 |
| Average | 1478 | 0.44 | 83.5 | 1.17 | 31.8 | 4.4 | 69.8 | 7.2 | 1.6 |
| LSD at 10% | NS[2] | 0.02 | NS | NS | NS | NS | NS | NS | NS |
| CV % | 13.8 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 8, 2017. | | | | |
| Harvested: | November 1, 2017. | | | | |
| Seeding Rate: | 4 seed/ft on 36" rows. | | | | |
| Soil Type: | Faceville sandy loam. | | | | |
| Soil Test: | P = Medium, K = Very High, and pH = 6.3. | | | | |
| Fertilization: | 18 lb N, 47 lb $P_2O_5$, and 0 lb $K_2O$/acre. Sidedress: 80 lb N/acre. 1000 lb/ac dolomitic lime. | | | | |
| Previous Crop: | Soybeans. | | | | |
| Management: | Disked, subsoiled/bedded, rototilled, and cultivated; Prowl, Reflex, Staple, MSMA, Diuron, and Envoke used for weed control; Bidrin, Bifenthrin, and Prevathon used for insect control; Mepiquat Chloride used for PGR; Folex, Ethephon, and Thidiazuron used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Irrigation (in): | Total of 5.33 in. | | | | |
| Rainfall (in): | 6.17 | 6.95 | 5.96 | 3.18 | 4.70 |

Trials conducted by W. Jones, D. Pearce, D. Dunn, R. Brooke, and M. Cofield.

# Tifton, Georgia:
# Cotton Strains Performance, 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| GA 2015007 | **1621** | 0.44 | 83.8 | 1.19 | 31.0 | 4.2 | 69.8 | 7.5 | 2.3 |
| PHY 444 WRF | **1566** | 0.47 | 84.7 | 1.25 | 33.5 | 3.9 | 71.8 | 7.4 | 2.5 |
| NG 3522 B2XF | **1558** | 0.42 | 83.1 | 1.11 | 28.3 | 4.6 | 72.1 | 8.1 | 1.9 |
| GA 2015072 | **1519** | 0.46 | 83.4 | 1.15 | 32.4 | 4.6 | 69.9 | 7.9 | 1.7 |
| 16R343 B3XF | **1446** | 0.45 | 84.0 | 1.19 | 31.6 | 4.1 | 70.8 | 7.2 | 2.5 |
| 16R338 B3XF | **1423** | 0.48 | 83.1 | 1.16 | 31.3 | 4.3 | 66.9 | 7.0 | 3.9 |
| CPS 1702 GLT | **1420** | 0.45 | 81.5 | 1.13 | 29.7 | 3.8 | 70.2 | 7.2 | 2.6 |
| CPS 17228NR B2XF | **1406** | 0.47 | 84.2 | 1.14 | 31.6 | 4.4 | 68.2 | 7.4 | 3.1 |
| CPS 161206D | **1343** | 0.46 | 84.6 | 1.19 | 32.9 | 4.7 | 70.2 | 7.9 | 2.4 |
| CPS 17330 B3XF | **1276** | 0.48 | 84.9 | 1.17 | 31.7 | 4.7 | 67.4 | 7.6 | 3.0 |
| 16R351 B3XF | **1266** | 0.45 | 83.7 | 1.19 | 33.3 | 4.3 | 70.2 | 7.5 | 2.5 |
| CPS 16214 B2XF | **1241** | 0.43 | 83.8 | 1.15 | 30.6 | 4.5 | 69.3 | 7.4 | 2.4 |
| GA 2015024 | **1231** | 0.45 | 82.6 | 1.21 | 30.2 | 4.0 | 64.5 | 7.1 | 3.2 |
| GA 2015041 | **1226** | 0.43 | 84.2 | 1.17 | 32.6 | 4.3 | 65.8 | 6.8 | 3.5 |
| CPS 1703 GLT | **1178** | 0.45 | 83.0 | 1.13 | 30.5 | 4.3 | 69.3 | 7.4 | 3.1 |
| 16R353 B3XF | **1169** | 0.46 | 84.6 | 1.17 | 32.2 | 4.7 | 69.8 | 7.6 | 3.0 |
| GA 2015092 | **1104** | 0.43 | 85.4 | 1.21 | 33.1 | 4.6 | 65.9 | 7.7 | 2.8 |
| CPS 16033 B2XF | **1076** | 0.45 | 81.7 | 1.07 | 28.4 | 4.2 | 63.9 | 6.7 | 3.8 |
| Average | 1337 | 0.45 | 83.7 | 1.17 | 31.4 | 4.3 | 68.6 | 7.4 | 2.8 |
| LSD at 10% | NS[2] | 0.02 | 1.4 | 0.03 | 1.5 | 0.3 | NS | 0.6 | NS |
| CV % | 21.6 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 3, 2017.
Harvested: October 5, 2017.
Seeding Rate: 4 seed/foot in 36" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = High, K = Medium, and pH = 6.2.
Fertilization: 25 lb N, 70 lb $P_2O_5$, and 60 lb $K_2O$/acre. Sidedress: 75 lb N and 30 lb $K_2O$/acre.
Previous Crop: Peanuts.
Management: Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Diuron, MSMA, and Envoke used for weed control; Knack, Beseige, Courier, and Karate Z used for insect control; Prep, Folex, and Dropp used for defoliation.

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Irrigation (in): | 0.50 | 0 | 0 | 2.00 | 0 |
| Rainfall (in): | 2.45 | 9.66 | 4.00 | 2.26 | 4.03 |

Trials conducted by S. Willis, R. Brooke, D. Dunn, and M. Cofield.

# Yield Summary of Cotton Strains at Three Locations[1], 2017, Irrigated

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[2] Rd Color | Color Grade[2] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | 2017 Data | | | | | | | | |
| | lb/acre | % | fraction | inches | g/tex | units | grade | grade | % area |
| PHY 444 WRF | **1796** | 0.47 | 84.5 | 1.21 | 31.4 | 4.1 | 70.1 | 7.6 | 1.7 |
| GA 2015007 | **1682** | 0.43 | 83.5 | 1.18 | 30.6 | 4.5 | 69.4 | 7.5 | 1.9 |
| GA 2015072 | **1657** | 0.45 | 83.6 | 1.16 | 31.9 | 4.5 | 70.7 | 7.4 | 1.6 |
| 16R338 B3XF | **1640** | 0.46 | 83.4 | 1.17 | 31.8 | 4.3 | 68.9 | 7.1 | 2.6 |
| CPS 1702 GLT | **1603** | 0.45 | 82.2 | 1.14 | 30.4 | 4.0 | 69.3 | 6.9 | 2.2 |
| CPS 161206D | 1567 | 0.46 | 84.6 | 1.20 | 33.2 | 4.5 | 70.5 | 7.4 | 1.9 |
| 16R343 B3XF | 1559 | 0.45 | 83.3 | 1.19 | 31.5 | 4.0 | 71.6 | 7.1 | 1.9 |
| CPS 17228NR B2XF | 1529 | 0.45 | 84.0 | 1.15 | 31.8 | 4.5 | 69.0 | 7.5 | 2.3 |
| GA 2015024 | 1524 | 0.44 | 83.0 | 1.18 | 30.1 | 4.2 | 69.0 | 7.2 | 2.1 |
| 16R353 B3XF | 1521 | 0.46 | 83.6 | 1.15 | 31.5 | 4.3 | 70.4 | 7.4 | 2.1 |
| NG 3522 B2XF | 1506 | 0.43 | 83.3 | 1.14 | 29.5 | 4.3 | 71.1 | 7.5 | 1.6 |
| CPS 17330 B3XF | 1459 | 0.46 | 83.8 | 1.16 | 31.8 | 4.6 | 70.5 | 7.5 | 1.8 |
| CPS 16033 B2XF | 1449 | 0.44 | 82.6 | 1.10 | 29.3 | 4.3 | 66.3 | 7.2 | 2.4 |
| GA 2015041 | 1444 | 0.41 | 83.8 | 1.18 | 33.1 | 4.3 | 69.5 | 6.8 | 2.0 |
| GA 2015092 | 1441 | 0.43 | 84.8 | 1.20 | 32.2 | 4.6 | 68.9 | 7.2 | 2.0 |
| 16R351 B3XF | 1433 | 0.45 | 84.4 | 1.22 | 33.2 | 4.1 | 71.7 | 7.2 | 1.9 |
| CPS 16214 B2XF | 1421 | 0.43 | 83.9 | 1.17 | 30.8 | 4.4 | 70.1 | 7.0 | 1.9 |
| CPS 1703 GLT | 1344 | 0.44 | 83.5 | 1.16 | 31.7 | 4.4 | 70.3 | 7.4 | 2.2 |
| Average | 1532 | 0.45 | 83.7 | 1.17 | 31.4 | 4.3 | 69.9 | 7.3 | 2.0 |
| LSD at 10% | 211 | 0.02 | 1.0 | 0.04 | 1.5 | 0.3 | NS[3] | NS | NS |
| CV % | 20.4 | | | | | | | | |

1. Midville, Plains, and Tifton.
2. Color grade: composed of Rd (reflectance) and +B (yellowness).
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

# Athens, Georgia:
# Dryland Earlier Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| GA 2011113 | **1826** | 0.45 | 85.3 | 1.19 | 33.0 | 4.7 | 66.5 | 7.8 | 2.8 |
| GA 2013025 | **1766** | 0.45 | 84.5 | 1.17 | 30.8 | 4.8 | 66.2 | 8.0 | 2.5 |
| BRS 286 | **1674** | 0.42 | 83.0 | 1.15 | 31.7 | 4.7 | 66.6 | 8.4 | 1.9 |
| DP 1518 B2XF | 1563 | 0.44 | 84.2 | 1.17 | 29.8 | 4.3 | 65.6 | 7.9 | 2.1 |
| DG 3385 B2XF | 1539 | 0.45 | 84.4 | 1.14 | 29.0 | 4.9 | 66.2 | 8.8 | 2.1 |
| BRS 335 | 1521 | 0.43 | 84.4 | 1.18 | 31.5 | 4.4 | 67.7 | 7.9 | 2.0 |
| GA 2013055 | 1521 | 0.44 | 83.6 | 1.22 | 33.1 | 4.4 | 66.4 | 7.8 | 2.1 |
| GA 2013024 | 1517 | 0.44 | 82.6 | 1.15 | 30.9 | 4.5 | 66.8 | 8.1 | 1.9 |
| NG 3406 B2XF | 1485 | 0.43 | 84.2 | 1.13 | 28.9 | 4.4 | 67.7 | 8.7 | 1.7 |
| SSG UA 222 | 1472 | 0.43 | 83.9 | 1.17 | 29.8 | 4.6 | 64.2 | 7.9 | 3.7 |
| NG 3522 B2XF | 1428 | 0.44 | 82.7 | 1.10 | 26.9 | 4.5 | 69.5 | 8.3 | 2.0 |
| SSG HQ 212 CT | 1420 | 0.42 | 81.9 | 1.12 | 29.2 | 4.5 | 67.3 | 8.0 | 1.9 |
| DG 3526 B2XF | 1410 | 0.43 | 83.7 | 1.13 | 27.3 | 4.5 | 64.8 | 8.6 | 2.2 |
| DP 1725 B2XF | 1408 | 0.46 | 82.6 | 1.15 | 29.0 | 4.6 | 67.6 | 8.3 | 1.7 |
| SSG HQ 210 CT | 1343 | 0.43 | 82.8 | 1.09 | 29.5 | 4.7 | 66.3 | 8.1 | 2.5 |
| DP 1522 B2XF | 1274 | 0.43 | 83.6 | 1.13 | 29.6 | 4.8 | 65.4 | 8.5 | 2.5 |
| Average | 1500 | 0.44 | 83.5 | 1.15 | 29.9 | 4.6 | 66.5 | 8.2 | 2.2 |
| LSD at 10% | 206 | 0.01 | 1.1 | 0.04 | 2.1 | 0.3 | NS[2] | 0.5 | NS |
| CV % | 11.2 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 3, 2017. |
| Harvested: | October 31, 2017. |
| Seeding Rate: | 4 seed/foot in 36" rows. |
| Soil Type: | Wehadkee loam. |
| Soil Test: | P = Low, K = Medium, and pH = 5.3. |
| Fertilization: | 22 lb N, 104 lb $P_2O_5$, and 120 lb $K_2O$/acre. Sidedress: 100 lb N/acre. 2000 lb dolomitic lime. |
| Previous Crop: | Rye cover crop. |
| Management: | Strip tilled; Roundup, Prowl, Reflex, Cotoran, Envoke, Staple, and Poast used for weed control; Pix used for PGR; Folex, Clean Pik, and Superboll used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 2.65 | 5.11 | 4.87 | 4.47 | 3.72 |

Trials conducted by H. Jordan, G. Ware, J. Gassett, K. Roach, J. Griffin, F. Brett, and J. Cartey.

