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GEORGIA

2016 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests

John D. Gassett, 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* '	foot	30.48 centimeters
in *or* "	inch	2.54 centimeters
	Area	
sq mi *or* mi^2	square mile	2.59 square kilometers
acre	acre	0.405 hectares *or* 4047 square meters
sq ft *or* ft^2	square foot	0.093 square meters
	Volume/Capacity	
gal	gallon	3.785 liters
qt	quart	0.946 liters
pt	pint	0.473 liters
fl oz	fluid ounce	29.573 milliliters or 28.416 cubic centimeters
bu	bushel	35.238 liters
cu ft *or* ft^3	cubic foot	0.028 cubic meters
	Mass/Weight	
ton	ton	0.907 metric ton
lb	pound	0.453 kilogram
oz	ounce	28.349 grams

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

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PREFACE

This research report presents the results of the 2016 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. In addition, dryland soybean variety trials were conducted at four locations (Midville, Plains, Tifton, and Griffin), 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 2017 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 Station. For additional information, contact your local county Extension agent or the nearest experiment station.

The least significant difference (LSD) at the 10% level has been included in the tables to aid in comparing hybrids. 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: 2016 Corn Performance Tests (Annual Publication 101-8), 2015-2016 Small Grains Performance Tests (Annual Publication 100-8), 2015 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-7), 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 John Gassett, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

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2016 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests

Edited by
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and J. LaDon Day

The Season

Similar to the previous year, Georgia farmers faced variable weather conditions for planting across the state in 2016. For much of the state, adequate moisture for spring planting of soybeans and sorghum was not a concern. Irrigation demands increased as the growing season progressed for many here in the state. For the first time in three years, soil temperatures did not delay spring plantings. Dry weather during the fall, which included dry conditions in the Coastal Plain region and extreme drought in the northeastern area of the state from the Limestone Valley to the Piedmont, allowed harvesting to proceed in a timely manner. Asian soybean rust was monitored on the USDA Public PIPE Website and was only an issue for producers in the southernmost counties of Georgia, while the sugar cane aphid was a concern again the year.

The following table presents the rainfall amounts recorded monthly at the six test locations in Georgia during the 2016 growing season. Midville and Tifton were the only two locations statewide to receive more than normal rainfall.

Growing Season Rainfall[1], 2016

Month	Year	Athens[2]	Calhoun[3]	Griffin	Midville	Plains	Tifton
		---------- inches ----------					
March	2016	0.84	4.33	3.36	2.83	2.39	5.26
April	2016	1.55	2.38	4.94	3.95	4.57	6.34
May	2016	0.82	1.79	3.61	4.22	0.84	1.45
June	2016	5.92	4.16	1.00	3.94	4.02	3.94
July	2016	2.20	2.06	2.49	6.20	1.59	3.38
August	2016	1.70	6.86	3.15	3.88	4.66	6.31
September	2016	1.30	0.42	1.91	4.88	2.20	6.16
October	2016	0.00	0.00	0.11	2.50	0.00	0.06
Total (8 mo)		14.33	22.00	20.57	32.40	20.27	32.90
Normal (8 mo)		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. Plant Sciences Farm.
3. Floyd County location.

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The 2016 crop maturity progressed normally based on the five-year average. Due to the lack of rainfall later in the season, harvesting was not a challenge for the first time in several years. Georgia producers planted 260,000 acres this year, a decrease of 2% from 2015. Farmers planted 20,000 acres of sorghum in 2016, a decrease of 60%, or 30,000 acres, from last year.

The state yield for soybean was 30 bushels per acre, producing 7.2 million bushels. This production was a decrease of 46% from 2015 due to fewer acres planted and the effects of the drought. Georgia farmers produced 540,000 bushels of grain sorghum this year, a decrease of 67% from last year. This decrease in production was a result of fewer acres planted, 24,000 less acres harvested than 2015, and the increased pressure of the sugar cane aphid. Georgia producers planted 8,000 acres of sorghum silage in 2016, 4,000 acres less than last year, which produced 80,000 tons silage, a 44% decrease from the previous year. In 2016, hay producers harvested 30,000 more acres than the previous year and baled 1.38 million tons at 2.3 tons per acre. This is a decrease of 45,000 tons or 0.2 tons per acre less than 2015.

SOYBEAN

Summary of MG V and MG VI Soybean Variety Performance at Six Locations, 2016

Company/Brand	Variety	2016 Yield[1]						Statewide Average	
		Athens	Calhoun	Griffin	Midville	Plains	Tifton	2016	2-Year
		bu/acre							
Maturity Group V									
AGSouth	AGS 537LL	46.9	62.9	71.8	65.9	**65.5**	**60.1**	62.2	.
AGSouth	AGS 568RR	46.4	53.9	**74.8**	**69.5**	51.4	60.7	59.5	62.5
Bayer	CZ 4818 LL	43.8	**68.6**	64.5	53.2	53.9	56.8	56.8	.
Bayer	CZ 5147 LL	51.4	61.2	**80.5**	**68.0**	57.5	62.7	63.5	.
Bayer	CZ 5225 LL	**59.8**	56.3	71.4	63.0	53.8	69.2	62.2	.
Bayer	CZ 5242 LL	47.0	58.2	67.1	62.9	**59.4**	61.0	59.3	.
Bayer	CZ 5375 RY	55.1	61.1	**73.5**	65.2	**61.0**	63.1	63.1	.
Bayer	CZ 5445 LL	50.9	60.0	71.2	**67.7**	51.3	70.6	62.0	.
Bayer	CZ 5515 LL	48.6	53.9	53.8	60.9	56.5	66.9	56.8	58.8
Dyna-Gro	39RY57	**63.4**	62.4	**74.8**	**67.8**	57.6	83.0	**68.1**	**66.1**
Dyna-Gro	S56RY84	50.2	55.0	65.9	**67.5**	**61.9**	54.3	59.1	62.6
Meherrin	SH 5215 LL	53.9	**68.2**	**77.5**	66.3	**62.3**	61.2	**64.9**	.
Meherrin	SH 5915 LL	53.6	52.5	**74.1**	64.4	**65.5**	67.2	62.9	.
Monsanto	AG53X6 RR2 XTEND	51.7	56.0	68.2	61.6	**60.6**	63.5	60.3	.
Monsanto	AG54X6 RR2 XTEND	48.4	50.1	69.7	58.4	54.4	67.6	58.1	.
Monsanto	AG55X7 RR2 XTEND	51.7	**75.0**	**81.2**	52.0	53.6	68.9	63.7	.
Monsanto	AG59X7 RR2 XTEND	**56.6**	53.6	**74.0**	**67.3**	**58.7**	73.9	64.0	.
NK	S56-M8	52.9	58.4	72.0	**68.1**	**64.0**	54.8	61.7	.
NK	S58-Z4	54.8	49.0	63.2	**70.7**	**60.0**	57.2	59.1	**63.9**
NK	S59-A5	54.9	57.2	**76.5**	**67.5**	**58.4**	66.0	63.4	.
Pioneer	P54T94R	54.6	55.1	71.1	65.3	55.1	68.3	61.6	64.7
Pioneer	P55T81R	**59.2**	57.6	**72.4**	**68.9**	57.3	63.4	63.1	.
Pioneer	P56T12SR	53.4	57.3	**72.7**	63.6	**59.7**	64.0	61.8	65.1
Public Variety	Osage	50.3	64.5	**75.7**	62.5	**58.3**	64.7	62.7	62.3
SS	LL 5914NS	47.2	40.2	62.9	65.2	**62.3**	63.9	57.0	60.5
SS	SS 5517N X	**56.3**	58.9	69.9	59.7	53.4	67.6	61.0	.
SS	SS 5615N R2	54.4	59.0	70.2	64.5	**64.6**	65.7	63.1	**64.2**
SS	SS 5917NS X	53.1	36.6	57.7	60.0	47.4	50.7	50.9	.
Terral Seed	REV®56R63™ Brand	51.1	54.0	66.3	**66.4**	**63.1**	66.6	61.2	62.3
Terral Seed	REV®57R21™ Brand	**58.6**	58.6	**72.8**	63.7	55.4	61.6	61.8	61.9
UARK	R07-6614RR	53.3	48.7	68.2	68.3	**58.5**	62.2	59.9	.
UARK	R10-197RY	50.8	58.3	64.8	65.4	**59.3**	66.5	60.8	60.0
UARK	R10-230	52.0	58.7	67.7	**67.7**	**62.1**	55.7	60.6	.
UARK	UA 5414RR	**56.4**	53.4	62.3	**67.0**	**59.3**	61.4	60.0	58.6
UARK	UA 5612	**60.9**	65.9	73.7	**66.8**	**62.7**	64.4	**65.7**	63.6
UARK	UA 5814HP	**57.0**	49.9	55.0	65.7	56.1	66.7	58.4	61.0
UARK	UAX 51010C	**64.4**	57.2	70.2	61.2	**66.1**	65.6	64.1	.
USDA-ARS	JTN-5110	51.7	60.6	**75.2**	64.3	56.9	58.7	61.2	60.4
USG	75B75R	**58.8**	52.5	71.3	**66.7**	**63.1**	53.8	61.0	.
Virginia Tech	V12-0063R2	**61.4**	53.5	**72.6**	65.5	47.9	61.8	60.4	.

Summary of MG V and MG VI Soybean Variety Performance at Six Locations, 2016 (Continued)

