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2017 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests

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



Conversion Table

U.S. Abbr.	Unit	Approximate Metric Equivalent
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 Abbr.	Unit	Approximate U.S. Equivalent
Length		
km	kilometer	0.62 mile
m	meter	39.37 inches or 1.09 yards
cm	centimeter	0.39 inch
mm	millimeter	0.04 inch
Area		
ha	hectare	2.47 acres
Volume/Capacity		
liter	liter	61.02 cubic inches or 1.057 quarts
ml	milliliter	0.06 cubic inch or 0.034 fluid ounce
cc	cubic centimeter	0.061 cubic inch or 0.035 fluid ounce
Mass/Weight		
MT	metric ton	1.1 tons
kg	kilogram	2.205 pounds
g	gram	0.035 ounce
mg	milligram	3.5 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 soybean, sorghum grain and silage, and summer annual forages. The tests for various evaluations were conducted at several or all of the following locations: Tifton, Plains, and Midville in the Coastal Plain region; Griffin and Athens in the Piedmont region; and Calhoun in the Limestone Valley region. For identification of the test site locations, consult the map inside the back cover of this report.

The University of Georgia soybean variety trials are irrigated and conducted at Tifton, Plains, Midville, Griffin, Athens, and Calhoun. In addition, dryland soybean variety trials were conducted at five locations (Midville, Plains, Tifton, Griffin, and Athens), and irrigated ultra-late planted soybean variety trials were conducted at Midville and Attapulgus. All are included in this report.

Agronomic information, such as plant height, lodging, disease occurrence, 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. Since the average yield for several years gives a better indication of a variety's potential than one year's data, multiple-year yield summaries have been included.

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 the University of Georgia Agricultural Experiment Stations. For additional information, contact your local county Extension agent or the nearest experiment station.

To aid in comparing hybrids, the least significant difference (LSD) at the 10% level is included in the tables. If the yields of any two hybrids exceed the LSD value, they may be considered different in yield ability. **Bolding** is used in the performance tables to indicate hybrids with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each experiment. The lower the value of the standard error of the entry mean, the more precise the experiment.

This report is one of five publications presenting the 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), 2016 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-8), and 2013-2014 Canola data available at www.swvt.uga.edu/canola.html.

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

Cooperators

Mr. R. A. Black, Southeast Research & Education Center, Midville, Georgia
Dr. J. W. Buck, Plant Pathology, Griffin campus, Griffin, Georgia
Dr. D. Buntin, Entomology, Griffin campus, Griffin, Georgia
Dr. I. Flitcroft, Crop & Soil Sciences, Griffin campus, Griffin, Georgia
Mr. J. D. Gassett, Iron Horse Plant Sciences Farm, Watkinsville, Georgia
Mr. G.V. Granade, Field Research Services, Griffin campus, Griffin, Georgia
Mr. J. J. Griffin, Crop & Soil Sciences Research Farm, Athens, Georgia
Dr. W. W. Hanna, USDA-ARS, Tifton campus, Tifton, Georgia
Dr. K. R. Harris-Schultz, USDA-ARS Crop Genetics & Breeding Research Unit,
Tifton campus, Tifton, Georgia
Dr. R. S. Hussey, Plant Pathology, College Station, Athens, Georgia
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia
Mr. G. W. Jones III, Southwest Research & Education Center, Plains, Georgia
Dr. J. E. Knoll, USDA-ARS Crop Genetics & Breeding Research Unit,
Tifton campus, Tifton, Georgia
Dr. Z. Li, Crop & Soil Sciences, Athens, Georgia
Mr. B. Mills, Attapulgus Research & Education Center, Attapulgus, Georgia
Dr. X. Ni, USDA-ARS Crop Genetics & Breeding Research Unit,
Tifton campus, Tifton, Georgia
Mr. D. S. Pearce, Southwest Research & Education Center, Plains, Georgia
Mr. J. Stubbs, Northwest Research & Education Center, Calhoun, Georgia
Dr. M. D. Toews, Entomology, Tifton campus, Tifton, Georgia
Mr. E. D. Wood, Crop & Soil Sciences, College Station, Athens, Georgia
Mr. P. C. Worley, Northwest Research & Education Center, Calhoun, Georgia

Contributors

The following individuals contributed to the gathering of data and to the preparation of this report: B.E. Arnold, B.J. Averitt, W.E. Baxter, R. Brooke, A. Burgess, J.M. Cartey, K. Cawley, M. Cofield, R. Davis, H. Deems, S.L. Finnerty, M. Flynn, J.W. Fox, G.E. Gokalp, J.J. Griffin, D. Gordon, W.C. Hartley, L. Hitson, H. Jordan, L. Munz, J.L. Martin, J.B. Nation, J.P. Noe, P.K. Roach, J.D. Sharp, K. Stratton, P. Tapp, M. Tucker, H. Wang, G. Ware, T. Watkins, B. Weldy, B.F. Wilson, and K.L. Yeargin.

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2017 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests

Edited by
Daniel J. Mailhot, Dustin G. Dunn, Henry Jordan Jr.,
and J. LaDon Day

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. June was cooler than average due to much cloud cover and remained moist. In July, warmer and drier weather returned, but August was near normal.

The following table presents the rainfall amounts recorded monthly at the six test locations in Georgia during the 2017 growing season. Tifton was the only location that received less than normal precipitation during the recording period.

Growing Season Rainfall¹, 2017

Month	Year	Athens ²	Calhoun ³	Griffin	Midville	Plains	Tifton
----- inches -----							
March	2017	2.45	5.09	4.58	1.37	1.44	1.49
April	2017	5.97	5.45	6.29	4.21	4.68	3.80
May	2017	5.34	7.10	5.96	4.35	6.26	2.65
June	2017	9.10	6.71	6.20	7.90	8.02	5.11
July	2017	3.80	3.99	3.40	5.42	4.57	4.87
August	2017	6.20	4.14	3.06	4.15	3.14	4.47
September	2017	4.15	4.76	5.38	6.48	5.30	3.72
October	2017	3.98	5.29	8.06	1.85	2.82	2.10
<i>Total (8 mo)</i>		40.99	42.53	42.93	35.73	36.23	28.21
<i>Normal (8 mo)</i>		NA	36.02	33.18	28.45	35.80	32.35

1. Data for Georgia sites collected by Dr. I. Flitcroft, Griffin Campus, Griffin, Ga.

2. Iron Horse Plant Sciences Farm; long term data is not available for this site.

3. Floyd County location.

The 2017 crop maturity progressed normally based on the five-year average. Normal rainfall later in the season allowed harvesting to progress ahead of schedule. Georgia producers planted 150,000 acres of soybeans this year, a decrease of 40% from 2016. Farmers planted 20,000 acres of sorghum in 2017, the same as last year.

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

The state yield for soybean was 42 bushels per acre (the second highest on record) and produced 6.3 million bushels. This production was 12% lower than 2016 due to fewer acres planted. Georgia farmers produced 540,000 bushels of grain sorghum this year, the same as last year. This production was due mainly to increased pressure from the sugar cane aphid. During 2017 Georgia hay and forage producers harvested 3% more acres than the previous year and had December ending stocks of 1.24 million tons. This is an increase of 31% more than 2016.

SOYBEAN

Summary of MG V and MG VI Soybean Variety Performance at Six Locations, 2017

Company/Brand	Variety	2017 Yield ¹						Statewide Average	
		Griffin	Calhoun	Athens	Midville	Plains	Tifton	2017	2-Year
----- bu/acre -----									
Maturity Group V									
AGSouth	AGS 537 LL	72.9	70.9	72.2	67.8	56.2	61.6	66.9	64.6
Armor	46-D08	69.7	64.7	83.4	66.0	57.5	48.7	65.0	.
Armor	47-D17	50.1	57.8	80.8	67.8	59.9	66.4	63.8	.
Armor	53-D04	60.1	69.3	79.1	69.8	56.3	52.6	64.5	.
Armor	55-R68	67.7	70.6	78.2	62.2	65.7	51.7	66.0	.
Armor	ARX5607	68.8	60.8	78.7	64.5	62.1	55.7	65.1	.
Bayer	CZ 4748 LL	64.1	66.0	69.9	63.2	56.1	52.4	61.9	.
Bayer	CZ 4820 LL	66.1	73.9	72.0	56.3	50.8	53.1	62.0	.
Bayer	CZ 5147 LL	59.0	69.7	77.4	60.5	57.0	64.7	64.7	64.2
Bayer	CZ 5150 LL	67.4	73.5	75.9	56.7	59.6	54.2	64.6	.
Bayer	CZ 5242 LL	64.6	71.2	72.5	49.6	53.0	58.6	61.6	60.5
Bayer	CZ 5375 RY	57.6	69.0	72.2	58.3	52.0	51.6	60.1	61.7
Bayer	CZ 5515 LL	53.3	60.5	57.6	51.9	56.6	40.0	53.3	55.1
Bayer	CZ 5727 LL	61.3	56.9	68.1	59.9	54.7	54.7	59.3	.
Bayer	CZ 5947 LL	56.2	63.5	66.1	60.8	60.7	50.2	59.6	.
Clemson	TN11-5140	53.4	64.5	68.9	65.7	63.9	58.4	62.5	.
Clemson	TN12-5523R2	71.5	65.0	73.7	67.7	63.6	57.1	66.4	.
Clemson	TN13-5508R2	59.4	63.9	65.0	70.3	61.3	58.3	63.0	.
Clemson	TN13-5746RR1	54.8	62.7	64.0	63.5	61.2	58.3	60.7	.
Dupont Pioneer	P55A49X	68.0	72.3	73.4	78.9	63.9	72.8	71.5	.
Dyna-Gro	39RY57	55.4	63.3	80.2	67.3	62.3	66.0	65.8	67.0
Dyna-Gro	S56XT98	62.5	67.2	72.2	57.2	62.2	59.3	63.4	.
Dyna-Gro	S58RY78	69.6	61.3	71.6	67.6	68.5	56.4	65.8	.
Meherrin	SH 5215 LL	73.0	66.7	57.3	71.7	53.0	62.4	64.0	64.5
Meherrin	SH 5915 LL	64.6	62.0	64.2	64.0	59.0	53.0	61.1	62.0
Monsanto	AG51X8 RR2X/SR	68.5	63.3	65.6	59.7	60.6	53.4	61.8	.
Monsanto	AG55X8 RR2X/SR	70.9	69.2	72.4	63.7	59.6	61.0	66.1	.
Monsanto	AG56X8 RR2X	67.6	65.9	74.6	66.0	61.7	56.7	65.4	.
MorSoy	MS 5607 RXT	55.4	65.9	72.6	63.1	62.9	61.4	63.5	.
Syngenta	S56-B7X	66.4	71.0	72.2	62.2	60.5	25.7	59.6	.
Syngenta	S58-Z4	67.9	74.8	68.5	65.8	63.4	59.9	66.7	63.0
Terral Seed	55A67™	61.9	66.3	78.3	61.8	52.3	56.8	62.9	.
Terral Seed	56A58™	56.3	68.1	72.4	55.4	61.3	50.6	60.7	.
Terral Seed	56R63™	63.7	65.0	51.4	56.2	58.7	50.3	57.6	.
UARK Public Variety	Osage	74.8	62.7	74.1	60.1	58.6	60.9	65.2	64.0
UARK	R11-7999	65.2	66.9	67.7	59.3	53.1	55.8	61.3	.
UARK	R11-8346	62.1	65.3	59.5	53.2	55.4	47.1	57.1	.
UARK	UA 5014C	57.5	63.1	65.4	65.4	48.3	62.1	60.3	.
UARK	UA 5414RR	52.9	58.6	61.5	60.4	51.4	57.0	56.9	58.5
UARK	UA 5715GT	66.5	60.1	60.3	65.8	63.4	58.3	62.4	.

Summary of MG V and MG VI Soybean Variety Performance at Six Locations, 2017 (Continued)

Company/Brand	Variety	2017 Yield ¹						Statewide Average	
		Griffin	Calhoun	Athens	Midville	Plains	Tifton	2017	2-Year
----- bu/acre -----									
<u>Maturity Group V - continued</u>									
USDA-ARS	JTN-5110	60.2	56.1	59.1	60.2	62.6	48.0	57.7	59.5
Virginia Tech	V12-1416	63.0	70.2	71.6	64.3	57.8	64.3	65.2	63.1
Virginia Tech	V11-2187	61.2	49.3	64.5	59.3	45.4	22.4	50.3	.
Virginia Tech	V11-3485	60.6	60.1	67.8	59.6	48.8	58.2	59.2	.
Virginia Tech	V12-0045 R2	57.2	69.8	68.9	66.3	57.4	64.0	63.9	.
Virginia Tech	V13-3833	68.6	67.2	77.4	77.7	54.8	70.5	69.4	.
Virginia Tech	V14-4140	53.8	61.1	71.4	54.5	60.2	57.7	59.8	.
Winfield	RX 5917	48.8	60.8	66.2	49.0	58.8	46.8	55.1	.
Average		62.5	65.2	70.0	62.5	58.2	55.6	62.3	61.9
LSD at 10% Level		8.8	5.7	7.7	7.8	7.9	8.6	3.3	2.4
Std. Err. of Entry Mean		3.7	2.4	3.3	3.3	3.4	3.7	1.4	1.0
<u>Maturity Group VI</u>									
AGSouth	AGS 644 R2X	51.1	60.3	66.0	57.5	63.5	55.5	59.0	.
AGSouth	AGS 677 LL	57.4	63.7	66.5	60.1	55.9	65.7	61.5	.
Armor	67-R67	56.7	62.8	60.2	50.9	60.1	49.8	56.8	.
Armor	ARX6907	53.9	59.8	62.0	57.2	65.2	58.4	59.4	.
Bayer	CZ 6060 RY	55.4	59.0	72.3	56.8	67.0	62.5	62.2	61.8
Bayer	CZ 6109 LL	55.5	62.6	67.3	59.9	59.6	58.6	60.6	58.9
Bayer	CZ 6316 LL	51.3	63.9	63.5	52.4	59.2	58.0	58.1	59.0
Bayer	CZ 6515 LL	45.8	62.3	61.1	53.4	49.2	57.0	54.8	.
Dupont Pioneer	P67T90R2	45.3	64.5	64.2	60.0	65.4	58.3	59.6	.
Dyna-Gro	S64XT18	51.2	61.3	62.8	53.0	60.5	54.8	57.3	.
Dyna-Gro	S65RY73	61.6	62.7	70.0	66.6	61.0	58.4	63.4	63.1
Dyna-Gro	S69XT57	51.5	62.4	56.9	53.7	69.4	56.1	58.3	58.3
Meherrin	SH 6215 LL	45.6	56.7	52.9	56.6	53.5	49.2	52.4	53.8
Meherrin	SH 6515 LL	62.6	64.3	64.8	62.4	61.7	59.7	62.6	62.4
Meherrin	SH 6815 LL	54.0	61.5	70.1	60.8	60.5	60.0	61.2	59.3
Monsanto	AG64X8 RR2X	46.1	60.6	63.4	56.8	60.4	63.8	58.5	.
MorSoy	MS 6027 RXT	49.4	53.4	66.7	48.5	54.2	52.5	54.1	.
MorSoy	MS 6937 RXT	50.5	63.5	63.7	59.8	62.1	57.6	59.5	.
Syngenta	S64-T4X	53.4	64.6	80.6	53.4	55.4	.	61.5	.
Syngenta	S65-J5	54.5	66.5	70.7	61.4	60.0	62.8	62.7	.
Syngenta	S67-B7	56.9	66.5	78.4	65.1	62.8	61.3	65.2	66.8
TA Seeds	TS6269 R2X	53.8	61.5	67.1	52.9	55.2	52.5	57.2	.
TA Seeds	TS6989 R2X	55.1	63.5	70.0	55.2	63.6	61.7	61.5	.
UGA	G12-1475R2	58.2	61.1	70.0	55.4	63.4	65.1	62.2	.
UGA	G13-2842R2	59.9	61.3	70.8	61.3	58.9	62.1	62.4	.

Summary of MG V and MG VI Soybean Variety Performance at Six Locations, 2017 (Continued)

Company/Brand	Variety	2017 Yield ¹						Statewide Average	
		Griffin	Calhoun	Athens	Midville	Plains	Tifton	2017	2-Year
----- bu/acre -----									
Maturity Group VI - continued									
UGA	G13-2947R2	42.0	61.6	63.9	58.7	51.7	55.4	55.6	.
USG	7648XT	52.7	66.2	64.5	51.9	68.9	52.2	59.4	.
USG	7697XT	50.0	61.4	62.2	54.1	61.1	53.5	57.1	.
USG	7698XT	54.9	62.2	65.5	54.0	57.3	56.8	58.4	.
Winfield	RX 6467	51.6	58.2	67.1	59.4	64.8	50.2	58.6	.
Average		52.9	62.0	66.2	57.0	60.4	57.6	59.3	60.4
LSD at 10% Level		6.4	6.9	5.5	7.0	7.5	6.1	2.7	2.2
Std. Err. of Entry Mean		2.7	2.9	2.3	3.0	3.2	2.6	0.6	0.3

1. Yields calculated at 13% moisture.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Summary of MG VII and MG VIII Soybean Variety Performance at Six Locations, 2017

Company/Brand	Variety	2017 Yield ¹						Statewide Average	
		Late-Planted		Early-Planted				2017	2-Year
		Griffin	Plains	Athens	Midville	Plains	Tifton		
----- bu/acre -----									
<u>Maturity Groups VII and VIII</u>									
AGSouth	AGS 700 R2X	51.6	44.2	56.6	53.9	49.8	49.8	50.9	.
AGSouth	AGS 738 RR	49.9	44.4	60.0	56.2	56.9	53.3	52.5	53.4
AGSouth	AGS 747-LL	52.2	35.1	62.6	61.0	58.1	51.7	52.5	52.8
AGSouth	AGS 798 R2	45.6	49.5	51.5	46.7	56.8	48.2	50.4	53.5
AGSouth	AGS 828 RR	43.1	33.9	56.8	49.1	41.4	40.1	44.8	46.9
Armor	72-R72	46.6	42.1	57.7	53.3	47.8	48.5	49.2	.
Armor	75-D72	46.7	42.2	58.0	59.2	49.0	41.4	49.3	.
Bayer	CZ 7007 LL	45.4	37.7	57.6	47.8	54.0	51.7	49.0	48.7
Bayer	CZ 7008 LL	42.7	26.6	60.9	44.3	44.0	41.2	44.2	.
Bayer	CZ 7070 RY	49.4	38.8	62.3	59.5	54.2	54.7	52.4	.
Bayer	CZ 7132 LL	49.1	33.0	50.9	51.9	53.3	44.1	48.9	47.1
Clemson Public Variety	Cheraw	44.8	21.8	50.1	55.8	43.7	50.7	46.2	44.6
Clemson Public Variety	Paul	37.5	39.6	46.4	54.6	42.7	33.1	44.3	47.4
Clemson Public Variety	Santee	48.4	42.1	45.8	53.4	51.9	42.7	49.0	50.2
Clemson	SC07-108RR	41.4	42.3	50.4	49.5	43.1	37.0	45.2	45.5
Clemson	SC07-1490RR	37.6	36.8	53.2	51.4	44.8	39.9	44.5	45.2
Clemson	SC07-1518RR	47.4	31.1	48.4	53.6	40.5	44.3	45.4	.
Clemson	SC10-07	37.7	34.4	41.8	49.9	43.6	41.7	44.0	.
Clemson	SC10-455RR	25.4	19.9	52.1	43.9	30.4	32.2	33.5	.
Dupont Pioneer	P72A21X	51.7	46.6	69.8	56.8	56.3	51.1	51.4	.
Dupont Pioneer	P76T54R2	47.5	41.8	59.1	56.2	47.7	50.0	49.3	52.7
Dyna-Gro	S72RS36	48.5	42.1	54.0	53.4	50.2	51.4	49.2	52.1
Dyna-Gro	S75XT26	49.3	45.0	54.8	59.2	50.7	48.0	51.5	51.7
Dyna-Gro	S77RY85	41.7	53.1	65.8	51.5	50.5	44.7	49.4	.
GSDC Public Variety	Cook	42.8	32.5	57.0	50.2	36.7	40.7	44.1	46.0
Meherrin	SH 6215 LL	46.4	36.1	50.7	50.7	48.3	42.1	46.8	46.9
Meherrin	SH 7116 LL	47.5	36.9	51.8	48.1	43.3	45.9	45.9	47.0
Meherrin	SH 7218 LL	55.5	43.8	53.1	62.2	56.5	51.3	54.0	53.6
Monsanto	AG74X8 RR2X	48.8	48.9	60.8	58.1	52.8	48.4	51.7	.
MorSoy	MS 7057 RXT	48.6	39.4	55.8	57.2	53.6	54.8	50.7	.
Syngenta	S74-M3	48.9	43.9	55.4	64.9	51.1	53.9	51.9	53.9
TA Seeds	TS8059R2	40.6	44.8	52.3	42.1	46.0	41.5	44.9	45.5
UGA	G11-1614R2	47.7	41.8	60.8	46.7	52.9	46.5	47.8	.
UGA	G12-2062R2	51.6	36.8	49.8	51.9	51.9	49.2	49.5	.
UGA	G12-2103R2	49.2	35.3	61.6	61.0	52.1	53.4	49.7	49.8
UGA	G12-2259R2	49.8	36.4	43.3	55.1	48.6	50.4	48.8	49.9
UGA	G12-6386	51.3	36.0	66.5	54.9	51.2	46.3	49.9	.
UGA	G12-6543	51.4	47.0	49.9	51.0	57.2	50.2	52.3	51.4
UGA	G13-1269R2	51.0	49.4	41.6	53.2	60.1	39.4	50.5	.
UGA	G13-2114R2	53.5	44.9	44.8	53.6	58.4	52.3	53.9	.

Summary of MG VII and MG VIII Soybean Variety Performance at Six Locations, 2017 (Continued)

Company/Brand	Variety	2017 Yield ¹						Statewide Average	
		Late-Planted		Early-Planted				2017	2-Year
		Griffin	Plains	Athens	Midville	Plains	Tifton		
		----- bu/acre -----							
Maturity Groups VII and VIII									
UGA	G13-2369R2	52.5	42.6	58.1	58.3	54.5	40.5	51.2	.
UGA	G13-2454R2	54.4	46.7	41.5	55.3	57.1	50.3	52.9	.
UGA	G13-2755R2	50.3	35.2	55.4	62.2	54.2	51.2	50.4	.
UGA	G13-3461R2	46.0	38.7	62.8	48.3	45.7	44.9	47.3	.
UGA	G13-62.99	53.8	36.0	57.4	54.5	51.3	17.2	43.8	.
USDA/NCSU	N7003CN	45.2	37.4	71.2	51.0	53.6	46.4	49.9	.
USDA/NCSU	N8002	44.8	34.9	54.4	45.3	50.9	43.6	46.1	.
USG	77J25RS	47.6	36.4	57.7	55.1	50.8	46.9	47.8	50.2
Winfield	RX 7516	46.8	43.3	53.8	57.0	46.7	48.6	48.7	.
Average		47.1	39.4	55.0	53.5	49.9	45.9	48.5	49.4
LSD at 10% Level		4.3	6.9	6.9	5.9	7.1	5.7	3.6	2.5
Std. Err. of Entry Mean		1.8	2.9	2.9	2.5	3.0	2.4	1.5	1.1

1. Yields calculated at 13% moisture.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Regional Summary of MG V and MG VI Soybean Variety Performance, 2017

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
<u>Maturity Group V</u>							
AGSouth	AGS 537 LL	61.9	62.9	72.0	66.3	66.9	64.6
Armor	46-D08	57.4	.	72.6	.	65.0	.
Armor	47-D17	64.7	.	62.9	.	63.8	.
Armor	53-D04	59.6	.	69.5	.	64.5	.
Armor	55-R68	59.9	.	72.1	.	66.0	.
Armor	ARX5607	60.8	.	69.4	.	65.1	.
Bayer	CZ 4748 LL	57.2	.	66.6	.	61.9	.
Bayer	CZ 4820 LL	55.0	.	70.7	.	62.8	.
Bayer	CZ 5147 LL	63.1	62.9	68.7	66.6	65.9	64.8
Bayer	CZ 5150 LL	56.8	.	72.3	.	64.6	.
Bayer	CZ 5242 LL	54.9	58.0	69.4	63.5	62.1	60.7
Bayer	CZ 5375 RY	54.0	58.5	66.3	64.8	60.1	61.7
Bayer	CZ 5515 LL	49.5	55.5	57.1	54.7	53.3	55.1
Bayer	CZ 5727 LL	56.4	.	62.1	.	59.3	.
Bayer	CZ 5947 LL	57.2	.	62.0	.	59.6	.
Clemson	TN11-5140	62.7	.	62.3	.	62.5	.
Clemson	TN12-5523R2	62.8	.	70.1	.	66.4	.
Clemson	TN13-5508R2	63.3	.	62.8	.	63.0	.
Clemson	TN13-5746RR1	61.0	.	60.5	.	60.7	.
Dupont Pioneer	P55A49X	71.9	.	71.2	.	71.5	.
Dyna-Gro	39RY57	65.2	67.3	66.3	66.6	65.8	67.0
Dyna-Gro	S56XT98	60.2	.	67.3	.	63.7	.
Dyna-Gro	S58RY78	64.2	.	67.5	.	65.8	.
Meherrin	SH 5215 LL	62.4	62.8	65.7	66.2	64.0	64.5
Meherrin	SH 5915 LL	58.7	62.2	63.6	61.9	61.1	62.0
Monsanto	AG51X8 RR2X/SR	60.2	.	65.8	.	63.0	.
Monsanto	AG55X8 RR2X/SR	61.4	.	70.8	.	66.1	.
Monsanto	AG56X8 RR2X	61.5	.	69.3	.	65.4	.
MorSoy	MS 5607 RXT	62.4	.	64.6	.	63.5	.
Syngenta	S56-B7X	49.5	.	69.8	.	59.6	.
Syngenta	S58-Z4	63.0	62.8	70.4	63.1	66.7	62.9
Terral Seed	55A67™	57.3	.	68.8	.	63.1	.
Terral Seed	56A58™	59.8	.	65.6	.	62.7	.
Terral Seed	56R63™	55.0	.	60.1	.	57.6	.
UARK Public Variety	Osage	59.9	60.8	70.5	67.1	65.2	64.0
UARK	R11-7999	56.1	.	66.6	.	61.3	.
UARK	R11-8346	54.3	.	62.3	.	58.3	.
UARK	UA 5014C	59.7	.	62.0	.	60.8	.
UARK	UA 5414RR	56.3	59.4	57.6	57.6	56.9	58.5
UARK	UA 5715GT	62.5	.	62.3	.	62.4	.