# Midville, Georgia:
# Dryland Earlier Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| BRS 286 | **1823** | 0.44 | 81.3 | 1.11 | 31.8 | 4.2 | 71.4 | 6.6 | 1.2 |
| GA 2011113 | **1774** | 0.49 | 82.9 | 1.14 | 33.0 | 4.4 | 69.0 | 6.3 | 1.0 |
| NG 3406 B2XF | 1532 | 0.43 | 83.5 | 1.11 | 29.9 | 4.6 | 69.4 | 7.2 | 1.5 |
| GA 2013024 | 1492 | 0.41 | 83.0 | 1.21 | 33.1 | 4.4 | 69.7 | 6.8 | 1.7 |
| GA 2013025 | 1491 | 0.42 | 84.4 | 1.14 | 33.2 | 5.0 | 69.5 | 7.1 | 1.7 |
| BRS 335 | 1452 | 0.39 | 82.8 | 1.12 | 30.9 | 4.4 | 72.8 | 6.6 | 0.8 |
| DG 3526 B2XF | 1437 | 0.44 | 83.6 | 1.10 | 28.9 | 4.8 | 69.6 | 7.4 | 1.8 |
| DG 3385 B2XF | 1411 | 0.43 | 84.0 | 1.12 | 30.0 | 4.7 | 69.7 | 7.8 | 1.0 |
| SSG UA 222 | 1387 | 0.36 | 82.4 | 1.14 | 30.6 | 4.5 | 67.3 | 7.1 | 2.0 |
| DP 1725 B2XF | 1321 | 0.46 | 83.1 | 1.10 | 30.4 | 4.8 | 71.8 | 7.1 | 1.1 |
| GA 2013055 | 1300 | 0.42 | 82.3 | 1.16 | 31.4 | 4.8 | 69.3 | 6.6 | 1.3 |
| SSG HQ 210 CT | 1298 | 0.38 | 82.8 | 1.09 | 31.3 | 4.4 | 71.7 | 6.5 | 1.0 |
| DP 1518 B2XF | 1297 | 0.42 | 83.4 | 1.19 | 32.4 | 4.2 | 69.8 | 6.3 | 1.4 |
| DP 1522 B2XF | 1262 | 0.40 | 83.5 | 1.19 | 32.0 | 4.5 | 70.8 | 7.1 | 0.8 |
| NG 3522 B2XF | 1200 | 0.43 | 81.5 | 1.05 | 28.7 | 4.8 | 71.3 | 7.7 | 0.9 |
| SSG HQ 212 CT | 1176 | 0.39 | 82.4 | 1.08 | 30.7 | 4.7 | 72.1 | 7.3 | 0.8 |
| Average | 1416 | 0.42 | 82.9 | 1.13 | 31.1 | 4.6 | 70.3 | 6.9 | 1.2 |
| LSD at 10% | 171 | 0.03 | 1.2 | NS[2] | NS | NS | NS | 0.7 | NS |
| CV % | 10.2 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 11, 2017. |
| Harvested: | October 19, 2017. |
| Seeding Rate: | 4 seeds/foot in 36" rows. |
| Soil Type: | Dothan loamy sand. |
| Soil Test: | P = Low, K = Medium, and pH = 5.9. |
| Fertilization: | 30 lb N, 90 lb $P_2O_5$, and 80 lb $K_2O$/acre. Sidedress: 70 lb N/acre. 1000 lb/acre dolomitic lime. |
| Previous Crop: | Peanuts (Spanish and Runner types). |
| Management: | Disked, field conditioned, and subsoiled/bedded; Liberty, Diuron, Reflex, Staple, Envoke, and MSMA used for weed control; Acephate, Prevathon, Bidrin, and Bifenthrin used for insect control; Telone used for nematode control; Boron used for boll retention; Mepiquat used for PGR; Dropp, Ethephon, and Def used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 4.35 | 7.92 | 5.42 | 4.32 | 6.48 |

Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

# Plains, Georgia:
# Dryland Earlier Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| DP 1725 B2XF | **1649** | 0.47 | 83.4 | 1.15 | 31.4 | 4.2 | 72.5 | 6.5 | 1.4 |
| GA 2013025 | **1577** | 0.45 | 83.5 | 1.17 | 32.3 | 4.5 | 70.2 | 7.1 | 1.6 |
| NG 3522 B2XF | **1564** | 0.44 | 83.4 | 1.11 | 28.6 | 4.5 | 73.6 | 7.7 | 1.2 |
| DP 1522 B2XF | **1507** | 0.41 | 83.0 | 1.16 | 30.1 | 4.5 | 69.8 | 7.0 | 1.3 |
| DP 1518 B2XF | **1500** | 0.44 | 84.4 | 1.17 | 30.3 | 4.2 | 72.5 | 6.8 | 1.4 |
| BRS 335 | **1496** | 0.43 | 83.6 | 1.21 | 33.1 | 4.0 | 73.8 | 6.8 | 1.3 |
| SSG HQ 212 CT | **1488** | 0.42 | 84.6 | 1.15 | 29.8 | 4.5 | 72.9 | 6.5 | 1.3 |
| BRS 286 | **1484** | 0.43 | 82.9 | 1.17 | 33.4 | 3.9 | 72.5 | 6.9 | 1.4 |
| GA 2013024 | **1472** | 0.46 | 83.8 | 1.19 | 31.3 | 4.3 | 72.1 | 6.9 | 1.7 |
| DG 3385 B2XF | **1470** | 0.40 | 83.9 | 1.13 | 28.2 | 4.6 | 69.5 | 8.0 | 0.9 |
| GA 2011113 | **1405** | 0.47 | 85.4 | 1.19 | 32.2 | 4.7 | 68.9 | 6.6 | 2.0 |
| GA 2013055 | **1343** | 0.46 | 84.2 | 1.23 | 32.3 | 4.5 | 69.3 | 6.8 | 2.4 |
| DG 3526 B2XF | **1309** | 0.44 | 84.2 | 1.14 | 28.2 | 4.6 | 70.7 | 6.8 | 1.9 |
| SSG HQ 210 CT | **1298** | 0.42 | 82.6 | 1.12 | 29.4 | 4.5 | 72.5 | 6.4 | 1.5 |
| NG 3406 B2XF | **1290** | 0.42 | 85.1 | 1.13 | 30.2 | 4.5 | 71.2 | 7.0 | 1.7 |
| SSG UA 222 | **1283** | 0.44 | 84.1 | 1.21 | 31.1 | 4.8 | 69.4 | 7.5 | 2.0 |
| Average | 1446 | 0.44 | 83.9 | 1.16 | 30.7 | 4.4 | 71.3 | 6.9 | 1.6 |
| LSD at 10% | NS[2] | 0.02 | NS | 0.06 | 1.7 | NS | 2.9 | 0.6 | NS |
| CV % | 16.3 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 8, 2017. |
| Harvested: | November 2, 2017. |
| Seeding Rate: | 4 seed/ft on 36" rows. |
| Soil Type: | Greenville sandy clay loam. |
| Soil Test: | P = Medium, K = Very High, and pH = 6.3. |
| Fertilization: | 18 lb N, 47 lb $P_2O_5$, and 0 lb $K_2O$/acre. Sidedress: 80 lb N/acre. 1000 lb/acre dolomitic lime. |
| Previous Crop: | Grain sorghum. |
| Management: | Disked, subsoiled/bedded, and rototilled; Prowl, Reflex, Staple, MSMA, Diuron, and Envoke used for weed control; Bidrin, Prevathon, and Bifenthrin,used for insect control; Mepiquat Chloride used for PGR; Folex, Ethephon, and Thidiazuron used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 6.17 | 6.95 | 5.96 | 3.18 | 4.70 |

Trials conducted by W. Jones, D. Pearce, D. Dunn, R. Brooke, and M. Cofield.

# Tifton, Georgia:
# Dryland Earlier Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| BRS 286 | **1213** | 0.42 | 84.1 | 1.14 | 33.2 | 4.8 | 70.9 | 6.7 | 1.5 |
| GA 2013024 | **1141** | 0.42 | 84.1 | 1.17 | 32.1 | 4.5 | 69.7 | 6.2 | 2.3 |
| GA 2013055 | **1109** | 0.41 | 83.4 | 1.13 | 32.8 | 4.5 | 69.2 | 6.6 | 2.0 |
| GA 2013025 | **1087** | 0.42 | 84.0 | 1.18 | 33.9 | 4.6 | 72.1 | 6.5 | 1.6 |
| NG 3522 B2XF | **1078** | 0.42 | 83.2 | 1.07 | 30.5 | 4.6 | 71.1 | 7.4 | 1.9 |
| NG 3406 B2XF | **1066** | 0.41 | 84.4 | 1.12 | 29.3 | 4.7 | 68.4 | 7.0 | 1.3 |
| DG 3385 B2XF | **1066** | 0.42 | 84.2 | 1.12 | 29.2 | 4.9 | 71.0 | 7.2 | 1.8 |
| BRS 335 | 1043 | 0.41 | 83.9 | 1.16 | 32.8 | 4.3 | 72.8 | 6.7 | 1.3 |
| DP 1522 B2XF | 994 | 0.40 | 84.0 | 1.15 | 31.4 | 4.8 | 69.0 | 6.7 | 2.5 |
| GA 2011113 | 965 | 0.43 | 84.1 | 1.15 | 34.4 | 4.6 | 72.4 | 6.2 | 1.4 |
| DG 3526 B2XF | 956 | 0.45 | 83.9 | 1.10 | 28.9 | 4.8 | 69.9 | 6.7 | 2.5 |
| SSG UA 222 | 951 | 0.43 | 83.9 | 1.18 | 30.5 | 5.0 | 67.5 | 6.3 | 2.6 |
| DP 1725 B2XF | 941 | 0.44 | 83.8 | 1.12 | 31.3 | 4.3 | 70.7 | 6.5 | 2.1 |
| SSG HQ 210 CT | 913 | 0.38 | 83.1 | 1.13 | 32.4 | 4.7 | 71.7 | 6.6 | 1.9 |
| DP 1518 B2XF | 785 | 0.42 | 84.9 | 1.15 | 31.5 | 4.3 | 70.4 | 6.8 | 2.0 |
| SSG HQ 212 CT | 774 | 0.39 | 82.8 | 1.11 | 31.4 | 4.7 | 70.5 | 6.7 | 2.1 |
| Average | 1005 | 0.42 | 83.8 | 1.14 | 31.6 | 4.6 | 70.4 | 6.7 | 1.9 |
| LSD at 10% | 164 | 0.01 | NS[2] | 0.03 | 2.0 | NS | NS | 0.4 | NS |
| CV % | 13.8 | | | | | | | | |

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | May 2, 2017; replant May 22, 2017. |
| Harvested: | November 13, 2017. |
| Seeding Rate: | 4 seed/ft on 36" rows. |
| Soil Type: | Tifton sandy loam. |
| Soil Test: | P = Medium, K = Medium, and pH = 6.1. |
| Fertilization: | 25 lb N, 70 lb $P_2O_5$, and 60 lb $K_2O$/acre. Sidedress: 75 lb N and 30 lb $K_2O$/acre. |
| Previous Crop: | Peanuts. |
| Management: | Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Diuron, MSMA, and Envoke used for weed control; Knack, Beseige, Courier, and Karate Z used for insect control; Prep, Folex, and Dropp used for defoliation. |

| | May | June | July | Aug. | Sept. |
|---|---|---|---|---|---|
| Rainfall (in): | 2.45 | 9.66 | 4.00 | 2.26 | 4.03 |

Trials conducted by S. Willis, R. Brooke, D. Dunn, and M. Cofield.