Company/Brand	Variety	2016 Yield[1]						Statewide Average	
		Athens	Calhoun	Griffin	Midville	Plains	Tifton	2016	2-Year
		bu/acre							
Maturity Group V - continued									
Virginia Tech	V12-0074R2	**64.2**	54.8	70.6	62.0	53.0	62.5	61.2	.
Virginia Tech	V12-1048	**59.8**	49.0	70.3	58.8	50.3	58.2	57.7	.
Virginia Tech	V12-1376	49.9	50.4	67.0	65.7	55.2	59.6	57.9	.
Virginia Tech	V12-1416	50.8	56.3	**73.6**	**71.7**	51.0	62.3	60.9	.
Virginia Tech	V12-3684	47.6	55.4	**74.1**	61.9	52.2	48.0	56.5	.
Winfield	RX 5163	**56.3**	61.8	74.1	59.7	**59.9**	60.8	62.1	.
Average		53.8	56.6	70.2	64.5	57.8	62.9	60.9	62.3
LSD at 10% Level		9.2	8.4	8.9	5.3	7.4	8.0	3.4	2.3
Std. Err. of Entry Mean		7.3	3.6	3.8	2.3	3.1	3.4	1.5	1.0
Maturity Group VI									
Bayer	CZ 6060 RY	52.5	**65.8**	56.5	68.6	60.6	**63.8**	61.3	**62.1**
Bayer	CZ 6109 LL	40.0	48.2	49.3	77.4	59.4	**69.2**	57.2	58.2
Bayer	CZ 6316 LL	**66.9**	48.5	53.9	76.4	50.1	**63.2**	59.8	60.3
Dyna-Gro	S65RY73	**70.0**	53.2	57.2	76.2	55.8	**64.3**	62.8	**62.5**
Dyna-Gro	S67RY25	57.0	36.9	**65.2**	**83.7**	55.7	**67.4**	61.0	59.6
Dyna-Gro	S69XT57	52.0	45.6	**63.2**	75.5	53.4	59.7	58.2	.
Meherrin	SH 6215 LL	56.1	38.5	54.5	77.3	51.4	53.7	55.2	55.6
Meherrin	SH 6515 LL	**62.5**	53.0	**64.5**	77.4	52.5	**62.8**	62.1	**63.1**
Meherrin	SH 6815 LL	49.0	48.6	**58.2**	79.0	50.0	59.5	57.4	56.6
Monsanto	AG69X6 RR2 XTEND	56.3	35.2	**57.3**	**82.6**	50.6	55.9	56.3	.
NK	S67-B7	**70.8**	**62.8**	**65.9**	**82.0**	**70.9**	58.4	**68.5**	.
NK	S69-G9	**64.9**	47.0	**59.4**	72.2	52.3	**61.5**	59.5	.
Pioneer	P67T25R2	53.5	48.0	56.4	**86.3**	50.2	**65.8**	60.0	58.1
Public Variety	Musen	47.1	38.0	55.7	71.8	50.9	**64.6**	54.7	54.1
SS	LL 6314S	40.1	34.4	54.5	**81.9**	51.4	55.1	52.9	54.0
SS	SS 6917 X	58.1	43.9	**60.9**	68.8	44.9	56.8	55.6	.
TA Seeds	TS6569R2	49.5	32.1	38.4	69.5	60.0	**65.1**	52.4	52.7
UARK	UAX 59011C	54.8	46.3	47.1	75.9	54.3	50.0	54.7	.
UARK	UAX 59012C	52.9	**57.7**	**57.7**	73.2	50.6	49.5	56.9	.
UARK	UAX 59013C	48.6	**60.2**	53.1	68.5	56.5	47.8	55.8	.
UARK	UAX 59111C	53.3	**61.4**	54.0	70.6	**66.4**	**63.0**	61.4	.
UARK	UAX 59113GT	54.9	48.4	55.0	71.4	59.7	**66.6**	59.3	.
UARK	UAX 59313GT	45.1	**60.7**	50.3	76.0	58.9	**65.4**	59.4	.
USG	7607XT	57.4	50.4	49.0	75.3	56.5	**60.7**	58.2	.
USG	7686XT	47.3	47.2	**59.5**	**81.1**	55.3	58.4	58.1	.
USG	76S73R	51.3	45.4	**59.4**	**85.0**	54.6	**63.3**	59.8	.
Winfield	RX 6966	58.6	47.5	**58.5**	**82.1**	53.5	49.8	58.3	.
Average		54.4	48.3	56.1	76.5	55.0	60.1	58.4	58.1
LSD at 10% Level		11.6	8.5	8.6	6.5	4.5	9.3	3.5	2.1
Std. Err. of Entry Mean		3.9	3.6	3.6	2.8	1.9	3.9	1.4	0.9

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 VIII Soybean Variety Performance at Six Locations, 2016

Company/Brand	Variety	2016 Yield[1] Late-Planted Griffin	Late-Planted Plains	Early-Planted Athens	Early-Planted Midville	Early-Planted Plains	Early-Planted Tifton	Statewide Average 2016	Statewide Average 2-Year
		bu/acre							
Maturity Groups VII and VIII									
AGSouth	AGS 738 RR	39.2	**37.3**	52.2	70.5	**61.3**	57.7	**53.0**	**57.5**
AGSouth	AGS 828 RR	**44.7**	27.1	48.9	69.3	44.8	52.9	47.9	51.5
AGSouth	AGS Woodruff	**41.6**	22.1	49.8	71.9	38.4	41.6	44.2	53.1
Bayer	CZ 7007 LL	38.5	**38.3**	47.8	66.9	45.6	53.4	48.4	52.9
Bayer	CZ 7132 LL	30.6	26.9	42.8	60.2	**56.1**	49.3	44.3	47.7
Dyna-Gro	S72RS36	**45.6**	**32.1**	**59.2**	72.0	50.3	60.7	**53.3**	**57.9**
Dyna-Gro	S75XT26	36.9	**38.8**	51.6	72.6	45.3	60.4	50.9	.
Meherrin	SH 6215 LL	31.7	30.2	44.3	74.2	43.3	53.0	46.1	.
Meherrin	SH 7116 LL	40.0	29.7	47.1	66.9	48.0	49.6	46.9	48.5
Monsanto	AG72X7 RR2 XTEND	36.1	**37.0**	48.6	74.3	43.8	**61.3**	50.2	.
Monsanto	AG75X6 RR2 XTEND	34.9	27.0	45.3	72.1	47.4	46.3	45.5	.
NK	S74-M3	**41.7**	**37.4**	**58.5**	**78.3**	52.3	60.7	**54.8**	**59.3**
Pioneer	P76T54R2	**47.6**	**39.1**	**55.9**	**81.1**	47.7	**62.9**	**55.7**	**58.9**
Public Variety	Cheraw	33.0	18.1	46.0	63.0	37.4	56.6	42.4	50.0
Public Variety	Cook	38.8	24.4	47.3	68.3	45.0	55.6	46.6	49.8
Public Variety	Motte	**41.8**	**34.2**	50.1	70.4	44.8	44.5	47.6	.
Public Variety	Paul	**44.3**	24.5	46.8	74.0	52.1	47.0	48.1	51.0
Public Variety	Santee	38.5	**39.3**	46.9	66.8	**54.6**	58.9	50.8	54.2
SC	SC07-108RR	35.0	**31.8**	42.0	65.1	39.0	51.3	44.0	49.8
SC	SC07-1490RR	33.8	29.8	44.1	67.4	46.2	46.8	44.7	51.6
SC	SC07-1518RR	37.6	26.7	51.7	69.1	34.8	60.0	46.7	52.8
SS	SS 7215NS R2	**48.7**	**38.6**	52.3	70.0	45.4	**63.8**	**53.1**	**57.9**
SS	SS 7516N X	**43.8**	29.3	52.7	**75.4**	48.2	58.0	51.2	.
TA Seeds	TS8059R2	35.8	28.0	42.0	69.8	37.6	46.9	43.4	49.7
UGA	G10PR-56444R2	**51.3**	**35.3**	52.5	73.0	49.3	**64.0**	**54.2**	**57.0**
UGA	G11-2663R2	**47.5**	**32.8**	47.1	74.8	44.0	55.6	50.3	.
UGA	G11PR-56151R2	34.3	28.9	43.9	64.1	44.0	59.0	45.7	53.5
UGA	G11PR-56238R2	**44.0**	**38.3**	47.4	74.1	**52.8**	**64.6**	**53.5**	56.5
UGA	G12-1784R2	41.2	**31.0**	50.5	72.8	48.7	**67.6**	52.0	.
UGA	G12-2103R2	**46.0**	22.2	48.4	68.4	44.8	56.7	47.7	.
UGA	G12-2259R2	**45.6**	**36.5**	52.7	**75.7**	42.6	53.4	51.1	.
UGA	G12-2731R2	**43.5**	**38.8**	46.9	69.5	43.2	56.5	49.7	.
UGA	G12-3107R2	**43.3**	**32.1**	44.9	71.3	50.3	51.6	48.9	.
UGA	G12-6515	**42.7**	25.5	43.9	68.9	38.9	50.5	45.1	.
UGA	G12-6543	**46.1**	26.6	43.2	74.3	44.3	48.0	47.1	.
UGA	G13LL-44	**44.5**	**37.5**	47.5	**76.7**	**55.6**	51.6	**52.2**	**58.0**
UGA	G13LL-7	40.7	27.3	50.4	**78.8**	49.6	**64.1**	51.8	**57.3**
USG	7756XT	35.8	**32.0**	49.0	**76.5**	40.6	**62.1**	49.3	.
USG	77J25RS	**43.2**	**34.8**	52.0	70.8	48.8	**64.6**	**52.4**	**57.0**
Average		40.8	31.5	48.6	71.3	43.6	55.6	49.0	53.9
LSD at 10% Level		9.9	8.3	5.2	5.8	8.9	6.6	3.5	2.6
Std. Err. of Entry Mean		4.2	3.5	2.1	2.4	3.8	2.8	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, 2016

Company or Brand Name	Variety	Yield[1] South[2] 2016	South[2] 2-Year Average	North[3] 2016	North[3] 2-Year Average	Statewide 2016	Statewide 2-Year Average
		bu/acre					
Maturity Group V							
AGSouth	AGS 537LL	63.8	.	60.5	.	62.2	.
AGSouth	AGS 568RR	60.5	68.4	58.4	56.7	59.5	62.5
Bayer	CZ 4818 LL	54.6	.	59.0	.	56.8	.
Bayer	CZ 5147 LL	62.7	.	**64.4**	.	63.5	.
Bayer	CZ 5225 LL	62.0	.	62.5	.	62.2	.
Bayer	CZ 5242 LL	61.1	.	57.5	.	59.3	.
Bayer	CZ 5375 RY	63.1	.	63.2	.	63.1	.
Bayer	CZ 5445 LL	63.2	.	60.7	.	62.0	.
Bayer	CZ 5515 LL	61.4	66.5	52.1	51.0	56.8	58.8
Dyna-Gro	39RY57	**69.4**	**74.3**	**66.8**	**57.9**	**68.1**	**66.1**
Dyna-Gro	S56RY84	61.2	69.3	57.0	55.8	59.1	62.6
Meherrin	SH 5215 LL	63.2	.	**66.5**	.	**64.9**	.
Meherrin	SH 5915 LL	**65.7**	.	60.1	.	62.9	.
Monsanto	AG53X6 RR2 XTEND	61.9	.	58.6	.	60.3	.
Monsanto	AG54X6 RR2 XTEND	60.2	.	56.1	.	58.1	.
Monsanto	AG55X7 RR2 XTEND	58.2	.	**69.3**	.	63.7	.
Monsanto	AG59X7 RR2 XTEND	**66.6**	.	61.4	.	64.0	.
NK	S56-M8	62.3	.	61.1	.	61.7	.
NK	S58-Z4	62.6	70.4	55.7	**57.5**	59.1	**63.9**
NK	S59-A5	63.9	.	62.9	.	63.4	.
Pioneer	P54T94R	62.9	70.4	60.3	**59.0**	61.6	64.7
Pioneer	P55T81R	63.2	.	63.1	.	63.1	.
Pioneer	P56T12SR	62.5	69.7	61.1	**60.6**	61.8	65.1
Public Variety	Osage	61.8	66.4	63.5	**58.3**	62.7	62.3
SS	LL 5914NS	63.8	68.3	50.1	52.6	57.0	60.5
SS	SS 5517N X	60.2	.	61.7	.	61.0	.
SS	SS 5615N R2	64.9	70.3	61.2	**58.1**	63.1	**64.2**
SS	SS 5917NS X	52.7	.	49.1	.	50.9	.
Terral Seed	REV®56R63™ Brand	**65.4**	69.2	57.1	55.4	61.2	62.3
Terral Seed	REV®57R21™ Brand	60.2	65.8	63.3	**58.0**	61.8	61.9
UARK	R07-6614RR	63.0	.	56.7	.	59.9	.
UARK	R10-197RY	63.7	66.2	58.0	53.8	60.8	60.0
UARK	R10-230	61.8	.	59.5	.	60.6	.
UARK	UA 5414RR	62.6	64.8	57.4	52.5	60.0	58.6
UARK	UA 5612	64.6	67.1	**66.8**	**60.0**	**65.7**	63.6
UARK	UA 5814HP	62.8	68.0	53.9	54.0	58.4	61.0
UARK	UAX 51010C	64.3	.	**63.9**	.	64.1	.
USDA-ARS	JTN-5110	60.0	66.2	62.5	54.6	61.2	60.4
USG	75B75R	61.2	.	60.8	.	61.0	.
Virginia Tech	V12-0063R2	58.4	.	62.5	.	60.4	.