Regional Summary of MG V and MG VI Soybean Variety Performance, 2017 (Continued)

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
Maturity Group V - continued							
USDA-ARS	JTN-5110	57.0	58.5	58.5	60.6	57.7	59.5
Virginia Tech	V11-2187	42.3	.	58.3	.	50.3	.
Virginia Tech	V11-3485	55.5	.	62.8	.	59.2	.
Virginia Tech	V12-0045 R2	62.5	.	65.3	.	63.9	.
Virginia Tech	V12-1416	62.1	61.9	68.3	64.3	65.2	63.1
Virginia Tech	V13-3833	67.7	.	71.1	.	69.4	.
Virginia Tech	V14-4140	57.5	.	62.1	.	59.8	.
Winfield	RX 5917	51.5	.	58.6	.	55.1	.
Average		59.1	60.9	65.9	63.1	62.5	62.0
LSD at 10% Level		3.9	3.0	5.1	3.9	3.2	2.4
Std. Err. of Entry Mean		1.7	1.3	2.2	1.6	1.4	1.0
Maturity Group VI							
AGSouth	AGS 644 R2X	58.8	.	59.1	.	59.0	.
AGSouth	AGS 677 LL	60.6	.	62.5	.	61.5	.
Armor	67-R67	53.6	.	59.9	.	56.8	.
Armor	ARX6907	60.2	.	58.6	.	59.4	.
Bayer	CZ 6060 RY	62.1	63.2	62.2	60.3	62.2	61.8
Bayer	CZ 6109 LL	59.4	64.0	61.8	53.9	60.6	58.9
Bayer	CZ 6316 LL	56.5	59.9	59.6	58.0	58.1	59.0
Bayer	CZ 6515 LL	53.2	.	56.4	.	54.8	.
Dupont Pioneer	P67T90R2	61.2	.	58.0	.	59.6	.
Dyna-Gro	S64XT18	56.1	.	58.4	.	57.3	.
Dyna-Gro	S65RY73	62.0	63.7	64.8	62.5	63.4	63.1
Dyna-Gro	S69XT57	59.8	61.3	56.9	55.3	58.3	58.3
Meherrin	SH 6215 LL	53.1	56.9	51.8	50.8	52.4	53.8
Meherrin	SH 6515 LL	61.3	62.8	63.9	62.0	62.6	62.4
Meherrin	SH 6815 LL	60.4	61.6	61.9	56.9	61.2	59.3
Monsanto	AG64X8 RR2X	60.3	.	56.7	.	58.5	.
MorSoy	MS 6027 RXT	51.7	.	56.5	.	54.1	.
MorSoy	MS 6937 RXT	59.8	.	59.2	.	59.5	.
Syngenta	S64-T4X	54.4	.	66.2	.	61.5	.
Syngenta	S65-J5	61.4	.	63.9	.	62.7	.
Syngenta	S67-B7	63.1	66.8	67.2	66.9	65.2	66.8
TA Seeds	TS6269 R2X	53.5	.	60.8	.	57.2	.
TA Seeds	TS6989 R2X	60.2	.	62.9	.	61.5	.
UGA	G12-1475R2	61.3	.	63.1	.	62.2	.
UGA	G13-2842R2	60.8	.	64.0	.	62.4	.

Regional Summary of MG V and MG VI Soybean Variety Performance, 2017 (Continued)

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
Maturity Group VI - continued							
UGA	G13-2947R2	55.3	.	55.9	.	55.6	.
USG	7648XT	57.7	.	61.1	.	59.4	.
USG	7697XT	56.2	.	57.9	.	57.1	.
USG	7698XT	56.0	.	60.8	.	58.4	.
Winfield	RX 6467	58.2	.	59.0	.	58.6	.
Average		58.4	62.2	60.4	58.5	59.3	60.4
LSD at 10% Level		3.8	2.8	3.9	3.5	2.7	2.2
Std. Err. of Entry Mean		1.6	1.2	1.2	1.5	1.1	1.0

1. Yields calculated at 13% moisture.

2. Midville, Plains and Tifton.

3. Athens, Calhoun and Griffin

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Regional Summary of MG VII and MG VIII Soybean Variety Performance, 2017

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
Maturity Groups VII and VIII							
AGSouth	AGS 700 R2X	49.4	.	54.1	.	51.0	.
AGSouth	AGS 738 RR	52.7	57.2	54.9	50.3	53.4	53.8
AGSouth	AGS 747-LL	51.5	56.9	57.4	51.5	53.5	53.3
AGSouth	AGS 798 R2	50.3	55.3	48.5	50.2	49.7	53.2
AGSouth	AGS 828 RR	41.1	47.3	50.0	48.4	44.1	46.6
Armor	72-R72	47.9	.	52.2	.	49.3	.
Armor	75-D72	48.0	.	52.4	.	49.4	.
Bayer	CZ 7007 LL	47.8	51.0	51.5	47.3	49.1	48.7
Bayer	CZ 7008 LL	39.0	.	51.8	.	43.3	.
Bayer	CZ 7070 RY	51.8	.	55.8	.	53.2	.
Bayer	CZ 7132 LL	45.6	49.7	50.0	43.4	47.1	46.2
Clemson Public Variety	Cheraw	43.0	47.0	48.5	44.0	44.8	43.9
Clemson Public Variety	Paul	42.5	49.0	43.8	44.6	42.9	46.8
Clemson Public Variety	Santee	47.5	52.9	47.4	45.0	47.5	49.4
Clemson	10-455RR	31.6	.	33.6	.	32.3	.
Clemson	SC07-108RR	43.0	46.7	43.6	41.1	43.2	44.5
Clemson	SC07-1490RR	43.2	47.6	44.0	41.5	43.5	44.7
Clemson	SC07-1518RR	42.4	.	50.3	.	45.0	.
Clemson	SC10-07	42.4	.	43.1	.	42.6	.
Dupont Pioneer	P72A21X	52.7	.	60.8	.	55.4	.
Dupont Pioneer	P76T54R2	48.9	55.3	53.3	52.5	50.4	53.3
Dyna-Gro	S72RS36	49.3	54.3	51.3	51.8	49.9	52.5
Dyna-Gro	S75XT26	50.7	54.5	52.1	48.2	51.2	51.6
Dyna-Gro	S77RY85	49.9	.	53.8	.	51.2	.
GSDC Public Variety	Cook	40.0	47.0	49.9	46.5	43.3	45.6
Meherrin	SH 6215 LL	44.3	49.7	48.6	43.3	45.7	46.4
Meherrin	SH 7116 LL	43.5	48.4	49.6	46.6	45.6	46.8
Meherrin	SH 7218 LL	53.5	56.8	54.3	50.2	53.7	53.5
Monsanto	AG74X8 RR2X	52.1	.	54.8	.	53.0	.
MorSoy	MS 7057 RXT	51.2	.	52.2	.	51.6	.
Syngenta	S74-M3	53.4	57.9	52.1	51.1	53.0	54.5
TA Seeds	TS8059R2	43.6	46.9	46.5	42.7	44.6	45.4
UGA	G11-1614R2	47.0	.	54.3	.	49.4	.
UGA	G12-2062R2	47.4	.	50.7	.	48.5	.
UGA	G12-2103R2	50.4	53.1	55.4	51.3	52.1	51.0
UGA	G12-2259R2	47.6	51.7	46.6	47.9	47.3	49.2
UGA	G12-6386	47.1	.	50.6	.	48.3	.
UGA	G12-6543	51.4	53.1	46.5	45.6	49.7	50.1
UGA	G13-1269R2	50.5	.	47.9	.	49.7	.
UGA	G13-2114R2	52.3	.	55.8	.	53.5	.

Regional Summary of MG VII and MG VIII Soybean Variety Performance, 2017 (Continued)

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
Maturity Groups VII and VIII - continued							
UGA	G13-2369R2	49.0	.	47.0	.	48.3	.
UGA	G13-2454R2	52.3	.	54.9	.	53.2	.
UGA	G13-2755R2	50.7	.	56.5	.	52.6	.
UGA	G13-3461R2	44.4	.	51.7	.	46.8	.
UGA	G13-6299	39.8	.	60.1	.	46.5	.
USDA/NCSU	N7003CN	47.1	.	58.2	.	50.8	.
USDA/NCSU	N8002	43.6	.	49.6	.	45.6	.
USG	77J25RS	47.3	53.3	52.6	50.1	49.1	50.8
Winfield	RX 7516	48.9	.	50.3	.	49.4	.
Average		47.2	51.8	51.0	47.3	48.5	49.2
LSD at 10% Level		4.5	3.2	NS ⁴	3.8	3.3	2.3
Std. Err. of Entry Mean		1.9	1.3	2.5	1.6	1.4	1.0

1. Yields calculated at 13% moisture.
2. Midville, Plains, Plains Late-Planted, and Tifton.
3. Athens, Griffin, and Griffin Late-Planted.
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Tifton, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V</u>									
Dyna-Gro	39RY57	74.5	4	66.0	09/26	34	4.0	16.0	1.5
Bayer	CZ 5147 LL	63.7	5	64.7	09/23	27	2.7	14.8	1.5
Virginia Tech	V12-1416	63.3	6	64.3	10/04	31	2.3	14.9	1.5
UARK	Osage	62.8	13	60.9	09/28	27	3.7	13.3	1.5
Meherrin	SH 5215 LL	61.8	8	62.4	09/18	39	4.0	13.5	1.5
Meherrin	SH 5915 LL	60.1	31	53.0	09/27	35	4.3	15.3	1.5
Bayer	CZ 5242 LL	59.8	16	58.6	09/19	41	5.0	12.4	1.5
UARK	UA 5414RR	59.2	22	57.0	09/29	33	4.7	14.5	2.3
Syngenta	S58-Z4	58.5	14	59.9	10/03	32	4.0	13.9	1.5
Bayer	CZ 5375 RY	57.4	35	51.6	09/27	29	3.7	13.9	1.5
USDA-ARS	JTN-5110	53.4	40	48.0	09/29	32	4.0	16.6	1.7
Bayer	CZ 5515 LL	53.4	43	40.0	09/27	43	5.0	14.1	1.5
Dupont Pioneer	P55A49X	.	1	72.8	09/27	29	1.7	13.9	1.7
Virginia Tech	V13-3833	.	2	70.5	09/23	29	1.3	15.1	1.7
Armor	47-D17	.	3	66.4	09/26	37	4.0	13.8	2.2
Virginia Tech	V12-0045 R2	.	7	64.0	09/27	29	2.7	16.7	1.8
UARK	UA 5014C	.	9	62.1	09/22	29	3.3	17.1	1.7
AGSouth	AGS 537 LL	.	10	61.6	09/23	39	3.3	12.8	1.8
MorSoy	MS 5607 RXT	.	11	61.4	09/26	31	3.0	15.8	2.2
Monsanto	AG55X8 RR2X/SR	.	12	61.0	10/01	45	4.7	16.1	2.0
Dyna-Gro	S56XT98	.	15	59.3	09/24	31	3.0	15.6	1.7
Clemson	TN11-5140	.	17	58.4	09/29	33	4.7	13.5	1.5
Clemson	TN13-5508R2	.	18 ^T	58.3	09/29	33	4.7	14.7	1.5
UARK	UA 5715GT	.	18 ^T	58.3	09/30	35	4.0	13.0	1.5
Clemson	TN13-5746RR1	.	18 ^T	58.3	10/03	35	2.3	14.0	1.5
Virginia Tech	V11-3485	.	19	58.2	09/25	26	3.7	14.9	1.7
Virginia Tech	V14-4140	.	20	57.7	09/22	33	3.7	14.4	2.0
Clemson	TN12-5523R2	.	21	57.1	10/03	31	2.7	12.5	1.7
Terral Seed	55A67™	.	23	56.8	09/25	29	3.3	14.1	1.7
Monsanto	AG56X8 RR2X	.	24	56.7	09/29	31	3.7	15.5	1.8
Dyna-Gro	S58RY78	.	25	56.4	09/27	31	2.3	12.9	1.5
UARK	R11-7999	.	26	55.8	10/01	30	4.3	13.9	1.5
Armor	ARX5607	.	27 ^T	55.7	09/24	31	4.0	15.3	1.5
Bayer	CZ 5727 LL	.	27 ^T	54.7	09/25	34	5.0	15.6	1.5
Bayer	CZ 5150 LL	.	28	54.2	09/30	37	4.3	13.1	1.7
Monsanto	AG51X8 RR2X/SR	.	29	53.4	09/30	41	4.0	16.4	2.5
Bayer	CZ 4820 LL	.	30	53.1	09/22	38	3.7	13.9	3.2
Armor	53-D04	.	32	52.6	09/26	31	2.0	14.7	1.8
Bayer	CZ 4748 LL	.	33	52.4	09/27	36	3.7	14.5	2.8
Armor	55-R68	.	34	51.7	09/29	34	4.7	14.7	1.7

Tifton, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V - continued</u>									
Terral Seed	56A58™	.	36	50.6	09/29	32	4.0	14.9	2.0
Terral Seed	56R63™	.	37	50.3	09/26	35	5.0	14.9	1.5
Bayer	CZ 5947 LL	.	38	50.2	10/01	31	4.3	11.2	1.5
Armor	46-D08	.	39	48.7	09/24	37	3.3	13.7	3.2
UARK	R11-8346	.	41	47.1	09/29	24	3.3	14.1	1.5
Winfield	RX 5917	.	42	46.8	10/02	34	4.0	11.1	1.5
Syngenta	S56-B7X	.	44	25.7	10/05	27	3.0	14.6	2.7
Virginia Tech	V11-2187	.	45	22.4	09/16	37	3.7	12.7	2.8
Average		60.6		55.6 ⁴	09/27	33	3.7	14.3	1.8
LSD at 10% Level		11.7		8.6	01	2.2	0.1	1.3	0.4
Std Err. of Entry Mean		2.6		3.7	01	1	0.1	0.5	0.2
<u>Maturity Group VI</u>									
Bayer	CZ 6109 LL	63.9	11	58.6	10/04	32	1.7	15.1	1.5
Bayer	CZ 6060 RY	63.2	5	62.5	09/26	29	1.7	15.2	1.5
Dyna-Gro	S65RY73	61.4	12 ^T	58.4	10/07	29	3.3	8.6	1.5
Meherrin	SH 6515 LL	61.3	10	59.7	10/02	29	2.7	14.7	1.5
Bayer	CZ 6316 LL	60.6	14	58.0	10/06	32	2.7	12.7	1.5
Syngenta	S67-B7	59.9	8	61.3	10/01	36	3.7	15.1	1.5
Meherrin	SH 6815 LL	59.8	9	60.0	10/07	33	4.0	15.0	1.5
Dyna-Gro	S69XT57	57.9	18	56.1	10/09	31	2.7	13.1	1.5
Meherrin	SH 6215 LL	51.4	27	49.2	10/09	35	4.0	12.9	1.5
AGSouth	AGS 677 LL	.	1	65.7	10/02	33	2.7	15.1	1.5
UGA	G12-1475R2	.	2	65.1	10/10	33	2.7	12.7	1.5
Monsanto	AG64X8 RR2X	.	3	63.8	10/07	33	3.0	12.4	1.5
Syngenta	S65-J5	.	4	62.8	09/27	35	3.7	12.9	1.5
UGA	G13-2842R2	.	6	62.1	10/10	33	2.0	13.3	1.5
TA Seeds	TS6989 R2X	.	7	61.7	10/10	32	1.3	12.6	1.5
Armor	ARX6907	.	12 ^T	58.4	10/11	34	2.0	12.2	1.5
Dupont Pioneer	P67T90R2	.	13	58.3	10/09	35	3.3	12.9	1.5
MorSoy	MS 6937 RXT	.	15	57.6	10/11	34	1.7	12.3	1.5
Bayer	CZ 6515 LL	.	16	57.0	10/11	31	3.0	12.3	1.5
USG	7698XT	.	17	56.8	10/09	36	3.0	13.1	1.5
AGSouth	AGS 644 R2X	.	19	55.5	10/07	31	2.3	11.0	1.5
UGA	G13-2947R2	.	20	55.4	10/11	30	1.0	11.4	1.5
Dyna-Gro	S64XT18	.	21	54.8	10/05	36	2.3	11.0	1.5
USG	7697XT	.	22	53.5	10/11	34	2.0	12.4	1.5
MorSoy	MS 6027 RXT	.	23 ^T	52.5	10/04	31	2.7	11.4	1.5
TA Seeds	TS6269 R2X	.	23 ^T	52.5	10/08	33	3.0	11.1	1.5
USG	7648XT	.	24	52.2	10/06	33	3.0	10.9	1.5
Winfield	RX 6467	.	25	50.2	10/08	34	3.3	11.0	1.5
Armor	67-R67	.	26	49.8	09/29	33	3.7	11.8	1.5
Syngenta	S64-T4X	.		§	.	28	1.0	13.9	2.2
Average		59.9		57.6 ⁵	10/06	33	2.6	12.7	1.5
LSD at 10% Level		NS ⁶		6.1	01	1	0.6	1.8	0.1
Std Err. of Entry Mean		2.5		2.6	01	1	0.3	0.8	0.03

Tifton, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Groups VII and VIII</u>									
AGSouth	AGS 747-LL	57.9	7 ^T	51.7	10/10	33	3.3	11.6	1.5
Syngenta	S74-M3	57.3	3	53.9	10/08	34	4.0	13.2	1.5
Dupont Pioneer	P76T54R2	56.5	16	50.0	10/11	37	3.7	10.0	1.5
Dyna-Gro	S72RS36	56.1	8	51.4	10/07	35	3.3	11.6	1.5
AGSouth	AGS 798R2	56.1	22	48.2	10/13	33	3.3	11.8	1.5
USG	77J25RS	55.7	24	46.9	10/06	34	3.7	12.2	1.5
AGSouth	AGS 738 RR	55.5	5	53.3	10/08	30	4.3	11.4	1.5
UGA	G12-2103R2	55.1	4	53.4	10/13	35	2.7	12.5	1.5
Dyna-Gro	S75XT26	54.2	23	48.0	10/10	37	4.7	11.0	1.5
Clemson	Cheraw	53.7	12	50.7	10/14	35	3.7	11.5	1.5
Bayer	CZ 7007 LL	52.6	7 ^T	51.7	10/09	37	5.0	13.6	1.5
UGA	G12-2259R2	51.9	13	50.4	10/13	36	2.3	12.5	1.5
Meherrin	SH 7218 LL	51.5	9	51.3	10/09	33	3.0	13.6	1.5
Clemson	Santee	50.8	34	42.7	10/05	37	4.7	11.2	1.5
UGA	G12-6543	49.1	15	50.2	10/12	37	4.7	11.3	1.5
GSDC	Cook	48.2	40	40.7	10/07	36	4.3	11.2	1.5
Meherrin	SH 7116 LL	47.7	28	45.9	10/01	30	3.0	9.2	1.5
Meherrin	SH 6215 LL	47.6	35	42.1	10/08	40	5.0	11.2	1.5
Bayer	CZ 7132 LL	46.7	32	44.1	10/11	45	5.0	13.9	1.8
AGSouth	AGS 828 RR	46.5	42	40.1	10/12	35	4.7	9.9	1.5
TA Seeds	TS8059R2	44.2	37	41.5	10/17	43	3.3	11.6	1.5
Clemson	SC07-108RR	44.1	45	37.0	10/16	43	3.7	10.9	1.5
Clemson	SC07-1490RR	43.4	43	39.9	10/16	39	3.0	11.1	1.5
Clemson	Paul	40.1	46	33.1	10/08	34	4.7	9.4	1.5
MorSoy	MS 7057 RXT	.	1	54.8	10/09	35	2.7	11.3	1.7
Bayer	CZ 7070 RY	.	2	54.7	10/08	35	3.0	10.9	1.5
UGA	G13-2114R2	.	6	52.3	10/10	36	3.7	13.2	1.5
UGA	G13-2755R2	.	10	51.2	10/06	30	1.7	12.7	1.5
Dupont Pioneer	P72A21X	.	11	51.1	10/10	31	3.0	13.1	1.5
UGA	G13-2454R2	.	14	50.3	10/12	36	3.3	12.5	1.5
AGSouth	AGS 700 R2X	.	17	49.8	10/07	35	2.7	8.5	1.5
UGA	G12-2062R2	.	18	49.2	10/10	33	4.7	11.7	1.5
Winfield	RX 7516	.	19	48.6	10/11	38	4.0	12.0	1.5
Armor	72-R72	.	20	48.5	10/07	36	3.7	12.0	1.7
Monsanto	AG74X8 RR2X	.	21	48.4	10/08	33	2.7	12.8	1.5
UGA	G11-1614R2	.	25	46.5	10/10	38	3.3	11.4	1.5
USDA/NCSU	N7003CN	.	26	46.4	10/10	33	4.3	13.4	1.5
UGA	G12-6386	.	27	46.3	10/09	35	5.0	12.1	1.5
UGA	G13-3461R2	.	29	44.9	10/12	35	3.7	10.6	1.5
Dyna-Gro	S77RY85	.	30	44.7	10/12	37	3.0	10.5	1.5
Clemson	SC07-1518RR	.	31	44.3	10/15	41	3.7	11.3	1.5
USDA/NCSU	N8002	.	33	43.6	10/15	32	5.0	11.2	1.5
Clemson	SC10-07	.	36	41.7	10/05	36	5.0	12.5	1.5
Armor	75-D72	.	38	41.4	10/09	37	3.3	10.2	1.5
Bayer	CZ 7008 LL	.	39	41.2	10/09	31	4.0	10.3	1.5

Tifton, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data						
			Rank	Yield ¹	Maturity	Plant Ht	Lodg. ²	Wt of 100 Seed	Seed Quality ³
		bu/acre		bu/acre	date	in	rating	gm	rating
Maturity Groups VII and VIII - continued									
UGA	G13-2369R2	.	41	40.5	10/12	33	5.0	11.2	1.5
UGA	G13-1269R2	.	44	39.4	10/07	34	4.7	10.4	1.5
Clemson	10-455RR	.	47	32.2	10/14	39	4.0	10.3	1.5
UGA	G13-6299	.	48	17.2	10/08	32	3.7	12.2	1.7
Average		50.9		45.9 ⁷	10/09	35	3.8	11.5	1.5
LSD at 10% Level		6.8		5.7	01	2	1.0	1.4	0.1
Std Err. of Entry Mean		1.9		2.4	01	1	0.4	0.6	0.1

§ Plants died prematurely, resulting in unreliable harvest data.

1. Yields calculated at 13% moisture.

2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).

3. Seed quality rating: Rated 1 (very good) to 5 (very poor).

4. CV = 11.4% and df for EMS = 94.

5. CV = 7.7% and df for EMS = 56.

6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

7. CV = 9.1% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 26, 2017.

Harvested: October 21, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Very High, K = High, and pH = 6.0.

Fertilization: 0 lb N, 50 lb P₂O₅, 90 lb K₂O, and 1000 lb dolomitic lime/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled/bedded, and rototilled; Warrant, Select Max, Basagran, and Ultra Blazer used for weed control; Bifenthrin, Knack, Blackhawk, and Belt used for insect control; Telone II used for nematode control; irrigated 8 inches.

D. Dunn, R. Brooke, M. Cofield, and K. Cawley.

Plains, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
<u>Maturity Group V</u>							
Meherrin	SH 5915 LL	62.3	20	59.0	09/27	30	3.7
Syngenta	S58-Z4	61.7	5 ^T	63.4	10/11	27	2.3
Dyna-Gro	39RY57	60.0	8	62.3	10/04	31	3.3
USDA-ARS	JTN-5110	59.8	7	62.6	09/25	31	3.7
UARK	Osage	58.4	23	58.6	10/01	23	1.7
Meherrin	SH 5215 LL	57.6	36 ^T	53.0	09/26	34	2.7
Bayer	CZ 5147 LL	57.2	27	57.0	10/01	23	1.0
Bayer	CZ 5515 LL	56.6	28	56.6	10/03	39	4.7
Bayer	CZ 5375 RY	56.5	38	52.0	10/03	23	1.3
Bayer	CZ 5242 LL	56.2	36 ^T	53.0	10/04	33	4.3
UARK	UA 5414RR	55.3	39	51.4	09/26	29	4.3
Virginia Tech	V12-1416	54.4	24	57.8	10/05	25	1.0
Dyna-Gro	S58RY78	.	1	68.5	10/09	25	1.0
Armor	55-R68	.	2	65.7	10/02	30	3.7
Clemson	TN11-5140	.	3 ^T	63.9	10/09	29	2.3
Dupont Pioneer	P55A49X	.	3 ^T	63.9	10/03	23	1.3
Clemson	TN12-5523R2	.	4	63.6	10/04	30	2.7
UARK	UA 5715GT	.	5 ^T	63.4	10/09	33	3.3
MorSoy	MS 5607 RXT	.	6	62.9	09/29	29	3.3
Dyna-Gro	S56XT98	.	9	62.2	09/29	29	3.7
Armor	ARX5607	.	10	62.1	09/30	29	3.3
Monsanto	AG56X8 RR2X	.	11	61.7	09/26	29	4.0
Clemson	TN13-5508R2	.	12 ^T	61.3	10/05	26	2.3
Terral Seed	56A58™	.	12 ^T	61.3	10/04	27	3.7
Clemson	TN13-5746RR1	.	13	61.2	10/10	32	1.7
Bayer	CZ 5947 LL	.	14	60.7	10/09	29	4.3
Monsanto	AG51X8 RR2X/SR	.	15	60.6	09/26	39	3.3
Syngenta	S56-B7X	.	16	60.5	10/05	27	2.7
Virginia Tech	V14-4140	.	17	60.2	09/25	25	2.3
Armor	47-D17	.	18	59.9	09/23	35	4.0
Bayer	CZ 5150 LL	.	19 ^T	59.6	09/30	35	3.0
Monsanto	AG55X8 RR2X/SR	.	19 ^T	59.6	10/06	37	3.3
Winfield	RX 5917	.	21	58.8	10/11	32	3.3
Terral Seed	56R63™	.	22	58.7	10/03	35	4.3
Armor	46-D08	.	25	57.5	09/19	32	4.0
Virginia Tech	V12-0045 R2	.	26	57.4	09/29	23	2.3
Armor	53-D04	.	29	56.3	10/04	26	2.0
AGSouth	AGS 537 LL	.	30	56.2	09/25	33	3.0
Bayer	CZ 4748 LL	.	31	56.1	09/25	29	4.0
UARK	R11-8346	.	32	55.4	10/03	27	3.0

Plains, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year	2017 Data				
		Average Yield bu/acre	Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
Maturity Group V - continued							
Virginia Tech	V13-3833	.	33	54.8	09/23	22	1.0
Bayer	CZ 5727 LL	.	34	54.7	10/06	31	4.0
UARK	R11-7999	.	35	53.1	09/30	31	3.3
Terral Seed	55A67™	.	37	52.3	10/03	25	4.0
Bayer	CZ 4820 LL	.	40	50.8	09/22	30	2.7
Virginia Tech	V11-3485	.	41	48.8	10/01	23	2.0
UARK	UA 5014C	.	42	48.3	09/23	23	1.0
Virginia Tech	V11-2187	.	43	45.4	09/16	31	3.7
Average		58.0		58.2 ³	09/30	29	2.9
LSD at 10% Level		NS ⁴		5.7	01	2.8	0.1
Std. Err. of Entry Mean		2.2		2.4	01	1.0	0.1
Maturity Group VI							
Syngenta	S67-B7	66.9	10	62.8	10/11	33	3.3
Bayer	CZ 6060 RY	63.8	3	67.0	10/07	27	2.0
Dyna-Gro	S69XT57	61.4	1	69.4	10/19	34	2.3
Bayer	CZ 6109 LL	59.5	19	59.6	10/11	33	1.0
Dyna-Gro	S65RY73	58.4	14	61.0	10/17	34	3.0
Meherrin	SH 6515 LL	57.1	12	61.7	10/11	30	1.3
Meherrin	SH 6815 LL	55.3	15 ^T	60.5	10/10	33	3.0
Bayer	CZ 6316 LL	54.6	20	59.2	10/15	27	2.0
Meherrin	SH 6215 LL	52.4	27	53.5	10/19	38	3.7
USG	7648XT	.	2	68.9	10/16	34	3.0
Dupont Pioneer	P67T90R2	.	4	65.4	10/19	35	3.0
Armor	ARX6907	.	5	65.2	10/21	36	2.7
Winfield	RX 6467	.	6	64.8	10/18	33	3.0
TA Seeds	TS6989 R2X	.	7	63.6	10/20	35	3.0
AGSouth	AGS 644 R2X	.	8	63.5	10/17	33	2.7
UGA	G12-1475R2	.	9	63.4	10/20	35	3.0
MorSoy	MS 6937 RXT	.	11	62.1	10/21	29	2.3
USG	7697XT	.	13	61.1	10/21	34	2.7
Dyna-Gro	S64XT18	.	15 ^T	60.5	10/17	31	3.0
Monsanto	AG64X8 RR2X	.	16	60.4	10/17	34	3.0
Armor	67-R67	.	17	60.1	10/09	29	3.0
Syngenta	S65-J5	.	18	60.0	10/08	31	3.0
UGA	G13-2842R2	.	21	58.9	10/20	33	3.0
USG	7698XT	.	22	57.3	10/19	36	2.7
AGSouth	AGS 677 LL	.	23	55.9	10/09	28	1.0
Syngenta	S64-T4X	.	24	55.4	10/09	32	5.0
TA Seeds	TS6269 R2X	.	25	55.2	10/18	33	2.7
MorSoy	MS 6027 RXT	.	26	54.2	10/15	36	3.0
UGA	G13-2947R2	.	28	51.7	10/17	35	3.0
Bayer	CZ 6515 LL	.	29	49.2	10/21	34	2.7
Average		58.8		60.4 ⁵	10/15	33	2.7
LSD at 10% Level		NS		6.8	01	2.6	0.1
Std. Err. of Entry Mean		1.8		2.9	01	1.0	0.1

