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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. <i>Abbr.</i>	<i>Unit</i>	<i>Approximate Metric Equivalent</i>
Length		
mi	mile	1.609 kilometers
yd	yard	0.9144 meters
ft or ' in or "	foot inch	30.48 centimeters 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 <i>Abbr.</i>	<i>Unit</i>	<i>Approximate U.S. Equivalent</i>
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 x 10 ⁻⁵ ounce



Sam Pardue
Dean and Director

Lew K. Hunnicutt
*Assistant Provost and
Griffin Campus Director*

Allen J. Moore
Associate Dean for Research

Joe W. West
*Assistant Dean
Southern Region*

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.

Cooperators

Mr. R. A. Black, Southeast Research & Education Center, Midville, Georgia
Mr. A. K. Culbreath, Plant Pathology, Tifton campus, Tifton, Georgia
Dr. I. Flitcroft, Griffin campus, Griffin, Georgia
Mr. J. D. Gassett, Iron Horse Plant Sciences Farm, Watkinsville, Georgia
Mr. J. J. Griffin, Crop & Soil Sciences Research Farm, Athens, Georgia
Mr. G. W. Jones III, Southwest Research & Education Center, Plains, Georgia
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia
Mr. H. G. Kendrick, Tifton campus, Tifton, Georgia
Mr. D. S. Pearce, Southwest Research & Education Center, Plains, Georgia
Dr. P. Roberts, Extension Entomology, Tifton campus, Tifton, Georgia
Dr. M. Toews, Entomology, Tifton campus, Tifton, Georgia
Mr. G. S. Willis, Tifton campus, Tifton, Georgia

Contributors

The following individuals contributed to the gathering of data and to the preparation of this report: F. Brett, R. Brooke, J. Cartey, K. Cawley, M. Cofield, M. Flynn, D. Gordon, J. Greene, J. Griffin, W. Jones, H. Jordan, D. Pearce, K. Roach, G. Ware, and B. Weldy.

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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.

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 lb/A	TSMK %	OK %	DK %	ELK %	Seed 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 P₂O₅, 0 lb K₂O, 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	Yield	TSMK	OK	DK	ELK	Seed
	Date						
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 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, Nonirrigated**

Variety	Digging	Yield	TSMK	OK	DK	ELK	Seed
	Date						
		lb/A	%	%	%	%	no./lb
<u>Runner Types</u>							
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
<u>Virginia Types</u>							
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	Yield	TSMK	OK	DK	ELK	Seed
	Date						
		lb/A	%	%	%	%	no./lb
<u>Runner Types</u>							
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
<u>Virginia Types</u>							
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 dolomitic 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	Yield lb/A	TSMK %	OK %	DK %	ELK %	Seed no./lb
	Date						
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 P₂O₅, 0 lb K₂O, 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	Yield	TSMK	OK	DK	ELK	Seed
	Date						
		lb/A	%	%	%	%	no./lb
<u>Runner Types</u>							
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
<u>Virginia Types</u>							
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 P₂O₅, 0 lb K₂O, 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	Yield	TSMK	OK	DK	ELK	Seed
	Date						
		lb/A	%	%	%	%	no./lb
<u>Runner Types</u>							
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
<u>Virginia Types</u>							
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 P₂O₅, 0 lb K₂O, 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 lb/acre	Lint* fraction	Uniformity		Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches			Rd Color grade	+B Color grade	
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 ₂ O ₅ , 198 lb K ₂ O, 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 lb/acre	Lint* fraction	Uniformity		Strength* g/tex	Micronaire* units	Color Grade ¹		HVI
			Index* %	Length* inches			Rd Color grade	+B Color grade	Trash % 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 P₂O₅, and 80 lb K₂O/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
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Trials conducted by A. Black, R. Brooke, D. Dunn, and M. Cofield.

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

Variety	Lint Yield lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire*	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Length* inches			Rd Color grade	+B Color grade	
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 P₂O₅, and 0 lb K₂O/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 lb/acre	Lint* fraction	Uniformity		Length* inches	Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %					Rd Color grade	+B Color grade	
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 P₂O₅, and 60 lb K₂O/acre. Sidedress: 75 lb N and 30 lb K₂O/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.

Irrigation (in): May June July Aug. Sept.