Regional Summary of MG V and MG VI Soybean Variety Performance, 2016 (Continued)

Company or Brand Name	Variety	Yield[1] South[2] 2016	South[2] 2-Year Average	North[3] 2016	North[3] 2-Year Average	Statewide 2016	Statewide 2-Year Average
		bu/acre					
Maturity Group V - continued							
Virginia Tech	V12-0074R2	59.2	.	63.2	.	61.2	.
Virginia Tech	V12-1048	55.8	.	59.7	.	57.7	.
Virginia Tech	V12-1376	60.1	.	55.8	.	57.9	.
Virginia Tech	V12-1416	61.7	.	60.2	.	60.9	.
Virginia Tech	V12-3684	54.0	.	59.0	.	56.5	.
Winfield	RX 5163	60.1	.	64.0	.	62.1	.
Average		61.7	68.3	60.2	56.2	60.9	62.3
LSD at 10% Level		4.0	2.6	5.5	3.8	3.4	2.3
Std. Err. of Entry Mean		1.7	1.1	2.4	1.6	1.5	1.0
Maturity Group VI							
Bayer	CZ 6060 RY	**64.3**	**66.2**	58.2	**58.0**	61.3	**62.1**
Bayer	CZ 6109 LL	**68.6**	**68.5**	45.8	47.8	57.2	58.2
Bayer	CZ 6316 LL	**63.2**	**63.5**	56.4	**57.2**	59.8	60.3
Dyna-Gro	S65RY73	**65.4**	**64.6**	60.1	**60.4**	62.8	**62.5**
Dyna-Gro	S67RY25	**69.0**	**66.5**	53.0	52.7	61.0	59.6
Dyna-Gro	S69XT57	**62.9**	.	53.6	.	58.2	.
Meherrin	SH 6215 LL	**60.8**	**60.3**	49.7	50.9	55.2	55.6
Meherrin	SH 6515 LL	**64.3**	**65.9**	60.0	**60.3**	62.1	**63.1**
Meherrin	SH 6815 LL	**62.9**	**62.7**	51.9	50.6	57.4	56.6
Monsanto	AG69X6 RR2 XTEND	**63.1**	.	49.6	.	56.3	.
NK	S67-B7	**70.4**	.	**66.5**	.	**68.5**	.
NK	S69-G9	**62.0**	.	57.1	.	59.5	.
Pioneer	P67T25R2	**67.4**	**64.8**	52.6	51.5	60.0	58.1
Public Variety	Musen	**62.4**	**60.5**	46.9	47.8	54.7	54.1
SS	LL 6314S	**62.8**	**63.3**	43.0	44.7	52.9	54.0
SS	SS 6917 X	**56.8**	.	54.3	.	55.6	.
TA Seeds	TS6569R2	**64.8**	**61.3**	40.0	44.2	52.4	52.7
UARK	UAX 59011C	**60.1**	.	49.4	.	54.7	.
UARK	UAX 59012C	**57.8**	.	56.1	.	56.9	.
UARK	UAX 59013C	**57.6**	.	53.9	.	55.8	.
UARK	UAX 59111C	**66.6**	.	56.2	.	61.4	.
UARK	UAX 59113GT	**65.9**	.	52.7	.	59.3	.
UARK	UAX 59313GT	**66.7**	.	52.0	.	59.4	.
USG	7607XT	**64.2**	.	52.3	.	58.2	.
USG	7686XT	**64.9**	.	51.3	.	58.1	.
USG	76S73R	**67.6**	.	52.0	.	59.8	.
Winfield	RX 6966	**61.8**	.	54.8	.	58.3	.
Average		63.9	64.0	52.9	52.2	58.4	58.1
LSD at 10% Level		N.S.[4]	N.S.	6.0	3.6	3.5	2.1
Std. Err. of Entry Mean		1.7	1.0	2.4	1.5	1.4	0.9

Regional Summary of MG V and MG VI Soybean Variety Performance, 2016 (Continued)

1. Yields calculated at 13% moisture.
2. Midville, Plains and Tifton.
3. Athens, Calhoun, and Griffin.
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).

Regional Summary of MG VII and MG VIII Soybean Variety Performance, 2016

Company or Brand Name	Variety	Yield[1] South[2] 2016	South[2] 2-Year Average	North[3] 2016	North[3] 2-Year Average	Statewide 2016	Statewide 2-Year Average
		bu/acre					
Maturity Groups VII and VIII							
AGSouth	AGS 738 RR	**56.7**	**65.1**	45.7	49.1	**53.0**	**57.5**
AGSouth	AGS 828 RR	**48.5**	56.6	46.8	48.7	47.9	51.5
AGSouth	AGS Woodruff	**43.5**	56.8	45.7	**54.5**	44.2	53.1
Bayer	CZ 7007 LL	**51.1**	57.8	43.1	48.1	48.4	52.9
Bayer	CZ 7132 LL	**48.1**	53.5	36.7	42.8	44.3	47.7
Dyna-Gro	S72RS36	**53.8**	**62.7**	**52.4**	**55.9**	**53.3**	**57.9**
Dyna-Gro	S75XT26	**54.3**	.	44.3	.	50.9	.
Meherrin	SH 6215 LL	**50.2**	.	38.0	.	46.1	.
Meherrin	SH 7116 LL	**48.5**	53.7	43.5	43.9	46.9	48.5
Monsanto	AG72X7 RR2 XTEND	**54.1**	.	42.4	.	50.2	.
Monsanto	AG75X6 RR2 XTEND	**48.2**	.	40.1	.	45.5	.
NK	S74-M3	**57.2**	**66.6**	**50.1**	**51.9**	**54.8**	**59.3**
Pioneer	P76T54R2	**57.7**	**65.6**	**51.7**	**52.1**	**55.7**	**58.9**
Public Variety	Cheraw	**43.8**	55.1	39.5	49.1	42.4	50.0
Public Variety	Cook	**48.3**	56.7	43.0	43.9	46.6	49.8
Public Variety	Motte	**48.5**	.	46.0	.	47.6	.
Public Variety	Paul	**49.4**	57.3	45.5	46.6	48.1	51.0
Public Variety	Santee	**54.9**	61.4	42.7	45.3	50.8	54.2
SC	SC07-108RR	**46.8**	54.6	38.5	45.7	44.0	49.8
SC	SC07-1490RR	**47.6**	57.4	38.9	46.9	44.7	51.6
SC	SC07-1518RR	**47.7**	58.1	44.7	50.2	46.7	52.8
SS	SS 7215NS R2	**54.5**	**62.6**	**50.5**	**54.3**	**53.1**	**57.9**
SS	SS 7516N X	**52.7**	.	**48.3**	.	51.2	.
TA Seeds	TS8059R2	**45.6**	56.0	38.9	44.2	43.4	49.7
UGA	G10PR-56444R2	**55.4**	**63.2**	**51.9**	**51.6**	**54.2**	**57.0**
UGA	G11-2663R2	**51.8**	.	**47.3**	.	50.3	.
UGA	G11PR-56151R2	**49.0**	59.2	39.1	49.6	45.7	53.5
UGA	G11PR-56238R2	**57.5**	64.6	45.7	46.8	53.5	56.5
UGA	G12-1784R2	**55.0**	.	45.9	.	52.0	.
UGA	G12-2103R2	**48.0**	.	**47.2**	.	47.7	.
UGA	G12-2259R2	**52.1**	.	**49.2**	.	51.1	.
UGA	G12-2731R2	**52.0**	.	45.2	.	49.7	.
UGA	G12-3107R2	**51.3**	.	44.1	.	48.9	.
UGA	G12-6515	**45.9**	.	43.3	.	45.1	.
UGA	G12-6543	**48.3**	.	44.6	.	47.1	.
UGA	G13LL-44	**55.4**	**63.8**	46.0	**52.8**	**52.2**	**58.0**
UGA	G13LL-7	**55.0**	**64.8**	45.5	**51.7**	51.8	**57.3**
USG	7756XT	**52.8**	.	42.4	.	49.3	.
USG	77J25RS	**54.7**	**63.4**	**47.6**	51.5	**52.4**	**57.0**
Average		51.2	59.9	44.7	49.1	49.0	53.9
LSD at 10% Level		N.S.[4]	4.7	5.4	4.5	3.5	2.6
Std. Err. of Entry Mean		3.3	1.8	2.3	1.9	1.5	1.1

Regional Summary of MG VII and MG VIII Soybean Variety Performance, 2016 (Continued)

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, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
Dyna-Gro	39RY57	**82.9**	1	**83.0**	10/02	29	1.7	17.4	1.5	1
Pioneer	P54T94R	**75.9**	6	68.3	09/26	27	1.3	13.7	1.7	1
Bayer	CZ 5515 LL	**73.0**	9	66.9	09/29	49	3.0	15.6	1.5	1
SS	SS 5615N R2	**71.7**	14	65.7	09/29	25	1.0	14.7	1.7	1
Public Variety	Osage	**71.0**	16	64.7	09/24	25	1.3	13.4	1.7	1
Terral Seed	REV®56R63™ Brand	**70.6**	11	66.6	09/27	33	2.0	15.1	1.5	1
Pioneer	P56T12SR	**70.3**	18	64.0	09/27	25	1.0	14.8	1.5	1
SS	LL 5914NS	**69.9**	19	63.9	10/01	30	1.0	13.9	1.5	1
AGSouth	AGS 568RR	**69.5**	33	60.7	09/26	28	1.0	14.0	1.5	1
UARK	R10-197RY	**68.9**	12	66.5	09/27	27	1.0	15.1	1.5	1
UARK	UA 5414RR	**68.7**	29	61.4	09/27	28	1.7	12.7	1.5	1
UARK	UA 5814HP	**68.6**	10	66.7	10/01	30	2.0	16.4	1.5	1
Dyna-Gro	S56RY84	**68.6**	42	54.3	09/24	30	3.0	11.8	1.5	1
UARK	UA 5612	**68.4**	17	64.4	09/29	29	2.0	12.1	1.5	1
USDA-ARS	JTN-5110	**67.7**	36	58.7	09/23	27	1.7	14.8	1.7	1
Terral Seed	REV®57R21™ Brand	**67.5**	28	61.6	09/27	35	2.3	13.6	2.0	1
NK	S58-Z4	**65.8**	38	57.2	10/05	30	1.3	14.1	1.5	1
Monsanto	AG59X7 RR2 XTEND	.	2	73.9	10/07	31	1.0	13.7	1.5	1
Bayer	CZ 5445 LL	.	3	70.6	09/29	28	1.3	13.3	1.7	1
Bayer	CZ 5225 LL	.	4	69.2	09/25	23	1.7	14.3	1.5	1
Monsanto	AG55X7 RR2 XTEND	.	5	68.9	09/22	27	1.3	13.5	1.8	1
SS	SS 5517N X	.	7[T]	67.6	09/28	30	1.3	13.9	2.0	1
Monsanto	AG54X6 RR2 XTEND	.	7[T]	67.6	10/05	43	2.0	15.4	1.7	1
Meherrin	SH 5915 LL	.	8	67.2	09/29	30	2.0	14.7	1.5	1
NK	S59-A5	.	13	66.0	10/04	31	1.3	11.2	1.5	1
UARK	UAX 51010C	.	15	65.6	09/23	25	1.3	15.0	1.5	1
Monsanto	AG53X6 RR2 XTEND	.	20	63.5	09/21	29	1.7	15.7	2.2	1
Pioneer	P55T81R	.	21	63.4	09/26	30	1.3	13.4	1.5	1
Bayer	CZ 5375 RY	.	22	63.1	09/25	25	1.0	13.2	1.5	1
Bayer	CZ 5147 LL	.	23	62.7	09/24	24	1.0	13.7	1.5	1
Virginia Tech	V12-0074R2	.	24	62.5	09/24	25	1.0	15.5	1.7	1
Virginia Tech	V12-1416	.	25	62.3	10/03	25	1.0	15.3	1.5	1
UARK	R07-6614RR	.	26	62.2	09/29	31	1.0	14.4	1.7	1
Virginia Tech	V12-0063R2	.	27	61.8	09/26	25	1.3	16.8	1.5	1
Meherrin	SH 5215 LL	.	30	61.2	09/17	36	2.0	11.9	1.5	1
Bayer	CZ 5242 LL	.	31	61.0	09/27	39	3.0	12.4	2.0	1
Winfield	RX 5163	.	32	60.8	09/21	35	3.0	13.1	2.2	1
AGSouth	AGS 537LL	.	34	60.1	09/21	37	2.3	12.6	1.8	1
Virginia Tech	V12-1376	.	35	59.6	09/26	26	1.0	15.0	1.5	1
Virginia Tech	V12-1048	.	37	58.2	09/24	23	1.0	16.6	1.5	1