Plains, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
<u>Maturity Groups VII and VIII</u>							
AGSouth	AGS 738 RR	59.1	6	56.9	10/13	31	3.0
Merherrin	SH 7218 LL	56.0	8	56.5	10/14	32	3.3
Bayer	CZ 7132 LL	54.7	14	53.3	10/16	41	4.0
AGSouth	AGS 747-LL	53.9	3	58.1	10/15	35	3.0
Clemson	Santee	53.3	18 ^T	51.9	10/10	39	4.3
AGSouth	AGS 798 R2	53.0	7	56.8	10/18	36	3.0
Syngenta	S74-M3	51.7	21	51.1	10/13	35	3.0
UGA	G12-6543	50.7	4	57.2	10/17	35	3.0
Dyna-Gro	S72RS36	50.2	26	50.2	10/12	34	2.7
Bayer	CZ 7007 LL	49.8	12	54.0	10/14	37	4.3
USG	77J25RS	49.8	23	50.8	10/11	33	3.0
UGA	G12-2103R2	48.4	17	52.1	10/18	35	2.0
Dyna-Gro	S75XT26	48.0	24	50.7	10/15	41	3.0
Dupont Pioneer	P76T54R2	47.7	32	47.7	10/16	36	3.3
Clemson	Paul	47.4	42	42.7	10/13	31	4.0
Meherrin	SH 6215 LL	45.8	30	48.3	10/13	37	4.0
Meherrin	SH 7116 LL	45.7	40	43.3	10/06	29	3.3
UGA	G12-2259R2	45.6	29	48.6	10/18	32	2.0
Clemson	SC07-1490RR	45.5	36	44.8	10/21	42	3.0
AGSouth	AGS 828 RR	43.1	43	41.4	10/17	37	3.7
TA Seeds	TS8059R2	41.8	34	46.0	10/22	39	3.0
Clemson	SC07-108RR	41.0	40	43.1	10/21	43	3.0
GSDC	Cook	40.8	45	36.7	10/12	39	3.3
Clemson	Cheraw	40.6	38	43.7	10/19	35	2.7
UGA	G13-1269R2	.	1	60.1	10/12	37	3.3
UGA	G13-2114R2	.	2	58.4	10/15	33	1.7
UGA	G13-2454R2	.	5	57.1	10/17	36	3.0
Dupont Pioneer	P72A21X	.	9	56.3	10/15	31	3.0
UGA	G13-2369R2	.	10	54.5	10/17	37	3.7
Bayer	CZ 7070 RY	.	11 ^T	54.2	10/13	35	3.0
UGA	G13-2755R2	.	11 ^T	54.2	10/11	31	2.0
MorSoy	MS 7057 RXT	.	13 ^T	53.6	10/14	33	2.3
USDA/NCSU	N7003CN	.	13 ^T	53.6	10/15	35	4.7
UGA	G11-1614R2	.	15	52.9	10/15	38	3.0
Monsanto	AG74X8 RR2X	.	16	52.8	10/13	33	2.7
UGA	G12-2062R2	.	18 ^T	51.9	10/15	37	5.0
UGA	G13-6299	.	19	51.3	10/13	32	3.7
UGA	G12-6386	.	20	51.2	10/14	31	3.0
USDA/NCSU	N8002	.	22	50.9	10/20	35	5.0
Dyna-Gro	S77RY85	.	25	50.5	10/17	36	3.0
AGSouth	AGS 700 R2X	.	27	49.8	10/12	35	3.0
Armor	75-D72	.	28	49.0	10/14	40	3.0
Armor	72-R72	.	31	47.8	10/12	31	2.7
Winfield	RX 7516	.	33	46.7	10/16	39	3.0
UGA	G13-3461R2	.	35	45.7	10/17	36	3.7

Plains, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
Maturity Groups VII and VIII - continued							
Bayer	CZ 7008 LL	.	37	44.0	10/14	34	3.7
Clemson	SC10-07	.	39	43.6	10/10	35	5.0
Clemson	SC07-1518RR	.	44	40.5	10/20	39	2.7
Clemson	10-455RR	.	46	30.4	10/19	38	3.3
Average		48.5		49.9 ⁶	10/14	35	3.2
LSD at 10% Level		7.1		7.1	01	3	0.1
Std. Err. of Entry Mean		2.4		3.0	01	1.1	0.1

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. CV = 7.2% and df for EMS = 94.
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
5. CV = 8.3% and df for EMS = 58.
6. CV = 10.5% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 30, 2017.
Harvested: November 3, 2017.
Seeding Rate: Eight seeds per foot in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = Very High, and pH = 5.8.
Fertilization: 0 lb N, 0 lb P₂O₅, 0 lb K₂O, and 1000 lb dolomitic lime/acre.
Previous Crop: Cotton.
Management: Disked, subsoiled, and rototilled: Prowl, Valor, and Blazer used for weed control; Bifenthrin, Tracer, Indigo, and Interpedregde used for insect control; Domark used for fungal control; irrigated 7.87 inches.

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

Plains, Georgia: Late-Planted Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
Maturity Groups VII and VIII							
AGSouth	AGS 798 R2	42.4	2	49.5	.	28	1.7
Dyna-Gro	S75XT26	41.9	8	45.0	.	29	1.0
AGSouth	AGS 738 RR	40.8	11	44.4	.	26	1.7
Meherrin	SH 7218 LL	40.7	14	43.8	.	25	1.0
Clemson	Santee	40.7	19 ^T	42.1	.	29	3.0
Syngenta	S74-M3	40.6	13	43.9	.	24	1.0
Dupont Pioneer	P76T54R2	40.4	20 ^T	41.8	.	27	2.0
Bayer	CZ 7007 LL	38.0	25	37.7	.	27	2.7
Dyna-Gro	S72RS36	37.1	19 ^T	42.1	.	25	1.7
Clemson	SC07-108RR	37.0	17	42.3	.	31	2.0
UGA	G12-6543	36.8	5	47.0	.	26	1.0
TA Seeds	TS8059R2	36.4	10	44.8	.	26	1.0
UGA	G12-2259R2	36.4	29 ^T	36.4	.	23	1.0
USG	77J25RS	35.6	29 ^T	36.4	.	25	2.0
Meherrin	SH 7116 LL	33.3	27	36.9	.	23	1.7
Clemson	SC07-1490RR	33.3	28 ^T	36.8	.	31	1.7
Meherrin	SH 6215 LL	33.2	30	36.1	.	27	1.3
Clemson	Paul	32.0	21	39.6	.	23	1.0
AGSouth	AGS 747-LL	31.2	34	35.1	.	25	1.0
AGSouth	AGS 828 RR	30.5	37	33.9	.	25	2.7
Bayer	CZ 7132 LL	30.0	38	33.0	.	27	2.7
UGA	G12-2103R2	28.7	32	35.3	.	25	1.0
GSDC	Cook	28.4	39	32.5	.	26	2.0
Clemson	Cheraw	20.0	42	21.8	.	24	1.0
Dyna-Gro	S77RY85	.	1	53.1	.	29	2.0
UGA	G13-1269R2	.	3	49.4	.	29	1.0
Monsanto	AG74X8 RR2X	.	4	48.9	.	26	1.0
UGA	G13-2454R2	.	6	46.7	.	26	1.3
Dupont Pioneer	P72A21X	.	7	46.6	.	25	1.3
UGA	G13-2114R2	.	9	44.9	.	23	1.0
AGSouth	AGS 700 R2X	.	12	44.2	.	25	1.3
Winfield	RX 7516	.	15	43.3	.	29	1.0
UGA	G13-2369R2	.	16	42.6	.	24	1.0
Armor	75-D72	.	18	42.2	.	28	1.0
Armor	72-R72	.	19 ^T	42.1	.	26	2.0
UGA	G11-1614R2	.	20 ^T	41.8	.	29	1.3
MorSoy	MS 7057 RXT	.	22	39.4	.	25	1.0
Bayer	CZ 7070 RY	.	23	38.8	.	24	1.0
UGA	G13-3461R2	.	24	38.7	.	27	2.7
USDA/NCSU	N7003CN	.	26	37.4	.	27	2.3

**Plains, Georgia:
Late-Planted Soybean Variety Performance, 2017, Irrigated
(Continued)**

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
<u>Maturity Groups VII and VIII - continued</u>							
UGA	G12-2062R2	.	28 ^T	36.8	.	23	1.0
UGA	G12-6386	.	31 ^T	36.0	.	23	1.7
UGA	G13-6299	.	31 ^T	36.0	.	27	3.0
UGA	G13-2755R2	.	33	35.2	.	21	1.0
USDA/NCSU	N8002	.	35	34.9	.	21	1.0
Clemson	SC10-07	.	36	34.4	.	28	3.0
Clemson	SC07-1518RR	.	40	31.1	.	26	1.0
Bayer	CZ 7008 LL	.	41	26.6	.	19	1.3
Clemson	10-455RR	.	43	19.9	.	26	1.7
Average		35.2		39.4 ³	.	26	1.5
LSD at 10% Level		6.3		6.9	.	3	0.1
Std. Err. of Entry Mean		2.5		2.9	.	1.2	0.1

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. CV = 13.0% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 27, 2017.

Harvested: November 6, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Greenville sandy loam.

Soil Test: P = Medium, K = Very High, and pH = 5.8.

Fertilization: 0 lb N, 0 lb P₂O₅, 0 lb K₂O, and 1000 lb dolomitic lime/acre.

Previous Crop: Cotton.

Management: Disked, subsoiled, and rototilled; Prowl, Valor, and Blazer used for weed control; Bifenthrin, Tracer, Indigo, and Interpedredge used for insect control; Domark used for fungal control; irrigated 6.7 Inches.

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

Midville, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
Maturity Group V							
Meherrin	SH 5215 LL	69.0	3	71.7	09/29	42	4.0
Syngenta	S58-Z4	68.2	14 ^T	65.8	10/09	41	3.3
Virginia Tech	V12-1416	68.0	18	64.3	10/06	39	3.3
Bayer	CZ 5147 LL	67.8	8 ^T	67.7	09/02	34	3.0
Dyna-Gro	39RY57	67.5	10	67.3	10/05	38	4.3
Meherrin	SH 5915 LL	64.2	19	64.0	10/04	40	4.0
UARK	UA 5414RR	63.7	28	60.4	10/06	41	5.0
USDA-ARS	JTN-5110	62.3	30	60.2	09/30	33	4.7
Bayer	CZ 5375 RY	61.7	36	58.3	10/06	35	3.3
UARK	Osage	61.3	31	60.1	09/29	32	3.7
Bayer	CZ 5242 LL	58.0	40	53.0	09/04	42	4.0
Bayer	CZ 5515 LL	56.4	41	51.9	10/02	49	5.0
Dupont Pioneer	P55A49X	.	1	78.9	10/02	31	3.0
Virginia Tech	V13-3833	.	2	77.7	09/27	29	3.0
Clemson	TN13-5508R2	.	4	70.3	10/08	37	4.0
Armor	53-D04	.	5	69.8	10/04	39	3.0
UARK	UA 5014C	.	6	68.8	08/30	36	3.0
AGSouth	AGS 537 LL	.	7 ^T	67.8	09/27	44	4.7
Armor	47-D17	.	7 ^T	67.8	09/24	44	5.0
Terral Seed	56A58™	.	8 ^T	67.7	09/05	40	3.7
Clemson	TN12-5523R2	.	8 ^T	67.7	10/09	40	4.0
Dyna-Gro	S58RY78	.	9	67.6	10/08	35	3.0
Monsanto	AG51X8 RR2X/SR	.	11	66.5	09/02	46	2.7
Virginia Tech	V12-0045 R2	.	12	66.3	09/30	33	3.0
Armor	46-D08	.	13 ^T	66.0	09/19	45	5.0
Monsanto	AG56X8 RR2X	.	13 ^T	66.0	09/30	37	3.7
UARK	UA 5715GT	.	15	65.8	10/10	43	4.0
Clemson	TN11-5140	.	16	65.7	10/09	41	4.0
Armor	ARX5607	.	17	64.5	10/01	35	3.0
Monsanto	AG55X8 RR2X/SR	.	20	63.7	10/07	48	4.0
Clemson	TN13-5746RR1	.	21	63.5	10/09	39	3.7
Bayer	CZ 4748 LL	.	22	63.2	09/29	41	4.0
MorSoy	MS 5607 RXT	.	23	63.1	09/29	38	3.3
Terral Seed	55A67™	.	24	62.7	09/05	38	2.7
Syngenta	S56-B7X	.	25 ^T	62.2	10/07	37	3.3
Armor	55-R68	.	25 ^T	62.2	10/03	37	5.0
Bayer	CZ 4820 LL	.	26	61.0	08/30	41	3.3
Bayer	CZ 5947 LL	.	27	60.8	10/11	37	5.0
UARK	R11-8346	.	29	60.3	09/05	36	3.0
Bayer	CZ 5727 LL	.	32	59.9	10/07	39	4.3

Midville, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
<u>Maturity Group V - continued</u>							
Virginia Tech	V11-3485	.	33	59.6	10/03	30	3.0
Virginia Tech	V11-2187	.	34 ^T	59.3	09/19	42	4.3
UARK	R11-7999	.	34 ^T	59.3	10/02	35	3.3
Dyna-Gro	S56XT98	.	35	59.0	09/02	38	3.0
Bayer	CZ 5150 LL	.	37	56.7	09/30	43	4.3
Terral Seed	56R63™	.	38	56.2	10/04	34	4.3
Virginia Tech	V14-4140	.	39	54.5	09/26	37	3.3
Winfield	RX 5917	.	42	49.0	10/15	42	4.0
Average		64.0		63.5 ³	09/27	39	3.8
LSD at 10% Level		5.6		6.0	01	3	0.1
Std. Err. of Entry Mean		1.8		2.5	01	1.4	0.1
<u>Maturity Group VI</u>							
Syngenta	S67-B7	73.5	2	65.1	10/11	39	4.3
Dyna-Gro	S65RY73	71.4	1	66.6	10/10	41	4.0
Meherrin	SH 6515 LL	69.9	3	62.4	10/10	41	4.3
Meherrin	SH 6815 LL	69.9	6	60.8	10/14	39	4.7
Bayer	CZ 6109 LL	68.6	9	59.9	10/10	39	4.0
Meherrin	SH 6215 LL	66.9	16	56.6	10/15	44	3.7
Dyna-Gro	S69XT57	64.6	21	53.7	10/20	43	3.0
Bayer	CZ 6316 LL	64.4	25	52.4	10/10	35	4.0
Bayer	CZ 6060 RY	62.7	15 ^T	56.8	10/07	36	3.3
Syngenta	S65-J5	.	4	61.4	10/10	41	4.3
UGA	G13-2842R2	.	5	61.3	10/15	41	3.7
AGSouth	AGS 677 LL	.	7	60.1	10/12	42	4.3
Dupont Pioneer	P67T90R2	.	8	60.0	10/19	47	3.7
MorSoy	MS 6937 RXT	.	10	59.8	10/20	43	3.3
Winfield	RX 6467	.	11	59.4	10/14	42	4.3
UGA	G13-2947R2	.	12	58.7	10/18	41	4.0
AGSouth	AGS 644 R2X	.	13	57.5	10/15	37	4.7
Armor	ARX6907	.	14	57.2	10/21	43	3.0
Monsanto	AG64X8 RR2X	.	15 ^T	56.8	10/16	41	3.3
UGA	G12-1475R2	.	17	55.4	10/13	42	3.3
TA Seeds	TS6989 R2X	.	18	55.2	10/20	43	3.3
USG	7697XT	.	19	54.1	10/20	43	3.7
USG	7698XT	.	20	54.0	10/20	43	3.0
Bayer	CZ 6515 LL	.	22 ^T	53.4	10/21	42	3.3
Syngenta	S64-T4X	.	22 ^T	53.4	10/11	40	5.0
Dyna-Gro	S64XT18	.	23	53.0	10/11	41	4.3
TA Seeds	TS6269 R2X	.	24	52.9	10/14	39	4.3
USG	7648XT	.	26	51.9	10/14	37	4.7
Armor	67-R67	.	27	50.9	10/10	40	3.3
MorSoy	MS 6027 RXT	.	28	48.5	10/17	43	4.0
Average		68.0		57.0 ⁴	10/14	41	3.9
LSD at 10% Level		NS ⁵		7.0	01	2	0.1
Std. Err. of Entry Mean		1.9		3.0	01	1.0	0.1

Midville, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data				
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating
<u>Maturity Groups VII and VIII</u>							
Syngenta	S74-M3	71.6	1	64.9	10/18	43	4.3
AGSouth	AGS 747-LL	69.9	3 ^T	61.0	10/17	43	4.7
Meherrin	SH 7218 LL	69.5	2 ^T	62.2	10/21	43	4.0
Dupont Pioneer	P76T54R2	68.7	11 ^T	56.2	10/17	47	4.7
Dyna-Gro	S75XT26	65.9	5 ^T	59.2	10/22	47	4.3
UGA	G12-2259R2	65.4	14 ^T	55.1	10/26	44	3.0
UGA	G12-2103R2	64.7	3 ^T	61.0	10/21	43	3.0
Clemson	Paul	64.3	16	54.6	10/21	44	5.0
AGSouth	AGS 738 RR	63.4	11 ^T	56.2	10/09	38	4.7
USG	77J25RS	62.9	14 ^T	55.1	10/19	44	4.0
Dyna-Gro	S72RS36	62.7	20 ^T	53.4	10/18	42	4.0
UGA	G12-6543	62.6	26 ^T	51.0	10/25	44	5.0
Meherrin	SH 6215 LL	62.5	27	50.7	10/20	45	3.7
Clemson	Santee	60.1	20 ^T	53.4	10/16	45	5.0
AGSouth	AGS 798 R2	59.8	35 ^T	46.7	10/23	42	4.0
Clemson	Cheraw	59.4	12	55.8	10/23	46	3.0
Clemson	SC07-1490RR	59.4	25	51.4	10/26	49	3.7
GSDC	Cook	59.3	28	50.2	10/19	45	5.0
AGSouth	AGS 828 RR	59.2	31	49.1	10/20	44	4.0
Meherrin	SH 7116 LL	57.5	33	48.1	10/09	39	4.0
Bayer	CZ 7007 LL	57.4	34	47.8	10/15	41	5.0
Clemson	SC07-108RR	57.3	30	49.5	10/24	48	3.3
Bayer	CZ 7132 LL	56.1	23 ^T	51.9	10/16	57	4.3
TA Seeds	TS8059R2	55.9	39	42.1	10/25	49	3.3
UGA	G13-2755R2	.	2 ^T	62.2	10/16	41	3.3
Bayer	CZ 7070 RY	.	4	59.5	10/19	40	3.3
Armor	75-D72	.	5 ^T	59.2	10/23	46	4.0
UGA	G13-2369R2	.	6	58.3	10/25	45	4.3
Monsanto	AG74X8 RR2X	.	7	58.1	10/21	43	3.3
MorSoy	MS 7057 RXT	.	8	57.2	10/20	44	3.7
Winfield	RX 7516	.	9	57.0	10/21	45	5.0
Dupont Pioneer	P72A21X	.	10	56.8	10/14	38	3.0
UGA	G13-2454R2	.	13	55.3	10/21	44	4.0
UGA	G12-6386	.	15	54.9	10/21	44	5.0
UGA	G13-6299	.	17	54.5	10/21	43	4.7
AGSouth	AGS 700 R2X	.	18	53.9	10/19	43	3.7
Clemson	SC07-1518RR	.	19 ^T	53.6	10/24	48	3.3
UGA	G13-2114R2	.	19 ^T	53.6	10/19	44	3.0
Armor	72-R72	.	21	53.3	10/15	42	4.0
UGA	G13-1269R2	.	22	53.2	10/20	43	4.3

Midville, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Brand Name	Variety	2-Year Average	Rank	2017 Data			
				Yield ¹ bu/acre	Maturity date	Ht in	Lodging ² rating
Maturity Groups VII and VIII - continued							
UGA	G12-2062R2	.	23 ^T	51.9	10/19	45	5.0
Dyna-Gro	S77RY85	.	24	51.5	10/18	43	4.0
USDA/NCSU	N7003CN	.	26 ^T	51.0	10/15	42	4.7
Clemson	SC10-07	.	29	49.9	10/15	41	4.3
UGA	G13-3461R2	.	32	48.3	10/21	45	4.0
UGA	G11-1614R2	.	35 ^T	46.7	10/20	45	4.0
USDA/NCSU	N8002	.	36	45.3	10/23	41	4.7
Bayer	CZ 7008 LL	.	37	44.3	10/16	41	4.3
Clemson	10-455RR	.	38	43.9	10/20	46	3.3
Average		62.3		53.5 ⁶	10/19	44	4.1
LSD at 10% Level		6.7		5.9	01	3	0.1
Std. Err. of Entry Mean		1.6		2.5	01	1.2	0.1

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. CV = 6.9% and df for EMS = 94.
4. CV = 9.0% and df for EMS = 58.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 8.1% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 1, 2017.

Harvested: Maturity Group V - October 21, 2017.
Maturity Group VI - November 7, 2017.
Maturity Groups VII & VIII - November 15, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = High, and pH = 6.4.

Fertilization: 30 lb N, 40 lb P₂O₅, and 70 lb K₂O/acre.

Previous Crop: Cotton.

Management: Disked, field conditioned, and subsoiled/bedded; Gramoxone, Warrant, Reflex, and Pendimethalin used for weed control; Telone used for nematode control; Bifenthrin, Dimilin, Orthene, and Belt used for insect control; Headline and Quadris used for fungal control; irrigated 9.85 inches.

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

Griffin, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Group V									
UARK	Osage	75.3	1	74.8	10/04	37	4.3	16.4	1.5
Meherrin	SH 5215 LL	75.3	2	73.0	10/04	42	2.7	16.8	1.8
Bayer	CZ 5147 LL	69.7	33	59.0	10/02	36	4.7	15.5	1.5
Meherrin	SH 5915 LL	69.3	20 ^T	64.6	10/07	41	4.0	16.9	1.5
Virginia Tech	V12-1416	68.3	23	63.0	10/12	41	4.0	16.5	1.5
USDA-ARS	JTN-5110	67.7	30	60.2	10/04	35	4.3	18.6	1.5
Bayer	CZ 5242 LL	65.9	20 ^T	64.6	10/05	41	3.7	14.6	1.7
Syngenta	S58-Z4	65.5	12	67.9	10/11	41	4.7	16.5	1.5
Bayer	CZ 5375 RY	65.5	34	57.6	10/12	38	4.3	15.8	1.5
Dyna-Gro	39RY57	65.1	39	55.4	10/03	44	5.0	15.2	1.8
UARK	UA 5414RR	57.6	45	52.9	10/03	42	5.0	14.5	1.7
Bayer	CZ 5515 LL	53.5	44	53.3	10/04	50	4.7	17.1	1.7
AGSouth	AGS 537 LL	.	3	72.9	10/03	44	2.3	16.8	1.8
Clemson	TN12-5523R2	.	4	71.5	10/06	40	4.0	14.5	1.8
Monsanto	AG55X8 RR2X/SR	.	5	70.9	10/06	48	3.7	18.1	1.5
Armor	46-D08	.	6	69.7	09/29	42	4.7	17.0	2.0
Dyna-Gro	S58RY78	.	7	69.6	10/10	36	3.0	16.6	2.0
Armor	ARX5607	.	8	68.8	10/03	36	4.3	17.8	1.5
Virginia Tech	V13-3833	.	9	68.6	10/01	34	2.3	17.1	1.5
Monsanto	AG51X8 RR2X/SR	.	10	68.5	10/03	47	3.3	21.7	1.5
Dupont Pioneer	P55A49X	.	11	68.0	10/03	33	3.0	15.7	1.5
Armor	55-R68	.	13	67.7	10/11	40	4.7	17.5	1.8
Monsanto	AG56X8 RR2X	.	14	67.6	10/02	39	4.7	18.1	1.7
Bayer	CZ 5150 LL	.	15	67.4	10/05	41	2.7	16.6	1.5
UARK	UA 5715GT	.	16	66.5	10/12	44	4.7	15.9	1.5
Syngenta	S56-B7X	.	17	66.4	10/07	37	4.7	15.5	1.8
Bayer	CZ 4820 LL	.	18	66.1	10/02	43	4.3	19.1	1.7
UARK	R11-7999	.	19	65.2	10/08	40	4.0	15.5	1.5
Bayer	CZ 4748 LL	.	21	64.1	10/02	43	3.7	19.1	1.7
Terral Seed	56R63™	.	22	63.7	10/08	43	4.3	16.9	1.5
Dyna-Gro	S56XT98	.	24	62.5	10/04	40	5.0	17.3	1.5
UARK	R11-8346	.	25	62.1	10/04	35	4.3	16.6	1.5
Terral Seed	55A67™	.	26	61.9	10/04	40	4.0	16.2	1.5
Bayer	CZ 5727 LL	.	27	61.3	10/09	46	5.0	18.7	1.7
Virginia Tech	V11-2187	.	28	61.2	10/03	38	5.0	17.8	1.7
Virginia Tech	V11-3485	.	29	60.6	10/07	31	3.7	17.8	2.0
Armor	53-D04	.	31	60.1	10/03	38	4.0	16.7	1.5
Clemson	TN13-5508R2	.	32	59.4	10/05	41	5.0	15.6	1.8
UARK	UA 5014C	.	35	57.5	10/02	35	4.7	19.7	1.7
Virginia Tech	V12-0045 R2	.	36	57.2	10/02	37	3.7	19.2	2.0
Terral Seed	56A58™	.	37	56.3	10/07	42	5.0	16.5	1.5
Bayer	CZ 5947 LL	.	38	56.2	10/14	40	5.0	13.1	1.7
MorSoy	MS 5607 RXT	.	40	55.4	10/04	36	4.3	17.2	1.7
Clemson	TN13-5746RR1	.	41	54.8	10/14	47	4.0	15.9	1.5
Virginia Tech	V14-4140	.	42	53.8	10/02	39	5.0	17.0	1.7

Griffin, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Group V - continued									
Clemson	TN11-5140	.	43	53.4	10/14	40	4.0	16.0	1.8
Armor	47-D17	.	46	50.1	09/30	42	5.0	15.9	1.7
Winfield	RX 5917	.	47	48.8	10/14	44	4.3	14.6	1.8
Average		66.6		62.5 ⁴	10/06	40	4.2	16.8	1.6
LSD at 10% Level		10.4		8.8	03	4	0.9	1.2	0.4
Std. Err. of Entry Mean		3.0		3.7	01	2	0.4	0.5	0.2
Maturity Group VI									
Meherrin	SH 6515 LL	63.5	1	62.6	10/09	42	3.0	15.7	1.4
Syngenta	S67-B7	61.4	6	56.9	10/14	41	2.3	15.9	1.7
Dyna-Gro	S65RY73	59.4	2	61.6	10/11	41	3.0	13.3	1.7
Dyna-Gro	S69XT57	57.3	19	51.5	10/14	46	3.3	13.1	1.8
Meherrin	SH 6815 LL	56.1	13	54.0	10/13	44	3.0	15.0	1.7
Bayer	CZ 6060 RY	55.9	9	55.4	10/09	38	3.7	18.1	1.5
Bayer	CZ 6316 LL	52.6	20	51.3	10/11	39	2.7	13.3	1.5
Bayer	CZ 6109 LL	52.4	8	55.5	10/09	39	2.3	16.9	1.5
Meherrin	SH 6215 LL	50.1	28	45.6	10/14	49	4.0	14.3	1.8
UGA	G13-2842R2	.	3	59.9	10/15	42	2.3	15.9	1.8
UGA	G12-1475R2	.	4	58.2	10/14	42	2.3	14.4	1.5
AGSouth	AGS 677 LL	.	5	57.4	10/10	43	3.0	15.1	1.5
Armor	67-R67	.	7	56.7	10/09	39	3.7	15.0	1.5
TA Seeds	TS6989 R2X	.	10	55.1	10/14	44	2.7	13.4	1.5
USG	7698XT	.	11	54.9	10/14	44	2.0	13.7	1.5
Syngenta	S65-J5	.	12	54.5	10/10	43	2.3	14.1	1.5
Armor	ARX6907	.	14	53.9	10/14	44	2.0	13.5	1.8
TA Seeds	TS6269 R2X	.	15	53.8	10/13	43	2.7	13.3	5.6
Syngenta	S64-T4X	.	16	53.4	10/12	40	4.7	15.5	2.2
USG	7648XT	.	17	52.7	10/13	42	2.7	13.2	1.7
Winfield	RX 6467	.	18	51.6	10/13	40	2.0	13.0	1.5
Dyna-Gro	S64XT18	.	21	51.2	10/12	40	2.3	13.0	1.5
AGSouth	AGS 644 R2X	.	22	51.1	10/13	41	2.0	13.0	1.7
MorSoy	MS 6937 RXT	.	23	50.5	10/14	44	2.7	13.3	1.8
USG	7697XT	.	24	50.0	10/14	46	2.3	13.3	1.7
MorSoy	MS 6027 RXT	.	25	49.4	10/13	44	3.3	13.8	1.5
Monsanto	AG64X8 RR2X	.	26	46.1	10/11	42	4.0	11.7	2.3
Bayer	CZ 6515 LL	.	27	45.8	10/16	47	2.0	12.0	1.5
Dupont Pioneer	P67T90R2	.	29	45.3	10/14	48	2.7	13.8	1.7
UGA	G13-2947R2	.	30	42.0	10/15	43	4.0	12.7	1.5
Average		56.5		52.9 ⁵	10/12	43	2.8	14.1	1.8
LSD at 10% Level		8.0		6.4	01	3	0.8	1.1	NS ⁶
Std Err. of Entry Mean		2.3		2.7	01	1	0.3	0.5	0.8

Griffin, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 10.4% and df for EMS = 94.
5. CV = 8.8% and df for EMS = 58.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 1, 2017.