# Yield Summary of Dryland Earlier Maturity Cotton Varieties at Four Locations[1], 2017

| Variety | 2016 Lint Yield[2] | 2017 Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[3] | | HVI Trash |
| | | | | | | | | Rd Color | +B Color | |
| | lb/acre | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| BRS 286 | 960 | **1549** | 0.43 | 82.8 | 1.14 | 32.5 | 4.4 | 70.3 | 7.1 | 1.5 |
| GA 2013025 | . | **1480** | 0.43 | 84.1 | 1.16 | 32.5 | 4.7 | 69.5 | 7.1 | 1.8 |
| GA 2011113 | 961 | **1445** | 0.46 | 84.3 | 1.16 | 33.1 | 4.6 | 69.6 | 6.5 | 1.6 |
| GA 2013024 | . | **1405** | 0.43 | 83.4 | 1.18 | 31.8 | 4.4 | 69.6 | 7.0 | 1.9 |
| BRS 335 | 1003 | **1378** | 0.42 | 83.6 | 1.17 | 32.1 | 4.3 | 71.8 | 7.0 | 1.3 |
| DG 3385 B2XF | . | 1372 | 0.42 | 84.1 | 1.13 | 29.1 | 4.8 | 69.1 | 7.9 | 1.5 |
| NG 3406 B2XF | 991 | 1343 | 0.42 | 84.3 | 1.12 | 29.6 | 4.5 | 69.1 | 7.5 | 1.5 |
| DP 1725 B2XF | . | 1330 | 0.46 | 83.2 | 1.13 | 30.5 | 4.4 | 70.6 | 7.1 | 1.6 |
| GA 2013055 | . | 1318 | 0.43 | 83.4 | 1.18 | 32.4 | 4.5 | 68.6 | 6.9 | 1.9 |
| NG 3522 B2XF | 930 | 1318 | 0.43 | 82.7 | 1.08 | 28.7 | 4.6 | 71.3 | 7.8 | 1.5 |
| DP 1518 B2XF | . | 1286 | 0.43 | 84.2 | 1.17 | 31.0 | 4.2 | 69.6 | 7.0 | 1.7 |
| DG 3526 B2XF | 1026 | 1278 | 0.44 | 83.8 | 1.12 | 28.3 | 4.7 | 68.7 | 7.4 | 2.1 |
| SSG UA 222 | 1004 | 1273 | 0.42 | 83.6 | 1.17 | 30.5 | 4.7 | 67.1 | 7.2 | 2.5 |
| DP 1522 B2XF | 991 | 1259 | 0.41 | 83.5 | 1.16 | 30.8 | 4.6 | 68.7 | 7.3 | 1.8 |
| SSG HQ 212 CT | 1082 | 1215 | 0.41 | 82.9 | 1.11 | 30.3 | 4.6 | 70.7 | 7.1 | 1.5 |
| SSG HQ 210 CT | 977 | 1213 | 0.40 | 82.8 | 1.10 | 30.6 | 4.5 | 70.6 | 6.9 | 1.7 |
| Average | 1013 | 1341 | 0.43 | 83.5 | 1.14 | 30.9 | 4.5 | 69.7 | 7.2 | 1.7 |
| LSD at 10% | 121 | 172 | 0.01 | 0.8 | 0.03 | 1.1 | 0.2 | 2.2 | 0.6 | 0.5 |
| CV % | 12.1 | 21.9 | | | | | | | | |

1. Athens, Midville, Plains, and Tifton.
2. The average, LSD, CV, and bolding for the 2016 yield column reflect the 2016 tests as a whole and are not limited to the varieties listed in the column.
3. Color grade: composed of Rd (reflectance) and +B (yellowness).

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10). The top performing entry in 2016 and those within its LSD range were not tested in 2017. Therefore, no entries in the 2016 column are bolded.

# Athens, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PX3A99W3FE | **1672** | 0.47 | 83.8 | 1.15 | 29.5 | 4.8 | 62.7 | 8.7 | 2.9 |
| DP 1646 B2XF | **1624** | 0.44 | 83.4 | 1.24 | 29.5 | 4.4 | 66.5 | 7.7 | 2.7 |
| GA 2012141 | **1597** | 0.43 | 82.9 | 1.20 | 29.3 | 4.3 | 64.6 | 8.0 | 2.5 |
| DP 1555 B2RF | **1531** | 0.46 | 83.2 | 1.17 | 29.7 | 4.4 | 63.2 | 8.0 | 3.1 |
| PX4A57W3FE | **1518** | 0.45 | 83.1 | 1.09 | 27.7 | 4.5 | 62.7 | 8.4 | 3.8 |
| PX4A52W3FE | **1507** | 0.44 | 84.3 | 1.14 | 29.3 | 4.3 | 62.5 | 7.8 | 3.9 |
| ST 6182GLT | **1491** | 0.48 | 83.0 | 1.13 | 28.2 | 4.4 | 64.3 | 7.8 | 2.6 |
| PHY 444 WRF | **1428** | 0.46 | 83.8 | 1.26 | 32.2 | 4.1 | 62.6 | 8.0 | 3.3 |
| PHY 340 W3FE | **1416** | 0.46 | 83.0 | 1.12 | 28.9 | 4.5 | 61.8 | 8.4 | 3.5 |
| PX5B73W3FE | **1412** | 0.45 | 82.9 | 1.12 | 29.3 | 4.2 | 66.7 | 7.5 | 2.9 |
| ST 5517 GLTP | **1408** | 0.42 | 82.9 | 1.17 | 30.4 | 4.0 | 67.7 | 8.3 | 1.9 |
| ST 4848GLT | **1407** | 0.45 | 82.6 | 1.15 | 29.8 | 4.3 | 58.5 | 8.1 | 4.5 |
| GA 2011113 | **1393** | 0.43 | 83.8 | 1.19 | 33.0 | 4.2 | 65.3 | 7.9 | 3.1 |
| DP 1639 B2XF | **1357** | 0.44 | 84.2 | 1.15 | 30.8 | 4.5 | 61.7 | 8.4 | 3.8 |
| PX4A54W3FE | **1355** | 0.45 | 83.3 | 1.12 | 30.2 | 5.0 | 59.8 | 9.3 | 3.5 |
| DP 1538 B2XF | **1350** | 0.46 | 83.3 | 1.10 | 28.4 | 4.8 | 67.8 | 8.0 | 1.9 |
| AMX 1710 B2XF | **1347** | 0.44 | 82.8 | 1.15 | 31.9 | 4.7 | 62.1 | 8.9 | 2.7 |
| PX5B76W3FE | **1344** | 0.44 | 81.9 | 1.15 | 29.8 | 4.2 | 63.8 | 8.0 | 3.5 |
| CG 9608 B3XF | 1329 | 0.48 | 82.2 | 1.14 | 29.4 | 4.4 | 64.8 | 8.3 | 2.2 |
| PHY 300 W3FE | 1315 | 0.46 | 82.4 | 1.14 | 28.6 | 4.5 | 65.5 | 8.7 | 2.3 |
| DP 1725 B2XF | 1311 | 0.47 | 81.4 | 1.11 | 29.3 | 4.6 | 62.3 | 8.4 | 2.8 |
| ST 5115GLT | 1307 | 0.43 | 83.3 | 1.17 | 31.3 | 4.2 | 64.1 | 8.1 | 3.0 |
| PHY 490 W3FE | 1296 | 0.46 | 83.6 | 1.11 | 31.5 | 4.4 | 64.7 | 8.2 | 2.8 |
| PX3A82W3FE | 1285 | 0.43 | 83.5 | 1.11 | 32.0 | 4.4 | 61.1 | 4.7 | 3.1 |
| ST 4949GLT | 1264 | 0.44 | 82.8 | 1.12 | 28.2 | 4.0 | 61.7 | 8.5 | 3.3 |
| PHY 312 WRF | 1249 | 0.44 | 82.7 | 1.13 | 30.6 | 4.5 | 61.2 | 9.3 | 3.1 |
| NG 4601 B2XF | 1239 | 0.45 | 84.2 | 1.16 | 31.6 | 4.5 | 64.6 | 8.0 | 2.8 |
| NG 5007 B2XF | 1223 | 0.44 | 81.5 | 1.14 | 27.7 | 4.4 | 61.6 | 8.5 | 3.0 |
| ST 5020 GLT | 1216 | 0.43 | 82.9 | 1.15 | 30.2 | 4.6 | 61.2 | 8.2 | 3.2 |
| PHY 450 W3FE | 1198 | 0.43 | 84.1 | 1.11 | 33.4 | 4.5 | 61.7 | 8.4 | 3.4 |
| PX5A57W3FE | 1197 | 0.43 | 82.5 | 1.17 | 30.3 | 4.2 | 64.3 | 7.7 | 3.3 |
| PX3A96W3FE | 1185 | 0.43 | 83.3 | 1.14 | 29.7 | 4.1 | 62.8 | 8.0 | 3.5 |
| DP 1553 B2XF | 1178 | 0.46 | 84.3 | 1.19 | 28.3 | 4.7 | 55.4 | 8.6 | 4.0 |
| PX2A28W3FE | 1172 | 0.44 | 83.1 | 1.18 | 31.3 | 4.5 | 66.2 | 7.2 | 2.9 |
| DG 3757 B2XF | 1155 | 0.46 | 82.4 | 1.12 | 28.8 | 4.6 | 63.0 | 8.6 | 2.9 |
| PHY 330 W3FE | 1148 | 0.43 | 83.2 | 1.14 | 31.2 | 4.3 | 65.0 | 8.1 | 3.0 |
| GA 2013114 | 1147 | 0.43 | 83.8 | 1.17 | 30.2 | 4.8 | 64.2 | 8.6 | 2.3 |
| DG 3605 B2XF | 1145 | 0.46 | 81.9 | 1.20 | 31.3 | 4.9 | 64.7 | 8.1 | 2.4 |
| DP 1747NR B2XF | 936 | 0.46 | 84.0 | 1.13 | 30.6 | 4.8 | 62.7 | 8.9 | 2.8 |
| DG 1602 GLT | 905 | 0.43 | 83.5 | 1.14 | 29.5 | 5.0 | 62.9 | 9.0 | 2.7 |
| PX4A62W3FE | 895 | 0.43 | 83.4 | 1.17 | 33.0 | 4.3 | 59.9 | 9.0 | 3.7 |
| AMX 1711 B2XF | 874 | 0.45 | 82.4 | 1.17 | 31.8 | 4.7 | 59.9 | 8.5 | 3.6 |
| GA 230 | 860 | 0.41 | 83.3 | 1.21 | 32.6 | 4.5 | 65.4 | 8.1 | 2.6 |
| AMX 1713 B2XF | 858 | 0.44 | 82.8 | 1.11 | 28.9 | 4.4 | 62.8 | 9.2 | 3.3 |
| BRS 293 | 831 | 0.45 | 83.4 | 1.15 | 33.3 | 4.1 | 63.7 | 8.6 | 2.9 |
| AMX 1712 B2XF | 826 | 0.44 | 82.6 | 1.15 | 30.4 | 4.6 | 64.4 | 9.4 | 2.0 |
| Average | 1254 | 0.45 | 83.1 | 1.15 | 30.3 | 4.4 | 63.2 | 8.2 | 3.0 |
| LSD at 10% | 340 | 0.01 | NS[2] | 0.05 | 1.8 | NS | NS | NS | NS |
| CV % | 23.1 | | | | | | | | |

# Athens, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017
# (Continued)

* A random quality sample was taken on the picker during harvest and ginned in asmall gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 3, 2017. | | | | |
| Harvested: | October 31, 2017. | | | | |
| Seeding Rate: | 4 seed/foot in 36" rows. | | | | |
| Soil Type: | Wehadkee loam. | | | | |
| Soil Test: | P = Low, K = Medium, and pH = 5.3. | | | | |
| Fertilization: | 22 lb N, 104 lb $P_2O_5$, and 120 lb $K_2O$/acre. Sidedress: 100 lb N/acre. 2000 lb dolomitic lime. | | | | |
| Previous Crop: | Rye cover crop. | | | | |
| Management: | Strip tilled; Roundup, Prowl, Reflex, Cotoran, Envoke, Staple, and Poast used for weed control; Pix used for PGR; Folex, Clean Pik, and Superboll used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Rainfall (in): | 2.65 | 5.11 | 4.87 | 4.47 | 3.72 |

Trials conducted by H. Jordan, G. Ware, J. Gassett, K. Roach, J. Griffin, F. Brett, and J. Cartey.