Tifton, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V - continued										
Bayer	CZ 4818 LL	.	39	56.8	09/22	37	2.7	14.4	1.8	1
UARK	R10-230	.	40	55.7	09/25	23	1.3	13.5	1.5	1
NK	S56-M8	.	41	54.8	10/03	29	1.0	13.4	1.5	1
USG	75B75R	.	43	53.8	09/24	26	1.3	13.8	1.5	1
SS	SS 5917NS X	.	44	50.7	10/10	33	1.0	12.1	1.7	1
Virginia Tech	V12-3684	.	45	48.0	09/18	22	1.0	14	1.5	1
Average		70.5		62.9[5]	09/27	30	1.6	14.1	1.6	1
LSD @ 10% level		N.S.[6]		8.0	-	3	0.6	1.1	0.3	-
Std. Err. Of Entry Mean		1.9		3.4	-	1	0.3	0.4	0.1	-
Maturity Group VI										
Meherrin	SH 6515 LL	**69.7**	13	**62.8**	10/07	25	1.0	14.9	1.5	1
Bayer	CZ 6109 LL	**68.8**	1	**69.2**	10/06	30	1.0	16.7	1.5	1
Bayer	CZ 6316 LL	**67.4**	11	**63.2**	10/08	26	1.0	13.6	1.5	1
Meherrin	SH 6815 LL	**67.4**	17	59.5	10/11	29	1.3	13.9	1.5	1
Dyna-Gro	S67RY25	**66.8**	2	**67.4**	10/09	29	1.3	14.5	1.5	1
Bayer	CZ 6060 RY	**66.7**	9	**63.8**	09/27	22	1.0	16.0	1.5	1
Pioneer	P67T25R2	**65.2**	4	**65.8**	10/10	32	1.3	14.3	1.7	1
Public Variety	Musen	**63.8**	7	**64.6**	10/12	39	2.0	13.3	1.8	1
Dyna-Gro	S65RY73	**63.5**	8	**64.3**	10/09	25	1.3	12.5	1.5	1
SS	LL 6314S	**62.1**	21	55.1	10/11	35	1.0	12.6	1.7	1
Meherrin	SH 6215 LL	**59.6**	22	53.7	10/13	34	1.0	12.5	1.8	1
TA Seeds	TS6569R2	**53.6**	6	**65.1**	10/05	29	1.7	15.4	1.5	1
UARK	UAX 59113GT	.	3	**66.6**	10/05	30	1.0	15.5	1.7	1
UARK	UAX 59313GT	.	5	**65.4**	10/01	33	2.0	12.8	1.5	1
USG	76S73R	.	10	**63.3**	10/10	29	1.3	15.1	1.5	1
UARK	UAX 59111C	.	12	**63.0**	10/02	27	2.0	14.2	1.5	1
NK	S69-G9	.	14	**61.5**	10/09	31	1.7	13.1	1.5	1
USG	7607XT	.	15	**60.7**	10/09	30	1.0	17.1	1.5	1
Dyna-Gro	S69XT57	.	16	59.7	10/10	25	1.0	13.4	1.5	1
NK	S67-B7	.	18[T]	58.4	10/04	27	1.0	14.8	1.5	1
USG	7686XT	.	18[T]	58.4	10/12	29	1.0	12.9	1.5	1
SS	SS 6917 X	.	19	56.8	10/11	27	1.0	13.3	1.7	1
Monsanto	AG69X6 RR2 XTEND	.	20	55.9	10/12	30	1.0	13.1	1.8	1
UARK	UAX 59011C	.	23	50.0	10/11	27	1.3	12.6	1.5	1
Winfield	RX 6966	.	24	49.8	10/11	25	1.0	12.7	1.5	1
UARK	UAX 59012C	.	25	49.5	09/25	25	1.3	13.2	1.5	1
UARK	UAX 59013C	.	26	47.8	09/25	25	2.0	11.3	1.3	1
Average		64.5		60.1[7]	10/07	29	1.3	13.9	1.6	1.0
LSD @ 10% Level		N.S.		9.3	-	3	0.5	0.8	0.2	-
Std. Err. Of Entry Mean		2.3		3.9	-	1	0.2	0.4	0.1	-

Tifton, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
				bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
UGA	G13LL-7	**74.7**	3	**64.1**	10/15	35	3.0	14.3	1.7	1.0
SS	SS 7215NS R2	**71.3**	5	**63.8**	10/14	31	1.3	14.6	1.5	1.0
NK	S74-M3	**70.1**	9[T]	60.7	10/14	30	1.0	14.4	1.7	1.0
UGA	G11PR-56238R2	**69.7**	2[T]	**64.6**	10/16	34	1.3	13.4	1.5	1.0
USG	77J25RS	**69.1**	2[T]	**64.6**	10/13	32	1.7	15.2	1.7	1.0
AGSouth	AGS 738 RR	**68.8**	15	57.7	10/11	27	1.0	12.4	1.5	1.0
Dyna-Gro	S72RS36	**68.6**	9[T]	60.7	10/12	31	1.7	14.2	1.5	1.0
UGA	G10PR-56444R2	**67.9**	4	**64.0**	10/15	35	1.3	13.5	1.8	1.0
SC	SC07-1518RR	**67.2**	11	60.0	10/19	33	2.0	13.0	1.3	1.0
Pioneer	P76T54R2	**66.4**	6	**62.9**	10/16	31	1.0	12.1	1.7	1.0
UGA	G11PR-56151R2	65.7	12	59.0	10/15	32	1.0	12.8	1.5	1.0
Public Variety	Santee	65.6	13	58.9	10/14	37	2.0	13.7	1.7	1.0
Public Variety	Cook	64.2	19[T]	55.6	10/14	32	1.7	14.4	1.8	1.0
Public Variety	Cheraw	64.1	17	56.6	10/16	32	1.0	12.7	1.7	1.0
UGA	G13LL-44	62.5	23[T]	51.6	10/11	29	1.0	13.3	1.5	1.0
AGSouth	AGS 828 RR	61.8	22	52.9	10/16	31	2.0	11.7	1.5	1.0
SC	SC07-1490RR	60.8	31	46.8	10/17	32	1.0	12.8	1.8	1.0
TA Seeds	TS8059R2	60.6	30	46.9	10/18	34	1.0	13.0	1.7	1.0
AGSouth	AGS Woodruff	60.0	34	41.6	10/14	25	1.3	12.3	1.5	1.0
Bayer	CZ 7007 LL	58.9	20[T]	53.4	10/12	31	1.3	13.4	1.5	1.0
SC	SC07-108RR	58.6	24	51.3	10/16	33	1.3	13.3	1.5	1.0
Public Variety	Paul	57.4	29	47.0	10/17	31	1.0	10.5	1.5	1.0
Bayer	CZ 7132 LL	55.0	27	49.3	10/15	51	2.3	14.8	2.2	1.0
Meherrin	SH 7116 LL	53.7	26	49.6	10/10	28	1.7	11.5	1.7	1.0
UGA	G12-1784R2	.	1	**67.6**	10/13	29	1.0	13.9	1.7	1.0
USG	7756XT	.	7	**62.1**	10/16	33	1.0	13.6	1.7	1.0
Monsanto	AG72X7 RR2 XTEND	.	8	**61.3**	10/14	29	1.0	12.9	1.5	1.0
Dyna-Gro	S75XT26	.	10	60.4	10/15	33	1.0	13.6	1.5	1.0
SS	SS 7516N X	.	14	58.0	10/14	29	1.0	13.6	1.5	1.0
UGA	G12-2103R2	.	16	56.7	10/14	32	1.0	13.6	1.8	1.0
UGA	G12-2731R2	.	18	56.5	10/15	30	1.3	11.0	1.5	1.0
UGA	G11-2663R2	.	19[T]	55.6	10/15	29	1.0	13.3	1.5	1.0
UGA	G12-2259R2	.	20[T]	53.4	10/16	31	1.0	12.6	1.7	1.0
Meherrin	SH 6215 LL	.	21	53.0	10/14	31	1.0	12.8	1.5	1.0
UGA	G12-3107R2	.	23	51.6	10/16	30	1.0	10.9	1.5	1.0
UGA	G12-6515	.	25	50.5	10/14	31	1.0	11.0	1.5	1.0
UGA	G12-6543	.	28	48.0	10/12	30	1.3	11.7	1.7	1.0
Monsanto	AG75X6 RR2 XTEND	.	32	46.3	10/13	31	1.0	10.9	1.5	1.0
Public Variety	Motte	.	33	44.5	10/14	34	2.0	11.9	1.5	1.0
Average		64.3		55.6[8]	10/14	32	1.3	12.9	1.6	1.0
LSD @ 10% Level		8.7		6.6	-	2	0.6	0.8	N.S.	-
Std. Err. Of Entry Mean		2.4		2.8	-	1	0.2	0.3	0.1	-

Tifton, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 9.4% and df for EMS = 90.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 11.3% and df for EMS = 52.
8. CV = 8.8% and df for EMS = 80.