Harvested: November 6, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Cecil sandy loam.

Soil Test: Maturity Group V - P = Medium, K = High, and pH = 6.3.

Maturity Group VI - P = Low, K = High, and pH = 6.2.

Fertilization: Maturity Group V- 40 lb N, 80 lb P₂O₅, and 120 lb K₂O/acre.

Maturity Group VI - 45 lb N, 90 lb P₂O₅, and 135 lb K₂O/acre.

Previous Crop: Sorghum

Management: Chisel plowed, disked, and rototilled with one cultivation; Warrant, Storm, and Poast used for weed control; Karate and Bifenthrin used for insect control; irrigated 7.75 inches.

Test conducted by H. Jordan and G. Ware.

Griffin, Georgia: Late-Planted Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Groups VII and VIII</u>									
Meherrin	SH 7218 LL	50.0	1	55.5	10/22	35	4.0	16.8	1.5
UGA	G12-6543	48.8	9	51.4	10/26	43	3.7	14.3	1.5
AGSouth	AGS 798 R2	48.4	33	45.6	10/25	41	4.0	12.1	1.5
UGA	G12-2259R2	47.7	14	49.8	10/26	40	3.0	14.1	1.5
UGA	G12-2103R2	47.5	17	49.2	10/24	34	2.3	15.8	1.5
Dupont Pioneer	P76T54R2	47.5	26 ^T	47.5	10/22	35	2.7	11.0	1.7
Dyna-Gro	S72RS36	47.1	22	48.5	10/20	34	2.7	13.5	1.7
AGSouth	AGS 747-LL	46.4	6	52.2	10/23	39	3.0	13.0	1.5
USG	77J25RS	45.4	25	47.6	10/21	32	3.0	13.2	1.5
Syngenta	S74-M3	45.3	19	48.9	10/21	34	2.7	14.3	1.5
AGSouth	AGS 738 RR	44.6	13	49.9	10/20	35	3.3	12.1	1.5
AGSouth	AGS 828 RR	43.9	37	43.1	10/22	38	4.7	11.7	1.7
Meherrin	SH 7116 LL	43.7	26 ^T	47.5	10/18	34	3.0	12.2	1.7
Clemson	Santee	43.4	23	48.4	10/21	42	3.3	13.7	1.5
Dyna-Gro	S75XT26	43.1	16	49.3	10/23	39	3.3	13.4	1.5
Bayer	CZ 7007 LL	42.0	34	45.4	10/22	40	4.0	14.8	1.7
GSDC	Cook	40.8	38	42.8	10/23	41	3.7	13.7	1.7
Clemson	Paul	40.8	45	37.5	10/20	36	3.0	10.4	1.5
Bayer	CZ 7132 LL	39.9	18	49.1	10/24	37	3.3	14.4	1.8
Meherrin	SH 6215 LL	39.1	31	46.4	10/22	41	4.0	13.5	1.7
Clemson	Cheraw	38.9	36 ^T	44.8	10/26	35	4.0	13.5	1.7
Clemson	SC07-108RR	38.2	41	41.4	10/27	43	3.7	12.6	1.5
TA Seeds	TS8059R2	38.2	42	40.6	10/27	38	3.0	13.1	2.0
Clemson	SC07-1490RR	35.7	44	37.6	10/27	43	3.0	12.6	1.5
UGA	G13-2454R2	.	2	54.4	10/23	40	3.7	15.1	1.7
UGA	G13-6299	.	3	53.8	10/21	39	3.3	12.3	1.5
UGA	G13-2114R2	.	4	53.5	10/23	38	4.0	14.7	1.5
UGA	G13-2369R2	.	5	52.5	10/25	38	4.7	13.4	1.7
Dupont Pioneer	P72A21X	.	7	51.7	10/21	32	3.7	15.3	1.8
AGSouth	AGS 700 R2X	.	8 ^T	51.6	10/22	33	3.0	13.1	1.5
UGA	G12-2062R2	.	8 ^T	51.6	10/24	36	4.0	13.6	1.5
UGA	G12-6386	.	10	51.3	10/26	37	4.3	16.2	1.5
UGA	G13-1269R2	.	11	51.0	10/21	39	3.7	14.7	1.5
UGA	G13-2755R2	.	12	50.3	10/21	36	3.0	14.7	2.2
Bayer	CZ 7070 RY	.	15	49.4	10/22	36	3.0	13.1	1.5
Monsanto	AG74X8 RR2X	.	20	48.8	10/22	36	3.0	13.8	1.5
MorSoy	MS 7057 RXT	.	21	48.6	10/22	37	2.7	12.8	1.5
UGA	G11-1614R2	.	24	47.7	10/24	41	2.7	13.5	1.5
Clemson	SC07-1518RR	.	27	47.4	10/30	42	3.7	12.8	1.5
Winfield	RX 7516	.	28	46.8	10/22	40	3.0	13.4	1.7

**Griffin, Georgia:
Late-Planted Soybean Variety Performance, 2017, Irrigated
(Continued)**

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Groups VII and VIII - continued									
Armor	75-D72	.	29	46.7	10/23	38	2.3	13.5	1.5
Armor	72-R72	.	30	46.6	10/21	37	3.3	12.8	1.7
UGA	G13-3461R2	.	32	46.0	10/24	38	3.3	12.4	1.8
USDA/NCSU	N7003CN	.	35	45.2	10/23	36	4.3	15.5	1.5
USDA/NCSU	N8002	.	36 ^T	44.8	10/29	37	4.3	13.2	1.8
Bayer	CZ 7008 LL	.	39	42.7	10/21	37	3.7	12.2	1.5
Dyna-Gro	S77RY85	.	40	41.7	10/21	36	3.0	10.6	1.8
Clemson	SC10-07	.	43	37.7	10/27	36	4.0	12.6	1.7
Clemson	10-455RR	.	46	25.4	10/30	39	3.0	11.1	1.7
Average		43.6		47.1 ⁴	10/23	38	3.4	13.4	1.6
LSD at 10% Level		7.3		4.3	02	3	0.9	0.8	0.2
Std. Err. of Entry Mean		2.1		1.8	01	1	0.4	0.4	0.1

1. Yields calculated at 13% moisture.

2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).

3. Seed quality rating: Rated 1 (very good) to 5 (very poor).

4. CV = 6.7% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 29, 2017.

Harvested: November 7, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Cecil sandy loam.

Soil Test: P = High, K = High, and pH = 6.1.

Fertilization: 40 lb N, 80 lb P₂O₅, and 120 lb K₂O/acre.

Previous Crop: Wheat

Management: Chisel plowed, disked, and rototilled with one cultivation; Warrant used for weed control; irrigated 6.75 inches.

Test conducted by H. Jordan and G. Ware.

Athens, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Group V									
Dyna-Gro	39RY57	71.6	3	80.2	10/05	39	1.0	17.3	2.0
Bayer	CZ 5147 LL	64.4	8 ^T	77.4	10/05	31	1.3	16.6	1.7
Bayer	CZ 5375 RY	63.6	17 ^T	72.2	10/09	31	1.7	16.0	2.0
UARK	Osage	62.2	11	74.1	10/04	29	1.0	14.8	1.7
Syngenta	S58-Z4	61.6	23	68.5	10/09	35	1.0	15.8	2.3
Virginia Tech	V12-1416	61.2	19 ^T	71.6	10/09	30	1.0	15.5	1.7
Bayer	CZ 5242 LL	59.8	15	72.5	10/06	47	2.3	14.6	2.0
Meherrin	SH 5915 LL	58.9	33	64.2	10/07	33	1.3	16.9	2.0
UARK	UA 5414RR	58.8	35	61.5	10/07	31	2.3	14.4	2.3
Meherrin	SH 5215 LL	55.5	40	57.3	10/14	47	1.7	17.4	3.0
USDA-ARS	JTN-5110	55.4	38	59.1	10/10	28	1.7	18.2	2.3
Bayer	CZ 5515 LL	53.1	39	57.6	10/05	51	2.7	17.2	2.0
Armor	46-D08	.	1	83.4	09/23	44	2.0	15.3	2.0
Armor	47-D17	.	2	80.8	10/04	45	2.7	14.7	1.7
Armor	53-D04	.	4	79.1	10/07	32	1.0	16.6	2.0
Armor	ARX5607	.	5	78.7	10/06	34	1.3	17.2	2.0
Terral Seed	55A67 TM	.	6	78.3	10/06	32	1.0	15.7	2.7
Armor	55-R68	.	7	78.2	10/14	32	2.0	17.9	2.3
Virginia Tech	V13-3833	.	8 ^T	77.4	09/29	34	1.0	15.6	2.0
Bayer	CZ 5150 LL	.	9	75.9	10/04	45	2.0	15.1	3.0
Monsanto	AG56X8 RR2X	.	10	74.6	10/07	38	1.0	17.7	2.0
Clemson	TN12-5523R2	.	12	73.7	10/14	35	1.0	13.2	2.0
Dupont Pioneer	P55A49X	.	13	73.4	09/29	26	1.0	14.2	1.7
MorSoy	MS 5607 RXT	.	14	72.6	10/04	33	1.0	16.8	2.0
Monsanto	AG55X8 RR2X/SR	.	16 ^T	72.4	10/07	47	2.7	19.0	2.0
Terral Seed	56A58 TM	.	16 ^T	72.4	10/07	31	1.3	16.4	2.0
Dyna-Gro	S56XT98	.	17 ^T	72.2	10/05	33	1.0	16.8	2.0
AGSouth	AGS 537 LL	.	17 ^T	72.2	10/07	49	2.3	14.4	2.3
Syngenta	S56-B7X	.	17 ^T	72.2	10/06	32	2.0	14.9	2.7
Bayer	CZ 4820 LL	.	18	72.0	09/23	44	2.0	16.4	2.7
Dyna-Gro	S58RY78	.	19 ^T	71.6	10/17	32	1.0	15.4	2.0
Virginia Tech	V14-4140	.	20	71.4	10/06	35	1.7	15.9	2.0
Bayer	CZ 4748 LL	.	21	69.9	09/24	44	2.0	17.0	2.7
Clemson	TN11-5140	.	22 ^T	68.9	10/16	33	1.0	16.8	2.0
Virginia Tech	V12-0045 R2	.	22 ^T	68.9	10/09	31	1.0	19.2	2.0
Bayer	CZ 5727 LL	.	24	68.1	10/14	35	2.3	18.1	2.0
Virginia Tech	V11-3485	.	25	67.8	10/10	32	1.3	17.6	2.7
UARK	R11-7999	.	26	67.7	10/06	32	2.0	15.1	2.3
Winfield	RX 5917	.	27	66.2	10/17	37	1.7	13.9	2.3
Bayer	CZ 5947 LL	.	28	66.1	10/17	36	1.7	13.8	2.0

Athens, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V - continued</u>									
Monsanto	AG51X8 RR2X/SR	.	29	65.6	10/06	51	1.7	20.0	3.0
UARK	UA 5014C	.	30	65.4	10/07	28	1.3	18.5	2.3
Clemson	TN13-5508R2	.	31	65.0	10/09	33	1.3	17.0	2.0
Virginia Tech	V11-2187	.	32	64.5	09/21	38	1.7	16.1	1.7
Clemson	TN13-5746RR1	.	34	64.0	10/15	36	1.3	17.1	1.0
UARK	UA 5715GT	.	36	60.3	10/13	36	1.7	14.9	1.3
UARK	R11-8346	.	37	59.5	10/05	26	1.0	15.4	2.0
Terral Seed	56A63™	.	41	51.4	10/08	36	1.7	17.5	2.3
Average		60.5		70.0 ⁴	10/07	36	1.6	16.3	2.1
LSD at 10% Level		NS ⁵		7.7	01	4	0.1	1.1	0.6
Std. Err. of Entry Mean		2.3		3.3	01	2	0.1	0.5	0.2
<u>Maturity Group VI</u>									
Syngenta	S67-B7	74.8	2	78.4	10/23	38	1.7	15.3	1.0
Dyna-Gro	S65RY73	70.2	7 ^T	70.0	10/19	37	1.3	15.1	1.0
Bayer	CZ 6316 LL	65.3	19	63.5	10/16	37	1.3	16.9	1.3
Meherrin	SH 6515 LL	63.7	14	64.8	10/15	38	1.7	14.4	1.0
Bayer	CZ 6060 RY	62.4	3	72.3	10/10	37	2.3	16.7	1.0
Meherrin	SH 6815 LL	59.5	6	70.1	10/16	37	2.0	15.5	1.0
Meherrin	SH 6215 LL	54.5	27	52.9	10/24	48	2.7	15.5	1.3
Dyna-Gro	S69XT57	54.4	26	56.9	10/24	42	1.7	15.3	1.0
Bayer	CZ 6109 LL	53.5	8	67.3	10/16	39	2.3	15.9	1.0
Syngenta	S64-T4X	.	1	80.6	10/26	38	2.0	16.4	1.0
UGA	G13-2842R2	.	4	70.8	10/26	37	1.3	17.2	1.3
Syngenta	S65-J5	.	5	70.7	10/21	37	2.0	16.6	1.0
TA Seeds	TS6989 R2X	.	7 ^T	70.0	10/18	43	1.3	16.3	1.0
UGA	G12-1475R2	.	7 ^T	70.0	10/25	35	2.0	17.2	1.7
TA Seeds	TS6269 R2X	.	9 ^T	67.1	10/18	36	1.3	15.4	1.7
Winfield	RX 6467	.	9 ^T	67.1	10/19	39	1.3	15.6	1.0
MorSoy	MS 6027 RXT	.	10	66.7	10/18	42	1.7	15.9	1.3
AGSouth	AGS 677 LL	.	11	66.5	10/15	37	1.7	16.9	1.3
AGSouth	AGS 644 R2X	.	12	66.0	10/16	36	1.7	15.8	1.0
USG	7698XT	.	13	65.5	10/18	43	1.7	14.6	1.0
USG	7648XT	.	15	64.5	10/18	38	1.3	15.9	1.3
Dupont Pioneer	P67T90R2	.	16	64.2	10/23	40	1.7	16.4	1.0
UGA	G13-2947R2	.	17	63.9	10/22	40	2.0	15.6	1.0
MorSoy	MS 6937 RXT	.	18	63.7	10/24	42	2.0	16.8	1.7
Monsanto	AG64X8 RR2X	.	20	63.4	10/18	39	1.3	16.5	1.3
Dyna-Gro	S64XT18	.	21	62.8	10/15	37	1.0	15.9	1.3
USG	7697XT	.	22	62.2	10/24	44	2.0	17.7	1.7
Armor	ARX6907	.	23	62.0	10/25	41	1.7	16.2	1.0
Bayer	CZ 6515 LL	.	24	61.1	10/26	41	2.3	15.8	1.3
Armor	67-R67	.	25	60.2	10/19	37	1.3	15.6	1.0
Average		62.0		66.2 ⁶	10/20	39	1.7	16.0	1.2
LSD at 10% Level		NS		5.5	01	3.1	0.1	NS	NS
Std. Err. of Entry Mean		2.7		2.3	01	1.3	0.1	0.9	0.2

Athens, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Groups VII and VIII</u>									
Dupont Pioneer	P76T54R2	57.5	12 ^T	59.1	10/24	46	2.3	14.5	1.0
Dyna-Gro	S72RS36	56.6	24	54.0	10/25	41	2.3	14.2	1.0
AGSouth	AGS 747 LL	56.5	6	62.6	10/27	40	2.3	15.3	1.0
AGSouth	AGS 738 RR	56.1	11	60.0	10/19	38	2.7	16.7	1.7
UGA	G12-2103R2	55.0	8	61.6	10/26	41	1.7	15.9	1.0
USG	77J25RS	54.8	14 ^T	57.7	10/27	40	2.3	15.5	1.3
Dyna-Gro	S75XT26	53.2	22	54.8	10/27	44	2.0	13.9	1.3
Monsanto	AG74X8 RR2X	53.0	10 ^T	60.8	10/20	42	1.7	16.2	1.3
AGSouth	AGS 828 RR	52.9	18	56.8	10/29	44	3.3	16.0	1.7
Bayer	CZ 7007 LL	52.7	15	57.6	10/20	40	2.0	14.0	1.0
Clemson	SC07-1518RR	52.5	26	53.2	11/03	50	2.0	16.0	1.0
GSDC	Cook	52.2	17	57.0	10/27	42	2.3	15.0	1.0
AGSouth	AGS 798 R2	52.0	31	51.5	10/28	43	1.7	15.1	1.0
Meherrin	SH 7218 LL	50.3	27	53.1	10/15	41	2.0	13.9	1.0
Meherrin	SH 7116 LL	49.4	30	51.8	10/11	38	2.7	14.5	1.3
Clemson	Cheraw	49.1	29	52.1	10/19	44	2.0	17.1	1.7
Clemson	Paul	48.5	35	50.1	10/25	41	3.0	14.8	1.3
UGA	G12-2259R2	48.0	42	43.3	10/25	45	2.0	15.6	1.3
Meherrin	SH 6215 LL	47.5	33	50.7	10/24	45	3.0	15.1	1.0
Clemson	SC07-1490RR	47.2	34	50.4	10/26	49	1.7	15.3	1.3
TA Seeds	TS8059R2	47.2	28	52.3	10/29	47	2.0	15.5	1.3
Bayer	CZ 7132 LL	46.9	32	50.9	10/20	59	3.3	14.3	1.7
Clemson	Santee	46.7	39	46.4	10/20	45	3.0	14.7	1.0
UGA	G12-6386	46.5	36	49.9	10/20	43	2.7	13.1	1.7
Clemson	SC07-108RR	43.9	40	45.8	11/02	49	2.0	13.8	1.0
USDA/NCSU	N7003CN	.	1	71.2	10/27	40	2.3	15.9	1.7
Dupont Pioneer	P72A21X	.	2	69.8	10/19	34	1.3	16.2	2.0
UGA	G13-6229	.	3	66.5	10/28	38	3.0	16.2	1.3
Dyna-Gro	S77RY85	.	4	65.8	10/27	41	1.7	14.8	1.3
UGA	G13-2755R2	.	5	62.8	10/20	39	1.3	14.0	1.3
Bayer	CZ 7070 RY	.	7	62.3	10/25	42	2.3	14.9	1.7
Bayer	CZ 7008 LL	.	9	60.9	10/19	43	3.0	14.8	1.7
UGA	G11-1614R2	.	10 ^T	60.8	10/26	45	2.0	15.1	1.0
UGA	G13-2114R2	.	12 ^T	58.1	10/25	40	2.0	16.2	1.0
Armor	75-D72	.	13	58.0	10/26	45	2.3	15.3	1.3
Armor	72-R72	.	14 ^T	57.7	10/19	41	2.0	15.0	1.0
UGA	G13-3461R2	.	16	57.4	10/28	44	2.0	15.8	1.0
AGSouth	AGS 700 R2X	.	19	56.6	10/26	42	1.0	15.4	1.3
MorSoy	MS 7057 RXT	.	20	55.8	10/27	42	2.0	16.3	1.0
UGA	G13-2454R2	.	21 ^T	55.4	10/19	40	2.3	15.4	1.0

Athens, Georgia:
Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodging ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Groups VII and VIII - continued									
Syngenta	S74-M3	.	21 ^T	55.4	10/19	43	2.0	16.3	1.3
USDA/NCSU	N8002	.	23	54.4	10/29	39	3.3	15.8	1.0
Winfield	RX 7516	.	25	53.8	10/27	43	2.0	14.6	1.3
UGA	G12-2062R2	.	37	49.8	10/18	39	2.7	14.9	1.0
Clemson	SC10-07	.	38	48.4	10/17	39	2.7	16.0	1.3
UGA	G13-1269R2	.	41	44.8	10/11	42	2.0	15.8	1.3
Clemson	SC10-455RR	.	43	41.8	10/28	45	2.3	16.7	1.3
UGA	G12-6543	.	44	41.6	10/18	41	2.7	15.4	1.3
UGA	G13-2359R2	.	45	41.5	10/25	43	2.3	15.4	1.3
Average		51.0		55 ⁷	10/23	43	2.3	15.3	1.3
LSD at 10% Level		6.6		6.9	01	3	0.7	NS	NS
Std. Err. of Entry Mean		2.3		2.9	01	1	0.3	0.8	0.3

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 8.1% and df for EMS = 94.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 6.1% and df for EMS = 58.
7. CV = 9.3% and df for EMS = 96.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 18, 2017.

Harvested: Maturity Group V - October 20, 2017.
Maturity Group VI - October 31, 2017.
Maturity Groups VII & VIII - November 20, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Wickham sandy loam.

Soil Test: P = Low, K = Low, and pH = 6.0.

Fertilization: 16.5 lb N, 78 lb P₂O₅, and 90 lb K₂O/acre.

Previous Crop: Corn.

Management: Chisel plowed, disked, and field cultivated; Roundup, Prowl, Valor, Reflex, Classic, and Clethodim used as weed control; cultivated and subsoiled; Endigo used for insect control; Domark used for fungal control; irrigated 3.5 inches.

Test conducted by Z. Li, E.D. Wood, S.L. Finnerty, W.E. Baxter, B.F. Wilson, J.L. Martin, K.L. Yeargin, G.T. Gokalp, B.E. Arnold, J.W. Fox, J.D. Gassett, J.J. Griffin, P.K. Roach, and J.M. Cartey.

Calhoun, Georgia: Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Maturity Group V									
Meherrin	SH 5215 LL	67.4	18	66.7	10/09	35	1.0	17.0	1.5
Bayer	CZ 5147 LL	65.5	11	69.7	10/06	32	1.0	15.8	1.5
Bayer	CZ 5375 RY	65.0	14	69.0	10/13	33	1.0	16.3	1.5
Bayer	CZ 5242 LL	64.7	5	71.2	10/13	31	1.0	15.7	1.5
UARK	Osage	63.6	30 ^T	62.7	10/12	29	1.0	16.0	1.5
Virginia Tech	V12-1416	63.3	9	70.2	10/11	34	1.0	14.7	1.5
Dyna-Gro	39RY57	62.9	28 ^T	63.3	10/09	35	2.7	17.8	1.5
Syngenta	S58-Z4	61.9	1	74.8	10/17	33	1.3	16.3	1.5
USDA-ARS	JTN-5110	58.4	40	56.1	10/06	32	2.3	15.7	1.5
Meherrin	SH 5915 LL	57.3	31	62.0	10/07	41	3.0	17.6	1.5
Bayer	CZ 5515 LL	57.2	35	60.5	10/09	41	2.3	16.9	1.5
UARK	UA 5414RR	56.0	37	58.6	10/07	36	4.3	14.9	1.7
Bayer	CZ 4820 LL	.	2	73.9	09/28	34	1.0	17.1	1.5
Bayer	CZ 5150 LL	.	3	73.5	10/09	34	1.0	17.2	1.5
Dupont Pioneer	P55A49X	.	4	72.3	10/08	30	1.0	14.7	1.5
Syngenta	S56-B7X	.	6	71.0	10/13	34	2.3	15.5	1.5
AGSouth	AGS 537 LL	.	7	70.9	10/07	31	1.0	17.2	1.5
Armor	55-R68	.	8	70.6	10/15	33	2.7	18.0	1.8
Virginia Tech	V12-0045 R2	.	10	69.8	10/10	33	1.0	20.0	1.5
Armor	53-D04	.	12	69.3	10/13	34	1.0	17.5	1.5
Monsanto	AG55X8 RR2X/SR	.	13	69.2	10/12	39	1.0	17.3	1.5
Terral Seed	56A58™	.	15	68.1	10/13	38	1.7	17.0	1.5
Dyna-Gro	S56XT98	.	16 ^T	67.2	10/12	33	1.3	15.9	1.5
Virginia Tech	V13-3833	.	16 ^T	67.2	10/08	34	1.0	15.2	1.5
UARK	R11-7999	.	17	66.9	10/15	34	1.7	15.5	1.7
Terral Seed	55A67™	.	19	66.3	10/08	32	1.0	15.5	1.5
Bayer	CZ 4748 LL	.	20	66.0	10/05	32	1.0	16.9	1.5
MorSoy	MS 5607 RXT	.	21 ^T	65.9	10/10	34	2.0	16.0	1.5
Monsanto	AG56X8 RR2X	.	21 ^T	65.9	10/10	34	1.0	17.2	1.5
UARK	R11-8346	.	22	65.3	10/08	35	1.3	16.1	1.5
Terral Seed	56R63™	.	23 ^T	65.0	10/11	42	3.3	16.0	1.5
Clemson	TN12-5523R2	.	23 ^T	65.0	10/15	31	1.0	10.9	1.5
Armor	46-D08	.	24	64.7	09/29	37	1.0	15.1	1.5
Clemson	TN11-5140	.	25	64.5	10/13	37	1.0	16.5	1.5
Clemson	TN13-5508R2	.	26	63.9	10/16	35	2.0	18.5	1.5
Bayer	CZ 5947 LL	.	27	63.5	10/17	39	2.7	15.3	1.8
Monsanto	AG51X8 RR2X/SR	.	28 ^T	63.3	10/06	37	1.0	20.5	1.5
UARK	UA 5014C	.	29	63.1	10/06	31	1.0	17.8	1.5
Clemson	TN13-5746RR1	.	30 ^T	62.7	10/06	33	1.0	16.7	1.5
Dyna-Gro	S58RY78	.	32	61.3	10/17	27	1.0	16.2	1.5

Calhoun, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V - continued</u>									
Virginia Tech	V14-4140	.	33	61.1	10/05	32	1.7	13.7	1.5
Armor	ARX5607	.	34 ^T	60.8	10/10	32	1.3	16.1	1.5
Winfield	RX 5917	.	34 ^T	60.8	10/10	37	1.3	16.1	1.5
UARK	UA 5715GT	.	36 ^T	60.1	10/16	37	1.0	15.3	1.7
Virginia Tech	V11-3485	.	36 ^T	60.1	10/05	32	2.3	16.8	1.5
Armor	47-D17	.	38	57.8	09/30	33	1.0	15.8	1.5
Bayer	CZ 5727 LL	.	39	56.9	10/15	36	2.7	18.3	1.5
Virginia Tech	V11-2187	.	41	49.3	09/28	32	1.0	14.7	1.5
Average		61.9		65.2 ⁴	10/09	34	1.5	16.4	1.5
LSD at 10% Level		NS ⁵		7.9	05	4	0.8	1.6	NS
Std. Err. of Entry Mean		2.5		3.4	02	2	0.4	0.7	0.1
<u>Maturity Group VI</u>									
Syngenta	S67-B7	64.6	1 ^T	66.5	10/22	36	1.0	17.8	1.5
Bayer	CZ 6060 RY	62.4	23	59.0	10/16	33	1.3	19.0	1.5
Meherrin	SH 6515 LL	58.7	5	64.3	10/16	37	1.0	16.8	1.5
Dyna-Gro	S65RY73	57.9	10	62.7	10/19	37	1.7	14.4	1.7
Bayer	CZ 6316 LL	56.2	6	63.9	10/20	36	1.0	14.4	1.5
Bayer	CZ 6109 LL	55.4	11	62.6	10/13	37	1.0	18.9	1.5
Meherrin	SH 6815 LL	55.0	16 ^T	61.5	10/18	37	1.3	16.4	1.5
Dyna-Gro	S69XT57	54.0	12	62.4	10/24	35	1.0	16.1	1.5
Meherrin	SH 6215 LL	47.6	25	56.7	10/22	43	1.7	16.7	1.5
Syngenta	S65-J5	.	1 ^T	66.5	10/16	34	1.0	16.4	1.5
USG	7648XT	.	2	66.2	10/24	35	1.0	14.4	1.5
Syngenta	S64-T4X	.	3	64.6	10/22	33	1.3	15.4	1.5
Dupont Pioneer	P67T90R2	.	4	64.5	10/22	41	1.0	15.9	1.5
AGSouth	AGS 677 LL	.	7	63.7	10/15	36	1.3	17.4	1.5
TA Seeds	TS6989 R2X	.	8 ^T	63.5	10/24	37	1.0	14.7	1.5
MorSoy	MS 6937 RXT	.	8 ^T	63.5	10/24	35	1.0	15.7	1.5
Armor	67-R67	.	9	62.8	10/19	35	1.0	15.6	1.5
Bayer	CZ 6515 LL	.	13	62.3	10/24	39	1.0	16.1	1.5
USG	7698XT	.	14	62.2	10/24	33	1.0	15.1	1.5
UGA	G13-2947R2	.	15	61.6	10/24	38	1.7	15.0	1.5
TA Seeds	TS6269 R2X	.	16 ^T	61.5	10/20	34	1.0	14.8	1.5
USG	7697XT	.	17	61.4	10/24	36	1.0	15.5	1.5
UGA	G13-2842R2	.	18 ^T	61.3	10/24	33	1.0	16.7	1.5
Dyna-Gro	S64XT18	.	18 ^T	61.3	10/22	35	1.0	14.6	1.5
UGA	G12-1475R2	.	19	61.1	10/24	37	1.0	15.8	1.5
Monsanto	AG64X8 RR2X	.	20	60.6	10/17	35	1.0	14.2	1.5
AGSouth	AGS 644 R2X	.	21	60.3	10/24	34	1.0	14.2	1.5
Armor	ARX6907	.	22	59.8	10/24	33	1.0	14.4	1.5
Winfield	RX 6467	.	24	58.2	10/20	33	1.0	14.2	1.5
MorSoy	MS 6027 RXT	.	26	53.4	10/19	36	1.0	15.2	1.5
Average		56.9		62.0 ⁶	10/21	36	1.1	15.7	1.5
LSD at 10% Level		NS		NS	03	3	0.4	1.1	NS
Std. Err. of Entry Mean		1.8		3.2	01	1	0.2	0.5	0.03

Calhoun, Georgia: Soybean Variety Performance, 2017, Irrigated (Continued)

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 9.0% and df for EMS = 94.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 8.8% and df for EMS = 58.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 11, 2017.