Rainfall (in): 0.50 0 0 2.00 0

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 Locations¹, 2017, Irrigated

Variety	2016	2017 Data								
	Lint Yield ² lb/acre	Lint Yield lb/acre	Lint* %	Uniformity Index* fraction	Length* inches	Strength* g/tex	Micronaire units	Color Grade ³ Rd Color +B Color grade grade		HVI Trash % 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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches				Rd Color grade	+B Color grade	
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 P₂O₅, 198 lb K₂O, 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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Length* inches			Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 80 lb K ₂ O/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 lb/acre	Lint* fraction	Uniformity		Length* inches	Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %					Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 0 lb K ₂ O/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 lb/acre	Lint* fraction	Uniformity		Length* inches	Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %					Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 60 lb K ₂ O/acre. Sidedress: 75 lb N and 30 lb K ₂ O/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 Locations¹, 2017, Irrigated

Variety	2016	2017 Data								
	Lint Yield ²	Lint Yield	Uniformity			Strength*	Micronaire*	Color Grade ³		HVI
	lb/acre	lb/acre	Lint* fraction	Index* %	Length* inches			Rd Color grade	+B Color grade	Trash % 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 Locations¹, 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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Index* %			Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 80 lb K ₂ O/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.				
Irrigation (in):	May	June	July	Aug.	Sept.
Rainfall (in):	1.20	1.25	2.75	3.75	4.32
	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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Length* inches			Rd Color grade	+B Color grade	
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 P₂O₅, and 0 lb K₂O/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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Length* inches			Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 60 lb K ₂ O/acre. Sidedress: 75 lb N and 30 lb K ₂ O/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 Locations¹, 2017, Irrigated

Variety	2017 Data								
	Lint Yield lb/acre	Lint* %	Uniformity Index* fraction	Length* inches	Strength* g/tex	Micronaire* units	Color Grade ² Rd Color +B Color grade grade		HVI Trash % 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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Index* %			Rd Color grade	+B Color grade	
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 P₂O₅, and 120 lb K₂O/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.

Rainfall (in):	May	June	July	Aug.	Sept.
	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 lb/acre	Lint* fraction	Uniformity			Micronaire*	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Strength* g/tex		Rd Color grade	+B Color grade	
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 P₂O₅, and 80 lb K₂O/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.

Rainfall (in):
 May 4.35 June 7.92 July 5.42 Aug. 4.32 Sept. 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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches				Rd Color grade	+B Color grade	
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 P₂O₅, and 0 lb K₂O/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 lb/acre	Lint* fraction	Uniformity		Strength* g/tex	Micronaire*	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches			Rd Color grade	+B Color grade	
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 P₂O₅, and 60 lb K₂O/acre. Sidedress: 75 lb N and 30 lb K₂O/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.

Rainfall (in):	May	June	July	Aug.	Sept.
	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 Locations¹, 2017

Variety	2016	2017 Data								
	Lint Yield ² lb/acre	Lint Yield lb/acre	Lint* fraction	Uniformity Index* %	Length* inches	Strength* g/tex	Micronaire* units	Color Grade ³		HVI Trash % area
								Rd Color grade	+B Color grade	
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 lb/acre	Lint* fraction	Uniformity			Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %	Length* inches	Length* inches			Rd Color grade	+B Color grade	
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 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 ₂ O ₅ , and 120 lb K ₂ O/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.				
Rainfall (in):	May	June	July	Aug.	Sept.
	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 lb/acre	Lint* fraction	Uniformity		Strength* g/tex	Micronaire* units	Color Grade ¹		HVI
			Index* %	Length* inches			Rd Color grade	+B Color grade	Trash % 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 ₂ O ₅ , and 80 lb K ₂ O/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.				
Rainfall (in):	May	June	July	Aug.	Sept.
	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 lb/acre	Lint* fraction	Uniformity		Length* inches	Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %					Rd Color grade	+B Color grade	
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 ₂ O ₅ , and 0 lb K ₂ O/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.				
Rainfall (in):	May	June	July	Aug.	Sept.
	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 lb/acre	Lint* fraction	Uniformity		Length* inches	Strength* g/tex	Micronaire* units	Color Grade ¹		HVI Trash % area
			Index* %					Rd Color grade	+B Color grade	
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 P₂O₅, and 60 lb K₂O/acre. Sidedress: 75 lb N and 30 lb K₂O/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 Locations¹, 2017

Variety	2016	2017 Data								
	Lint Yield ² lb/acre	Lint Yield lb/acre	Lint* %	Uniformity Index* fraction	Length* inches	Strength* g/tex	Micronaire* units	Color Grade ³		HVI Trash % area
								Rd Color grade	+B Color grade	
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 Locations¹, 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 lb/A	Value \$/A	Price Index ¹ \$/CWT	Grade Index ²	Leaves/ Plant number	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio RS/TA
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 lb/A	Value \$/A	Price Index ¹ \$/CWT	Grade Index ²	Leaves/ Plant number	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio RS/TA
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 lb/A	Value \$/A	Price Index ¹ \$/CWT	Grade Index ²	Leaves/ Plant number	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio RS/TA
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