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, 2016.
Harvested:	Maturity Group V - October 10, 2016. Maturity Groups VI and VII & VIII - October 12, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Tifton loamy sand
Soil Test:	P = Medium, K = Medium, and pH = 6.4.
Fertilization:	0 lb N, 70 lb P_2O_5, and 130 lb K_2O/acre.
Previous Crop:	Cotton.
Management:	Disked, subsoiled/bedded, and rototilled; Dual Magnum, Warrant, Classic, Reflex, and Ultra Blazer used for weed control; Bifenthrin, Belt, and Lorsban used for insect control; Telone II used for nematode control; Domark used for disease control; irrigated 12 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Plains, Georgia:
Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
Dyna-Gro	S56RY84	**70.1**	9	**61.9**	10/01	33	1.3	.	.	.
Terral Seed	REV®56R63™ Brand	**69.9**	5[T]	**63.1**	10/03	37	1.3	.	.	.
SS	SS 5615N R2	**69.6**	3	**64.6**	09/29	32	1.0	.	.	.
NK	S58-Z4	**69.0**	12	**60.0**	10/06	31	1.0	.	.	.
Pioneer	P56T12SR	**68.9**	14	**59.7**	09/30	28	1.0	.	.	.
SS	LL 5914NS	**68.6**	7[T]	**62.3**	09/30	34	1.0	.	.	.
Dyna-Gro	39RY57	**68.1**	21	57.6	10/01	30	1.0	.	.	.
UARK	UA 5814HP	**66.7**	26	56.1	10/05	32	1.0	.	.	.
UARK	UA 5612	**65.5**	6	**62.7**	10/01	32	1.0	.	.	.
USDA-ARS	JTN-5110	**63.5**	24	56.9	09/28	32	1.0	.	.	.
Terral Seed	REV®57R21™ Brand	**63.4**	27	55.4	10/05	41	1.3	.	.	.
AGSouth	AGS 568RR	**63.0**	37	51.4	10/02	30	1.0	.	.	.
Pioneer	P54T94R	**62.5**	29	55.1	09/29	27	1.0	.	.	.
Bayer	CZ 5515 LL	**62.3**	25	56.5	10/01	44	1.7	.	.	.
Public Variety	Osage	**62.0**	20	58.3	09/29	27	1.0	.	.	.
UARK	R10-197RY	**61.7**	16[T]	**59.3**	09/30	31	1.3	.	.	.
UARK	UA 5414RR	**58.3**	16[T]	**59.3**	09/29	31	1.3	.	.	.
UARK	UAX 51010C	.	1	**66.1**	09/29	31	1.0	.	.	.
Meherrin	SH 5915 LL	.	2[T]	**65.5**	09/26	35	1.3	.	.	.
AGSouth	AGS 537LL	.	2[T]	**65.5**	09/24	36	1.0	.	.	.
NK	S56-M8	.	4	**64.0**	10/04	29	1.0	.	.	.
USG	75B75R	.	5[T]	**63.1**	10/02	34	1.0	.	.	.
Meherrin	SH 5215 LL	.	7[T]	**62.3**	09/27	35	1.0	.	.	.
UARK	R10-230	.	8	**62.1**	10/02	31	1.0	.	.	.
Bayer	CZ 5375 RY	.	10	**61.0**	10/03	27	1.0	.	.	.
Monsanto	AG53X6 RR2 XTEND	.	11	**60.6**	09/25	29	1.0	.	.	.
Winfield	RX 5163	.	13	**59.9**	09/26	35	1.7	.	.	.
Bayer	CZ 5242 LL	.	15	**59.4**	09/29	35	1.3	.	.	.
Monsanto	AG59X7 RR2 XTEND	.	17	**58.7**	10/08	29	1.0	.	.	.
UARK	R07-6614RR	.	18	58.5	10/05	36	1.0	.	.	.
NK	S59-A5	.	19	58.4	10/05	32	1.0	.	.	.
Bayer	CZ 5147 LL	.	22	57.5	09/27	25	1.0	.	.	.
Pioneer	P55T81R	.	23	57.3	09/29	35	1.0	.	.	.
Virginia Tech	V12-1376	.	28	55.2	10/04	25	1.0	.	.	.
Monsanto	AG54X6 RR2 XTEND	.	30	54.4	10/05	39	1.3	.	.	.
Bayer	CZ 4818 LL	.	31	53.9	09/24	35	1.0	.	.	.
Bayer	CZ 5225 LL	.	32	53.8	10/01	26	1.0	.	.	.
Monsanto	AG55X7 RR2 XTEND	.	33	53.6	09/29	24	1.0	.	.	.
SS	SS 5517N X	.	34	53.4	09/30	29	1.0	.	.	.
Virginia Tech	V12-0074R2	.	35	53.0	10/04	26	1.3	.	.	.

Plains, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V - continued										
Virginia Tech	V12-3684	.	36	52.2	09/26	26	1.0	.	.	.
Bayer	CZ 5445 LL	.	38	51.3	09/30	29	1.0	.	.	.
Virginia Tech	V12-1416	.	39	51.0	10/02	27	1.0	.	.	.
Virginia Tech	V12-1048	.	40	50.3	09/30	25	1.0	.	.	.
Virginia Tech	V12-0063R2	.	41	47.9	09/29	23	1.0	.	.	.
SS	SS 5917NS X	.	42	47.4	10/11	33	1.0	.	.	.
Average		65.5		57.8[5]	09/30	31	1.1	.	.	.
LSD at 10% Level		N.S.[6]		7.4	.	2.6	0.4	.	.	.
Std. Err. of Entry Mean		2.4		3.1	.	1.1	0.2	.	.	.
Maturity Group VI										
Bayer	CZ 6060 RY	**72.5**	3	60.6	10/05	29	1.0	.	.	.
TA Seeds	TS6569R2	**69.6**	4	60.0	10/05	33	1.0	.	.	.
Dyna-Gro	S65RY73	**68.3**	9	55.8	10/09	33	1.0	.	.	.
Dyna-Gro	S67RY25	**68.1**	10	55.7	10/08	31	1.0	.	.	.
Bayer	CZ 6109 LL	**67.5**	6	59.4	10/07	34	1.0	.	.	.
Pioneer	P67T25R2	**67.4**	21	50.2	10/11	33	1.0	.	.	.
Meherrin	SH 6215 LL	64.9	18[T]	51.4	10/12	41	1.0	.	.	.
Public Variety	Musen	64.8	19	50.9	10/12	44	1.7	.	.	.
Meherrin	SH 6515 LL	64.4	16	52.5	10/07	29	1.0	.	.	.
SS	LL 6314S	63.3	18[T]	51.4	10/11	37	1.0	.	.	.
Bayer	CZ 6316 LL	63.1	22	50.1	10/09	30	1.0	.	.	.
Meherrin	SH 6815 LL	62.3	23	50.0	10/08	32	1.0	.	.	.
NK	S67-B7	.	1	**70.9**	10/07	32	1.0	.	.	.
UARK	UAX 59111C	.	2	**66.4**	10/05	36	1.0	.	.	.
UARK	UAX 59113GT	.	5	59.7	10/05	39	1.0	.	.	.
UARK	UAX 59313GT	.	7	58.9	10/05	39	1.0	.	.	.
USG	7607XT	.	8[T]	56.5	10/10	35	1.0	.	.	.
UARK	UAX 59013C	.	8[T]	56.5	10/01	31	1.0	.	.	.
USG	7686XT	.	11	55.3	10/11	35	1.0	.	.	.
USG	76S73R	.	12	54.6	10/08	31	1.0	.	.	.
UARK	UAX 59011C	.	13	54.3	10/09	32	1.0	.	.	.
Winfield	RX 6966	.	14	53.5	10/12	31	1.0	.	.	.
Dyna-Gro	S69XT57	.	15	53.4	10/12	31	1.0	.	.	.
NK	S69-G9	.	17	52.3	10/11	37	1.0	.	.	.
Monsanto	AG69X6 RR2 XTEND	.	20[T]	50.6	10/10	33	1.0	.	.	.
UARK	UAX 59012C	.	20[T]	50.6	09/30	29	1.0	.	.	.
SS	SS 6917 X	.	24	44.9	10/12	29	1.0	.	.	.
Average		66.4		55.0[7]	10/08	34	1	.	.	.
LSD at 10% Level		5.6		4.5	.	2	N.S.	.	.	.
Std. Err. of Entry Mean		1.4		1.9	.	1	0.1	.	.	.

Plains, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
				bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
AGSouth	AGS 738 RR	**72.7**	1	**61.3**	10/07	34	1.0	.	.	.
UGA	G13LL-44	**70.3**	3	**55.6**	10/12	34	1.0	.	.	.
NK	S74-M3	**70.1**	6	52.3	10/12	33	1.0	.	.	.
Pioneer	P76T54R2	**68.6**	15	47.7	10/12	35	1.0	.	.	.
Public Variety	Paul	**68.5**	7	52.1	10/15	32	1.3	.	.	.
UGA	G11PR-56238R2	**68.1**	5	**52.8**	10/12	35	1.0	.	.	.
UGA	G13LL-7	**67.7**	9	49.6	10/12	33	1.0	.	.	.
UGA	G10PR-56444R2	**67.5**	10	49.3	10/13	38	1.7	.	.	.
Public Variety	Santee	**66.9**	4	**54.6**	10/10	42	1.0	.	.	.
Dyna-Gro	S72RS36	**66.5**	8[T]	50.3	10/11	33	1.0	.	.	.
USG	77J25RS	**65.4**	11	48.8	10/13	31	1.3	.	.	.
Bayer	CZ 7132 LL	64.8	2	**56.1**	10/08	49	2.0	.	.	.
SS	SS 7215NS R2	63.7	19	45.4	10/12	31	1.0	.	.	.
AGSouth	AGS 828 RR	62.3	22[T]	44.8	10/15	36	1.0	.	.	.
Meherrin	SH 7116 LL	61.8	14	48.0	10/08	28	1.3	.	.	.
Bayer	CZ 7007 LL	61.4	18	45.6	10/09	35	1.0	.	.	.
SC	SC07-1490RR	61.3	17	46.2	10/14	44	1.0	.	.	.
UGA	G11PR-56151R2	61.3	25[T]	44.0	10/12	37	1.0	.	.	.
AGSouth	AGS Woodruff	59.5	33	38.4	10/14	31	1.0	.	.	.
SC	SC07-108RR	59.3	31	39.0	10/13	43	1.0	.	.	.
Public Variety	Cook	58.9	21	45.0	10/13	39	1.3	.	.	.
Public Variety	Cheraw	57.9	35	37.4	10/15	33	1.0	.	.	.
TA Seeds	TS8059R2	56.8	34	37.6	10/14	40	1.0	.	.	.
SC	SC07-1518RR	55.8	36	34.8	10/15	41	1.3	.	.	.
UGA	G12-3107R2	.	8[T]	50.3	10/15	36	1.0	.	.	.
UGA	G12-1784R2	.	12	48.7	10/14	30	1.0	.	.	.
SS	SS 7516N X	.	13	48.2	10/13	37	1.0	.	.	.
Monsanto	AG75X6 RR2 XTEND	.	16	47.4	10/13	35	1.0	.	.	.
Dyna-Gro	S75XT26	.	20	45.3	10/14	38	1.7	.	.	.
Public Variety	Motte	.	22[T]	44.8	10/14	43	1.3	.	.	.
UGA	G12-2103R2	.	23	44.8	10/15	33	1.0	.	.	.
UGA	G12-6543	.	24	44.3	10/13	35	1.0	.	.	.
UGA	G11-2663R2	.	25[T]	44.0	10/13	33	1.0	.	.	.
Monsanto	AG72X7 RR2 XTEND	.	26	43.8	10/13	35	1.0	.	.	.
Meherrin	SH 6215 LL	.	27	43.3	10/12	35	1.0	.	.	.
UGA	G12-2731R2	.	28	43.2	10/12	33	1.0	.	.	.
UGA	G12-2259R2	.	29	42.6	10/16	33	1.0	.	.	.
USG	7756XT	.	30	40.6	10/13	36	1.0	.	.	.
UGA	G12-6515	.	32	38.9	10/13	34	1.3	.	.	.
Average		64.0		46.3[8]	10/12	36	1.1	.	.	.
LSD at 10% Level		7.8		8.9	.	2	0.4	.	.	.
Std. Err. of Entry Mean		2.3		3.8	.	1	0.2	.	.	.

Plains, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 9.4% and df for EMS = 90.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 6.0% and df for EMS = 52.
8. CV = 14.1% and df for EMS = 78.