Harvested: November 14, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: Maturity Group V - P = Very High, K = Very High, and pH = 6.3.

Maturity Group VI - P = Medium, K = Very High, and pH = 6.0

Fertilization: Maturity Group V - 0 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre.

Maturity Group VI - 0 lb N, 30 lb P₂O₅, and 0 lb K₂O/acre.

Previous Crop: Fallow.

Management: Moldboard plowed, disked, and rototilled; Treflan, Warrant, Classic, Basagran, Ultra Blazer, and Select Max used for weed control; irrigated 4 inches.

Test conducted by H. Jordan, G. Ware, M. Tucker, and J. Stubbs.

Midville, Georgia: Ultra-Late Planted Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Syngenta	S58-Z4	47.5	1	43.3	11/20	20	1.0	15.0	1.5
Bayer	CZ 6060 RY	39.6	7	32.8	11/20	15	1.0	16.0	1.6
UARK	Osage	34.7	10	28.5	11/13	16	1.0	13.2	1.6
AGSSouth	AGS 738 RR	26.2	12	24.6	11/06	15	1.0	14.8	1.5
Syngenta	S74-M3	25.9	5	35.6	11/06	17	1.0	16.7	1.5
Clemson	Santee	25.0	9	28.6	11/01	18	1.0	15.5	1.5
Dupont Pioneer	P76T54R2	22.9	6	33.8	11/04	18	1.0	13.9	1.5
Bayer	CZ 6109 LL	19.4	16	22.4	11/08	13	1.0	17.4	1.5
Meherrin	SH 6515 LL	16.9	11	27.5	10/30	14	1.0	16.2	1.6
Dyna-Gro	S65RY73	13.5	13 ^T	23.1	10/27	14	1.0	14.8	1.8
Terral Seed	G94-1559	.	2	43.1	11/11	24	1.0	15.0	1.5
Dyna-Gro	39RY57	.	3	41.1	11/13	17	1.0	17.4	1.6
Dyna-Gro	S72RS36	.	4	38.5	11/06	19	1.0	16.3	1.5
Dyna-Gro	S77RY85	.	8	31.1	11/05	17	1.0	14.1	1.5
Bayer	CZ 7070 RY	.	13 ^T	23.1	11/01	14	1.0	14.2	1.5
Bayer	CZ 7007 LL	.	14	22.9	11/03	13	1.0	15.8	1.6
USG	77J25RS	.	15	22.6	11/03	15	1.0	15.8	1.5
Bayer	CZ 6316 LL	.	17	6.1	10/27	9	1.0	15.1	1.6
Clemson	SC10-397RR	.		§	.	32	1.0	.	.
Clemson	SC10-07	.		§	.	30	1.0	.	.
Clemson	10-455RR	.		§	.	27	1.0	.	.
Average		27.1		29.4 ⁴	11/06	18	1.0	15.4	1.6
LSD at 10% Level		NS ⁵		6.8	01	2	-	0.8	NS
Std. Err. of Entry Mean		3.3		2.9	01	1	-	0.3	0.1

§ Three varieties were slow to mature and severely damaged by an early frost. In order to ensure quality data from other entries, the test was harvested without these three entries.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 19.4% and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: August 3, 2017.

Harvested: November 30, 2017.

Seeding Rate: 3 seeds per foot in 7" rows.

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.3.

Fertilization: 0 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre. Topdress: 30 lb N/per acre.

Previous Crop: Corn.

Management: Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Gramoxone, Basagran, and Select used for weed control; Prevathon used for insect control; Telone used for nematode control; Tebucanazole used for fungal control; irrigated 7.85 inches.

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

Attapulgis, Georgia: Ultra-Late Planted Soybean Variety Performance, 2017, Irrigated

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
Syngenta	S58-Z4	.	1	25.0	.	13	1.0	12.2	1.5
Terral Seed	G94-1559	.	2	22.3	.	14	1.0	14.2	4.9
Dyna-Gro	S72RS36	.	3	17.5	.	13	1.0	14.1	1.5
Syngenta	S74-M3	.	4	16.3	.	11	1.0	14.9	1.5
Dyna-Gro	S77RY85	.	5	11.9	.	10	1.0	12.5	1.5
Clemson	Santee	.	6	10.4	.	11	1.0	15.8	1.5
Bayer	CZ 6060 RY	.	7	9.0	.	7	1.0	13.2	1.5
Bayer	CZ 7070 RY	.	8	7.7	.	8	1.0	13.4	1.5
Bayer	CZ 7007 LL	.	9	6.8	.	9	1.0	13.1	1.5
Dyna-Gro	39RY57	.	10 ^T	6.7	.	9	1.0	14.7	1.5
Dupont Pioneer	P76T54R2	.	10 ^T	6.7	.	9	1.0	13.4	1.5
USG	77J25RS	.	11	4.4	.	8	1.0	14.1	4.5
Clemson	SC10-397RR	.	12	0.5	.	23	1.0	.	.
UARK	Osage	.		§	.	9	1.0	13.7	1.5
AGSSouth	AGS 738 RR	.		§	.	8	1.0	13.0	1.5
Dyna-Gro	S65RY73	.		§	.	7	1.0	12.3	1.5
Bayer	CZ 6316 LL	.		§	.	6	1.0	14.3	1.5
Bayer	CZ 6109 LL	.		§	.	7	1.0	13.5	1.5
Meherrin	SH 6515 LL	.		§	.	7	1.0	13.1	1.5
Clemson	SC10-07	.		§	.	16	1.0	.	.
Clemson	10-455RR	.		§	.	19	1.0	.	.
Average				11.2 ⁴	.	10	1.0	13.6	1.9
LSD at 10% Level				5.4	.	1.4	-	1.1	NS ⁵
Std. Err. of Entry Mean				2.3	.	0.6	-	0.5	1.0

§ Excessive rainfall after planting caused poor stands, resulting in unreliable yield data. The published data columns should be viewed in conjunction with the Midville test.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 40.5% and df for EMS = 36.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: August 7, 2017.
Harvested: November 29, 2017.
Seeding Rate: 3 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = High, K = Medium, and pH = 7.2.
Fertilization: 70 lb N, 20 lb P₂O₅, and 70 lb K₂O/acre. Sidedress: 0 lb N/per acre.
Previous Crop: Peanuts.
Management: Disked, field conditioned, and rototilled; Select and First Rate used for weed control; Lorsban, Lambda, and Bifenture used for insect control; irrigated 5.0 inches.

Test conducted by B. Mills, L. Hitson, D. Dunn, R. Brooke, M. Cofield, and K. Cawley.

Summary of Dryland Soybean Variety Performance at Four Locations*, 2017

Company or Brand Name	Variety	Yields ¹									
		Griffin		Midville		Plains		Tifton		Statewide Avg	
		2017	2-Yr Avg	2017	2-Yr Avg	2017	2-Yr Avg	2017	2-Yr Avg	2017	2-Yr Avg
-----bu/acre-----											
<u>Maturity Group V</u>											
AGSouth	AGS 537 LL	63.0	.	11.2	.	20.8	.	50.9	.	36.5	.
Bayer	CZ 5147 LL	57.9	.	17.4	.	22.0	.	53.9	.	37.8	.
Bayer	CZ 5375 RY	57.6	.	13.4	.	25.9	.	48.5	.	36.3	.
Dyna-Gro	39RY57	61.3	46.7	20.0	29.8	28.5	28.2	64.0	76.0	43.4	45.2
Meherrin	SH 5215 LL	59.8	.	16.4	.	14.3	.	48.7	.	34.8	.
Meherrin	SH 5915 LL	59.9	.	23.2	.	24.4	.	51.2	.	39.7	.
Syngenta	S56-B7X	57.8	.	13.0	.	24.7	.	30.2	.	31.4	.
Syngenta	S58-Z4	64.3	49.8	25.4	35.4	36.7	27.9	48.5	54.4	43.7	41.9
Terral Seed	56R63™	60.4	.	15.1	.	29.4	.	54.7	.	39.9	.
UARK Public Variety	Osage	54.6	43.1	8.8	18.7	29.4	32.7	60.3	63.9	38.3	39.6
Average		59.7	46.5	16.4	28.0	25.6	29.6	51.1	64.8	38.2	42.2
LSD at 10% Level		NS ²	NS	8.2	0.3	6.9	NS	7.6	NS	4.3	NS
Std. Err. of Entry Mean		3.2	1.3	3.3	4.2	2.8	0.3	3.1	1.4	1.8	2.3
<u>Maturity Group VI</u>											
AGSouth	AGS 677 LL	62.8	.	30.6	.	28.4	.	60.6	.	45.6	.
Bayer	CZ 6060 RY	54.6	48.4	32.7	35.8	31.7	28.2	60.2	64.1	44.8	44.1
Bayer	CZ 6109 LL	67.4	.	33.3	.	36.1	.	63.9	.	50.2	.
Bayer	CZ 6316 LL	55.9	.	42.8	.	26.8	.	56.8	.	45.6	.
Bayer	CZ 6515 LL	52.9	.	36.0	.	37.8	.	52.2	.	44.7	.
Dupont Pioneer	P67T90R2	59.3	.	32.5	.	39.2	.	59.8	.	47.7	.
Dyna-Gro	S65RY73	63.7	51.1	35.8	34.8	33.2	26.4	58.3	68.0	47.7	45.0
Meherrin	SH 6515 LL	68.1	54.4	39.1	43.3	34.5	28.8	62.6	68.9	51.1	48.8
Syngenta	S67-B7	59.1	50.5	32.3	39.2	25.8	24.4	54.0	67.7	42.8	45.4
UGA	G12-1475R2	51.4	.	42.7	.	42.1	.	56.8	.	48.2	.
Average		59.5	51.1	35.8	38.3	33.6	26.9	58.5	67.2	46.8	45.8
LSD at 10% Level		8.7	NS	NS	NS	5.6	NS	5.9	NS	3.5	NS
Std. Err. of Entry Mean		3.6	2.0	3.4	2.4	2.3	1.5	2.4	2.4	1.5	2.0
<u>Maturity Group VII & VIII</u>											
AGSouth	AGS 738 RR	41.3	40.7	44.3	42.8	37.1	28.0	53.7	63.5	44.1	43.8
AgSouth	AGS 747-LL	43.7	.	36.6	.	40.9	.	52.8	.	43.5	.
Bayer	CZ 7007 LL	45.6	42.0	39.0	41.2	32.5	25.2	57.6	60.1	43.7	42.1
Bayer	CZ 7070 RY	44.9	.	34.6	.	48.0	.	59.2	.	46.7	.
Clemson Public Variety	Santee	43.5	39.1	40.6	38.5	43.5	32.7	41.2	55.1	42.2	41.4
Dyna-Gro	S72RS36	42.7	43.8	39.2	39.9	42.6	31.0	52.7	62.3	44.3	44.3
Dyna-Gro	S77RY85	40.8	.	40.0	.	38.6	.	48.6	.	42.0	.
Pioneer	P76T54R2	45.0	42.9	45.6	48.9	32.8	27.2	47.3	63.5	42.7	45.6
Syngenta	S74-M3	36.1	39.3	38.2	45.0	45.2	33.5	48.2	64.9	41.9	45.7
USG	77J25RS	43.8	.	38.9	.	44.0	.	50.5	.	44.3	.
Average		42.8	41.3	39.7	42.7	40.5	29.6	51.2	61.6	43.5	43.8
LSD at 10% Level		NS	NS	NS	NS	NS	NS	6.3	NS	3.9	NS
Std. Err. of Entry Mean		3.6	2.8	3.3	1.9	3.8	2.3	2.6	2.3	1.6	1.9

Summary of Dryland Soybean Variety Performance at Four Locations*, 2017 (Continued)

* Athens only has 2017 data, therefore it is not included.

1. Yields calculated at 13% moisture.

2. The F-test indicated no statistical differences at the $\alpha = 0.10$ probability level; therefore, an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD ($P = 0.10$).

Regional Summary of Dryland Soybean Variety Performance at Four Locations, 2017

Company or Brand Name	Variety	Yield ¹					
		South ²		North ³		Statewide	
		2017	2-Year Average	2017	2-Year Average	2017	2-Year Average
----- bu/acre -----							
<u>Maturity Group V</u>							
AGSouth	AGS 537 LL	27.6	.	63.0	.	36.5	.
Bayer	CZ 5147 LL	31.1	.	57.9	.	37.8	.
Bayer	CZ 5375 RY	29.3	.	57.6	.	36.3	.
Dyna-Gro	39RY57	37.5	44.7	61.3	46.7	43.4	45.2
Meherrin	SH 5215 LL	26.5	.	59.8	.	34.8	.
Meherrin	SH 5915 LL	32.9	.	59.9	.	39.7	.
Syngenta	S56-B7X	22.7	.	57.8	.	31.4	.
Syngenta	S58-Z4	36.9	39.2	64.3	49.8	43.7	41.9
Terral Seed	56R63™	33.1	.	60.4	.	39.9	.
UARK Public Variety	Osage	32.8	38.4	54.6	43.1	38.3	39.6
Average		31.0	40.8	59.7	46.5	38.2	42.2
LSD at 10% Level		4.2	NS ⁴	NS	NS	3.7	NS
Std. Err. of Entry Mean		1.8	1.0	3.2	1.3	1.6	0.8
<u>Maturity Group VI</u>							
AGSouth	AGS 677 LL	39.9	.	62.8	.	45.6	.
Bayer	CZ 6060 RY	41.6	42.7	54.6	48.4	44.8	44.1
Bayer	CZ 6109 LL	44.4	.	67.4	.	50.2	.
Bayer	CZ 6316 LL	42.2	.	55.9	.	45.6	.
Bayer	CZ 6515 LL	42.0	.	52.9	.	44.7	.
Dupont Pioneer	P67T90R2	43.8	.	59.3	.	47.7	.
Dyna-Gro	S65RY73	42.4	43.0	63.7	51.1	47.7	45.0
Meherrin	SH 6515 LL	45.4	47.0	68.1	54.4	51.1	48.8
Syngenta	S67-B7	37.4	43.8	59.1	50.5	42.8	45.4
UGA	G12-1475R2	47.2	.	51.4	.	48.2	.
Average		42.6	44.1	59.5	51.1	46.8	45.8
LSD at 10% Level		3.8	NS	8.7	NS	3.5	NS
Std. Err. of Entry Mean		1.6	1.2	3.6	2.0	1.5	1.1
<u>Maturity Group VII and VIII</u>							
AGSouth	AGS 738 RR	45.0	44.8	41.3	40.7	44.1	43.8
AGSouth	AGS 747-LL	43.4	.	43.7	.	43.5	.
Bayer	CZ 7007 LL	43.0	42.2	45.6	42.0	43.7	42.1
Bayer	CZ 7070 RY	47.3	.	44.9	.	46.7	.
Clemson Public Variety	Santee	41.8	42.1	43.5	39.1	42.2	41.4
Dyna-Gro	S72RS36	44.8	44.4	42.7	43.8	44.3	44.3
Dyna-Gro	S77RY85	42.4	.	40.8	.	42.0	.
Pioneer	P76T54R2	41.9	46.5	45.1	42.9	42.7	45.6
Syngenta	S74-M3	43.9	47.8	36.1	39.3	41.9	45.7
USG	77J25RS	44.5	.	43.8	.	44.3	.
Average		43.8	44.6	42.8	41.3	43.5	43.8
LSD at 10% Level		4.5	NS	NS	NS	4.0	NS
Std. Err. of Entry Mean		1.9	1.3	3.7	2.9	1.7	1.2

Regional Summary of Dryland Soybean Variety Performance at Four Locations, 2017 (Continued)

1. Yields calculated at 13% moisture.
2. Midville, Plains and Tifton.
3. Griffin only. LSD and Standard Error figures are from Location Summary table, since there was only one location (Griffin) with 2-year data.
4. The F-test indicated no statistical differences at the $\alpha = 0.10$ probability level; therefore an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD ($P = 0.10$).

Tifton, Georgia: Dryland Soybean Variety Performance, 2017

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V</u>									
Dyna-Gro	39RY57	76.0	1	64.0	09/27	29	3.3	14.8	1.7
UARK	Osage	63.9	2	60.3	09/24	25	1.7	12.2	1.8
Syngenta	S58-Z4	54.4	8 ^T	48.5	10/06	27	2.3	12.9	1.7
Terral Seed	56R63™	.	3	54.7	09/26	35	2.7	14.0	1.8
Bayer	CZ 5147 LL	.	4	53.9	09/27	25	1.0	13.8	1.7
Meherrin	SH 5915 LL	.	5	51.2	09/26	29	2.3	14.1	1.8
AGSouth	AGS 537 LL	.	6	50.9	09/28	35	3.0	12.5	2.3
Meherrin	SH 5215 LL	.	7	48.7	09/25	35	2.7	12.8	2.3
Bayer	CZ 5375 RY	.	8 ^T	48.5	09/28	27	2.7	12.9	1.7
Syngenta	S56-B7X	.	9	30.2	10/05	25	1.0	13.8	2.7
Average		64.8		51.1 ⁴	09/28	29	2.3	13.4	2.0
LSD at 10% Level		NS ⁵		7.6	01	2.4	0.1	0.7	NS
Std. Err. of Entry Mean		1.4		3.1	01	1	0.1	0.3	0.3
<u>Maturity Group VI</u>									
Meherrin	SH 6515 LL	68.9	2	62.6	10/04	31	2.0	13.9	1.5
Dyna-Gro	S65RY73	68.0	6	58.3	10/06	31	3.0	10.8	1.5
Syngenta	S67-B7	67.7	8	54.0	10/01	33	3.7	14.1	1.7
Bayer	CZ 6060 RY	64.1	4	60.2	09/27	26	1.7	13.8	1.5
Bayer	CZ 6109 LL	.	1	63.9	09/27	31	2.7	13.8	1.5
AGSouth	AGS 677 LL	.	3	60.6	10/04	28	2.0	13.7	1.5
Dupont Pioneer	P67T90R2	.	5	59.8	10/10	35	3.0	12.4	1.5
Bayer	CZ 6316 LL	.	7 ^T	56.8	10/04	30	2.0	12.5	1.5
UGA	G12-1475R2	.	7 ^T	56.8	10/10	35	3.0	12.0	1.7
Bayer	CZ 6515 LL	.	9	52.2	10/12	34	3.7	10.3	1.5
Average		67.2		58.5 ⁶	10/04	31	2.7	12.7	1.5
LSD at 10% Level		NS		5.9	01	2	0.1	0.8	NS
Std. Err. of Entry Mean		2.4		2.4	01	1	0.1	0.3	0.1
<u>Maturity Groups VII and VIII</u>									
Syngenta	S74-M3	64.9	8	48.2	10/09	32	3.7	12.3	1.5
AGSouth	AGS 738 RR	63.5	3	53.7	10/08	29	3.0	11.2	1.5
Dupont Pioneer	P76T54R2	63.5	9	47.3	10/11	35	3.3	10.1	1.7
Dyna-Gro	S72RS36	62.3	5	52.7	10/09	30	3.0	12.5	1.5
Bayer	CZ 7007 LL	60.1	2	57.6	10/11	35	4.7	13.4	1.5
Clemson	Santee	55.1	10	41.2	10/08	34	3.7	11.5	1.5
Bayer	CZ 7070 RY	.	1	59.2	10/12	34	2.7	12.0	1.5
AGSouth	AGS 747-LL	.	4	52.8	10/09	34	2.7	11.9	1.5
USG	77J25RS	.	6	50.5	10/10	31	2.7	12.1	1.5
Dyna-Gro	S77RY85	.	7	48.6	10/15	33	3.0	11.0	1.5
Average		61.6		51.2 ⁷	10/10	33	3.2	11.8	1.5
LSD at 10% Level		NS		6.3	01	1.7	0.1	0.9	NS
Std. Err. of Entry Mean		2.3		2.6	01	0.7	0.1	0.4	0.1

Tifton, Georgia: Dryland Soybean Variety Performance, 2017 (Continued)

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 10.5% and df for EMS = 18.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 7.5% and df for EMS = 18.
7. CV = 8.6% and df for EMS = 18.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 25, 2017.

Harvested: October 26, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Very High, and pH = 7.0.

Fertilization: 0 lb N, 50 lb P₂O₅, and 90 lb K₂O/acre.

Previous Crop: Corn.

Management: Disked, subsoiled/bedded, and rototilled; Warrant, Select Max, Basagran, and Ultra Blazer used for weed control; Bifenthrin, Knack, Blackhawk, and Belt used for insect control; Telone II used for nematode control.

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

Plains, Georgia: Dryland Soybean Variety Performance, 2017

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V</u>									
UARK	Osage	32.7	2 ^T	29.4	09/25	19	1.0	10.3	1.5
Dyna-Gro	39RY57	28.2	3	28.5	09/25	24	1.7	12.7	1.5
Syngenta	S58-Z4	27.9	1	36.7	10/09	24	1.0	13.3	1.7
Terral Seed	56R63™	.	2 ^T	29.4	09/26	28	3.0	12.1	1.7
Bayer	CZ 5375 RY	.	4	25.9	09/23	24	1.0	12.0	1.8
Syngenta	S56-B7X	.	5	24.7	09/28	22	1.0	12.0	2.0
Meherrin	SH 5915 LL	.	6	24.4	09/22	23	3.0	11.3	1.5
Bayer	CZ 5147 LL	.	7	22.0	09/23	22	1.0	10.9	1.5
AGSouth	AGS 537 LL	.	8	20.8	09/17	27	2.0	9.8	1.8
Meherrin	SH 5215 LL	.	9	14.3	09/15	30	1.0	8.7	1.7
Average		29.6		25.6 ⁴	09/24	24	1.6	11.3	1.7
LSD at 10% Level		NS ⁵		6.9	01	3	0.8	0.9	NS
Std Err. of Entry Mean		1.1		2.8	01	1	0.3	0.4	0.1
<u>Maturity Group VI</u>									
Meherrin	SH 6515 LL	28.8	5	34.5	10/07	23	1.0	13.2	1.5
Bayer	CZ 6060 RY	28.2	6	31.7	10/03	23	1.0	13.5	1.5
Dyna-Gro	S65RY73	26.4	7	33.2	10/08	27	1.0	10.7	1.7
Syngenta	S67-B7	24.4	10	25.8	09/26	31	1.3	13.8	2.0
UGA	G12-1475R2	.	1	42.1	10/11	27	1.7	13.6	1.5
Dupont Pioneer	P67T90R2	.	2	39.2	10/11	28	1.7	15.0	1.5
Bayer	CZ 6515 LL	.	3	37.8	10/15	27	2.7	13.2	1.8
Bayer	CZ 6109 LL	.	4	36.1	10/08	25	1.0	13.6	1.5
AGSouth	AGS 677 LL	.	8	28.4	10/04	27	1.0	11.9	1.5
Bayer	CZ 6316 LL	.	9	26.8	10/06	25	1.0	11.0	1.5
Average		26.9		33.6 ⁶	10/06	26	1.3	12.9	1.6
LSD at 10% Level		NS		5.7	01	4	0.5	1.0	0.3
Std Err. of Entry Mean		1.5		2.3	01	2	0.2	0.4	0.1
<u>Maturity Group VII and VIII</u>									
Syngenta	S74-M3	33.5	2	45.2	10/18	32	1.3	16.3	1.8
Clemson	Santee	32.7	4	43.5	10/11	41	3.0	15.5	1.5
Dyna-Gro	S72RS36	31.0	5	42.6	10/11	29	1.0	15.9	1.7
AGSouth	AGS 738 RR	28.0	8	37.1	10/08	24	1.7	11.4	1.5
Dupont Pioneer	P76T54R2	27.2	9	32.8	10/19	29	1.7	13.5	1.7
Bayer	CZ 7007 LL	25.2	10	32.5	10/11	30	3.0	14.4	1.5
Bayer	CZ 7070 RY	.	1	48.0	10/18	29	1.0	14.7	1.5
USG	77J25RS	.	3	44.0	10/11	27	1.3	15.8	1.7
AGSouth	AGS 747-LL	.	6	40.9	10/18	33	2.0	14.5	1.8
Dyna-Gro	S77RY85	.	7	38.6	10/19	28	1.3	13.4	1.5
Average		29.6		40.5 ⁷	10/14	30	1.7	14.5	1.6
LSD at 10% Level		NS		NS	01	3	0.8	0.8	NS
Std Err. of Entry Mean		2.3		3.8	01	1	0.3	0.3	0.1

**Plains, Georgia:
Dryland Soybean Variety Performance, 2017
(Continued)**

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 18.9% and df for EMS = 18.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 12.0% and df for EMS = 18.
7. CV = 16.4% and df for EMS = 18.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: May 30, 2017.