# Midville, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PX4A54W3FE | **1720** | 0.47 | 83.3 | 1.10 | 31.8 | 4.1 | 70.0 | 8.1 | 1.4 |
| PX4A62W3FE | **1663** | 0.48 | 83.4 | 1.15 | 35.2 | 4.0 | 69.7 | 7.6 | 1.4 |
| PHY 312 WRF | **1657** | 0.44 | 82.9 | 1.13 | 31.6 | 4.4 | 69.4 | 7.3 | 1.7 |
| PHY 444 WRF | **1642** | 0.43 | 84.7 | 1.19 | 33.3 | 3.7 | 71.3 | 7.8 | 1.1 |
| PX3A96W3FE | **1616** | 0.44 | 83.0 | 1.08 | 31.4 | 4.5 | 69.2 | 7.2 | 1.3 |
| ST 5517 GLTP | **1613** | 0.44 | 82.3 | 1.13 | 32.2 | 4.1 | 74.4 | 6.9 | 1.0 |
| ST 5115GLT | **1609** | 0.44 | 82.1 | 1.13 | 32.9 | 4.1 | 72.8 | 6.7 | 1.3 |
| PHY 340 W3FE | **1607** | 0.47 | 83.2 | 1.13 | 30.5 | 4.6 | 70.1 | 7.4 | 1.4 |
| PX3A99W3FE | **1594** | 0.43 | 84.6 | 1.13 | 32.4 | 4.5 | 70.0 | 7.4 | 1.3 |
| PX4A57W3FE | **1578** | 0.42 | 82.8 | 1.08 | 30.9 | 4.3 | 70.2 | 8.3 | 1.6 |
| GA 2011113 | **1572** | 0.46 | 84.7 | 1.17 | 35.5 | 4.2 | 70.3 | 6.7 | 1.3 |
| DP 1555 B2RF | **1562** | 0.47 | 83.5 | 1.13 | 31.0 | 4.7 | 74.1 | 6.9 | 1.1 |
| PHY 300 W3FE | **1535** | 0.42 | 83.4 | 1.12 | 31.3 | 4.7 | 68.7 | 7.4 | 1.3 |
| ST 4848GLT | **1532** | 0.42 | 83.7 | 1.11 | 30.4 | 4.9 | 70.7 | 7.2 | 1.5 |
| ST 4949GLT | **1520** | 0.45 | 83.5 | 1.13 | 31.6 | 4.5 | 71.3 | 7.2 | 1.5 |
| ST 6182GLT | **1518** | 0.46 | 84.0 | 1.11 | 30.7 | 4.7 | 73.7 | 7.3 | 0.7 |
| GA 2013114 | **1513** | 0.42 | 83.9 | 1.15 | 32.3 | 4.6 | 71.9 | 7.1 | 1.0 |
| PHY 450 W3FE | 1500 | 0.43 | 83.6 | 1.15 | 32.5 | 4.8 | 70.4 | 7.1 | 1.2 |
| AMX 1711 B2XF | 1497 | 0.42 | 83.2 | 1.15 | 30.6 | 4.5 | 74.5 | 7.1 | 0.9 |
| PHY 330 W3FE | 1484 | 0.43 | 84.1 | 1.15 | 33.1 | 4.8 | 70.7 | 7.6 | 1.7 |
| DP 1538 B2XF | 1481 | 0.43 | 82.3 | 1.06 | 28.8 | 4.8 | 72.4 | 7.7 | 1.0 |
| PX5B73W3FE | 1468 | 0.43 | 83.2 | 1.12 | 31.6 | 4.7 | 71.1 | 7.0 | 1.5 |
| AMX 1713 B2XF | 1466 | 0.43 | 83.9 | 1.16 | 31.7 | 4.5 | 71.7 | 6.9 | 1.2 |
| AMX 1710 B2XF | 1446 | 0.40 | 82.1 | 1.11 | 32.2 | 4.5 | 71.3 | 7.8 | 1.1 |
| ST 5020 GLT | 1416 | 0.40 | 84.1 | 1.15 | 31.8 | 4.6 | 70.2 | 7.0 | 1.6 |
| DG 1602 GLT | 1413 | 0.44 | 82.9 | 1.15 | 31.4 | 5.0 | 73.1 | 7.0 | 1.2 |
| AMX 1712 B2XF | 1412 | 0.41 | 83.6 | 1.15 | 31.4 | 4.6 | 73.5 | 7.3 | 0.8 |
| PHY 490 W3FE | 1400 | 0.42 | 84.4 | 1.11 | 35.6 | 4.6 | 69.0 | 7.2 | 1.2 |
| GA 2012141 | 1384 | 0.42 | 83.1 | 1.18 | 31.0 | 4.1 | 72.7 | 7.1 | 1.1 |
| DP 1553 B2XF | 1378 | 0.44 | 84.1 | 1.12 | 30.3 | 4.6 | 71.6 | 7.6 | 1.5 |
| PX4A52W3FE | 1373 | 0.42 | 82.5 | 1.11 | 31.7 | 4.2 | 70.6 | 7.7 | 1.3 |
| DG 3605 B2XF | 1362 | 0.45 | 83.6 | 1.17 | 31.0 | 5.2 | 72.4 | 7.1 | 1.1 |
| DG 3757 B2XF | 1362 | 0.44 | 82.8 | 1.10 | 29.9 | 4.6 | 71.2 | 7.6 | 1.4 |
| GA 230 | 1361 | 0.40 | 82.9 | 1.13 | 31.9 | 4.5 | 71.2 | 6.6 | 1.4 |
| PX5B76W3FE | 1358 | 0.40 | 83.9 | 1.09 | 31.9 | 4.3 | 68.0 | 7.2 | 1.1 |
| NG 5007 B2XF | 1357 | 0.43 | 83.0 | 1.13 | 28.2 | 4.5 | 71.2 | 7.5 | 1.7 |
| DP 1646 B2XF | 1345 | 0.47 | 83.1 | 1.17 | 30.2 | 4.5 | 72.4 | 6.7 | 1.4 |
| DP 1725 B2XF | 1343 | 0.45 | 83.4 | 1.12 | 31.1 | 4.6 | 72.5 | 7.1 | 1.0 |
| NG 4601 B2XF | 1327 | 0.43 | 84.3 | 1.15 | 33.0 | 4.9 | 73.3 | 6.6 | 1.0 |
| DP 1747NR B2XF | 1325 | 0.44 | 82.9 | 1.11 | 31.9 | 4.8 | 71.9 | 7.8 | 1.0 |
| PX5A57W3FE | 1323 | 0.45 | 84.8 | 1.14 | 33.3 | 4.2 | 69.6 | 6.6 | 1.6 |
| CG 9608 B3XF | 1304 | 0.45 | 82.3 | 1.10 | 29.7 | 4.5 | 72.1 | 7.9 | 1.0 |
| DP 1639 B2XF | 1284 | 0.43 | 84.2 | 1.13 | 33.0 | 4.7 | 70.5 | 7.3 | 1.3 |
| PX2A28W3FE | 1254 | 0.39 | 83.9 | 1.17 | 30.9 | 4.4 | 70.1 | 7.0 | 1.4 |
| PX3A82W3FE | 1249 | 0.42 | 84.0 | 1.12 | 33.2 | 4.5 | 69.9 | 7.0 | 1.4 |
| BRS 293 | 766 | 0.41 | 83.0 | 1.10 | 33.5 | 4.5 | 70.7 | 7.9 | 1.0 |
| Average | 1445 | 0.43 | 83.4 | 1.13 | 31.7 | 4.5 | 71.2 | 7.2 | 1.2 |
| LSD at 10% | 209 | 0.03 | NS[2] | 0.05 | 2.4 | 0.3 | 2.8 | 0.5 | NS |
| CV % | 12.3 | | | | | | | | |

# Midville, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017
# (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 11, 2017. | | | | |
| Harvested: | October 20, 2017. | | | | |
| Seeding Rate: | 4 seeds/foot in 36" rows. | | | | |
| Soil Type: | Dothan loamy sand. | | | | |
| Soil Test: | P = Low, K = Medium, and pH = 5.9. | | | | |
| Fertilization: | 30 lb N, 90 lb $P_2O_5$, and 80 lb $K_2O$/acre. Sidedress: 70 lb N/acre. 1000 lb/acre dolomitic lime. | | | | |
| Previous Crop: | Peanuts (Spanish and Runner types). | | | | |
| Management: | Disked, field conditioned, and subsoiled/bedded; Liberty, Diuron, Reflex, Staple, Envoke, and MSMA used for weed control; Acephate, Prevathon, Bidrin, and Bifenthrin used for insect control; Telone used for nematode control; Boron used for boll retention; Mepiquat used for PGR; Dropp, Ethephon, and Def used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Rainfall (in): | 4.35 | 7.92 | 5.42 | 4.32 | 6.48 |

Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

# Plains, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| ST 6182GLT | **1660** | 0.46 | 83.9 | 1.17 | 30.0 | 4.5 | 72.1 | 7.1 | 1.2 |
| DP 1646 B2XF | **1628** | 0.43 | 85.0 | 1.23 | 29.9 | 4.4 | 73.1 | 6.4 | 1.9 |
| DP 1555 B2RF | **1569** | 0.44 | 84.5 | 1.18 | 32.2 | 5.0 | 75.2 | 7.1 | 1.0 |
| PX4A54W3FE | **1554** | 0.44 | 84.3 | 1.13 | 30.4 | 4.3 | 70.7 | 7.1 | 1.3 |
| DP 1747NR B2XF | **1536** | 0.43 | 83.5 | 1.15 | 32.6 | 4.7 | 69.7 | 7.3 | 1.5 |
| PHY 490 W3FE | **1504** | 0.41 | 85.2 | 1.13 | 34.4 | 4.9 | 69.4 | 6.7 | 1.9 |
| CG 9608 B3XF | **1491** | 0.44 | 83.4 | 1.15 | 28.9 | 4.2 | 69.5 | 7.1 | 1.8 |
| PHY 444 WRF | **1483** | 0.42 | 85.8 | 1.26 | 32.0 | 3.9 | 73.1 | 7.2 | 0.9 |
| PX3A96W3FE | **1462** | 0.40 | 333.9 | 0.64 | 31.8 | 4.7 | 71.9 | 6.4 | 1.3 |
| PX5B76W3FE | **1457** | 0.40 | 83.3 | 1.15 | 31.7 | 4.6 | 71.5 | 6.7 | 1.3 |
| AMX 1713 B2XF | **1449** | 0.43 | 84.4 | 1.21 | 32.1 | 4.4 | 73.2 | 7.2 | 1.4 |
| PHY 312 WRF | **1449** | 0.40 | 85.5 | 1.19 | 30.9 | 4.4 | 71.3 | 7.3 | 1.2 |
| PX4A52W3FE | **1421** | 0.44 | 84.5 | 1.15 | 30.6 | 4.5 | 72.2 | 7.3 | 1.8 |
| PX4A62W3FE | **1420** | 0.41 | 83.3 | 1.21 | 34.9 | 3.9 | 70.5 | 7.1 | 1.5 |
| DG 3605 B2XF | **1420** | 0.43 | 84.1 | 1.24 | 30.9 | 4.5 | 72.9 | 6.4 | 1.6 |
| ST 4848GLT | **1405** | 0.43 | 84.2 | 1.15 | 29.8 | 4.7 | 72.2 | 7.3 | 1.3 |
| DP 1639 B2XF | **1400** | 0.42 | 84.3 | 1.15 | 31.6 | 4.6 | 72.4 | 6.8 | 1.7 |
| DP 1725 B2XF | **1392** | 0.45 | 83.5 | 1.16 | 29.4 | 4.4 | 70.8 | 6.4 | 1.5 |
| DG 1602 GLT | **1392** | 0.40 | 83.5 | 1.17 | 33.0 | 4.6 | 70.9 | 7.0 | 1.1 |
| PHY 340 W3FE | **1382** | 0.41 | 84.4 | 1.16 | 31.3 | 4.3 | 71.1 | 7.3 | 1.4 |
| PHY 330 W3FE | **1378** | 0.42 | 84.7 | 1.15 | 30.2 | 4.4 | 69.9 | 7.1 | 1.8 |
| NG 5007 B2XF | **1369** | 0.41 | 84.4 | 1.19 | 27.5 | 4.3 | 72.8 | 7.1 | 1.1 |
| PHY 300 W3FE | **1368** | 0.41 | 83.2 | 1.17 | 29.9 | 4.0 | 73.7 | 7.3 | 1.2 |
| ST 4949GLT | **1349** | 0.44 | 83.6 | 1.13 | 29.5 | 4.7 | 69.5 | 7.0 | 2.3 |
| DP 1538 B2XF | **1345** | 0.44 | 83.9 | 1.07 | 27.3 | 4.6 | 72.8 | 6.6 | 1.3 |
| GA 230 | **1338** | 0.40 | 84.3 | 1.21 | 31.6 | 4.4 | 73.7 | 6.5 | 1.0 |
| DP 1553 B2XF | **1332** | 0.43 | 83.9 | 1.17 | 28.6 | 4.5 | 71.1 | 7.1 | 1.2 |
| PHY 450 W3FE | **1329** | 0.39 | 84.9 | 1.11 | 33.3 | 4.8 | 67.9 | 7.3 | 1.0 |
| PX3A82W3FE | **1329** | 0.41 | 86.2 | 1.13 | 32.4 | 4.7 | 72.1 | 6.8 | 1.6 |
| AMX 1710 B2XF | **1328** | 0.39 | 84.0 | 1.17 | 30.3 | 4.2 | 72.0 | 7.4 | 1.5 |
| PX3A99W3FE | **1328** | 0.40 | 85.0 | 1.17 | 32.0 | 4.6 | 71.9 | 7.6 | 1.1 |
| DG 3757 B2XF | **1313** | 0.41 | 84.4 | 1.16 | 30.4 | 4.4 | 70.9 | 7.6 | 1.3 |
| AMX 1711 B2XF | **1313** | 0.42 | 84.0 | 1.17 | 31.8 | 4.5 | 74.5 | 7.2 | 1.1 |
| BRS 293 | **1292** | 0.42 | 83.4 | 1.09 | 31.9 | 4.8 | 72.4 | 7.8 | 0.9 |
| PX5A57W3FE | **1292** | 0.40 | 85.3 | 1.15 | 31.5 | 4.1 | 73.0 | 6.7 | 1.5 |
| NG 4601 B2XF | **1287** | 0.42 | 84.2 | 1.21 | 32.9 | 4.9 | 72.4 | 7.3 | 1.2 |
| AMX 1712 B2XF | **1287** | 0.42 | 83.7 | 1.20 | 31.5 | 4.3 | 71.0 | 6.7 | 1.6 |
| ST 5115GLT | **1287** | 0.40 | 83.4 | 1.17 | 31.2 | 4.2 | 74.7 | 6.9 | 0.8 |
| ST 5517 GLTP | **1282** | 0.40 | 82.7 | 1.17 | 31.7 | 4.2 | 74.8 | 6.3 | 1.6 |
| PX4A57W3FE | **1265** | 0.43 | 83.1 | 1.08 | 30.6 | 4.3 | 70.7 | 7.5 | 1.4 |
| ST 5020 GLT | **1260** | 0.40 | 84.5 | 1.20 | 31.8 | 4.1 | 72.3 | 7.2 | 1.0 |
| GA 2011113 | **1237** | 0.43 | 85.1 | 1.20 | 33.1 | 4.6 | 71.8 | 6.6 | 1.3 |
| GA 2012141 | **1227** | 0.41 | 84.1 | 1.19 | 30.8 | 4.5 | 72.4 | 5.9 | 1.2 |
| PX5B73W3FE | **1200** | 0.41 | 83.7 | 1.15 | 31.9 | 4.5 | 73.4 | 6.5 | 1.5 |
| PX2A28W3FE | **1145** | 0.40 | 82.5 | 1.17 | 32.5 | 3.8 | 73.0 | 6.4 | 1.2 |
| GA 2013114 | **1117** | 0.40 | 85.5 | 1.22 | 30.8 | 4.2 | 74.5 | 7.0 | 1.6 |
| Average | 1371 | 0.42 | 84.2 | 11.70 | 31.2 | 4.4 | 72.0 | 7.0 | 1.3 |
| LSD at 10% | NS[2] | 0.01 | 1.3 | 0.04 | 2.2 | 0.4 | 2.6 | 0.6 | 0.6 |
| CV % | 15 | | | | | | | | |

# Plains, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017
# (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 9, 2017. | | | | |
| Harvested: | November 2, 2017. | | | | |
| Seeding Rate: | 4 seed/ft on 36" rows. | | | | |
| Soil Type: | Greenville sandy clay loam. | | | | |
| Soil Test: | P = Medium, K = Very High, and pH = 6.3. | | | | |
| Fertilization: | 18 lb N, 47 lb $P_2O_5$, and 0 lb $K_2O$/acre. Sidedress: 80 lb N/acre. 1000 lb/ac dolomitic lime. | | | | |
| Previous Crop: | Grain sorghum. | | | | |
| Management: | Disked, subsoiled/bedded, and rototilled; Prowl, Reflex, Staple, MSMA, Diuron, and Envoke used for weed control; Bidrin, Prevathon, and Bifenthrin used for insect control; Mepiquat Chloride used for PGR; Folex, Ethephon, and Thidiazuron used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Rainfall (in): | 6.17 | 6.95 | 5.96 | 3.18 | 4.70 |

Trials conducted by W. Jones, D. Pearce, D. Dunn, R. Brooke, and M. Cofield.

# Tifton, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017

| Variety | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[1] Rd Color | Color Grade[1] +B Color | HVI Trash |
|---|---|---|---|---|---|---|---|---|---|
| | lb/acre | fraction | % | inches | g/tex | units | grade | grade | % area |
| PX3A99W3FE | **1359** | 0.42 | 83.7 | 1.17 | 31.7 | 4.5 | 69.5 | 6.9 | 1.7 |
| AMX 1713 B2XF | **1339** | 0.43 | 84.4 | 1.22 | 32.4 | 4.3 | 72.8 | 6.6 | 1.5 |
| ST 4949GLT | **1314** | 0.45 | 84.0 | 1.13 | 29.3 | 4.6 | 68.6 | 6.8 | 1.5 |
| GA 2011113 | **1312** | 0.42 | 84.1 | 1.18 | 31.6 | 4.3 | 65.7 | 6.4 | 2.5 |
| PX4A54W3FE | **1291** | 0.42 | 85.0 | 1.14 | 32.4 | 4.2 | 70.2 | 7.4 | 1.6 |
| ST 4848GLT | **1279** | 0.42 | 84.9 | 1.18 | 30.9 | 4.4 | 69.4 | 6.5 | 1.9 |
| GA 2013114 | **1260** | 0.42 | 85.0 | 1.19 | 32.0 | 4.7 | 71.7 | 6.6 | 1.7 |
| ST 6182GLT | **1259** | 0.46 | 84.3 | 1.15 | 29.4 | 4.7 | 69.6 | 6.7 | 2.3 |
| PX4A52W3FE | **1244** | 0.42 | 84.5 | 1.16 | 31.8 | 4.5 | 69.3 | 7.2 | 1.7 |
| PX4A57W3FE | **1243** | 0.44 | 83.5 | 1.08 | 33.5 | 4.5 | 68.3 | 7.8 | 2.4 |
| ST 5517 GLTP | **1231** | 0.39 | 82.9 | 1.17 | 33.1 | 4.1 | 72.3 | 6.3 | 2.2 |
| PX2A28W3FE | **1226** | 0.42 | 82.7 | 1.16 | 32.1 | 4.1 | 69.4 | 6.6 | 1.6 |
| DP 1538 B2XF | **1217** | 0.44 | 84.0 | 1.12 | 27.6 | 4.8 | 70.9 | 6.5 | 1.8 |
| PHY 330 W3FE | **1212** | 0.43 | 84.8 | 1.14 | 32.2 | 4.5 | 69.8 | 6.9 | 1.8 |
| AMX 1712 B2XF | **1204** | 0.42 | 83.3 | 1.18 | 32.6 | 4.2 | 69.8 | 6.6 | 1.8 |
| DG 3605 B2XF | **1203** | 0.44 | 84.6 | 1.24 | 30.9 | 4.6 | 71.9 | 6.2 | 2.2 |
| DG 3757 B2XF | **1197** | 0.45 | 84.4 | 1.15 | 29.1 | 4.6 | 68.2 | 7.0 | 2.1 |
| GA 2012141 | **1196** | 0.43 | 84.9 | 1.21 | 31.8 | 4.4 | 68.7 | 6.8 | 2.1 |
| PX3A96W3FE | **1194** | 0.40 | 85.6 | 1.18 | 33.5 | 4.4 | 72.3 | 6.7 | 1.6 |
| DP 1555 B2RF | **1194** | 0.44 | 83.7 | 1.16 | 32.3 | 4.6 | 70.9 | 6.5 | 1.4 |
| PX3A82W3FE | **1176** | 0.42 | 85.4 | 1.15 | 33.6 | 3.9 | 67.2 | 7.0 | 2.4 |
| PHY 444 WRF | **1162** | 0.44 | 84.8 | 1.20 | 31.0 | 4.0 | 70.1 | 7.1 | 1.4 |
| NG 5007 B2XF | **1154** | 0.43 | 83.6 | 1.14 | 28.1 | 4.5 | 70.0 | 7.0 | 2.0 |
| DP 1639 B2XF | **1123** | 0.44 | 84.7 | 1.14 | 31.5 | 4.7 | 68.7 | 6.2 | 2.2 |
| AMX 1711 B2XF | **1119** | 0.42 | 84.2 | 1.21 | 31.3 | 4.5 | 71.8 | 6.6 | 1.5 |
| PX5B76W3FE | **1116** | 0.41 | 84.5 | 1.14 | 33.0 | 4.5 | 70.0 | 6.5 | 2.3 |
| PHY 300 W3FE | **1103** | 0.42 | 85.0 | 1.13 | 32.3 | 4.4 | 71.5 | 7.2 | 1.5 |
| ST 5115GLT | **1102** | 0.40 | 84.0 | 1.13 | 31.2 | 4.0 | 74.0 | 6.0 | 2.1 |
| PX5A57W3FE | 1082 | 0.41 | 85.6 | 1.17 | 33.2 | 4.2 | 69.7 | 6.3 | 1.7 |
| AMX 1710 B2XF | 1079 | 0.41 | 83.8 | 1.14 | 31.1 | 4.2 | 65.2 | 7.5 | 2.3 |
| PX5B73W3FE | 1065 | 0.41 | 84.4 | 1.15 | 31.5 | 4.6 | 70.1 | 6.7 | 1.6 |
| PX4A62W3FE | 1046 | 0.42 | 85.0 | 1.21 | 36.2 | 4.1 | 70.2 | 7.2 | 1.8 |
| PHY 490 W3FE | 1013 | 0.42 | 85.1 | 1.13 | 34.2 | 4.4 | 65.7 | 6.6 | 2.4 |
| ST 5020 GLT | 1011 | 0.42 | 85.1 | 1.20 | 33.4 | 4.4 | 67.5 | 6.5 | 2.4 |
| NG 4601 B2XF | 1005 | 0.44 | 84.2 | 1.16 | 32.9 | 4.9 | 70.4 | 6.2 | 2.1 |
| GA 230 | 1000 | 0.40 | 84.2 | 1.19 | 32.2 | 4.5 | 72.3 | 6.8 | 1.4 |
| DP 1747NR B2XF | 998 | 0.44 | 83.0 | 1.12 | 32.3 | 5.0 | 72.4 | 7.8 | 1.0 |
| DP 1553 B2XF | 969 | 0.43 | 83.9 | 1.16 | 28.9 | 4.6 | 70.7 | 7.2 | 1.9 |
| DP 1725 B2XF | 953 | 0.46 | 83.2 | 1.14 | 30.9 | 4.6 | 68.8 | 6.5 | 2.0 |
| PHY 340 W3FE | 938 | 0.43 | 84.3 | 1.15 | 30.6 | 4.4 | 68.5 | 7.0 | 1.5 |
| PHY 312 WRF | 895 | 0.42 | 84.6 | 1.15 | 31.4 | 4.2 | 68.4 | 6.4 | 2.1 |
| DG 1602 GLT | 893 | 0.43 | 84.5 | 1.17 | 29.2 | 4.6 | 69.4 | 6.6 | 2.2 |
| CG 9608 B3XF | 871 | 0.46 | 83.2 | 1.17 | 31.0 | 4.6 | 71.4 | 7.2 | 1.4 |
| DP 1646 B2XF | 851 | 0.44 | 85.0 | 1.25 | 30.6 | 4.5 | 70.5 | 6.4 | 2.0 |
| PHY 450 W3FE | 823 | 0.41 | 85.1 | 1.12 | 34.9 | 4.8 | 67.4 | 7.1 | 2.0 |
| BRS 293 | 588 | 0.41 | 83.3 | 1.14 | 37.4 | 4.9 | 70.6 | 7.2 | 1.7 |
| Average | 1111 | 0.43 | 84.3 | 1.16 | 31.8 | 4.4 | 69.8 | 6.8 | 1.9 |
| LSD at 10% | 262 | 0.01 | NS[2] | 0.03 | 0.0 | 0.1 | 3.6 | 0.6 | NS |
| CV % | 20.1 | | | | | | | | |