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

Planted:	Mary 31, 2016.
Harvested:	Maturity Group V and VI - October 13, 2016. Maturity Group VII & VIII - October 19, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Greenville sandy loam.
Soil Test:	P = Medium, K = High, and pH = 6.2.
Fertilization:	18 lb N, 46 lb P_2O_5, and 60 lb K_2O/acre.
Previous Crop:	Cotton.
Management:	Disked, subsoiled, and rototilled; Prowl, Valor, and Ultra Blazer used for weed control; Indigo, Dimlin, and Bifinthrin used for insect control; Domark used for disease control; irrigated 10.7 inches.

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, and G. South.

Plains, Georgia:
Late-Planted Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
UGA	G11PR-56238R2	**58.0**	5[T]	**38.3**	10/18	26	1.0	.	.	.
UGA	G10PR-56444R2	**56.7**	11	**35.3**	10/20	29	1.0	.	.	.
NK	S74-M3	**55.7**	7	**37.4**	10/20	26	1.0	.	.	.
AGSouth	AGS 738 RR	**55.7**	8	**37.3**	10/14	26	1.0	.	.	.
USG	77J25RS	**55.4**	12	**34.8**	10/15	25	1.0	.	.	.
Public Variety	Santee	**54.0**	1	**39.3**	10/16	32	1.0	.	.	.
SS	SS 7215NS R2	**54.0**	4	**38.6**	10/16	24	1.0	.	.	.
UGA	G13LL-44	**53.9**	6	**37.5**	10/18	27	1.0	.	.	.
SC	SC07-108RR	**53.6**	17	**31.8**	10/19	32	1.0	.	.	.
Bayer	CZ 7007 LL	**52.7**	5[T]	**38.3**	10/13	28	1.0	.	.	.
UGA	G11PR-56151R2	**52.7**	23	28.9	10/15	26	1.0	.	.	.
Pioneer	P76T54R2	**52.2**	2	**39.1**	10/16	28	1.0	.	.	.
Dyna-Gro	S72RS36	**51.9**	15[T]	**32.1**	10/15	25	1.0	.	.	.
Public Variety	Paul	48.8	32	24.5	10/16	21	1.0	.	.	.
AGSouth	AGS 828 RR	48.6	26	27.1	10/18	25	1.0	.	.	.
SC	SC07-1490RR	48.2	20	29.8	10/20	31	1.0	.	.	.
TA Seeds	TS8059R2	48.2	24	28.0	10/23	27	1.0	.	.	.
AGSouth	AGS Woodruff	47.8	35	22.1	10/17	21	1.0	.	.	.
UGA	G13LL-7	46.8	25	27.3	10/15	26	1.0	.	.	.
Meherrin	SH 7116 LL	45.1	21	29.7	10/15	21	1.0	.	.	.
SC	SC07-1518RR	44.2	29	26.7	10/22	31	1.0	.	.	.
Bayer	CZ 7132 LL	43.7	28	26.9	10/14	33	1.0	.	.	.
Public Variety	Cook	42.3	33	24.4	10/19	27	1.0	.	.	.
Public Variety	Cheraw	41.3	36	18.1	10/16	23	1.0	.	.	.
Dyna-Gro	S75XT26	.	3[T]	**38.8**	10/21	30	1.0	.	.	.
UGA	G12-2731R2	.	3[T]	**38.8**	10/21	24	1.0	.	.	.
Monsanto	AG72X7 RR2 XTEND	.	9	**37.0**	10/19	27	1.0	.	.	.
UGA	G12-2259R2	.	10	**36.5**	10/24	27	1.0	.	.	.
Public Variety	Motte	.	13	**34.2**	10/16	29	1.0	.	.	.
UGA	G11-2663R2	.	14	**32.8**	10/16	25	1.0	.	.	.
UGA	G12-3107R2	.	15[T]	**32.1**	10/18	25	1.0	.	.	.
USG	7756XT	.	16	**32.0**	10/17	27	1.0	.	.	.
UGA	G12-1784R2	.	18	31.0	10/16	23	1.0	.	.	.
Meherrin	SH 6215 LL	.	19	30.2	10/16	25	1.0	.	.	.
SS	SS 7516N X	.	22	29.3	10/16	26	1.0	.	.	.
Monsanto	AG75X6 RR2 XTEND	.	27	27.0	10/19	24	1.0	.	.	.
UGA	G12-6543	.	30	26.6	10/20	25	1.0	.	.	.
UGA	G12-6515	.	31	25.5	10/17	25	1.0	.	.	.
UGA	G12-2103R2	.	34	22.2	10/16	25	1.0	.	.	.
Average		50.5		31.5[5]	10/17	26	1.0	.	.	.
LSD at 10% Level		8.0		8.3	.	3	.	.	.	.
Std. Err. of Entry Mean		2.2		3.5	.	1	.	.	.	.

Plains, Georgia:
Late-Planted Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 19.6% and df for EMS = 78.

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

Planted:	July 1, 2016.
Harvested:	November 1, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Greenville sandy loam.
Soil Test:	P = Medium, K = High, and pH = 6.2.
Fertilization:	18 lb N, 46 lb P_2O_5, and 60 lb K_2O/acre.
Previous Crop:	Cotton.
Management:	Disked, subsoiled, and rototilled; Prowl, Valor, and Ultra Blazer used for weed control; Indigo, Dimlin, and Bifinthrin used for insect control; Domark used for disease control; irrigated 10.7 inches.

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, and G. South.

Midville, Georgia:
Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
NK	S58-Z4	**76.5**	2	**70.7**	10/10	39	3.0	.	.	.
Pioneer	P54T94R	**72.9**	21	65.3	10/01	35	1.0	.	.	.
AGSouth	AGS 568RR	**72.7**	3	**69.5**	10/04	43	2.7	.	.	.
Dyna-Gro	39RY57	**72.0**	8	**67.8**	10/05	38	2.0	.	.	.
Pioneer	P56T12SR	69.8	27	63.6	10/02	35	2.0	.	.	.
SS	SS 5615N R2	69.6	23	64.5	10/03	39	1.3	.	.	.
Dyna-Gro	S56RY84	69.2	10[T]	**67.5**	10/04	42	2.7	.	.	.
UARK	UA 5814HP	68.7	18[T]	65.7	10/08	39	3.3	.	.	.
UARK	R10-197RY	68.1	20	65.4	10/02	38	2.3	.	.	.
UARK	UA 5612	67.5	13	**66.8**	10/03	41	3.7	.	.	.
USDA-ARS	JTN-5110	67.4	25	64.3	10/02	35	1.3	.	.	.
UARK	UA 5414RR	67.3	12	**67.0**	10/03	41	3.7	.	.	.
Terral Seed	REV®56R63™ Brand	67.0	15	**66.4**	10/05	45	2.3	.	.	.
SS	LL 5914NS	66.4	22[T]	65.2	10/03	41	2.7	.	.	.
Terral Seed	REV®57R21™ Brand	66.4	26	63.7	10/03	39	2.7	.	.	.
Public Variety	Osage	66.1	30	62.5	10/03	31	1.0	.	.	.
Bayer	CZ 5515 LL	64.2	35	60.9	10/05	48	4.3	.	.	.
Virginia Tech	V12-1416	.	1	**71.7**	10/05	39	1.0	.	.	.
Pioneer	P55T81R	.	4	**68.9**	10/05	43	1.0	.	.	.
UARK	R07-6614RR	.	5	**68.3**	10/09	42	1.7	.	.	.
NK	S56-M8	.	6	**68.1**	10/06	39	1.3	.	.	.
Bayer	CZ 5147 LL	.	7	**68.0**	10/02	33	1.0	.	.	.
Bayer	CZ 5445 LL	.	9[T]	**67.7**	10/02	35	2.3	.	.	.
UARK	R10-230	.	9[T]	**67.7**	10/04	41	3.0	.	.	.
NK	S59-A5	.	10[T]	**67.5**	10/07	40	1.7	.	.	.
Monsanto	AG59X7 RR2 XTEND	.	11	**67.3**	10/12	33	1.0	.	.	.
USG	75B75R	.	14	**66.7**	10/02	40	1.0	.	.	.
Meherrin	SH 5215 LL	.	16	66.3	09/29	38	1.0	.	.	.
AGSouth	AGS 537LL	.	17	65.9	09/29	37	1.0	.	.	.
Virginia Tech	V12-1376	.	18[T]	65.7	10/06	34	1.0	.	.	.
Virginia Tech	V12-0063R2	.	19	65.5	10/03	35	1.3	.	.	.
Bayer	CZ 5375 RY	.	22[T]	65.2	10/05	35	1.7	.	.	.
Meherrin	SH 5915 LL	.	24	64.4	10/05	39	2.3	.	.	.
Bayer	CZ 5225 LL	.	28	63.0	10/03	33	1.7	.	.	.
Bayer	CZ 5242 LL	.	29	62.9	10/03	37	1.0	.	.	.
Virginia Tech	V12-0074R2	.	31	62.0	10/04	36	1.7	.	.	.
Virginia Tech	V12-3684	.	32	61.9	09/27	30	1.0	.	.	.
Monsanto	AG53X6 RR2 XTEND	.	33	61.6	09/30	35	1.0	.	.	.
UARK	UAX 51010C	.	34	61.2	09/28	39	1.7	.	.	.
SS	SS 5917NS X	.	36	60.0	10/12	39	1.3	.	.	.

Midville, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V - continued										
Winfield	RX 5163	.	37[T]	59.7	09/27	39	1.7	.	.	.
SS	SS 5517N X	.	37[T]	59.7	10/01	37	1.3	.	.	.
Virginia Tech	V12-1048	.	38	58.8	09/25	36	1.3	.	.	.
Monsanto	AG54X6 RR2 XTEND	.	39	58.4	10/07	43	1.0	.	.	.
Bayer	CZ 4818 LL	.	40	53.2	09/25	43	2.7	.	.	.
Monsanto	AG55X7 RR2 XTEND	.	41	52.0	10/02	29	1.0	.	.	.
Average		68.9		64.5[5]	10/03	38	1.8	.	.	.
LSD @ 10%		5.1		5.3	-	2	0.7	.	.	.
Std Err of Entry Mean		1.5		2.3	-	1	0.3	.	.	.
Maturity Group VI										
Pioneer	P67T25R2	**79.1**	1	**86.3**	10/17	43	1.7	.	.	.
Bayer	CZ 6109 LL	**77.4**	10[T]	77.4	10/09	39	1.3	.	.	.
Dyna-Gro	S67RY25	**77.1**	3	**83.7**	10/16	40	1.3	.	.	.
SS	LL 6314S	**76.2**	7	**81.9**	10/18	44	2.7	.	.	.
Meherrin	SH 6515 LL	**75.6**	10[T]	77.4	10/14	39	1.0	.	.	.
Dyna-Gro	S65RY73	**74.5**	13	76.2	10/15	40	2.3	.	.	.
Bayer	CZ 6316 LL	**73.0**	12	76.4	10/16	39	1.3	.	.	.
Bayer	CZ 6060 RY	**71.2**	25	68.6	10/12	32	1.3	.	.	.
Meherrin	SH 6815 LL	**70.7**	9	79.0	10/15	42	2.3	.	.	.
TA Seeds	TS6569R2	**70.2**	23	69.5	10/10	40	2.3	.	.	.
Meherrin	SH 6215 LL	**69.8**	11	77.3	10/20	46	2.3	.	.	.
Public Variety	Musen	**66.6**	20	71.8	10/19	48	3.3	.	.	.
USG	76S73R	.	2	**85.0**	10/17	39	1.0	.	.	.
Monsanto	AG69X6 RR2 XTEND	.	4	**82.6**	10/18	41	1.0	.	.	.
Winfield	RX 6966	.	5	**82.1**	10/21	38	2.7	.	.	.
NK	S67-B7	.	6	**82.0**	10/15	39	1.7	.	.	.
USG	7686XT	.	8	**81.1**	10/19	41	2.7	.	.	.
UARK	UAX 59313GT	.	14	76.0	10/08	46	3.0	.	.	.
UARK	UAX 59011C	.	15	75.9	10/17	43	3.3	.	.	.
Dyna-Gro	S69XT57	.	16	75.5	10/20	36	1.7	.	.	.
USG	7607XT	.	17	75.3	10/17	41	1.7	.	.	.
UARK	UAX 59012C	.	18	73.2	10/03	38	1.7	.	.	.
NK	S69-G9	.	19	72.2	10/17	45	3.0	.	.	.
UARK	UAX 59113GT	.	21	71.4	10/09	43	3.3	.	.	.
UARK	UAX 59111C	.	22	70.6	10/11	39	2.7	.	.	.
SS	SS 6917 X	.	24	68.8	10/22	37	1.0	.	.	.
UARK	UAX 59013C	.	26	68.5	10/04	42	1.3	.	.	.
Average		73.4		76.5[6]	10/14	41	2.0	.	.	.
LSD at 10% Level		N.S.[7]		6.5	-	3	0.9	.	.	.
Std. Err. of Entry Mean		1.9		2.8	-	1	0.4	.	.	.