Harvested: November 3, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Greenville sandy loam.

Soil Test: P = Medium, K = Very High, and pH = 5.8.

Fertilization: 0 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre. Applied 1000 lb dolomitic lime/acre.

Previous Crop: Cotton.

Management: Disked, subsoiled, and rototilled; Prowl, Valor, and Blazer used for weed control; Bifenthrin, Tracer, Indigo, and Interpedredge used for insect control; Domark used for fungal control.

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

Midville, Georgia: Dryland Soybean Variety Performance, 2017

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V</u>									
Syngenta	S58-Z4	35.4	1	25.4	10/15	20	1.0	12.0	1.8
Dyna-Gro	39RY57	29.8	3	20.0	10/04	19	1.0	13.5	2.0
UARK	Osage	18.7	10	8.8	10/02	15	1.0	11.8	2.3
Meherrin	SH 5915 LL	.	2	23.2	10/03	21	1.0	12.3	2.0
Bayer	CZ 5147 LL	.	4	17.4	10/03	19	1.0	13.0	2.3
Meherrin	SH 5215 LL	.	5	16.4	09/25	22	1.0	12.3	1.8
Terral Seed	56R63™	.	6	15.1	10/06	22	1.0	12.4	1.5
Bayer	CZ 5375 RY	.	7	13.4	10/09	19	1.0	12.7	3.0
Syngenta	S56-B7X	.	8	13.0	10/06	20	1.0	10.9	2.2
AGSouth	AGS 537 LL	.	9	11.2	09/26	22	1.0	11.6	1.5
Average		28.0		16.4 ⁴	10/03	20	1.0	12.3	2.1
LSD at 10% Level		0.3		8.2	01	NS ⁵	-	NS	NS
Std. Err. of Entry Mean		2.4		3.3	01	2	-	0.9	0.3
<u>Maturity Group VI</u>									
Meherrin	SH 6515 LL	43.3	3	39.1	10/20	26	1.0	16.6	1.7
Syngenta	S67-B7	39.2	9	32.3	10/18	25	1.0	15.7	2.5
Bayer	CZ 6060 RY	35.8	7	32.7	10/09	23	1.0	15.7	1.8
Dyna-Gro	S65RY73	34.8	5	35.8	10/17	27	1.0	12.9	2.7
Bayer	CZ 6316 LL	.	1	42.8	10/21	24	1.0	14.5	1.8
UGA	G12-1475R2	.	2	42.7	10/20	27	1.0	15.2	2.5
Bayer	CZ 6515 LL	.	4	36.0	10/25	28	1.0	14.4	2.5
Bayer	CZ 6109 LL	.	6	33.3	10/19	28	1.0	16.0	2.0
Dupont Pioneer	P67T90R2	.	8	32.5	10/22	25	1.0	.	2.7
AGSouth	AGS 677 LL	.	10	30.6	10/17	24	1.0	15.1	1.7
Average		38.3		35.8 ⁶	10/18	26	1.0	15.1	2.2
LSD at 10% Level		NS		NS	01	NS	-	NS	0.5
Std. Err. of Entry Mean		2.4		3.4	01	2	-	-	0.2
<u>Maturity Groups VII and VIII</u>									
Dupont Pioneer	P76T54R2	48.9	1	45.6	10/23	29	1.0	.	.
Syngenta	S74-M3	45.0	8	38.2	10/25	28	0.7	.	.
AGSouth	AGS 738 RR	42.8	2	44.3	10/22	27	1.0	.	.
Bayer	CZ 7007 LL	41.2	6	39.0	10/20	32	1.0	.	.
Dyna-Gro	S72RS36	39.9	5	39.2	10/21	29	1.3	.	.
Clemson	Santee	38.5	3	40.6	10/23	31	1.3	.	.
Dyna-Gro	S77RY85	.	4	40.0	10/24	27	1.0	.	.
USG	77J25RS	.	7	38.9	10/24	27	1.0	.	.
AGSouth	AGS 747-LL	.	9	36.6	10/24	33	1.7	.	.
Bayer	CZ 7070 RY	.	10	34.6	10/22	30	1.0	.	.
Average		42.7		39.7 ⁷	10/22	29	1.1	.	.
LSD at 10% Level		NS		NS	01	3.3	0.1	.	.
Std. Err. of Entry Mean		1.9		3.3	01	1.3	0.1	.	.

Midville, Georgia: Dryland Soybean Variety Performance, 2017 (Continued)

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 35.2% and df for EMS = 18.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 16.6% and df for EMS = 18.
7. CV = 14.4% and df for EMS = 18.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 1, 2017.

Harvested: November 7, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Dothan loamy sand.

Soil Test: P = Low, K = Low, and pH = 6.7.

Fertilization: 30 lb N, 60 lb P₂O₅, and 100 lb K₂O/acre.

Previous Crop: Unknown.

Management: Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Gramoxone, Warrant, Reflex, and Basagram used for weed control; Belt, Dimilin, Bifenthrin, and Orthene used for insect control; Telone used for nematode control; Headline and Quadris used for fungal control.

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

Griffin, Georgia: Dryland Soybean Variety Performance, 2017

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group V</u>									
Syngenta	S58-Z4	49.8	1	64.3	10/11	38	4.3	14.3	1.8
Dyna-Gro	39RY57	46.7	3	61.3	10/04	39	4.3	18.3	1.8
UARK	Osage	43.1	10	54.6	10/01	33	4.7	16.5	1.7
AGSouth	AGS 537 LL	.	2	63.0	10/02	35	1.7	15.0	2.0
Terral Seed	56R63™	.	4	60.4	10/14	39	5.0	17.9	1.8
Meherrin	SH 5915 LL	.	5	59.9	10/13	35	5.0	15.7	2.2
Meherrin	SH 5215 LL	.	6	59.8	10/08	34	1.7	14.9	2.3
Bayer	CZ 5147 LL	.	7	57.9	10/03	33	3.3	16.0	1.7
Syngenta	S56-B7X	.	8	57.8	10/09	34	4.7	16.1	2.5
Bayer	CZ 5375 RY	.	9	57.6	10/11	34	4.7	13.9	2.2
Average		46.5		59.7 ⁴	10/08	35	3.9	15.8	2.0
LSD at 10% Level		NS ⁵		NS	5	3	0.8	NS	NS
Std Err. of Entry Mean		1.3		3.2	2	1	0.3	1.1	0.2
<u>Maturity Group VI</u>									
Meherrin	SH 6515 LL	54.4	1	68.1	10/16	37	3.7	19.2	1.7
Dyna-Gro	S65RY73	51.1	3	63.7	10/15	39	4.3	15.7	2.2
Syngenta	S67-B7	50.5	6	59.1	10/20	40	3.7	17.7	2.3
Bayer	CZ 6060 RY	48.4	8	54.6	10/12	34	4.3	19.5	1.8
Bayer	CZ 6109 LL	.	2	67.4	10/13	41	4.0	18.3	1.5
AGSouth	AGS 677 LL	.	4	62.8	10/17	38	4.0	17.3	1.8
Dupont Pioneer	P67T90R2	.	5	59.3	10/16	43	3.7	15.3	2.2
Bayer	CZ 6316 LL	.	7	55.9	10/14	39	3.7	14.1	1.8
Bayer	CZ 6515 LL	.	9	52.9	10/22	43	4.7	12.9	1.8
UGA	G12-1475R2	.	10	51.4	10/20	36	4.3	15.1	2.2
Average		51.1		59.5 ⁶	10/16	39	4.0	16.5	1.9
LSD at 10% Level		NS		8.7	2	3	NS	1.7	NS
Std Err. of Entry Mean		2.0		3.6	1	1	0.5	0.7	0.2
<u>Maturity Groups VII and VIII</u>									
Dyna-Gro	S72RS36	43.8	7	42.7	10/23	30	2.7	14.8	1.8
Dupont Pioneer	P76T54R2	42.9	2	45.0	10/24	27	2.0	12.3	1.7
Bayer	CZ 7007 LL	42.0	1	45.6	10/25	32	5.0	15.8	1.5
AGSouth	AGS 738 RR	40.7	8	41.3	10/24	23	2.0	13.5	1.5
Syngenta	S74-M3	39.3	10	36.1	10/24	24	1.3	14.0	1.5
Clemson	Santee	39.1	6	43.5	10/25	26	2.7	15.1	1.5
Bayer	CZ 7070 RY	0.0	3	44.9	10/24	29	2.3	13.5	1.5
USG	77J25RS	0.0	4	43.8	10/24	29	2.7	15.2	1.5
AGSouth	AGS 747-LL	0.0	5	43.7	10/24	29	2.7	14.4	1.5
Dyna-Gro	S77RY85	0.0	9	40.8	10/25	29	3.7	11.7	1.5
Average		41.3		42.8 ⁷	10/24	28	2.7	14.0	1.6
LSD at 10% Level		NS		NS	NS	4	0.8	1.1	0.2
Std Err. of Entry Mean		2.9		3.7	1	2	0.3	0.4	0.1

Griffin, Georgia: Dryland Soybean Variety Performance, 2017 (Continued)

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 9.4% and df for EMS = 18.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
6. CV = 10.4% and df for EMS = 18.
7. CV = 14.8% and df for EMS = 18.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: Maturity Groups V and VI - June 1, 2017.
Maturity Groups VII and VIII - June 29, 2017.

Harvested: Maturity Groups V and VI - November 6, 2017.
Maturity Groups VII and VIII - November 7, 2017.

Seeding Rate: Eight seeds per foot in 30" rows.

Soil Type: Cecil sandy loam

Soil Test: P = Medium, K = Medium, and pH = 5.9.

Fertilization: 40 lb N, 80 lb P₂O₅, and 120 lb K₂O/acre. Applied 1500 lb dolomitic lime/acre.

Previous Crop: Sorghum.

Management: Maturity Groups V and VI - Chisel plowed, disked, and rototilled with one cultivation; Warrant, Storm, and Poast used for weed control; Karate and Bifenthrin used for insect control.
Maturity Groups VII and VIII - Chisel plowed, disked, and rototilled with one cultivation; Warrant used for weed control.

Test conducted by H. Jordan and G. Ware.

Athens, Georgia: Dryland Soybean Variety Performance, 2017

Company or Brand Name	Variety	2-Year Average Yield bu/acre	2017 Data						
			Rank	Yield ¹ bu/acre	Maturity date	Plant Ht in	Lodg. ² rating	Wt of 100 Seed gm	Seed Quality ³ rating
<u>Maturity Group VII and VIII</u>									
Syngenta	S74-M3	43.4	1	44.3	11/06	22	1.0	17.1	1.7
Bayer	CZ 7007 LL	38.3	3	38.3	11/03	22	1.0	15.4	1.5
Dyna-Gro	S72RS36	37.0	9	29.0	11/06	19	1.0	16.1	1.5
Dupont Pioneer	P76T54R2	36.0	5	31.2	11/05	22	1.0	12.6	1.5
AGSouth	AGS 738 RR	34.7	8	29.4	11/03	21	1.0	13.0	1.5
Clemson	Santee	32.7	6	30.7	11/03	19	1.0	14.5	1.5
Dyna-Gro	S77RY85	.	2	40.7	11/06	23	1.0	14.7	1.5
Bayer	CZ 7070 RY	.	4	34.4	11/05	17	1.0	12.6	1.5
USG	77J25RS	.	7	29.7	11/06	20	1.3	16.3	1.5
AGSouth	AGS 747-LL	.	10	27.4	11/03	19	1.0	14.3	1.5
Average		37.0		33.5 ⁴	11/04	21	1.0	14.6	1.5
LSD at 10% Level		9.0		9.0	1	3	NS ⁵	2.0	NS
Std. Err. of Entry Mean		2.6		3.7	1	1	0.1	0.8	0.1

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 18.9% and df for EMS = 18.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding within each test denotes entries with yields equal to the highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted: June 29, 2017.
 Harvested: November 16, 2017.
 Seeding Rate: Eight seeds per foot in 30" rows.
 Soil Type: Wickham sandy loam.
 Soil Test: P = Low, K = Low, and pH = 6.0.
 Fertilization: 16.5 lb N, 78 lb P₂O₅, and 90 lb K₂O/acre.
 Previous Crop: Fallow.
 Management: Strip tilled; Past and Warrant used for weed control.

Test conducted by H. Jordan and G. Ware.

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2017

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ² rating ⁶	Javanese ³	Race 3 ⁴	Race 9 ⁵ reaction ⁷
AGSouth	537LL	5.0	5.0	3.3	S	S
AGSouth	644R2X	1.0	5.0	4.0	S	S
AGSouth	677LL	5.0	3.8	4.5	S	S
AGSouth	700R2X	1.0	4.0	4.8	S	S
AGSouth	738RR	1.0	5.0	4.5	R	S
AGSouth	747 LL	1.3	2.8	2.3	R	S
AGSouth	798 R2Y	1.0	5.0	3.3	S	S
AGSouth	828RR	1.0	5.0	4.3	R	R
Armor Seed	46-D08	5.0	1.0	3.8	R	R
Armor Seed	47-D17	5.0	3.0	5.0	R	S
Armor Seed	53-D04	3.5	3.3	4.8	R	S
Armor Seed	55R68	5.0	4.8	4.0	R	M
Armor Seed	67-R67	1.0	5.0	5.0	S	S
Armor Seed	72-R72	1.0	5.0	5.0	S	S
Armor Seed	75-D72	1.0	1.0	1.0	R	S
Armor Seed	ARX5607	1.3	5.0	3.0	R	S
Armor Seed	ARX6907	1.0	4.5	3.0	S	S
Bayer	CZ 4748 LL	1.0	1.0	1.0	R	R
Bayer	CZ 4820 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5147 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5150 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5242 LL	1.0	1.0	1.0	R	S
Bayer	CZ 5375 RY	1.0	1.0	1.0	R	R
Bayer	CZ 5515 LL	1.0	1.3	1.0	R	R
Bayer	CZ 5727 LL	1.0	1.0	1.3	R	R
Bayer	CZ 5947 LL	1.0	1.0	1.0	R	R
Bayer	CZ 6060 RY	1.0	1.5	1.0	R	R
Bayer	CZ 6109 LL	1.0	1.0	1.0	R	R
Bayer	CZ 6316 LL	1.0	1.0	1.0	R	R
Bayer	CZ 6515 LL	1.0	1.0	1.0	R	R
Bayer	CZ 7007 LL	1.0	1.0	1.0	R	R
Bayer	CZ 7008 LL	1.0	1.0	1.0	R	R
Bayer	CZ 7070 RY	1.0	1.0	1.0	R	R
Bayer	CZ 7132 LL	1.0	1.0	1.0	R	R
Clemson	SC07-108RR	1.0	4.5	4.8	R	S
Clemson	SC07-1490RR	1.0	5.0	5.0	R	S
Clemson	SC07-1518RR	1.0	5.0	5.0	R	S
Clemson	SC10-07	1.0	3.0	3.5	R	S
Clemson	SC10-397RR	5.0	5.0	4.5	R	R
Clemson	SC10-455RR	5.0	5.0	5.0	R	R
Clemson	TN11-5140	1.0	5.0	5.0	S	S
Clemson	TN12-5523R2	5.0	4.0	5.0	S	S
Clemson	TN13-5508R2	5.0	5.0	4.8	S	S
Clemson	TN13-5746RR1	1.0	4.8	5.0	S	S
Dyna-Gro	39RY57	1.0	5.0	5.0	S	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2017 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ² rating ⁶	Javanese ³	Race 3 ⁴	Race 9 ⁵ reaction ⁷
Dyna-Gro	S56XT98	1.0	4.3	3.0	R	S
Dyna-Gro	S58RY78	5.0	5.0	5.0	R	R
Dyna-Gro	S64XT18	1.0	5.0	4.8	S	S
Dyna-Gro	S65RY73	1.3	2.5	4.3	R	R
Dyna-Gro	S69XT57	1.0	4.5	4.5	S	S
Dyna-Gro	S72RS36	3.0	5.0	5.0	S	S
Dyna-Gro	S75XT26	1.0	5.0	3.0	S	S
Dyna-Gro	S77RY85	4.0	5.0	4.8	S	S
Meherrin	SH 5215 LL	3.0	1.3	1.3	S	S
Meherrin	SH 5915 LL	1.0	1.3	1.5	S	S
Meherrin	SH 6215 LL	1.0	1.0	1.5	S	S
Meherrin	SH 6515 LL	1.0	1.0	1.0	S	S
Meherrin	SH 6815 LL	1.0	1.0	1.0	S	S
Meherrin	SH 7116 LL	1.0	2.0	1.0	S	S
Meherrin	SH 7218 LL	1.0	4.3	3.3	R	R
Monsanto	AG51X8 RR2X/SR	5.0	3.0	4.0	R	R
Monsanto	AG55X8 RR2X/SR	1.0	3.0	4.5	S	S
Monsanto	AG56X8 RR2X	1.0	4.8	3.8	R	S
Monsanto	AG64X8 RR2X	1.0	4.5	3.8	S	S
Monsanto	AG74X8 RR2X	1.0	4.5	4.8	S	S
MorSoy	MS 5607 RXT	1.0	1.0	1.0	R	S
MorSoy	MS 6027 RXT	1.0	1.0	2.0	R	S
MorSoy	MS 6937 RXT	1.0	1.0	1.3	M	S
MorSoy	MS 7057 RXT	1.0	1.0	1.0	R	S
Pioneer	P55A49X	1.0	5.0	4.5	R	R
Pioneer	P67T90R2	1.0	4.5	4.8	S	S
Pioneer	P72A21X	1.0	5.0	5.0	R	S
Pioneer	P76T54R2	1.0	5.0	5.0	S	S
Public Variety	Cook	1.0	5.0	4.5	S	S
SC Public Variety	Cheraw	1.0	5.0	5.0	R	S
SC Public Variety	Paul	1.0	5.0	5.0	S	S
SC Public Variety	Santee	1.0	5.0	5.0	R	S
Syngenta	S56-B7X	1.0	1.0	1.0	R	S
Syngenta	S58-Z4	1.0	1.0	1.0	S	S
Syngenta	S64-T4X	1.0	1.0	1.0	R	S
Syngenta	S65-J5	1.0	1.0	1.0	R	R
Syngenta	S67-B7	1.3	1.0	1.0	R	R
Syngenta	S74-M3	1.0	1.0	1.5	R	R
TA Seeds	TS6269R2X	1.0	2.8	4.0	S	S
TA Seeds	TS6989R2X	1.0	1.0	1.3	S	S
TA Seeds	TS8059R2	1.0	1.5	4.8	S	S
Terral Seed	55A67™	4.8	4.5	4.8	R	S
Terral Seed	56A58™	1.0	1.3	1.0	R	R
Terral Seed	56R63™	1.0	5.0	4.5	R	R
UARK	R11-7999	5.0	5.0	5.0	S	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2017 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ² rating ⁶	Javanese ³	Race 3 ⁴	Race 9 ⁵ reaction ⁷
UARK	R11-8346	1.0	5.0	5.0	S	S
UARK	UA 5014C	5.0	5.0	5.0	S	S
UARK	UA 5414RR	5.0	5.0	4.8	S	S
UARK	UA 5715GT	4.8	4.8	3.0	R	R
UARK Public Variety	OSAGE	5.0	5.0	5.0	S	S
UGA	G11-1614R2	1.0	4.0	3.8	R	S
UGA	G12-1475R2	1.0	1.3	1.3	R	R
UGA	G12-2062R2	1.0	4.5	2.0	R	R
UGA	G12-2103R2	1.0	1.3	1.3	R	R
UGA	G12-2259R2	1.0	3.0	2.5	R	R
UGA	G12-6386	1.0	4.5	4.5	R	S
UGA	G12-6543	1.0	1.5	2.5	R	S
UGA	G13-1269R2	1.0	2.8	1.3	M	S
UGA	G13-2114R2	1.0	1.5	1.8	R	R
UGA	G13-2369R2	1.0	2.5	1.3	R	S
UGA	G13-2454R2	1.0	2.3	1.3	R	S
UGA	G13-2755R2	1.0	4.0	1.8	R	S
UGA	G13-2842R2	1.0	3.8	4.3	R	S
UGA	G13-2947R2	1.0	3.3	4.5	R	S
UGA	G13-3461R2	1.0	4.8	4.0	R	R
UGA	G13-6299	1.0	3.3	2.0	S	S
USDA/NCSU	N7003CN	1.0	4.3	5.0	R	S
USDA/NCSU	N8002	5.0	4.5	4.8	S	S
USDA-ARS	JTN-5110	2.0	5.0	5.0	R	R
USG	7648XT	1.0	5.0	4.5	S	S
USG	7697XT	1.0	4.3	5.0	S	S
USG	7698XT	1.0	4.3	4.8	S	S
USG	77J25RS	1.0	4.5	4.5	S	S
Virginia Tech	V11-2187	4.3	5.0	4.8	S	S
Virginia Tech	V11-3485	5.0	3.3	4.3	S	S
Virginia Tech	V12-0045R2	4.3	5.0	5.0	S	S
Virginia Tech	V12-1416	4.8	5.0	5.0	S	S
Virginia Tech	V13-3833	5.0	3.3	4.5	S	S
Virginia Tech	V14-4140	5.0	3.0	4.5	S	S
Winfield	RX 5917	5.0	2.8	1.8	R	S
Winfield	RX 6467	1.0	4.8	5.0	S	S
Winfield	RX 7516	1.0	4.0	4.0	S	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2017 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ² rating ⁶	Javanese ³	Race 3 ⁴	Race 9 ⁵ reaction ⁷
Check Varieties	Benning	1.0	4.3	4.5	R	S
	Boggs	1.0	1.8	3.3	R	S
	Bossier	5.0	5.0	3.0	S	S
	CNS	5.0	5.0	5.0	S	S
	G93-9009	1.0	1.0	1.0	R	R
	G93-9106	1.0	1.0	1.0	R	R
	GaSoy17	4.8	5.0	5.0	S	S
	Hagood	1.0	5.0	4.8	R	S
	Hartwig	1.0	5.0	4.8	R	R
	Haskell	1.0	1.5	1.8	S	S
	Prichard	1.0	4.8	4.5	R	R
	LSD (0.10)	0.4	0.9	0.7		

1. *Meloidogyne incognita*.

2. *Meloidogyne arenaria*.

3. *Meloidogyne javanica*.

4. The cyst indices on the differentials were: Peking = 0 (-), Pickett = 0 (-), PI88788 = 0 (-), PI90763 = 0 (-).

5. The cyst indices on the differentials were: Peking = 50 (+), Pickett = 80 (+), PI88788 = 3 (-), PI90763 = 9 (-).

6. Rating: 1 = (few galls) to 5 = (many galls).

7. Reaction: R = Resistant (generally < 3 white females or cysts per plant).

S = Susceptible (generally > 3 white females or cysts per plant).

M = Mixed reaction.

Ratings for Soybean Cyst Nematode and Root-knot Nematode provided by S.L. Finnerty, B.J. Averitt, J.P. Noe, W.E. Baxter, E.D. Wood, and Zenglu Li.

Sources of Seed for the 2017 Soybean Variety Tests

Brand or Variety Name	Company and Address
AGSouth	AGSouth Genetics, LLC, PO Box 72246, Albany, GA 31708-2246
Armor	Armor Seed LLC, 183 Pennsylvania Avenue, Waldenburg, AR 72475
Bayer	Bayer CropScience, 5569 Liberty Drive, Spring Hope, NC 37882
Clemson	Clemson University, Pee Dee REC, 2200 Pocket Road, Florence, SC 29506
Dupont Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229
Dyna-Gro	CPS Dyna-Gro Seed, 100 Industrial Court, Colquitt, GA 39837
Meherrin	Meherrin Ag, PO Box 1076, Hawkinsville, GA 31036
Monsanto	Monsanto Company, 800 North Lindbergh Blvd., St. Louis, MO 63167
MorSoy	SeedKoz, 1725 Windward Concourse, Suite 410, Alpharetta, GA 30005
Syngenta	Syngenta Seeds, Inc., 4013 Fairmount Pike, Signal Mountain, TN 37377
TA Seeds	T.A. Seeds, 39 Seeds Lane, Jersey Shore, PA 17740
Terral Seed	Terral Seed, Inc., 117 Ellington Drive, Rayville, LA 71269
UARK	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701
UGA	University of Georgia, CAGT, 111 Riverbend Road, Athens, GA 30602
USDA-ARS	USDA-ARS, 605 Airways Blvd., Jackson, TN 38301
USDA/NCSU	USDA-ARS, 3127 Ligon Street, Raleigh, NC 27607
USG	UniSouth Genetics, Inc., 3205-C Hwy 49 South, Dickson, TN 37055
Virginia Tech	Virginia Tech, 220 Ag Quad Lane, Blacksburg, VA 24060
Winfield	Winfield United, 615 McArdle Road, Dothan, AL 36303
<u>Public Varieties</u>	
GSDC:- Cook	Georgia Seed Development Commission, 2420 S. Milledge Ave., Athens, GA 30605
Clemson - Cheraw, Paul, and Santee	South Carolina Crop Improvement Association, 1162 Old Cherry Road, Clemson, SC 29634
UARK - Osage	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701

GRAIN SORGHUM

Tifton, Georgia:

Grain Sorghum Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Bird Damage ³ %
			Average Yield bu/acre					
SS	SS 800	139.5	128.1	45.3	59	55	0	41
DeKalb	DKS53-53	131.4	.	43.0	63	55	0	50
Sorghum Partners	SP78M30	127.2	118.0	50.7	66	54	0	44
Sorghum Partners	SP7715	126.7	127.8	52.8	64	57	0	41
Pioneer	84P80	125.9	134.9	49.5	62	56	0	34
Meherrin	SH90G6	124.4	129.8	47.1	65	59	0	42
DeKalb	DKS 37-07	124.2	121.5	49.2	55	53	0	25
Dyna-Gro	M74GB17	122.0	.	48.8	67	58	0	22
Dyna-Gro	M60GB31	119.5	.	49.9	54	51	2	11
SS	SS 540	119.0	122.4	53.5	56	53	0	25
Chromatin Inc	CHROL2042	117.1	110.2	46.7	63	59	0	28
SS	SS 655	116.8	123.5	52.7	54	49	5	25
DeKalb	DKS51-01	116.0	125.8	53.0	62	60	0	43
Dyna-Gro	GX 15371	113.0	.	54.4	65	59	0	43
Dyna-Gro	M73GR55	108.8	.	49.7	68	58	0	44
Dyna-Gro	GX 17818	108.8	.	50.7	67	54	0	25
Dyna-Gro	GX 16833	108.1	.	47.5	71	57	0	48
Sorghum Partners	NK6638	107.6	116.3	51.3	64	53	0	25
Dyna-Gro	GX 16855	107.3	.	49.1	62	61	0	38
Gayland Ward	GW 1160	101.4	.	48.1	56	51	0	25
Pioneer	83P17	100.3	118.9	45.7	67	58	0	42
Chromatin Inc	CHROL0029	98.8	92.9	47.4	71	54	0	44
Gayland Ward	EXP-9134	95.1	.	40.5	67	62	2	56
Gayland Ward	EXP-9139	86.1	.	47.9	62	48	1	24
Gayland Ward	EXP-9135	78.0	.	45.3	67	48	0	36
Gayland Ward	EXP-9138	71.9	.	50.8	62	59	4	41
Average		111.3 ⁴	120.8	48.9	63	55	1	35
LSD at 10% Level		15.8	NS ⁵	3.9	0	2	2	13
Std. Err. of Entry Mean		6.7	5.0	1.6	0	1	1	5

Tifton, Georgia:
Grain Sorghum Hybrid Performance, 2017, Nonirrigated
(Continued)

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 12.1% and df for EMS = 75.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 21, 2017.
Harvested: August 15, 2017.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Low, K = Medium, and pH = 6.0.
Fertilization: Preplant: 50 lb N, 80 lb P₂O₅, and 90 lb K₂O/acre. Sidedress: 60 lb N/acre.
Previous Crop: Fallow.
Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Telone II used for nematode control; Sivanto used for insect control.