# Tifton, Georgia:
# Dryland Later Maturity Cotton Variety Performance, 2017
# (Continued)

* A random quality sample was taken on the picker during harvest and ginned in a small gin in the SWVT Lab on the UGA Griffin campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. Color grade: composed of Rd (reflectance) and +B (yellowness).
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

| | | | | | |
|---|---|---|---|---|---|
| Planted: | May 2, 2017; replant May 22, 2017. | | | | |
| Harvested: | November 13, 2017. | | | | |
| Seeding Rate: | 4 seed/ft on 36" rows. | | | | |
| Soil Type: | Tifton sandy loam. | | | | |
| Soil Test: | P = Medium, K = Medium, and pH = 6.1. | | | | |
| Fertilization: | 25 lb N, 70 lb $P_2O_5$, and 60 lb $K_2O$/acre. Sidedress: 75 lb N and 30 lb $K_2O$/acre. | | | | |
| Previous Crop: | Peanuts. | | | | |
| Management: | Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Diuron, MSMA, and Envoke used for weed control; Knack, Beseige, Courier, and Karate Z used for insect control; Prep, Folex, and Droop used for defoliation. | | | | |
| | May | June | July | Aug. | Sept. |
| Rainfall (in): | 2.45 | 9.66 | 4.00 | 2.26 | 4.03 |

Trials conducted by S. Willis, R. Brooke, D. Dunn, and M. Cofield.

# Yield Summary of Dryland Later Maturity Cotton Varieties at Four Locations[1], 2017

| Variety | 2016 Lint Yield[2] | 2017 Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Lint Yield | Lint* | Uniformity Index* | Length* | Strength* | Micronaire* | Color Grade[3] | | HVI Trash |
| | | | | | | | | Rd Color | +B Color | |
| | lb/acre | lb/acre | % | fraction | inches | g/tex | units | grade | grade | % area |
| PX3A99W3FE | . | **1488** | 0.43 | 84.2 | 1.15 | 31.4 | 4.6 | 68.5 | 7.6 | 1.7 |
| ST 6182GLT | **1096** | **1482** | 0.46 | 83.8 | 1.14 | 29.6 | 4.6 | 69.9 | 7.2 | 1.7 |
| PX4A54W3FE | . | **1480** | 0.45 | 84.0 | 1.12 | 31.2 | 4.4 | 67.6 | 8.0 | 1.9 |
| DP 1555 B2RF | **1171** | **1464** | 0.45 | 83.7 | 1.16 | 31.3 | 4.6 | 70.8 | 7.1 | 1.6 |
| PHY 444 WRF | **1180** | **1429** | 0.44 | 84.8 | 1.23 | 32.1 | 3.9 | 69.3 | 7.5 | 1.7 |
| ST 4848GLT | 1048 | **1406** | 0.43 | 83.8 | 1.15 | 30.2 | 4.6 | 67.7 | 7.3 | 2.3 |
| PX4A57W3FE | . | **1401** | 0.43 | 83.1 | 1.08 | 30.6 | 4.4 | 68.0 | 8.0 | 2.3 |
| PX4A52W3FE | . | **1386** | 0.43 | 83.9 | 1.14 | 30.8 | 4.4 | 68.7 | 7.5 | 2.2 |
| ST 5517 GLTP | . | **1383** | 0.41 | 82.7 | 1.16 | 31.8 | 4.1 | 72.3 | 6.9 | 1.7 |
| GA 2011113 | . | **1378** | 0.44 | 84.4 | 1.18 | 33.3 | 4.3 | 68.3 | 6.9 | 2.0 |
| PX3A96W3FE | . | **1364** | 0.42 | 84.0 | 1.14 | 31.6 | 4.4 | 69.0 | 7.2 | 1.9 |
| DP 1646 B2XF | 1072 | **1362** | 0.45 | 84.1 | 1.22 | 30.0 | 4.4 | 70.6 | 6.8 | 2.0 |
| ST 4949GLT | 979 | **1362** | 0.44 | 83.5 | 1.12 | 29.6 | 4.4 | 67.8 | 7.3 | 2.1 |
| GA 2012141 | . | **1351** | 0.42 | 83.7 | 1.19 | 30.7 | 4.3 | 69.6 | 6.9 | 1.7 |
| DP 1538 B2XF | 1027 | **1348** | 0.44 | 83.4 | 1.09 | 28.0 | 4.7 | 71.0 | 7.2 | 1.5 |
| PHY 340 W3FE | . | **1336** | 0.44 | 83.7 | 1.14 | 30.3 | 4.4 | 67.9 | 7.5 | 1.9 |
| PHY 300 W3FE | . | **1331** | 0.43 | 83.5 | 1.14 | 30.5 | 4.4 | 69.8 | 7.6 | 1.6 |
| ST 5115GLT | 942 | **1326** | 0.42 | 83.2 | 1.15 | 31.6 | 4.1 | 71.4 | 6.9 | 1.8 |
| PX5B76W3FE | . | 1319 | 0.41 | 83.4 | 1.13 | 31.6 | 4.4 | 68.3 | 7.1 | 2.0 |
| PHY 312 WRF | . | 1313 | 0.43 | 83.9 | 1.15 | 31.1 | 4.4 | 67.5 | 7.5 | 2.0 |
| PHY 330 W3FE | . | 1306 | 0.43 | 84.2 | 1.14 | 31.7 | 4.5 | 68.8 | 7.4 | 2.1 |
| PHY 490 W3FE | . | 1303 | 0.43 | 84.6 | 1.12 | 33.9 | 4.6 | 67.2 | 7.1 | 2.1 |
| AMX 1710 B2XF | . | 1300 | 0.41 | 83.2 | 1.14 | 31.3 | 4.4 | 67.6 | 7.9 | 1.9 |
| DP 1639 B2XF | 1064 | 1291 | 0.44 | 84.3 | 1.14 | 31.7 | 4.6 | 68.3 | 7.2 | 2.2 |
| PX5B73W3FE | . | 1286 | 0.43 | 83.5 | 1.13 | 31.1 | 4.5 | 70.3 | 6.9 | 1.8 |
| DG 3605 B2XF | . | 1283 | 0.45 | 83.5 | 1.21 | 31.0 | 4.8 | 70.5 | 6.9 | 1.8 |
| AMX 1713 B2XF | . | 1278 | 0.43 | 83.8 | 1.17 | 31.2 | 4.4 | 70.1 | 7.5 | 1.8 |
| NG 5007 B2XF | 1042 | 1276 | 0.43 | 83.1 | 1.15 | 27.9 | 4.4 | 68.9 | 7.5 | 1.9 |
| PX3A82W3FE | . | 1260 | 0.42 | 84.8 | 1.13 | 32.8 | 4.4 | 67.6 | 6.4 | 2.1 |
| GA 2013114 | . | 1259 | 0.42 | 84.5 | 1.18 | 31.3 | 4.6 | 70.6 | 7.3 | 1.6 |
| DG 3757 B2XF | **1115** | 1257 | 0.44 | 83.5 | 1.13 | 29.5 | 4.5 | 68.3 | 7.7 | 1.9 |
| PX4A62W3FE | . | 1256 | 0.44 | 83.7 | 1.18 | 34.8 | 4.1 | 67.5 | 7.7 | 2.1 |
| DP 1725 B2XF | 1023 | 1250 | 0.46 | 82.9 | 1.13 | 30.2 | 4.5 | 68.6 | 7.1 | 1.8 |
| CG 9608 B3XF | . | 1249 | 0.46 | 82.8 | 1.14 | 29.7 | 4.4 | 69.4 | 7.6 | 1.6 |
| ST 5020 GLT | . | 1226 | 0.41 | 84.1 | 1.17 | 31.8 | 4.4 | 67.8 | 7.2 | 2.0 |
| PX5A57W3FE | . | 1223 | 0.42 | 84.5 | 1.16 | 32.1 | 4.1 | 69.1 | 6.8 | 2.0 |
| NG 4601 B2XF | . | 1215 | 0.43 | 84.2 | 1.17 | 32.6 | 4.8 | 70.2 | 7.0 | 1.8 |
| DP 1553 B2XF | 853 | 1214 | 0.44 | 84.0 | 1.16 | 29.0 | 4.6 | 67.2 | 7.6 | 2.1 |
| PHY 450 W3FE | . | 1213 | 0.42 | 84.4 | 1.12 | 33.5 | 4.7 | 66.8 | 7.5 | 1.9 |
| AMX 1711 B2XF | . | 1201 | 0.43 | 83.4 | 1.18 | 31.4 | 4.5 | 70.2 | 7.3 | 1.8 |
| PX2A28W3FE | . | 1199 | 0.41 | 83.0 | 1.17 | 31.7 | 4.2 | 69.7 | 6.8 | 1.8 |
| DP 1747NR B2XF | . | 1199 | 0.44 | 83.3 | 1.13 | 31.8 | 4.8 | 69.1 | 7.9 | 1.5 |
| AMX 1712 B2XF | . | 1182 | 0.42 | 83.3 | 1.17 | 31.5 | 4.4 | 69.7 | 7.5 | 1.5 |
| DG 1602 GLT | . | 1151 | 0.43 | 83.6 | 1.16 | 30.8 | 4.8 | 69.1 | 7.4 | 1.8 |
| GA 230 | 1032 | 1140 | 0.40 | 83.7 | 1.19 | 32.0 | 4.5 | 70.6 | 7.0 | 1.6 |
| BRS 293 | 976 | 869 | 0.42 | 83.3 | 1.12 | 34.0 | 4.5 | 69.3 | 7.9 | 1.6 |
| Average | 1053 | 1296 | 0.43 | 83.7 | 1.15 | 31.2 | 4.4 | 69.0 | 7.3 | 1.9 |
| LSD at 10% | 110 | 163 | 0.01 | 0.8 | 0.03 | 1.2 | 0.2 | NS[4] | 0.7 | NS |
| CV % | 13.9 | 21.6 | | | | | | | | |