Midville, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
				bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
Pioneer	P76T54R2	**75.0**	1	**81.1**	10/23	40	1.7	.	.	.
NK	S74-M3	**74.3**	3	**78.3**	10/22	37	1.3	.	.	.
UGA	G13LL-44	**71.9**	4	**76.7**	10/20	40	2.3	.	.	.
UGA	G13LL-7	**70.7**	2	**78.8**	10/22	41	2.3	.	.	.
USG	77J25RS	**69.9**	20	70.8	10/24	39	2.0	.	.	.
UGA	G11PR-56238R2	**69.2**	11	74.1	10/22	41	2.3	.	.	.
AGSouth	AGS Woodruff	**68.2**	18	71.9	10/26	41	4.7	.	.	.
Dyna-Gro	S72RS36	**68.2**	17	72.0	10/20	39	2.0	.	.	.
UGA	G10PR-56444R2	**68.2**	13	73.0	10/20	43	2.7	.	.	.
AGSouth	AGS 738 RR	67.7	21	70.5	10/18	36	2.0	.	.	.
SC	SC07-1518RR	66.9	27	69.1	10/26	51	3.7	.	.	.
UGA	G11PR-56151R2	65.8	35	64.1	10/25	43	3.3	.	.	.
SS	SS 7215NS R2	64.9	23	70.0	10/20	38	2.0	.	.	.
TA Seeds	TS8059R2	64.7	24	69.8	10/29	43	2.0	.	.	.
SC	SC07-1490RR	63.8	31	67.4	10/23	50	2.0	.	.	.
Public Variety	Cook	63.2	30	68.3	10/22	44	3.3	.	.	.
Public Variety	Santee	62.9	33	66.8	10/21	50	4.3	.	.	.
Bayer	CZ 7007 LL	62.8	32[T]	66.9	10/16	41	3.3	.	.	.
Public Variety	Paul	62.4	12	74.0	10/23	41	2.3	.	.	.
Public Variety	Cheraw	61.9	36	63.0	10/23	46	2.0	.	.	.
AGSouth	AGS 828 RR	60.4	26	69.3	10/23	40	3.7	.	.	.
Meherrin	SH 7116 LL	57.7	32[T]	66.9	10/18	36	2.7	.	.	.
SC	SC07-108RR	57.4	34	65.1	10/24	47	2.0	.	.	.
Bayer	CZ 7132 LL	53.9	37	60.2	10/17	54	4.0	.	.	.
USG	7756XT	.	5	**76.5**	10/23	43	1.3	.	.	.
UGA	G12-2259R2	.	6	**75.7**	10/27	43	1.3	.	.	.
SS	SS 7516N X	.	7	**75.4**	10/24	42	1.3	.	.	.
UGA	G11-2663R2	.	8	74.8	10/23	39	1.7	.	.	.
Monsanto	AG72X7 RR2 XTEND	.	9[T]	74.3	10/23	40	1.7	.	.	.
UGA	G12-6543	.	9[T]	74.3	10/26	39	2.3	.	.	.
Meherrin	SH 6215 LL	.	10	74.2	10/19	45	2.7	.	.	.
UGA	G12-1784R2	.	14	72.8	10/21	38	1.7	.	.	.
Dyna-Gro	S75XT26	.	15	72.6	10/23	43	1.0	.	.	.
Monsanto	AG75X6 RR2 XTEND	.	16	72.1	10/21	41	1.0	.	.	.
UGA	G12-3107R2	.	19	71.3	10/23	41	2.7	.	.	.
Public Variety	Motte	.	22	70.4	10/25	45	3.3	.	.	.
UGA	G12-2731R2	.	25	69.5	10/22	40	4.7	.	.	.
UGA	G12-6515	.	28	68.9	10/25	41	3.7	.	.	.
UGA	G12-2103R2	.	29	68.4	10/28	42	1.0	.	.	.
Average		65.5		71.3[8]	10/22	42	2.4	.	.	.
LSD at 10% Level		7.0		5.8	.	3	0.8			
Std. Err. of Entry Mean		1.6		2.4	.	1	0.4			

Midville, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 6.1% and df for EMS = 90.
6. CV = 6.2% and df for EMS = 52.
7. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
8. CV = 6.0% and df for EMS = 78.

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, 2016.
Harvested:	Maturity Group V and VI - October 25, 2016. Maturity Group VII & VIII - November 3, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Dothan loamy snd.
Soil Test:	P = Medium, K = Very High, and pH = 6.3.
Fertilization:	30 lb N, 60 lb P_2O_5, and 60 lb K_2O/acre.
Previous Crop:	Cotton.
Management:	Disked, field conditioned, and subsoiled/bedded; Warrant, Pendimethalin, Valor, and Gramoxone used for weed control; Tracer, Double Take, and Belt used for insect control; Telone II used for nematode control; Tebucanazole used for disease control; irrigated 7.5 inches.

Test conducted by A. Black, R. Brooke, D. Dunn, and G. South.

Griffin, Georgia:
Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
Maturity Group V										
Public Variety	Osage	**81.2**	7	**75.7**	09/27	33	1.0	14.7	1.8	1.7
Dyna-Gro	39RY57	**72.7**	7[T]	**74.8**	10/01	38	1.0	17.3	1.5	1.0
Pioneer	P54T94R	71.5	22	71.1	09/29	38	1.0	15.3	1.5	1.7
SS	SS 5615N R2	71.4	25[T]	70.2	09/29	39	1.0	16.8	1.3	1.0
UARK	UA 5612	71.1	10	**73.7**	10/01	39	2.7	14.7	1.5	1.0
Pioneer	P56T12SR	70.4	14	**72.7**	09/27	36	1.3	16.1	1.5	1.3
AGSouth	AGS 568RR	69.6	7[T]	**74.8**	09/30	45	1.0	15.5	1.5	1.3
Dyna-Gro	S56RY84	69.1	33	65.9	10/02	41	1.7	15.2	1.5	1.0
USDA-ARS	JTN-5110	68.1	6	**75.2**	09/27	39	1.0	16.5	1.5	2.0
Terral Seed	REV®57R21™ Brand	67.9	13	**72.8**	10/01	48	2.7	14.8	1.5	1.3
Terral Seed	REV®56R63™ Brand	67.7	32	66.3	10/05	46	2.0	16.0	1.5	1.0
NK	S58-Z4	67.1	36	63.2	10/05	38	1.3	14.9	1.5	1.0
UARK	R10-197RY	65.3	34	64.8	10/01	40	1.0	15.7	1.5	2.0
SS	LL 5914NS	64.8	37	62.9	10/01	42	1.3	14.7	1.5	1.7
UARK	UA 5414RR	62.5	38	62.3	09/30	40	1.7	14.2	1.5	1.3
Bayer	CZ 5515 LL	59.0	41	53.8	10/01	55	3.3	17.2	1.5	1.0
UARK	UA 5814HP	57.1	40	55.0	10/05	40	2.0	17.3	1.5	1.3
Monsanto	AG55X7 RR2 XTEND	.	1	**81.2**	09/27	32	1.0	15.1	1.5	1.0
Bayer	CZ 5147 LL	.	2	**80.5**	09/28	35	1.0	15.6	1.5	1.3
Meherrin	SH 5215 LL	.	3	**77.5**	09/28	46	1.3	14.4	1.5	1.0
NK	S59-A5	.	4	**76.5**	10/05	38	1.0	14.4	1.5	1.0
Virginia Tech	V12-3684	.	8[T]	**74.1**	09/26	30	1.0	18.8	1.5	1.3
Winfield	RX 5163	.	8[T]	**74.1**	09/26	44	2.7	14.4	1.8	1.3
Meherrin	SH 5915 LL	.	8[T]	**74.1**	10/04	40	1.0	16.0	1.5	1.0
Monsanto	AG59X7 RR2 XTEND	.	9	**74.0**	10/06	38	1.0	13.2	1.5	1.0
Virginia Tech	V12-1416	.	11	**73.6**	10/02	38	1.0	14.7	1.5	1.0
Bayer	CZ 5375 RY	.	12	**73.5**	09/30	34	1.0	15.5	1.5	1.3
Virginia Tech	V12-0063R2	.	15	**72.6**	09/28	35	1.3	18.0	1.5	1.0
Pioneer	P55T81R	.	16	**72.4**	09/29	45	1.3	15.5	1.5	1.0
NK	S56-M8	.	17	72.0	10/04	40	1.0	14.8	1.5	1.3
AGSouth	AGS 537LL	.	18	71.8	09/26	45	1.3	14.9	1.5	1.3
Bayer	CZ 5225 LL	.	19	71.4	10/01	34	1.0	16.3	1.5	1.0
USG	75B75R	.	20	71.3	09/28	40	1.3	16.3	1.5	1.0
Bayer	CZ 5445 LL	.	21	71.2	09/29	34	1.0	16.2	1.5	1.0
Virginia Tech	V12-0074R2	.	23	70.6	09/29	37	1.0	16.7	1.5	1.3
Virginia Tech	V12-1048	.	24	70.3	09/25	39	1.0	17.8	1.5	1.3
UARK	UAX 51010C	.	25[T]	70.2	09/30	40	1.3	16.5	1.5	1.7
SS	SS 5517N X	.	26	69.9	09/26	39	1.3	12.7	1.5	1.3
Monsanto	AG54X6 RR2 XTEND	.	27	69.7	10/02	49	1.0	15.7	1.5	1.0
UARK	R07-6614RR	.	28[T]	68.2	10/06	43	1.3	14.8	1.5	1.0