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

**Tifton, Georgia:
Late-Planted Grain Sorghum Hybrid Performance, 2017
Nonirrigated**

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Bird Damage ³ %
		Yield ¹ bu/acre	Average Yield bu/acre					
Pioneer	83P17	77.4	83.7	37.0	54	56	73	15
Meherrin	SH65G6	76.2	77.1	40.6	55	53	45	23
DeKalb	DKS38-16	72.6	.	44.9	50	54	92	18
Dyna-Gro	M73GR55	71.3	.	48.5	62	53	10	10
Dyna-Gro	GX 15371	71.0	.	42.4	52	54	98	17
Gayland Ward	GW 1160	69.6	.	41.3	50	50	20	21
Pioneer	84P80	68.1	69.6	38.8	57	49	92	8
DeKalb	DKS 48-07	67.3	.	41.5	56	50	78	16
SS	SS 540	66.8	78.8	37.4	51	51	64	15
Desert Sun	DSM 40-920	63.3	79.2	51.6	50	52	19	0
Athens	105	63.0	69.0	40.3	54	51	69	18
Dyna-Gro	M74GB17	62.6	.	41.3	57	53	90	10
Dyna-Gro	GX 16833	61.0	.	41.2	56	53	87	15
Dyna-Gro	GX 16855	58.5	.	37.9	56	57	87	23
Meherrin	SH80G4	49.0	62.9	40.8	53	56	59	30
Dyna-Gro	GX 17818	48.6	.	44.6	57	48	34	11
Dyna-Gro	M60GB31	45.0	.	38.0	58	49	19	21
DeKalb	DKS 37-07	40.1	56.5	37.6	57	53	61	20
SS	SS 655	39.7	40.5	38.2	56	53	84	12
Desert Sun	DSM 45-480	37.3	55.0	33.2	49	50	66	13
SS	SS 800	31.9	36.5	35.8	49	52	73	13
Average		59.1 ⁴	64.4	40.6	54	52	63	15
LSD at 10% Level		18.0	11.7	6.2	.	4	29	9
Std. Err. of Entry Mean		7.6	4.9	2.6	.	2	12	4

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 25.8% and df for EMS = 60.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: June 17, 2017.
Harvested: September 22, 2017.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Medium, K = Medium, and pH = 6.5.
Fertilization: Preplant: 50 lb N, 80 lb P₂O₅, and 90 lb K₂O/acre. Sidedress: 50 lb N/acre.
Previous Crop: Grain sorghum.
Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Sivanto used for insect control; Telone II used for nematode control.

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

Plains, Georgia:
Grain Sorghum Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Bird Damage ³ %
			Average Yield bu/acre					
Sorghum Partners	SP7715	132.9	115.9	53.2	63	61	1	22
Chromatin Inc	CHROL0029	129.9	114.2	49.4	70	59	0	20
Dyna-Gro	GX 15371	120.0	.	49.6	64	63	0	28
Pioneer	83P17	119.2	114.7	45.0	66	62	1	23
Dyna-Gro	M73GR55	115.0	.	51.2	67	60	0	23
Dyna-Gro	GX 17818	113.6	.	47.4	66	58	0	26
Sorghum Partners	SP78M30	113.6	110.3	47.5	65	56	1	20
Meherrin	SH90G6	112.7	107.7	48.0	64	63	0	20
Dyna-Gro	GX 16833	111.7	.	49.9	70	63	0	25
Sorghum Partners	NK6638	109.2	103.6	49.9	63	56	0	20
Chromatin Inc	CHROL2042	108.7	107.8	42.7	62	62	0	24
Gayland Ward	EXP-9135	107.5	.	42.9	66	59	0	25
DeKalb	DKS 37-07	101.8	109.4	41.7	54	57	0	28
Dyna-Gro	M74GB17	103.0	.	42.8	66	62	2	22
SS	SS 800	97.7	90.5	42.3	58	57	0	14
DeKalb	DKS51-01	97.4	105.8	49.9	61	63	0	30
Pioneer	84P80	97.1	100.5	47.3	61	59	3	20
Dyna-Gro	GX 16855	94.6	.	44.2	61	67	1	25
Gayland Ward	GW 1160	93.6	.	41.5	55	56	0	21
SS	SS 655	91.8	97.9	48.1	53	54	3	25
SS	SS 540	89.8	96.0	53.3	55	55	1	11
DeKalb	DKS53-53	89.1	.	44.0	62	57	0	22
Gayland Ward	EXP-9134	83.6	.	43.1	66	64	0	20
Dyna-Gro	M60GB31	75.6	.	37.5	53	53	0	12
Gayland Ward	EXP-9139	62.3	.	41.6	61	51	0	13
Gayland Ward	EXP-9138	50.6	.	43.8	61	60	4	20
Average		100.9 ⁴	106.0	45.9	62	59	1	21
LSD at 10% Level		11.3	NS ⁵	2.5	0	2	NS	3
Std. Err. of Entry Mean		4.8	3.8	1.1	0	1	1	1

Plains, Georgia: Grain Sorghum Hybrid Performance, 2017, Nonirrigated (Continued)

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 9.5% and df for EMS = 75.
5. The F-test indicated no statistical differences at the $\alpha = 0.10$ probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD ($P = 0.10$).

Planted: April 28, 2017.
Harvested: August 14, 2017.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = Medium, K = Very High, and pH = 6.3.
Fertilization: Preplant: 0 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre. Sidedress: 60 lb N/acre.
Previous Crop: Soybeans.
Management: Disked twice, chisel plowed, rototilled, and cultivated; Dual Magnum and Atrazine used for weed control; Sivanto used for insect control.

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

**Plains, Georgia:
Late-Planted Grain Sorghum Hybrid Performance, 2017
Nonirrigated**

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Bird Damage ³ %
		Yield ¹ bu/acre	Average Yield bu/acre					
Dyna-Gro	M73GR55	78.0	.	57.3	64	50	0	16
Meherrin	SH80G4	65.5	53.6	54.3	55	50	11	35
Athens	105	57.9	56.0	56.0	56	48	5	12
SS	SS 540	53.7	53.5	55.0	53	40	11	29
DeKalb	DKS 48-07	49.3	.	51.1	58	49	13	25
Meherrin	SH65G6	45.3	57.3	54.6	57	41	29	13
Dyna-Gro	M74GB17	41.9	.	51.2	59	47	36	25
Pioneer	83P17	38.8	39.8	47.0	56	48	45	38
Dyna-Gro	GX 17818	35.8	.	53.3	59	46	16	13
DeKalb	DKS38-16	29.0	.	53.8	52	44	13	50
Desert Sun	DSM 40-920	28.7	47.7	51.5	52	42	14	0
DeKalb	DKS 37-07	27.8	43.3	53.8	59	44	8	38
Dyna-Gro	M60GB31	26.0	.	53.8	60	47	24	28
Dyna-Gro	GX 16833	24.7	.	53.8	58	46	53	13
Dyna-Gro	GX 15371	24.4	.	53.8	54	42	95	43
SS	SS 800	14.1	24.3	53.8	51	39	4	17
Dyna-Gro	GX 16855	11.0	.	53.8	58	51	90	25
Gayland Ward	GW 1160	10.6	.	53.8	52	41	15	13
Pioneer	84P80	9.5	22.5	53.8	59	41	25	33
Desert Sun	DSM 45-480	7.2	32.4	53.8	51	43	40	0
SS	SS 655	3.0	12.8	53.8	58	34	4	0
Average		32.5 ⁴	40.3	53.5	56	44	26	22
LSD at 10% Level		8.5	9.7	1.6	0	2	9	5
Std. Err. of Entry Mean		3.6	4.0	0.7	0	1	4	2

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 22.2% and df for EMS = 60.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: June 27, 2017.

Harvested: November 2, 2017.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Greenville sandy clay loam.

Soil Test: P = Medium, K = Very High, and pH = 6.3.

Fertilization: Preplant: 0 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre. Sidedress: 60 lb N/acre.

Previous Crop: Soybeans,

Management: Disked twice, chisel plowed, rototilled, and cultivated; Dual and Atrazine used for weed control; Sivanto used for insect control.

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

Athens, Georgia: Grain Sorghum Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid	2-Year Average		Test Wt. lb/bu	50% Bloom ³ days	Plant Ht. in	Lodging %	Bird Damage ⁴ %
		Yield ¹ bu/acre	Yield ² bu/acre					
Dyna-Gro	GX 17818	107.9	.	61.0	76	52	3	10
Dyna-Gro	M60GB31	98.6	.	59.9	71	54	0	6
Dyna-Gro	M74GB17	87.0	.	60.7	71	55	4	8
DeKalb	DKS 37-07	84.6	66.5	58.7	70	55	1	6
Dyna-Gro	GX 16855	78.6	.	60.9	72	62	19	4
Dyna-Gro	GX 16833	78.1	.	62.2	71	58	12	2
Dyna-Gro	M73GR55	77.5	.	60.8	75	57	5	7
Dyna-Gro	GX 15371	75.4	.	62.4	76	57	13	6
DeKalb	DKS51-01	73.9	75.2	57.9	73	53	1	8
Pioneer	83P17	69.5	76.3	56.4	75	58	4	9
Gayland Ward	GW 1160	55.5	.	56.1	71	46	1	3
Pioneer	84P80	55.3	61.8	52.1	72	51	15	3
Meherrin	SH90G6	52.9	55.5	59.1	74	59	4	6
Gayland Ward	EXP-9135	48.0	.	46.3	78	50	0	4
Gayland Ward	EXP-9134	46.7	.	46.4	82	56	6	11
Gayland Ward	EXP-9138	39.7	.	43.1	81	57	3	3
Gayland Ward	EXP-9139	38.1	.	42.1	74	44	0	4
DeKalb	DKS53-53	30.1	.	34.2	76	53	3	0
Average		66.5 ⁵	67.0	54.4	74	54	5	5
LSD at 10% Level		20.8	NS ⁶	13.2	4	5	9	NS
Std. Err. of Entry Mean		8.24	5.32	5.23	2	2	4	2

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Data from Griffin 2016 and Athens 2017.
3. Days from planting to 50% bloom.
4. Percent of grain head damaged.
5. CV = 25.4% and df for EMS = 45.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 16, 2017.
 Harvested: September 27, 2017.
 Seeding Rate: 100,000 seed/acre in 30" rows.
 Soil Type: Wehadkee loam.
 Soil Test: P = Medium, K = Low, and pH = 6.1.
 Fertilization: Preplant: 50 lb N, 165 lb P₂O₅, and 330 lb K₂O/acre. Sidedress: 100 lb N/acre.
 Previous Crop: Wheat.
 Management: Strip tilled for planting; Dual Magnum and Atrazine used for weed control; Lorsban used for insect control.

Test conducted by H. Jordan and G. Ware.

Athens, Georgia:
Late-Planted Grain Sorghum Hybrid Performance, 2017
Nonirrigated

Company or Brand Name	Hybrid	Yield ¹ bu/acre	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Bird Damage ³ %
DeKalb	DKS 37-07	81.8	59.4	58	53	0	11
Meherrin	SH80G4	76.8	53.8	61	57	0	18
Dyna-Gro	M73GR55	74.6	56.8	73	57	0	13
Dekalb	DKS 48-07	73.2	58.1	63	52	0	26
Pioneer	83P17	68.0	54.9	68	55	0	13
Dyna-Gro	GX 17818	67.3	56.3	66	55	0	10
Dyna-Gro	M60GB31	66.5	54.7	62	53	0	13
Dyna-Gro	GX 16833	64.7	56.1	64	58	6	14
Athens	105	63.0	61.3	62	58	0	15
Dyna-Gro	GX 15371	61.1	50.6	63	58	5	14
Dyna-Gro	GX 16855	59.7	57.2	61	62	8	14
Dyna-Gro	M74GB17	59.2	54.2	66	55	3	10
Meherrin	SH65G6	58.9	58.1	60	52	1	23
Gayland Ward	GW 1160	58.7	58.6	61	51	0	9
Dekalb	DKS38-16	57.7	56.4	58	56	3	19
Pioneer	84P80	57.6	52.6	64	55	5	21
Desert Sun	DSM 45-480	53.4	57.5	56	50	45	15
Desert Sun	DSM 40-920	47.5	38.1	59	49	3	13
Average		63.9 ⁴	55.3	62	55	4	15
LSD at 10% Level		20.1	9.8	3	4	NS ⁵	9
Std. Err. of Entry Mean		8.5	4.1	1.1	1.7	5.4	3.8

NOTE: Very low yields for some hybrids resulted primarily from sugarcane aphids. Heavy infestations disrupted head development, and this can also be observed from the low test weights.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 26.6% and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: July 7, 2017.
Harvested: November 16, 2017.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Wehadkee loam.
Soil Test: P = Medium, K = Low, and pH = 6.1.
Fertilization: Preplant: 50 lb N, 165 lb P₂O₅, and 33- lb K₂O/acre. Sidedress: 100 lb N/acre.
Previous Crop: Wheat.
Management: Strip tilled for planting; Dual Magnum and Atrazine used for weed control.

Test conducted by H. Jordan and G. Ware.

SORGHUM FOR SILAGE

Tifton, Georgia: Evaluation of Sorghum Hybrids for Silage, 2017

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Dyna-Gro	F73FS10	6.4	22.6	123.0	28	.
Sorghum Partners	SS405	6.1	25.2	144.5	24	6.2
Gayland Ward	EXP-15F909	5.8	20.8	127.5	28	.
Sorghum Partners	SP1880	5.6	27.7	144.0	20	5.7
Gayland Ward	EXP-15F910	5.3	18.2	120.0	29	.
Meherrin	SH905F	5.3	24.9	97.0	21	5.6
Dyna-Gro	705F (SGxS)	5.0	21.6	88.0	23	.
Sorghum Partners	SP1615	4.9	22.2	127.0	22	5.3
Alta Seeds	AF7401	4.8	22.3	73.5	21	4.5
Sorghum Partners	SP2774BMR	4.8	18.9	119.5	25	4.0
Dyna-Gro	F74FS23 BMR	4.7	23.8	118.5	20	.
Southern States	SS 1515F	4.4	19.6	89.0	23	5.0
Desert Sun	BUFFALO GRAIN	4.2	17.9	88.0	23	4.4
Sorghum Partners	NK300	4.2	17.1	86.0	25	4.5
Sorghum Partners	SP2876BMR	4.1	17.9	112.0	23	4.7
Alta Seeds	XF7103	4.1	17.0	67.5	24	.
Sorghum Partners	SP4555	4.0	17.3	118.0	23	.
Sorghum Partners	SP2880	4.0	16.0	110.5	25	.
SS	SS 2010 BDF	3.9	20.2	74.5	19	4.1
Moss	4Ever Green	3.7	18.9	104.5	20	4.5
Alta Seeds	XF7302	3.6	19.3	67.0	19	.
Gayland Ward	GW-475 BMR	3.4	11.8	114.0	29	.
Alta Seeds	XF7303	3.3	17.0	60.0	20	.
Dyna-Gro	F76FS77 BMR	3.3	14.8	68.5	22	.
Sorghum Partners	SPX56216	3.2	15.0	105.5	21	.
Sorghum Partners	SP3903BD	3.2	14.9	62.0	21	3.9
Gayland Ward	GW 600 BMR	3.1	11.6	115.5	27	4.3
Gayland Ward	EXP 15F1097	3.0	13.2	92.0	23	.
Gayland Ward	GW 400 BMR	3.0	12.4	97.0	24	3.6
Gayland Ward	Silo-Pro Dwarf BMF	2.6	12.4	64.5	21	3.6
Southern States	SS 1597FS	2.4	11.3	63.0	21	3.5
Average		4.2 ¹	18.2 ²	98.1	23	4.5
LSD at 10% Level		0.8	3.7	6.8	1	0.7
Std. Err. of Entry Means		0.4	1.6	2.9	0	0.3

Ratoon or Regrowth Crop:

No ratoon crop due to Hurricane Irma.

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2017
(Continued)

1. CV = 16.9% and df for EMS = 90.

2. CV = 17.4% and df for EMS = 90.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD ($P = 0.10$).

Planted: April 20, 2017.

Harvested: July 20, 2017.

Seeding Rate: 100,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.0.

Fertilization: Preplant: 50 lb N, 50 lb P_2O_5 , and 150 lb K_2O /acre. Sidedress: 60 lb N/acre.

Previous Crop: Soybeans.

Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Telone II used for nematode control; Sivanto used for insect control.

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

Athens, Georgia: Evaluation of Sorghum Hybrids for Silage, 2017

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield ¹ tons/acre
		Dry --- tons/acre ---	Green			
Dyna-Gro	F73FS10	6.0	21.8	110	27	.
Dyna-Gro	F74FS23 BMR	5.8	28.2	106	20	.
Gayland Ward	EXP-15F909	5.7	18.5	116	31	.
Dyna-Gro	705F (SGxS)	5.5	22.1	76	25	.
Gayland Ward	EXP-15F910	5.3	17.4	110	30	.
Meherrin	SH905F	5.0	20.8	71	24	4.6
Alta Seeds	AF7401	4.9	22.4	67	22	3.9
Dyna-Gro	F76FS77 BMR	4.7	22.1	67	22	.
Alta Seeds	XF7302	4.6	20.3	66	22	.
Gayland Ward	GW 400 BMR	4.5	18.4	91	24	3.7
Gayland Ward	GW 600 BMR	4.4	15.7	105	28	4.0
Alta Seeds	XF7103	4.3	16.4	65	27	.
Gayland Ward	EXP 15F1097	4.2	20.4	94	21	.
Desert Sun	BUFFALO GRAIN	4.0	17.0	73	24	3.7
Alta Seeds	XF7303	3.9	17.9	56	22	.
Moss	4Ever Green	3.7	18.6	92	20	3.0
Gayland Ward	GW-475 BMR	3.7	14.3	100	26	.
Gayland Ward	Silo-Pro Dwarf BMR	3.4	15.2	71	22	4.1
Average		4.6 ²	19.3 ³	85	24	3.8
LSD at 10% Level		1.0	3.5	7	3	NS ⁴
Std. Err. Of Entry Mean		0.4	1.5	3	1	0.3

Ratoon or Regrowth Crop

There was no ratoon crop this year due to poor regrowth.

1. Data from Griffin, 2016, and Athens, 2017.
2. CV = 18.4% and df for EMS = 51.
3. CV = 15.2% and df for EMS = 51.
4. The F-test indicates no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 16, 2017.
 Harvested: August 29, 2017.
 Seeding Rate: 100,000 seed/acre in 30" rows.
 Soil Type: Chewacla silt.
 Soil Test: P = Medium, K = Low, and pH = 6.1.
 Fertilization: Preplant: 50 lb N, 165 lb P₂O₅, and 330 lb K₂O/acre. Sidedress: 100 lb N/acre.
 Previous Crop: Ryegrass.
 Management: Strip tilled for planting; Dual Magnum and Atrazine used for weed control; Lorsban used for insect control.

Test conducted by H. Jordan and G. Ware.

SUMMER ANNUAL FORAGES

Tifton, Georgia: Evaluation of Summer Annual Forages, 2017 and Two-Year Average Yields, 2016-2017

Company or Brand Name	Hybrid Name or Number	Clipping Dates		Season Total	2-Year Average
		7/13/2017	9/7/2017		
----- dry matter yield - pounds per acre -----					
<u>Sorghum x Sudangrass</u>					
Meherrin	Southern Star	14904	10117	25021	.
Dyna-Gro Seed	F74FS23 BMR	15099	6326	21425	.
Moss	Mega Green	6659	10802	21337	19399
Desert Sun	DSM 33-948	5642	8328	20430	17200
Desert Sun	ELITE	13275	6080	19355	.
Sorghum Partners	Sordan Headless	7823	11297	19124	19122
Coffey	Xtragraze BMR	12452	6003	18455	.
Alta Seeds	AS6504	12424	5526	17950	.
Sorghum Partners	SP6205 BD	6164	7650	17834	15824
Coffey	Exp SCA-2 ST	11518	6081	17599	.
Sorghum Partners	Sordan 79	11253	5906	17159	.
Dyna-Gro	FullGraze BMR	11338	5550	16887	.
Sorghum Partners	SP4555	8174	9769	16810	17376
Coffey	Exp SCA-1	11365	5290	16655	.
Gayland Ward	Super Sugar(DM)	8140	11276	16148	17782
Meherrin	SOUTHERN SWEET	5905	9454	15707	15533
Sorghum Partners	SPX56116	10671	5035	15706	.
Southern States	SS 220 (SG X S)	9191	10344	15571	17553
Desert Sun	BIG KAHUNA	4038	5802	15516	12678
Dyna-Gro	Danny Boy BMR	10630	4176	14806	.
Sorghum Partners	SP4105	6567	8899	14335	14900
Gayland Ward	Sweet Six BMR Dry Stalk	6603	8016	14329	14474
Coffey	Exp SCA-3 BMR	10057	4157	14214	.
Alta Seeds	AS6402	6901	9924	14046	15436
Southern States	SS 1652 SS (SG X S)	6872	8405	13099	14188
Gayland Ward	Nutra-King BMR	8631	10128	13077	15918
Sorghum Partners	SPX59416	9349	2944	12294	.
Gayland Ward	Sweet Forever BMR	6249	9206	12057	13756
Coffey	Surpass BMR dw (SGxS)	8452	2818	11269	.
Moss	Mega Green BMR	8457	2030	10487	.
Sorghum Partners	SPX55816	6854	3121	9976	.
Sorghum Partners	SPX55516	6161	2180	8341	.
Southern States	SS 130 (S)	7768	4677	7959	10202
Average		10805	4800	15605 ¹	15709
LSD at 10% Level		1891	2161	3314	NS ²
Std. Err. of Entry Means		805	920	1411	1053

Tifton, Georgia:
Evaluation of Summer Annual Forages, 2017
and Two-Year Average Yields, 2016-2017
(Continued)

Company or Brand Name	Hybrid Name or Number	Clipping Date	Season	2-Year
		6/19/2017	Total	Average
----- dry matter yield - pounds per acre -----				
Pearl Millet				
UGA	Tifleaf 3	12968	12968	15102
Coffey	ExCeed BMR	12756	12756	.
Advanta	Wonderleaf	12561	12561	15527
Sorghum Partners	Millex 32	11958	11958	15501
Sorghum Partners	MILLEX BMR	11733	11733	12608
SS	SS 635 DF	11591	11591	13682
Coffey	Epic BMR	11098	11098	.
SS	SS 1562M BMR	10076	10076	11493
Average		11843	11843 ³	13986
LSD at 10% Level		738	738	NS
Std. Err. of Entry Mean		303	303	312

1. CV = 18.1% and df for EMS = 96.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. CV = 5.1% and df for EMS = 21.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 24, 2017.

Seeding Rate: Sorghum x Sudangrass: 150,000 seed/acre in 30" rows.
Millet: 500,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: Sorghum x Sudangrass: P = High, K = Medium, and pH = 6.0.
Pearl Millet: P = Medium, K = Medium, and pH = 5.6.

Fertilization: Preplant: 50 lb N, 80 lb P₂O₅, and 90 lb K₂O/acre. Applied 1000 lb dolomitic lime/acre.
Sidedress: 60 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Soybeans.

Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Telone II used for nematode control; Sivanto used for insect control.

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

**Athens, Georgia:
Evaluation of Summer Annual Forages, 2017
and Two-Year Average Yields, 2016-2017**

Company or Brand Name	Hybrid Name or Number	Clipping Dates			Season Total	2-Year Average ¹
		7/13/2017	8/18/2017	10/13/2107		
----- dry matter yield - pounds per acre -----						
<u>Sorghum x Sudangrass</u>						
Gayland Ward	Super Sugar(DM)	2966	5757	1282	10005	7202
Dyna-Gro	Danny Boy BMR	4587	3581	1223	9391	.
Alta Seeds	AS6504	3137	3287	2122	8546	.
Coffey	Xtragraze BMR	3662	2760	1909	8331	.
Gayland Ward	Sweet Six BMR Dry Stalk	3661	3023	1367	8052	6635
Moss	Mega Green	3396	2456	1870	7721	7199
Coffey	Exp SCA-2 ST	2922	2954	1684	7560	.
Alta Seeds	AS6402	2886	2590	1774	7249	6080
Gayland Ward	Nutra-King BMR	3240	3025	881	7145	6364
Coffey	Exp SCA-1	2615	2883	1584	7082	.
Meherrin	Southern Star	2310	3232	1370	6912	.
Coffey	Surpass BMR dw (SGxS)	2595	2477	1725	6796	.
Dyna-Gro	F74FS23 BMR	3540	2120	1027	6687	.
Coffey	Exp SCA-3 BMR	2715	2177	1305	6197	.
Moss	Mega Green BMR	2644	2880	650	6173	.
Dyna-Gro	FullGraze BMR	2613	2077	1172	5862	.
Desert Sun	DSM 33-948	2116	2296	1114	5526	4937
Desert Sun	BIG KAHUNA	2106	1911	1379	5396	4597
Meherrin	SOUTHERN SWEET	2528	2062	788	5378	4399
Gayland Ward	Sweet Forever BMR	2773	1594	826	5192	3799
Desert Sun	ELITE	2074	953	641	3668	.
Average		2909	2671	1319	6899 ²	5690
LSD at 10% Level		1156	1737	794	2428	1327
Std. Err. of Entry Mean		420	632	289	883	521
<u>Pearl Millet</u>						
UGA	Tifleaf 3	7172	1843		9016	6643
Advanta	Wonderleaf	8040	779		8820	6299
Coffey	Epic BMR	7347	553		7900	.
Coffey	ExCeed BMR	6680	141		6821	.
Athens	HPM 1	5961	376		6338	.
Average		7040	739		7779 ³	6471
LSD at 10% Level		NS ⁴	777		NS	NS
Std. Err. of Entry Mean		890	308		962	371

**Athens, Georgia:
Evaluation of Summer Annual Forages, 2017
and Two-Year Average Yields, 2016-2017
(Continued)**

1. Data from Griffin, 2016, and Athens, 2017.
2. CV = 25.6% and df for EMS = 40.
3. CV = 24.7% and df for EMS = 12.
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 yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 16, 2017

Seeding Rate: Sorghum x Sudangrass: 150,000 seed/acre in 30" rows.5
Pearl Millet: 500,000 seed/acre in 30" rows.

Soil Type: Chewacla silt loam.

Soil Test: P = Medium, K = Low, and pH = 6.1.

Fertilization: Preplant: 50 lb N, 165 lb P₂O₅, and 330 lb K₂O/acre.

Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st and 2nd harvests.

Previous Crop: Wheat.

Management: Strip tilled for planting; Dual Magnum and Atrazine used for weed control; Lorsban used for insect control.

Test conducted by H. Jordan and G. Ware.

Grain, Silage and Forage Sorghum Hybrid Resistance to Insect and Bird Damage, 2017

G. David Buntin, Xinzhi Ni, Karen R. Harris-Shultz, Joseph E. Knoll, Michael D. Toews, and Dustin Dunn

A total of 32 grain and 30 forage type sorghum hybrids were evaluated for resistance to insect, disease, and bird damage in Tifton, Georgia. These hybrids plus 33 silage type and 5 pearl millet hybrids also were evaluated for sugarcane aphid resistance near Griffin, Georgia. A total of 10 insect pests were observed in Tifton. The insect pests in order of importance are: sugarcane aphid, sorghum webworm, sorghum midge, leaf-footed bug, fall armyworm, corn earworm, corn leaf aphid, stink bug (southern green and brown stink bug), and chinch bug. In comparison with the sugarcane aphid population and its damage, sorghum webworm, midge, and bird damage were relatively low in 2017. Due to low populations, fall armyworm, corn earworm, leaf-footed bug, stink bug, and chinch bug damage data were not included in this report. In addition, diseases were of minimal importance in grain sorghum trials.

Sugarcane aphid numbers and damage were rated several times at each location and the average aphid numbers and damage ratings are presented. At Tifton, aphid numbers were estimated using a 0-6 scale: 0 = no aphid, 1 = 1-25, 2 = 26-50, 3 = 51-100, 4 = 101-500, 5 = 501-1000, and 6 = over 1000 aphids, but at Griffin the number of aphids per leaf were counted. At both locations, aphid damage was rated using a 1-9 scale: 1 = no damage, 2 = 1-20%, 3 = 21-30%, 4 = 31-40%, 5 = 41-50%, 6 = 51-60%, 7 = 61-70%, 8 = 71-80%, and 9 = greater than 81% of the leaves are dying, which also included aphid-killed plants.