## Yield Summary of Dryland Later Maturity Cotton Varieties at Four Locations[1], 2017 (Continued)

1. Athens, Midville, Plains, and Tifton.
2. The average, LSD, CV, and bolding for the 2016 yield column reflect the 2016 tests as a whole and are not limited to the varieties listed in the column.
3. Color grade: composed of Rd (reflectance) and +B (yellowness).
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

# TOBACCO

## Tifton, Georgia: Official Flue-Cured Tobacco Variety Test - Yield, Value, Price Index, Grade Index, and Agronomic and Chemical Characteristics of Released Varieties, 2017

| Variety | Yield | Value | Price Index[1] | Grade Index[2] | Leaves/ Plant | Plant Ht. | Days to Flower | Total Alkaloids | Reducing Sugars | Ratio RS/TA |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb/A | $/A | $/CWT | | number | in | | % | % | |
| CC 145 | 3099 | 3495 | 113 | 58 | 19 | 46.2 | 69 | 1.67 | 16.9 | 10.12 |
| NC 1226 | 3065 | 3559 | 115 | 59 | 19 | 45.5 | 70 | 1.33 | 18.8 | 14.21 |
| PVH 2360 | 3061 | 3299 | 108 | 56 | 18 | 46.5 | 70 | 2.29 | 16.5 | 7.21 |
| NC 978 | 3024 | 3138 | 103 | 53 | 20 | 48.6 | 70 | 1.85 | 16.7 | 9.02 |
| GL 976 | 2985 | 3550 | 117 | 60 | 19 | 44.5 | 72 | 1.55 | 19.3 | 12.44 |
| GL 365 | 2929 | 3178 | 108 | 55 | 20 | 45.3 | 75 | 1.92 | 18.8 | 9.83 |
| GF 318 | 2910 | 3119 | 107 | 55 | 18 | 43.6 | 69 | 1.96 | 18.6 | 9.50 |
| CC 143 | 2903 | 3581 | 124 | 64 | 20 | 47.1 | 70 | 1.61 | 19.7 | 12.25 |
| NC 971 | 2885 | 2972 | 103 | 53 | 19 | 44.7 | 68 | 1.79 | 19.0 | 10.60 |
| GL 309 | 2881 | 2961 | 102 | 51 | 20 | 47.0 | 70 | 1.89 | 18.6 | 9.83 |
| CC 144 | 2847 | 3039 | 107 | 55 | 19 | 45.9 | 68 | 1.98 | 18.7 | 9.42 |
| NC 925 | 2832 | 2948 | 104 | 54 | 19 | 41.1 | 69 | 1.87 | 17.9 | 9.58 |
| NC 196 | 2827 | 3134 | 112 | 56 | 18 | 44.1 | 72 | 1.72 | 18.6 | 10.80 |
| XHN 58 | 2815 | 2937 | 105 | 55 | 20 | 45.8 | 70 | 1.92 | 17.7 | 9.24 |
| GL 395 | 2798 | 3191 | 113 | 58 | 18 | 43.0 | 66 | 2.02 | 17.9 | 8.88 |
| PVH 2310 | 2771 | 3710 | 132 | 68 | 18 | 45.3 | 67 | 1.76 | 17.6 | 9.97 |
| K 730 | 2762 | 3274 | 119 | 61 | 19 | 42.8 | 67 | 1.55 | 18.5 | 11.96 |
| GL 398 | 2759 | 2875 | 104 | 54 | 20 | 46.3 | 73 | 1.58 | 19.0 | 12.04 |
| CC 37 | 2737 | 3351 | 122 | 63 | 19 | 45.1 | 68 | 1.79 | 18.4 | 10.28 |
| K 326 | 2732 | 3147 | 115 | 61 | 19 | 42.7 | 68 | 1.52 | 19.3 | 12.66 |
| PVH 2275 | 2727 | 3413 | 125 | 65 | 19 | 45.3 | 69 | 1.63 | 19.2 | 11.76 |
| NC 970 | 2718 | 2909 | 106 | 55 | 19 | 44.7 | 72 | 1.48 | 17.6 | 11.93 |
| CC 35 | 2713 | 3012 | 111 | 58 | 19 | 49.7 | 72 | 1.63 | 19.7 | 12.13 |
| NC 71 | 2696 | 2950 | 111 | 57 | 18 | 41.9 | 69 | 1.93 | 18.1 | 9.37 |
| CC 27 | 2676 | 3243 | 121 | 61 | 19 | 44.6 | 69 | 1.49 | 18.7 | 12.55 |
| PVH 2254 | 2645 | 3108 | 116 | 60 | 19 | 46.5 | 69 | 1.81 | 18.2 | 10.06 |
| NC 606 | 2638 | 3239 | 122 | 63 | 19 | 43.5 | 69 | 1.98 | 19.3 | 9.74 |
| NC 938 | 2635 | 3292 | 123 | 64 | 20 | 44.8 | 70 | 1.40 | 17.5 | 12.45 |
| CC 1063 | 2608 | 3043 | 116 | 59 | 19 | 45.8 | 69 | 1.70 | 18.3 | 10.73 |
| GL 328 | 2589 | 3117 | 119 | 61 | 19 | 43.4 | 71 | 1.41 | 20.6 | 14.62 |
| PVH 1600 | 2555 | 2962 | 116 | 61 | 20 | 46.4 | 69 | 1.52 | 18.6 | 12.30 |
| NC 72 | 2497 | 2491 | 100 | 51 | 18 | 43.8 | 70 | 1.50 | 18.7 | 12.42 |
| PVH 1015 | 2450 | 2949 | 123 | 63 | 19 | 42.5 | 68 | 1.88 | 18.7 | 9.97 |
| PVH 1920 | 2438 | 2835 | 117 | 60 | 20 | 45.3 | 71 | 1.88 | 17.9 | 9.52 |
| CC 700 | 2426 | 3152 | 130 | 67 | 18 | 41.1 | 68 | 2.15 | 18.2 | 8.47 |
| GL 394 | 2419 | 2347 | 97 | 49 | 21 | 45.7 | 73 | 1.81 | 19.8 | 10.96 |
| K 346 | 2411 | 2990 | 125 | 65 | 19 | 43.2 | 68 | 1.50 | 18.5 | 12.29 |
| NC 972 | 2375 | 2723 | 114 | 58 | 20 | 47.1 | 73 | 1.79 | 18.1 | 10.09 |
| PVH 1118 | 2373 | 2542 | 110 | 56 | 19 | 43.6 | 70 | 1.98 | 17.3 | 8.74 |
| CC 13 | 2297 | 2800 | 122 | 62 | 19 | 43.2 | 70 | 1.40 | 19.2 | 13.68 |
| PVH 2110 | 2287 | 2952 | 126 | 65 | 20 | 43.6 | 73 | 1.60 | 18.7 | 11.72 |
| NC 95 | 2258 | 2451 | 109 | 55 | 20 | 46.9 | 71 | 1.76 | 19.4 | 11.03 |
| PVH 1452 | 2212 | 2554 | 117 | 60 | 18 | 42.5 | 68 | 1.75 | 17.1 | 9.75 |
| LSD @ 0.05 | 572.3 | 842.4 | 18.66 | 9.53 | | | | | | |

# Tifton, Georgia:
# Official Flue-Cured Tobacco Variety Test -
# Yield, Value, Price Index, Grade Index, and Agronomic and Chemical Characteristics of Released Varieties, 2017 (Continued)

Conducted on an Ocilla loamy sand soil fertilized with 1000 lb/a of 6-6-18 and 119 lb/a 15.5-0-0 with plants spaced 20-22 inches apart in 44-inch rows. Irrigated as needed.

1. Price index based on two year average prices for U.S. government grades.
2. Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - the higher the number, the higher the grade.

Researched by S. LaHue with support by grants from the Georgia Tobacco Commission.

# Tifton, Georgia:
# Three- and Two-Year Averages of Official Flue-Cured Tobacco Variety Test - Comparison of Released Varieties for Certain Characteristics, 2015, 2016, and 2017

| Variety | Yield | Value | Price Index[1] | Grade Index[2] | Leaves/ Plant | Plant Ht. | Days to Flower | Total Alkaloids | Reducing Sugars | Ratio RS/TA |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb/A | $/A | $/CWT | | number | in | | % | % | |
| 3 Year Average 2015, 2016 and 2017 | | | | | | | | | | |
| NC 196 | 2938 | 4046 | 139 | 70 | 22 | 46.3 | 69 | 1.91 | 17.7 | 9.3 |
| GF 318 | 2832 | 3637 | 130 | 66 | 21 | 45.2 | 66 | 2.07 | 17.4 | 8.5 |
| NC 938 | 2828 | 3897 | 137 | 70 | 22 | 46.8 | 70 | 1.69 | 17.2 | 10.4 |
| CC 143 | 2810 | 4202 | 147 | 75 | 23 | 47.2 | 69 | 1.81 | 18.0 | 10.1 |
| CC 37 | 2774 | 3687 | 134 | 67 | 22 | 46.1 | 69 | 1.82 | 17.4 | 9.9 |
| GL 398 | 2771 | 3495 | 128 | 65 | 23 | 48.1 | 72 | 1.97 | 17.5 | 9.2 |
| CC 35 | 2734 | 3432 | 129 | 66 | 21 | 51.3 | 72 | 1.89 | 16.8 | 9.1 |
| NC 925 | 2721 | 3278 | 121 | 62 | 21 | 44.2 | 68 | 2.02 | 17.4 | 8.7 |
| PVH 1600 | 2710 | 3850 | 142 | 72 | 22 | 46.3 | 68 | 2.01 | 16.9 | 9.0 |
| CC 27 | 2693 | 3814 | 141 | 71 | 21 | 44.9 | 65 | 1.82 | 17.7 | 10.0 |
| CC 1063 | 2693 | 3727 | 138 | 69 | 21 | 46.2 | 69 | 1.90 | 16.1 | 8.6 |
| NC 71 | 2673 | 3195 | 120 | 61 | 21 | 42.6 | 70 | 2.15 | 16.6 | 8.1 |
| GL 395 | 2670 | 3748 | 142 | 71 | 21 | 45.2 | 65 | 2.10 | 15.8 | 7.7 |
| PVH 1452 | 2619 | 3652 | 140 | 70 | 21 | 44.8 | 66 | 2.07 | 15.4 | 7.9 |
| PVH 2254 | 2618 | 3518 | 135 | 69 | 22 | 48.8 | 68 | 1.75 | 18.0 | 10.4 |
| PVH 2110 | 2593 | 3846 | 147 | 74 | 23 | 46.9 | 69 | 1.85 | 18.0 | 9.9 |
| CC 13 | 2576 | 3630 | 140 | 71 | 22 | 44.6 | 67 | 1.71 | 17.7 | 10.6 |
| NC 606 | 2557 | 3586 | 141 | 72 | 21 | 46.2 | 68 | 1.95 | 17.8 | 9.1 |
| NC 72 | 2547 | 3328 | 130 | 66 | 22 | 46.3 | 69 | 1.80 | 16.7 | 9.6 |
| K 326 | 2518 | 3406 | 136 | 70 | 21 | 43.1 | 68 | 1.82 | 17.3 | 9.9 |
| K 346 | 2511 | 3479 | 140 | 70 | 20 | 42.2 | 65 | 1.87 | 17.5 | 9.7 |
| PVH 2310 | 2508 | 3821 | 153 | 77 | 21 | 46.8 | 68 | 2.13 | 12.7 | 6.3 |
| K 730 | 2477 | 3384 | 138 | 70 | 22 | 43.4 | 66 | 1.95 | 16.8 | 9.0 |
| PVH 2275 | 2447 | 3581 | 146 | 74 | 21 | 46.2 | 67 | 2.43 | 15.1 | 7.0 |
| CC 700 | 2333 | 3318 | 142 | 71 | 20 | 42.0 | 66 | 2.26 | 16.2 | 7.4 |
| NC 95 | 2304 | 2949 | 128 | 66 | 21 | 47.2 | 69 | 2.09 | 17.4 | 8.7 |