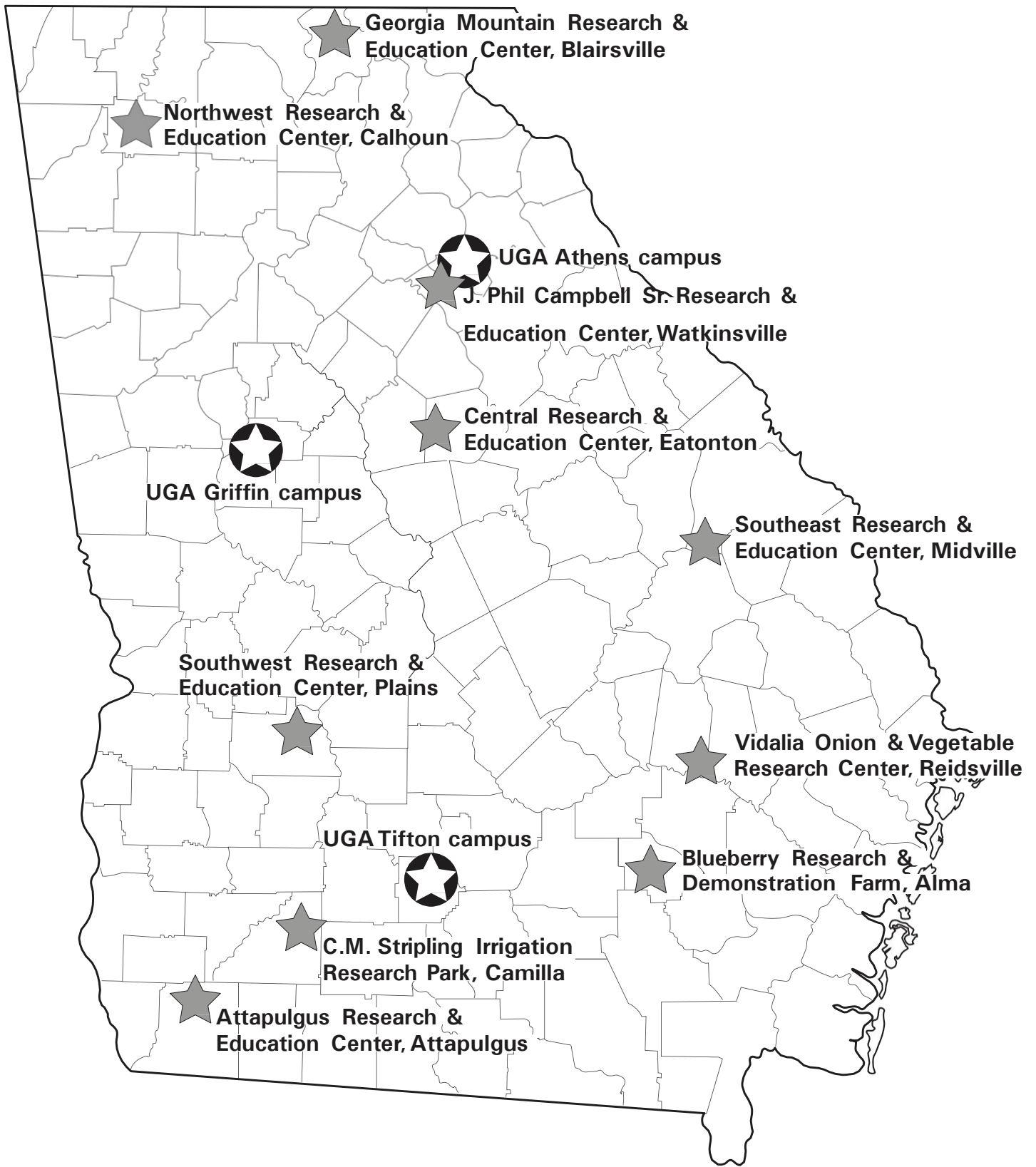
Variety	Yield lb/A	Value \$/A	Price Index ¹ \$/CWT	Grade Index ²	Leaves/ Plant number	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio RS/TA
NC EX 87	2672	2916	110	57	18	44.3	71	1.33	18.8	14.13
NC EX 86	2667	2853	106	54	19	45.6	71	1.42	18.8	13.24
K 326	2619	2915	111	58	19	41.0	69	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.

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NOTES



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