At Tifton, sorghum webworm and midge damage were assessed in combination with grain loss according to the following rating scale: Very Good (VG) = 0-15% empty glumes on any of the sorghum panicles in an experimental plot; Good (G) = a few empty glumes (16-30%) observed on a panicle; Fair (F) = 31-75% empty glumes on a sorghum panicle; and Poor (P) = majority of sorghum panicles with more than three quarters (> 75%) empty glumes. Finally, bird-feeding damage on developing kernels was determined by the presence of partial kernels on panicles, and evidence of splattering of broken developing kernels falling on the top leaves of a plant. Bird damage was rated with the following scale: Very Good (VG) = less than 10% grain loss; Good (G) = 11-25% loss; Fair (F) = 26-50% loss; and Poor (P) = > 50% loss of grains per panicle.

Large sugarcane aphid infestations were observed on seedling and vegetative stage plants planted on June 9 at Tifton and June 11 at Griffin. Sugarcane aphid infestation, which generally occurred between mid-July and early August, was so severe that it halted normal plant development before flowering; as a result 19 grain sorghum hybrids did not produce panicles (Table 1A). Although 13 entries produced panicles, only 8 of them consistently produced panicles in all four replications. Any panicles from delayed tillers after aphid population crash were not included in the table. Most of these hybrids aborted their panicle development at the flag leaf (or boot) stage. Results from 2017 showed that sugarcane aphid infestation at the seedling stage is much more severe than the post-flowering infestation observed in previous years.

Only eight of the 13 grain sorghum hybrids consistently produced normal panicles from all four replications of the trial in both Griffin and Tifton locations. Four of the eight hybrids are from Dyna-Gro, 'GX15371', 'GX16833', 'GX17818', and 'M74GB17.' The other four best performing hybrids are 'CHROL2042' from Chromatin, 'SP7715' and 'SP78M30' from Sorghum Partners, and 'DKS48-07' from DeKalb. It is important for us to point out that some of these best performing hybrid seeds were treated with insecticides. 'CHROL0029' from Chromatin showed better aphid resistance at the Griffin location than in Tifton (Table 1A). While Dyna-Gro treated with DS Imidacloprid and DeKalb seeds were treated with Poncho, the seed treatment information was not known for Sorghum Partners and Chromatin, and it is possible that the seeds were not treated with any insecticides. Furthermore, the insecticides were no longer effective by the time aphid counts and ratings were taken.

Among the 33 silage sorghum hybrid entries examined at Griffin location (Table 1B), seven hybrids showed the best performance in aphid tolerance: three from Sorghum Partners, 'SP2774 BMR', 'SP2880', and 'SP2876 BMR'; two from Dyna-Gro, 'F74FS23 BMR' and 'F73FS10'; and two from Coffey, 'EXP- 15F9101' and 'EXP-15F909'.

In addition, 30 forage sorghum hybrids were evaluated for sugarcane aphid damage and anthracnose infection severity on July 12, 2017, at pre-harvest (Table 1C). The experiment plots were planted on April 24, 2017, with 4 replications. Eight forage sorghum hybrids were identified as the best with aphid and anthracnose resistance at the Tifton location, while nine hybrids were identified as having some aphid resistance at the Griffin location. Please refer to Table 1C for the details on selecting the best performing hybrids. In addition, all five pearl millet hybrids included in the forage trial consistently showed no aphid infestation at the Griffin location, which confirmed the results from both Griffin and Tifton locations in 2016.

Growers should select insect- and disease-resistant hybrids, the most economical pest management strategy for sorghum production in our region. Producers should be aware that later plantings tend to have increased insect pest and disease pressure. In addition, the bird damage can generally be minimized by timely harvest. For further integrated insect management information, please consult with your local county agents and/or Extension entomologists.

This grain sorghum test was maintained and flowering-date data of the grain sorghum trial were collected by Penny Tapp, Henry Deems, and Ashleigh Burgess from the Crop Genetics and Breeding Research Unit, USDA-ARS. Aphid damage and insect damage data collection was assisted by Hongliang Wang, Ashleigh Burgess and Tanner Watkins from the Crop Genetics and Breeding Research Unit, USDA-ARS. The forage sorghum trial was planted, maintained and harvested by Mr. Dustin Dunn's team at the University of Georgia Tifton campus.

Table 1A. Evaluation of sorghum hybrid grain production for resistance to sugarcane aphid (SCA) infestation and injury, webworm, midge and bird damage at Griffin and Tifton, Georgia, 2017.

Brand	Variety	Maturity ¹	Combined SCA rating ²		Damage Rating (0-9 scale) ³		Average Aphids per leaf		Tifton		2017 Overall rating ⁷			
			Mean	HSD	Final	Mean	HSD	Mean	HSD	Damage rating ³ mean		Aphid estimate 0-6 scale ⁴	Webworm and Midge Resist. ⁵	Bird Damage ⁶
GRAIN TYPES														
Southern States	SS 655	ML	S	S	8.33 a	6.22 a	94.7 c-k*	8.04	4.98	.	.	P		
Gayland Ward	EXP-9138	M	S	S	7.67 ab	6.11 a	204.6 ab	7.79	4.40	.	.	P		
DeKalb	DKS53-53	MF	S	S	7.33 abc	5.56 ab	133.2 b-f	8.17	4.73	.	.	P		
Gayland Ward	EXP-9139	M	S	S	6.33 bcd	5.67 ab	123.8 b-g	7.58	4.73	.	.	P		
Pioneer	84P80	ML	S	S	6.33 bcd	5.00 bc	121.5 b-g	7.63	4.38	.	.	P		
Southern States	SS 800	L	S	S	6.00 cde	4.44 cd	135.0 b-f	8.38	4.54	.	.	P		
Gayland Ward	EXP-9134	M	S	S	5.33 d-g	4.33 cde	148.2 a-e	7.79	4.71	.	.	P		
Meherrin	SH65G6	M	S	S	5.00 d-g	4.22 c-f	232.1 a	7.08	5.00	.	.	P		
DeKalb	DKS38-16	ME	S	S	5.00 d-g	4.00 e-g	165.7 a-d	7.25	5.17	.	.	P		
Gayland Ward	EXP-9135	M	S	S	5.00 d-g	4.22 c-f	139.1 b-f	7.96	4.75	.	.	P		
Dyna-Gro	GX 16855	M	S	S	5.00 d-g	3.33 f-k	64.0 f-k*	6.00	4.54	1.00	2.50	G		
Sorghum Partners	NK6638	ML	S	S	4.67 e-h	4.33 cde	170.2 a-d	6.29	5.50	.	.	P		
Meherrin	SH90G6	ML	S	S	4.67 e-h	4.33 cde	156.3 a-e	5.71	5.21	.	.	P		
Southern States	SS 540	E	S	S	4.67 e-h	3.78 e-i	154.1 a-e	6.46	4.96	.	.	P		
Gayland Ward	GW 1160	ME	MS	MS	4.33 f-i	3.67 e-j	148.4 a-e	6.79	5.04	.	.	P		
Desert Sun	DSM 40-920	E	MS	MS	4.00 ghi	3.89 e-h	191.7 abc	7.83	4.88	.	.	P		
DeKalb	DKS51-01	MF	MS	MS	4.00 ghi	3.06 h-l	126.8 b-f	7.38	4.88	.	.	P		
Pioneer	83P17\$	ML	MR	MR	4.67 e-h	3.89 e-h	104.5 c-j	7.25	4.67	.	.	P		
Meherrin	SH80G4	M	MR	MR	3.00 ij*	2.33 lm*	122.3 b-g	5.96	4.71	1.00	2.67	G		
Dyna-Gro	M73GR55\$	ML	MR	MR	3.00 ij*	2.39 lm*	117.0 c-i	4.83	3.96	.	.	P		
Desert Sun	DSM 45-480	E	MR	MR	3.00 ij*	3.33 f-k	80.9 e-k*	7.36	5.61	.	.	P		
Athens	105	M	MR	MR	3.33 hij*	2.67 klm*	87.0 d-k*	5.42	4.63	1.00	1.50	VG		
Dyna-Gro	M60GB31	ME	TR	TR	5.67 def	4.33 cde	48.6 f-k*	5.83	4.13	1.00	2.00	VG		
Chromatin	CHROL0029**	ML	TR	TR	2.33 j*	2.33 lm*	2.3 f-k*	4.08	3.79	.	.	P		
Dyna-Gro	GX 16833**	M	TR	TR	5.00 d-g	3.33 f-k	34.7 ijk*	5.75	4.54	1.33	2.67	G		
DeKalb	DKS 48-07**\$	M	TR	TR	4.33 f-i	3.44 e-k	75.7 e-k*	7.08	4.54	1.00	2.25	G		
Dyna-Gro	GX 15371**	ML	TR	TR	4.33 f-i	3.22 g-l	61.2 f-k*	5.65	4.34	1.67	2.00	G		
Dyna-Gro	GX 17818**	ML	TR	TR	4.00 ghi	2.89 j-m*	17.4 k*	5.52	4.29	1.25	2.25	VG		
Chromatin	CHROL2042**	ML	TR	TR	4.00 ghi	2.78 j-m*	25.1 jk*	5.71	3.96	1.00	1.50	VG		
Dyna-Gro	M74GB17**\$	ML	TR	TR	3.00 ij*	2.56 klm*	29.0 jk*	6.44	4.58	1.67	2.00	G		
Sorghum Partners	SP7715**\$	ML	TR	TR	2.33 j*	2.56 klm*	72.5 e-k*	3.75	3.96	1.00	2.50	G		
Sorghum Partners	SP78M30**\$	ML	TR	TR	2.00 j*	2.11 m*	2.1 e-k*	4.50	4.29	1.00	3.00	G		

Table 1A. Evaluation of sorghum hybrid grain production for resistance to sugarcane aphid (SCA) infestation and injury, webworm, midge and bird damage at Griffin and Tifton, Georgia, 2017 (Continued)

Analysis by sorghum type. Means with the same letter are not significantly different Tukey HSD grouping;

* not significantly different from the lowest number.

** Most tolerant/resistant in each category by a principal component analysis of plant damage and aphid numbers.

§ Listed as having some tolerance/resistance by Sorghum Checkoff website (<http://www.sorghumcheckoff.com/farmer-resources/grain-production/hybrid-selection>).

1. Maturity denotes early (E), moderately early (ME), medium (M), moderately late (ML), late (L), and photo-period sensitive (PS or PPS) of the grain or forage/hay sorghum hybrid, which were provided by the company;
2. Combined sugarcane aphid rating: S = susceptible, MS = moderately susceptible, MR = moderately tolerant-resistant, TR = tolerant/resistant, and R = resistant.
3. Plant damage scale: 0 = no damage to 9 = dead/dying plants.
4. Number of aphids estimated with a scale of 0-6: 0 = no aphids, 1 = 1 to 25; 2 = 26 to 50; 3 = 51 to 100; 4 = 101-500; 5 = 501-1000; and F = greater than 1000 aphids per leaf.
5. Sorghum webworm and midge resistance: Very Good (VG) = 0-15%, Good (G) = 16-30%, Fair (F) = 31-75%, and Poor (P) = >75% glumes are without grains on a panicle. No panicles present and no rating.
6. Bird-feeding resistance: Very Good (VG) = less than 10% loss; Good (G) = 11-25% loss; Fair (F) = 26-50% loss; and Poor (P) = over 50% loss. No panicles present and no rating.
7. Overall damage rating was based on the principal component analysis of all 33 hybrid entries. Three parameters (i.e., aphid number, aphid damage, anthracnose rating) were used in the principal component analysis.

Table 1B. Evaluation of sorghum hybrid silage production for resistance to sugarcane aphid (SCA) infestation and injury at Griffin, Georgia, 2017.

Brand	Variety	Maturity	Combined SCA rating ¹	Griffin				Average Aphids per leaf	HSD
				Damage Rating (0-9 scale) ²		Average			
				Final	Avg (3 dates)	Mean	HSD		
SILAGE TYPES									
Coffey	EXP-9139	.	S	8.00 a		6.17 a-e		168.1 a-h*	
Southern States	SS405	.	S	7.00 ab		6.56 ab		299.7 ab	
Gayland Ward	Silo-Pro Dwarf BMR	.	S	7.00 ab		6.67 a		182.3 b-h*	
Desert Sun	Buffalo Grain	.	S	6.67 abc		5.78 a-f		250.7 a-e	
Sorghum Partners	SP 1880	.	S	6.33 a-d		6.44 abc		252.1 a-d	
Gayland Ward	GW 400 BMR	.	S	6.33 a-d		5.44 a-h		171.3 c-h*	
Moss	4Ever Green	.	S	6.33 a-d		6.22 a-d		107.3 gh*	
Sorghum Partners	SP1615	.	S	6.00 a-e		5.33 a-l		298.3 ab	
Coffey	Exp15F1097	.	S	6.00 a-e		5.56 a-g		120.5 fgh*	
Dyna-Gro	XF 7103	.	S	6.00 a-e		5.00 c-l		170.4 c-h	
Gayland Ward	GW-457 BMR	.	MS	5.67 b-f		5.33 a-l		126.4 e-h*	
Dyna-Gro	XF7303	.	MS	5.67 b-f		5.11 b-i		250.9 a-d	
Southern States	SS 1597FS	.	MS	5.67 b-f		6.22 a-d		124.1 fgh*	
Alta	AF7401	.	MS	5.67 b-f		4.78 d-j		188.2 b-h*	
Dyna-Gro	XF7302	.	MS	5.67 b-f		5.11 b-l		179.9 b-h*	
Southern States	SS1515f	.	MS	5.33 b-g		4.56 f-J		260.0 a-d	
Meherrin.	SH905F	.	MS	5.33 b-g		4.56 f-J		279.2 abc	
Sorghum Partners	SP3903BD	.	MS	5.33 b-g		5.78 a-f		201.9 a-g	
Sorghum Partners	SP4555	.	MS	5.33 b-g		4.89 d-i		168.3 c-h*	
Gayland Ward	GW600 BMR	.	MS	5.00 b-g		5.11 b-i		65.2 h*	
Sorghum Partners	SP4105	.	MS	5.00 b-g		5.56 a-g		149.6 d-h	
Southern States	SS 2010 BDF	.	MS	5.00 b-g		4.22 g-j		236.7 a-f	
Dyna-Gro	705F	.	MS	5.00 b-g		4.33 f-J		250.7 a-e	
Sorghum Partners	SPX56216	.	MS	5.00 b-g		5.22 a-i		229.4 a-g	
Sorghum Partners	NK300	.	MR	4.75 c-g		4.67 e-j		305.8 a	
Dyna-Gro	F76FS77	.	MR	4.33 d-h *		4.78 d-J		262.3 a-d	
Sorghum Partners	SP2774 BMR**	.	TR	4.00 e-h *		4.11 g-k*		201.7 a-g	
Dyna-Gro	F74FS23 BMR**	.	TR	4.00 e-h *		4.33 f-J		179.7 b-h*	
Sorghum Partners	SP 2880**	.	TR	4.00 e-h *		3.89 ijk*		259.2 a-d	
Dyna-Gro	F73FS10**	.	TR	3.67 f-h *		3.89 ijk*		242.4 a-f	
Sorghum Partners	SP2876 BMR**	.	TR	3.67 f-h *		4.00 h-k*		242.6 a-f	
Coffey	EXP- 15F9101**	.	TR	3.33 g-h*		3.33 jk*		186.3 b-h*	
Coffey	EXP-15F909**	.	TR	2.33 h*		2.67 k*		149.3 d-h*	

Analysis by sorghum type. Means with the same letter are not significantly different Tukey HSD grouping;

* not significantly different from the lowest number.

** Most tolerant/resistant in each category by a principal component analysis of plant damage and aphid numbers.

1. Combined sugarcane aphid rating: S = susceptible, MS = moderately susceptible, MR = Moderately tolerant-resistant, TR = tolerant/resistant, and R = resistant.

2. Plant damage scale: 0 = no damage to 9 = dead/dying plants.

Table 1C. Evaluation of sorghum hybrid forage/hay production for resistance to sugarcane aphid (SCA) infestation and injury at Griffin and Tifton, Georgia, 2017.

Brand	Variety	Maturity ¹	Combined SCA rating ²	Griffin			Tifton			2017 Overall rating ⁶
				Damage Rating (0-9 scale) ³	Damage Rating (0-9 scale) ³		Damage rating ³ mean	Aphid estimate 0-6 scale ⁴	Anthracnose rating ⁵	
					Final	Avg (3 dates)				
					Mean HSD	Mean HSD				
Average Aphids per leaf	HSD	HSD	Average Aphids per leaf	HSD						
FORAGE TYPES										
Sorghum Partners	SPX 55516	.	S	7.33 a	6.33 b	211.7 ab	2.25	2.00	4.50	G
Moss	Mega Green BMR	.	S	7.33 a	7.89 a	79.0 d-g*	5.13	4.00	3.00	F
Desert Sun	BIG KAHUNA	PPS	S	7.00 ab	6.00 bc	111.3 b-f	2.50	1.75	4.25	G
Sorghum Partners	SPX55816	.	S	6.67 abc	5.67 b-e	152.9 a-f	4.25	3.00	4.50	G
Gayland Ward	Sweet Six BMR Dry Stalk	E	S	6.67 abc	6.11 bc	56.6 fg*	4.75	2.75	3.50	F
Southern States	SS 130 (S)	ML	S	6.33 a-d	4.22 f-i	66.2 efg*	1.00	0.25	5.00	G
Alta	AS6504	PS	S	6.33 a-d	4.89 c-h	175.9 a-e	3.00	1.75	3.25	VG
Southern States	SS 1652 SS (SGXS)	M	S	6.00 a-e	5.56 b-f	95.8 c-g*	5.00	3.00	3.75	P
Sorghum Partners	Sordan 79	M	S	6.00 a-e	5.67 b-e	174.9 a-e	6.00	3.50	3.25	P
Sorghum Partners	SPX56116	.	S	5.67 a-f	5.23 b-g	187.6 a-d	4.63	3.25	3.00	F
Desert Sun	ELITE	L	S	5.67 a-f	4.56 d-i	198.9 abc	4.75	3.25	3.25	F
Sorghum Partners	SPX59416	.	MS	5.33 b-g	5.78 bcd	127.0 a-f	3.38	3.25	2.00	G
Gayland Ward	Sweet Forever BMR	M	MS	5.33 b-g	5.67 b-e	46.5 fg*	5.38	4.50	3.25	P
Southern States	SS 220 (SGXS)	L	MS	5.33 b-g	5.44 b-g	99.8 a-d	2.75	1.25	3.25	VG
Gayland Ward	Nutra-King BMR	ME	MS	5.00 c-h	5.33 b-g	132.9 c-g*	4.75	3.25	3.50	F
Moss	Mega Green	PS	MS	4.67 d-i	6.33 b	53.0 a-d	4.25	2.50	2.50	G
Dyna-Gro	Danny Boy BMR	M	MS	4.67 d-i	4.44 d-i	186.5 a-f	6.00	3.50	3.00	P
Coffey	Exp SCA-3 BMR	M	MR	4.33 e-j*	4.44 d-i	184.3 c-g*	4.25	3.00	2.75	G
Coffey	EXP SCA-1	M	MR	4.33 e-j*	4.33 e-i	153.2 d-g*	4.50	4.00	3.00	F
Alta	AS6402	ML	MR	4.33 e-j*	3.78 hij*	187.8 b-g*	4.75	3.50	2.75	G
Coffey	Exp SCA-2 ST	M	MR	3.67 g-j*	4.44 d-i	172.0 a-e	2.75	2.00	2.75	VG
Coffey	Xtragraze BMR**	M	MR	3.00 j*	3.22 ijk**	223.9 a	3.00	2.50	2.25	VG
Sorghum Partners	SP6205 BD**	ML	TR	4.33 e-j*	3.67 hij*	91.7 a-e	2.75	2.00	3.00	VG
Coffey	Surpass BMR dw (SGxS)**	M	TR	4.00 g-j*	4.11 g-j*	76.7 efg*	4.88	4.00	2.50	G
Meherrin	SOUTHERN SWEET**	L	TR	3.67 g-j*	3.44 ij*	101.7 d-g*	4.13	4.00	3.00	F
Dyna-Gro	FullGraze BMR**	L	TR	3.33 hij*	3.67 hij*	71.3 efg*	3.25	2.00	2.75	VG
Gayland Ward	Super Sugar (DM)**	ML	TR	3.33 hij*	4.22 f-i	83.4 d-g*	4.75	4.25	3.00	F
Desert Sun	DSM 33-948**	L	TR	3.00 j*	2.78 jk**	108.9 b-g*	2.50	2.00	2.75	VG
Meherrin	Southern Star**	L	TR	2.67 J*	1.88 k**	20.6 g*	3.00	2.00	2.75	VG
Sorghum Partners	Sordan Headless**	PS	TR	2.67 J*	3.33 ij*	135.8 a-f	3.75	2.50	2.25	G

Table 1C. Evaluation of sorghum hybrid forage/hay production for resistance to sugarcane aphid (SCA) infestation and injury at Griffin and Tifton, Georgia, 2017. (Continued)

Brand	Variety	Maturity ¹	Griffin			Tifton			2017 Overall rating ⁶	
			Combined SCA rating ²	Damage Rating (0-9 scale) ³		Average Aphids per leaf	Damage rating ³ mean	Aphid estimate 0-6 scale ⁴		Anthracnose rating ⁵
				Final Mean	HSD					
PEARL MILLET										
Sorghum Partners	Milllex 32	R	0.00	0.00	0.0	†	†			
UGA	Tifleaf 3	R	0.00	0.00	0.0					
Coffey	ExCeed BMR	R	0.33	0.00	0.0					
Southern States	SS 635 DF	R	0.25	0.00	0.0					
Southern States	SS 1562M (BMR)	R	0.00	0.00	0.0					

Analysis by sorghum type. Means with the same letter are not significantly different Tukey HSD grouping;

* not significantly different from the lowest number.

** Most tolerant/resistant in each category by a principal component analysis of plant damage and aphid numbers.

† Not included at this location

1. Maturity denotes early (E), moderately early (ME), medium (M), moderately late (ML), late (L), and photo-period sensitive (PS or PPS) of the grain or forage/hay sorghum hybrid, which were provided by the company.

2. Combined sugarcane aphid rating: S = susceptible, MS = moderately susceptible, MTR = moderately tolerant-resistant, TR = tolerant/resistant, and R = resistant.

3. Plant damage scale: 0 = no damage to 9 = dead/dying plants.

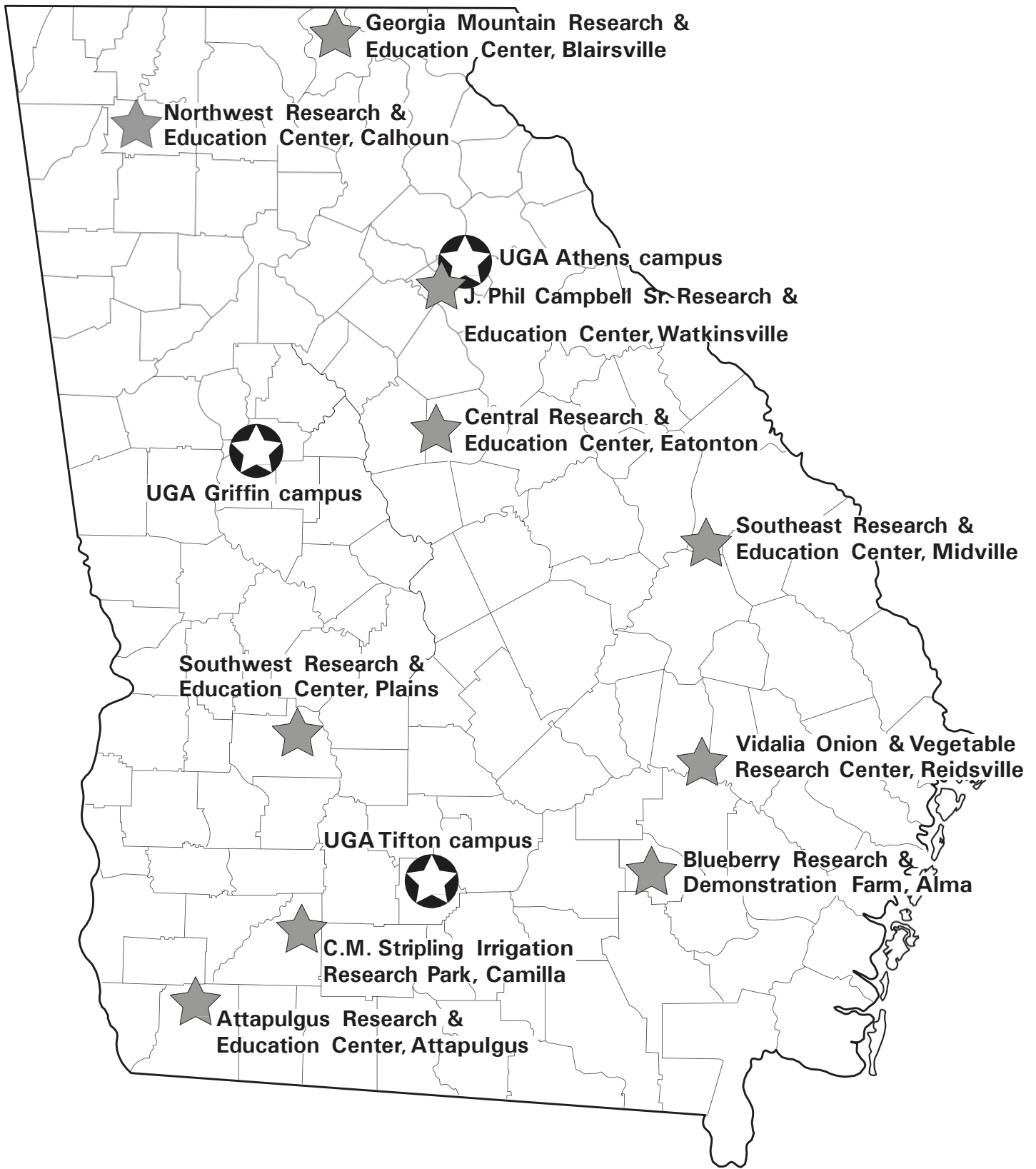
4. Number of aphids estimated with a scale of 0-6: 0 = no aphids, 1 = 1 to 25; 2 = 26 to 50; 3 = 51 to 100; 4 = 101-500; 5 = 501-1000; and 6 = greater than 1000 aphids per leaf.

5. Anthracnose infection on leaves was rated using a 1-5 scale, where 1 = no symptoms and 5 = heavy infection.

6. Overall damage rating was based on the principal component analysis of all 33 hybrid entries. Three parameters (i.e., aphid number, aphid damage, anthracnose rating) were used in the principal component analysis.

Sources of Seed for the 2017 Grain Sorghum, Silage Sorghum, and Summer Annual Forages Tests

Brand or Variety Name	Company and Address
Alta Seeds	Alta Seeds, 201 E. John Carpernter Freeway, Suite 660, Irving, TX 75062
Athens	Athens Seed Co., 63 Depot Street, Watkinsville, GA 30677
Chromatin	Chromatin, Inc., 1301 E. 50 th St., Lubbock, TX 79404
Coffey	Coffey Forage Seeds Inc., 2106 South Date Street, Plainview, TX 79072
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167
Desert Sun	Desert Sun Marketing Co., PO Box 50817, Phoenix, AZ 85076
Dyna-Gro	Dyna-Cro Seed, 100 Industrial Court, Colquitt, GA 39837
Gayland Ward	Gayland Ward Seed Co. Inc., 4395 US Hwy 60, Hereford, TX 79045
Moss	Walter Moss Seed Co., PO Box 21114, Waco, TX 76702
Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229
Meherrin	Meherrin Ag, PO Box 1076, Hawkinsville, GA 31036
Sorghum Partners	Chromatin, Inc., 1301 E. 50 th St., Lubbock, TX 79404
SS, Southern States	Southern States Coop, PO Box 26234, 6606 West Broad Street, Richmond, VA 23260
UGA	University of Georgia, Tifton Campus, 2360 Rainwater Rd., Tifton, GA 31793-5766



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- Certified seed must meet high quality standards as to germination and purity.
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