# Tifton, Georgia:
# Three- and Two-Year Averages of Official Flue-Cured Tobacco Variety Test - Comparison of Released Varieties for Certain Characteristics, 2015, 2016 and 2017 (Continued)

| Variety | Yield | Value | Price Index[1] | Grade Index[2] | Leaves/ Plant | Plant Ht. | Days to Flower | Total Alkaloids | Reducing Sugars | Ratio RS/TA |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb/A | $/A | $/CWT | | number | in | | % | % | |
| 2 Year Average 2016-2017 | | | | | | | | | | |
| NC 196 | 3102 | 3952 | 127 | 64 | 21 | 44.0 | 67 | 1.86 | 17.5 | 9.5 |
| CC 35 | 3019 | 3445 | 114 | 59 | 21 | 49.0 | 69 | 1.89 | 16.8 | 9.3 |
| GF 318 | 2999 | 3376 | 112 | 58 | 20 | 43.2 | 66 | 2.08 | 17.1 | 8.3 |
| CC 143 | 2955 | 4028 | 136 | 70 | 21 | 44.6 | 66 | 1.86 | 18.1 | 10.0 |
| CC 37 | 2946 | 3602 | 122 | 62 | 21 | 43.6 | 66 | 1.98 | 17.0 | 8.7 |
| GL 398 | 2897 | 3412 | 117 | 60 | 23 | 46 | 70 | 1.85 | 17.5 | 9.8 |
| GL 395 | 2885 | 3765 | 129 | 65 | 20 | 42.7 | 64 | 2.17 | 15.2 | 7.1 |
| NC 925 | 2827 | 3179 | 112 | 58 | 20 | 40.8 | 65 | 2.09 | 17.3 | 8.4 |
| NC 938 | 2816 | 3634 | 128 | 66 | 21 | 43.6 | 66 | 1.63 | 17.4 | 10.9 |
| PVH 1600 | 2754 | 3508 | 126 | 65 | 21 | 44.5 | 66 | 2.06 | 16.4 | 8.9 |
| NC 71 | 2747 | 3129 | 114 | 58 | 20 | 40.5 | 67 | 2.28 | 15.9 | 7.3 |
| PVH 2110 | 2739 | 3825 | 136 | 70 | 22 | 44.1 | 68 | 1.79 | 17.7 | 10.1 |
| CC 1063 | 2695 | 3275 | 121 | 61 | 21 | 43.4 | 66 | 1.88 | 15.5 | 8.5 |
| CC 27 | 2692 | 3365 | 125 | 63 | 21 | 43.4 | 65 | 1.76 | 17.8 | 10.4 |
| NC 606 | 2674 | 3352 | 125 | 64 | 21 | 42.6 | 65 | 2.01 | 16.7 | 8.4 |
| PVH 1452 | 2660 | 3204 | 120 | 62 | 20 | 42.9 | 65 | 2.19 | 14.5 | 7.1 |
| PVH 2310 | 2646 | 3687 | 139 | 71 | 20 | 44.1 | 65 | 2.09 | 13.5 | 6.9 |
| K 730 | 2643 | 3380 | 128 | 66 | 21 | 42.1 | 65 | 1.75 | 17.5 | 10.2 |
| GL 394 | 2640 | 2852 | 107 | 55 | 22 | 45.2 | 68 | 2.05 | 16.9 | 8.5 |
| PVH 2254 | 2609 | 3380 | 129 | 67 | 21 | 45.8 | 66 | 1.85 | 17.5 | 9.5 |
| K 346 | 2591 | 3117 | 121 | 62 | 20 | 41.8 | 65 | 1.81 | 16.6 | 9.6 |
| PVH 1118 | 2589 | 3100 | 120 | 61 | 21 | 43.4 | 66 | 2.29 | 15.9 | 7.2 |
| CC 13 | 2552 | 3242 | 127 | 64 | 21 | 42.6 | 66 | 1.63 | 17.8 | 11.2 |
| NC 72 | 2540 | 2852 | 112 | 57 | 20 | 43.7 | 67 | 1.88 | 16.9 | 9.6 |
| PVH 1015 | 2535 | 3074 | 123 | 63 | 21 | 42.7 | 65 | 2.00 | 17.9 | 9.0 |
| K 326 | 2529 | 3304 | 132 | 69 | 20 | 40.8 | 67 | 1.87 | 17.4 | 9.8 |
| PVH 1920 | 2511 | 3561 | 141 | 71 | 22 | 43.1 | 66 | 2.09 | 15.9 | 7.8 |
| PVH 2275 | 2404 | 3161 | 132 | 67 | 21 | 44.3 | 66 | 2.23 | 15.7 | 8.0 |
| CC 700 | 2337 | 2941 | 126 | 64 | 20 | 39.5 | 65 | 2.43 | 16.1 | 6.8 |
| NC 95 | 2318 | 3011 | 130 | 66 | 20 | 44.5 | 68 | 2.14 | 16.8 | 8.3 |

Conducted on an Ocilla loamy sand soil fertilized with 1000 lb/a of 6-6-18 and 119 lb/a 15.5-0-0 with plants spaced 20-22 inches apart in 44-inch rows. Irrigated as needed.

1. Price index based on two year average prices for U.S. government grades.
2. Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - the higher the number, the higher the grade.

Researched by S. LaHue with support by grants from the Georgia Tobacco Commission.

# Tifton, Georgia:
# Regional Farm Flue-Cured Tobacco Variety Test - Comparison of Varieties for Certain Characteristics, 2017

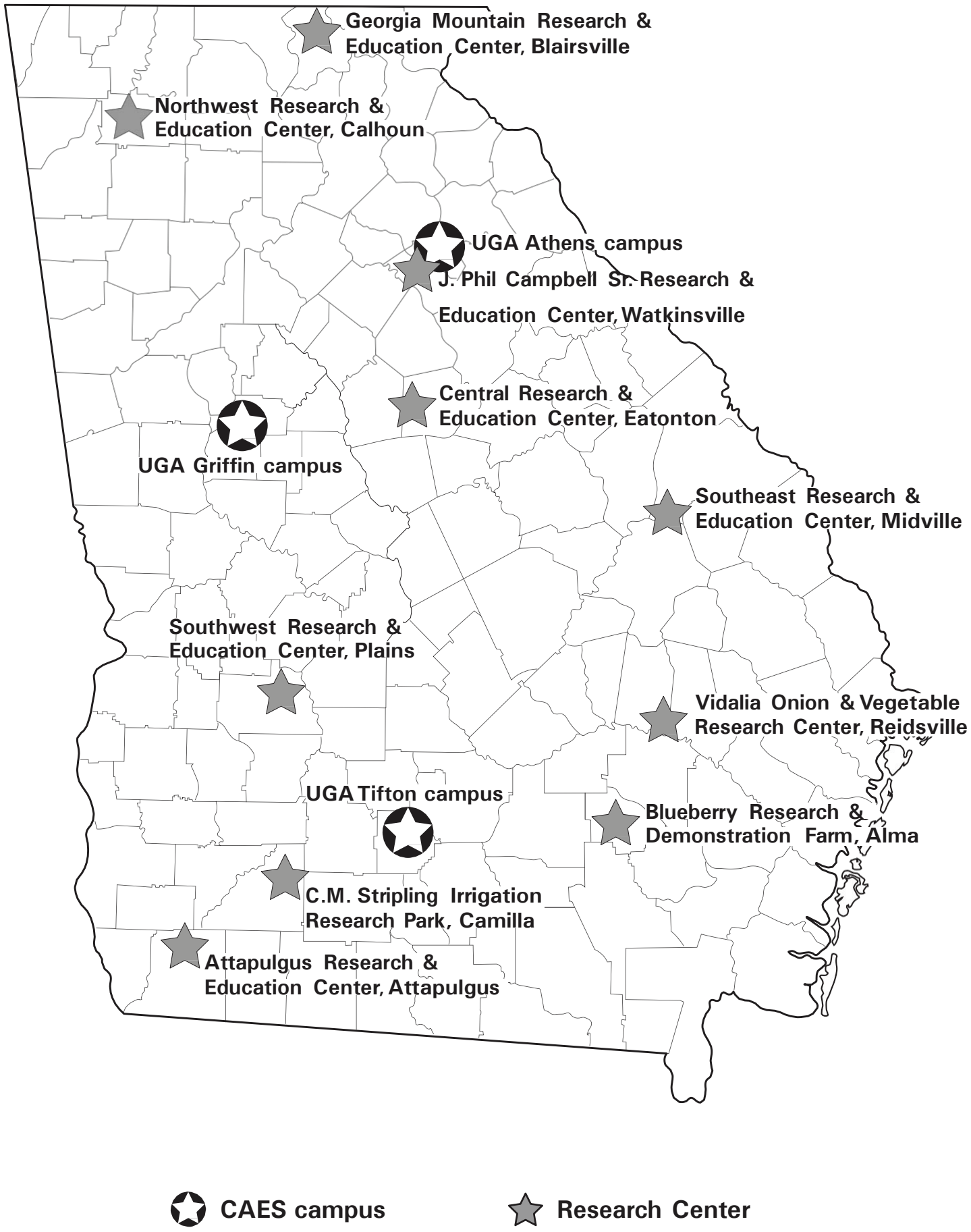
| Variety | Yield | Value | Price Index[1] | Grade Index[2] | Leaves/ Plant | Plant Ht. | Days to Flower | Total Alkaloids | Reducing Sugars | Ratio RS/TA |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb/A | $/A | $/CWT | | number | in | | % | % | |
| NC EX 87 | 2672 | 2916 | 110 | 57 | 18 | 44.3 | 71 | 1.33 | 18.8 | 14.13 |
| NC EX 86 | 2667 | 2853 | 106 | 54 | 19 | 45.6 | 71 | 1.42 | 18.8 | 13.24 |
| K 326 | 2619 | 2915 | 111 | 58 | 19 | 41.0 | 69 | 1.28 | 19.4 | 15.15 |
| NC EX 80 | 2606 | 2739 | 104 | 55 | 18 | 44.0 | 71 | 1.42 | 16.3 | 11.47 |
| PXH 22 | 2597 | 2996 | 116 | 59 | 20 | 43.5 | 69 | 1.48 | 18.5 | 12.50 |
| PXH 23 | 2526 | 2807 | 111 | 57 | 20 | 46.3 | 72 | 1.41 | 18.4 | 13.08 |
| CU 222 | 2460 | 2864 | 116 | 60 | 19 | 44.1 | 72 | 1.45 | 17.8 | 12.27 |
| CU 224 | 2373 | 2707 | 114 | 58 | 19 | 45.0 | 69 | 1.68 | 18.5 | 11.01 |
| XHN 65 | 2369 | 2610 | 110 | 56 | 19 | 43.6 | 70 | 1.32 | 18.9 | 14.36 |
| NC 95 | 2366 | 2434 | 103 | 52 | 19 | 46.1 | 70 | 1.74 | 19.6 | 11.31 |
| CU 193 | 2263 | 2714 | 120 | 61 | 17 | 43.7 | 70 | 1.41 | 19.6 | 13.88 |
| NC 196 | 2232 | 2478 | 112 | 58 | 18 | 41.1 | 74 | 1.52 | 19.2 | 12.66 |
| LSD -0.05 | 383.3 | 513.7 | 11.9 | 5.97 | | | | | | |

Conducted on an Ocilla loamy sand soil fertilized with 1000 lb/a of 6-6-18 and 119 lb/a 15.5-0-0 with plants spaced 20-22 inches apart in 44-inch rows. Irrigated as needed.

1. Price index based on two-year average prices for U.S. government grades.
2. Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - the higher the number, the higher the grade.

Researched by S. LaHue and with support by grants from the Georgia Tobacco Commission.

# NOTES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