Griffin, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
Maturity Group V - continued										
Monsanto	AG53X6 RR2 XTEND	.	28[T]	68.2	09/25	35	1.0	16.1	1.5	1.0
UARK	R10-230	.	29	67.7	09/30	41	1.7	14.5	1.5	1.3
Bayer	CZ 5242 LL	.	30	67.1	09/29	44	1.7	13.3	1.5	1.7
Virginia Tech	V12-1376	.	31	67.0	10/01	36	1.0	16.2	1.5	1.0
Bayer	CZ 4818 LL	.	35	64.5	09/21	46	3.0	16.5	1.5	2.0
SS	SS 5917NS X	.	39	57.7	10/09	43	1.0	14.0	1.5	1.0
Average		68.0		70.2[5]	09/30	40	1.4	15.5	1.5	1.2
LSD @ 10% Level		9.0		8.9	3	4	0.5	1.4	N.S.[6]	0.5
Std. Err. Of Entry Mean		3.2		3.8	1	2	0.2	0.6	0.1	0.2
Maturity Group VI										
Meherrin	SH 6515 LL	**66.5**	3	**64.5**	10/12	37	1.7	17.6	1.5	1.0
Bayer	CZ 6060 RY	**65.3**	13	56.5	10/05	39	2.0	16.1	1.5	1.7
Dyna-Gro	S65RY73	**61.8**	12	57.2	10/15	41	2.0	13.7	2.0	1.0
Dyna-Gro	S67RY25	**61.5**	2	**65.2**	10/17	43	1.0	17.1	1.8	1.0
Bayer	CZ 6316 LL	**59.6**	19	53.9	10/14	38	1.7	14.1	1.5	1.0
Meherrin	SH 6815 LL	**59.4**	9	**58.2**	10/17	40	1.7	17.2	1.5	1.7
Bayer	CZ 6109 LL	**57.8**	22	49.3	10/12	38	1.7	16.0	1.8	1.3
Pioneer	P67T25R2	**57.6**	14	56.4	10/17	47	1.3	16.8	2.0	1.0
Public Variety	Musen	**54.2**	15	55.7	10/21	46	1.3	15.7	1.5	1.3
SS	LL 6314S	**54.0**	17[T]	54.5	10/19	49	1.3	16.4	2.0	1.0
Meherrin	SH 6215 LL	**53.9**	17[T]	54.5	10/21	45	1.0	16.4	1.8	1.0
TA Seeds	TS6569R2	**51.8**	25	38.4	10/04	42	1.0	11.9	1.5	1.3
NK	S67-B7	.	1	**65.9**	10/16	41	2.3	16.3	2.0	1.0
Dyna-Gro	S69XT57	.	4	**63.2**	10/21	42	1.0	16.0	1.8	1.0
SS	SS 6917 X	.	5	**60.9**	10/21	41	1.3	16.5	1.8	1.0
USG	7686XT	.	6	**59.5**	10/17	42	2.0	15.2	2.0	1.0
USG	76S73R	.	7[T]	**59.4**	10/16	37	1.3	16.3	1.8	1.3
NK	S69-G9	.	7[T]	**59.4**	10/19	43	2.0	17.0	1.5	1.0
Winfield	RX 6966	.	8	**58.5**	10/21	42	1.7	15.5	1.8	1.0
UARK	UAX 59012C	.	10	**57.7**	09/30	40	2.7	13.4	1.5	1.3
Monsanto	AG69X6 RR2 XTEND	.	11	**57.3**	10/20	43	1.7	15.9	1.8	1.0
UARK	UAX 59113GT	.	16	55.0	10/13	48	3.0	15.4	1.8	1.0
UARK	UAX 59111C	.	18	54.0	10/10	45	2.3	15.6	1.8	1.0
UARK	UAX 59013C	.	20	53.1	09/30	42	2.3	12.4	1.5	1.0
UARK	UAX 59313GT	.	21	50.3	10/13	46	1.7	12.9	1.5	1.0
USG	7607XT	.	23	49.0	10/15	42	1.0	17.9	1.8	1.7
UARK	UAX 59011C	.	24	47.1	10/16	44	2.3	14.8	1.5	1.3
Average		58.6		56.1[7]	10/14	42	1.7	15.5	1.8	1.1
LSD @ 10% Level		N.S.		8.6	3	4	0.7	2.0	0.5	N.S.
Std. Err. Entry Mean		2.3		3.6	1	2	0.3	0.8	0.2	0.2

Griffin, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 9.3% and df for EMS = 90.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 11.2% and df for EMS = 52.

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 24, 2016.
Harvested:	Maturity Group V - October 20, 2016. Maturity Group VI - October 29, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Maturity Group V - Cecil sandy loam. Maturity Group VI - Pacolet coarsesandy loam.
Soil Test:	Maturity Group V - P = Medium, K = Very High, and pH = 6.4. Maturity Group VI - P = High, K = Very High, and pH = 6.8.
Fertilization:	40 lb N, 80 lb P_2O_5, and 120 lb K_2O/acre.
Previous Crop:	Maturity Group V - Corn. Maturity Group VI - Sorghum.
Management:	Maturity Group V - Chisel plowed, disked, rototilled, and one cultivation; Treflan, Basagran, and Blazer used for weed control; Bifenthrin used for insect control; irrigated 9.5 inches. Maturity Group VI - Chisel plowed, disked, and rototilled; Treflan, Basagran, and Blazer used for weed control; Bifenthrin used for insect control; irrigated 8.5 inches.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Griffin, Georgia:
Late-Planted Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
SS	SS 7215NS R2	**57.3**	2	**48.7**	10/25	27	1.0	17.5	1.5	1.0
Dyna-Gro	S72RS36	**56.5**	7[T]	**45.6**	10/24	31	1.0	16.5	1.5	1.0
UGA	G13LL-44	**54.9**	9	**44.5**	10/24	32	1.0	17.9	1.5	1.0
USG	77J25RS	**54.9**	15	**43.2**	10/23	29	1.0	16.5	1.5	1.0
Pioneer	P76T54R2	**54.2**	3	**47.7**	10/24	28	1.0	12.9	1.8	1.3
AGSouth	AGS Woodruff	**52.5**	19	**41.6**	10/29	30	1.0	16.4	1.5	1.3
Meherrin	SH 7116 LL	**50.6**	22	40.0	10/21	27	1.0	13.6	1.5	1.0
UGA	G10PR-56444R2	**49.8**	1	**51.3**	10/26	33	1.3	15.9	1.8	1.0
SC	SC07-1518RR	**49.8**	26	37.6	10/31	36	1.3	14.3	1.5	1.0
NK	S74-M3	**48.7**	18	**41.7**	10/24	27	1.0	17.2	1.5	1.0
AGSouth	AGS 828 RR	**48.5**	8	**44.8**	10/26	28	1.0	12.9	1.5	1.0
AGSouth	AGS 738 RR	**48.4**	23	39.2	10/24	28	1.0	13.4	1.5	1.0
UGA	G11PR-56238R2	**47.6**	11	**44.0**	10/25	33	1.0	14.7	1.5	1.0
UGA	G13LL-7	**47.6**	21	40.7	10/24	32	1.0	13.4	1.5	1.0
Public Variety	Paul	**47.5**	10	**44.2**	10/23	28	1.0	12.5	1.5	1.3
Public Variety	Cheraw	**47.4**	34	33.0	10/29	28	1.0	13.0	2.0	1.0
UGA	G11PR-56151R2	**47.1**	32	34.3	10/26	31	1.0	16.5	1.5	1.0
Bayer	CZ 7007 LL	**46.2**	25[T]	38.5	10/24	31	1.0	15.3	1.5	1.0
SC	SC07-1490RR	**45.7**	33	33.8	10/31	31	1.0	15.9	1.5	1.0
Public Variety	Santee	**44.8**	25[T]	38.5	10/24	34	1.0	14.7	1.5	1.0
SC	SC07-108RR	**43.7**	30	35.0	10/30	36	1.0	16.1	1.8	1.0
TA Seeds	TS8059R2	**43.3**	29[T]	35.8	10/29	28	1.0	15.8	1.5	1.0
Public Variety	Cook	**43.0**	24	38.8	10/29	30	1.0	15.7	1.5	1.0
Bayer	CZ 7132 LL	**42.4**	37	30.6	10/21	35	1.0	14.8	3.0	1.0
UGA	G11-2663R2	.	4	**47.5**	10/27	33	1.0	16.3	1.5	1.0
UGA	G12-6543	.	5	**46.2**	10/28	31	1.0	14.0	1.5	1.0
UGA	G12-2103R2	.	6	**45.9**	10/29	35	1.0	14.9	1.5	1.3
UGA	G12-2259R2	.	7[T]	**45.6**	10/30	33	1.0	16.1	1.5	1.0
SS	SS 7516N X	.	12	**43.8**	10/25	33	1.0	15.7	1.5	1.0
UGA	G12-2731R2	.	13	**43.5**	10/25	33	1.0	12.4	1.5	1.0
UGA	G12-3107R2	.	14	**43.3**	10/26	30	1.0	12.5	1.5	1.3
UGA	G12-6515	.	16	**42.7**	10/29	33	1.0	15.3	1.5	1.3
Public Variety	Motte	.	17	**41.8**	10/30	34	1.0	14.2	1.5	1.3
UGA	G12-1784R2	.	20	41.2	10/24	29	1.0	13.8	1.5	1.0
Dyna-Gro	S75XT26	.	27	36.9	10/25	30	1.0	16.4	1.5	1.0

Griffin, Georgia:
Late-Planted Soybean Variety Performance, 2016, Irrigated
(Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Monsanto	AG72X7 RR2 XTEND	.	28	36.1	10/24	27	1.0	13.8	2.0	1.0
USG	7756XT	.	29[T]	35.8	10/24	32	1.0	15.5	1.5	1.0
Monsanto	AG75X6 RR2 XTEND	.	31	34.9	10/25	29	1.0	11.4	1.8	1.0
Meherrin	SH 6215 LL	.	35	31.7	10/23	29	1.0	14.3	1.8	1.0
Average		48.9		40.8[5]	10/26	31	1.0	14.9	1.6	1.1
LSD @ 10% Level		N.S.[6]		9.9	2	4	N.S.	1.5	0.2	N.S.
Std. Err. Entry Mean		2.4		4.2	1	2	0.1	0.6	0.1	0.1

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 18.0% and df for EMS = 80.
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 27, 2016.
Harvested: November 3, 2016.
Seeding Rate: Eight seeds per foot in 30" rows.
Soil Type: Cecil clay loam.
Soil Test: P = High, K = High, and pH = 6.5.
Fertilization: 30 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre.
Previous Crop: Wheat.
Management: Cisel plowed, disked, rotilled, and one cultivation; Treflan, Basagran, and Blazer used for weed control; Bifenthrin used for insect control; irrigated 5.5 inches.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Athens, Georgia:
Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
NK	S58-Z4	**57.1**	16	54.8	10/10	33	1.3	15.1	1.2	.
Pioneer	P56T12SR	**54.4**	21	53.4	10/04	30	1.3	17.6	1.7	.
UARK	UA 5612	**54.1**	5	**60.9**	10/03	33	1.3	15.2	1.3	.
UARK	UA 5814HP	**54.0**	10	**57.0**	10/06	34	1.0	17.4	1.5	.
Pioneer	P54T94R	**53.7**	17	54.6	10/05	28	1.0	16.4	1.7	.
SS	LL 5914NS	**53.4**	37	47.2	10/03	35	1.7	14.7	1.8	.
Terral Seed	REV®57R21™ Brand	**53.2**	9	**58.6**	10/09	45	1.7	15.4	2.0	.
Dyna-Gro	39RY57	**51.6**	3	**63.4**	10/06	32	1.7	19.0	1.3	.
SS	SS 5615N R2	**50.2**	18	54.4	10/03	33	1.0	16.3	1.2	.
Dyna-Gro	S56RY84	**49.3**	32	50.2	10/04	33	1.3	15.9	1.5	.
AGSouth	AGS 568RR	**47.6**	40	46.4	09/28	35	1.0	15.8	1.2	.
UARK	UA 5414RR	**47.5**	12	**56.4**	10/04	32	1.0	15.3	2.0	.
Terral Seed	REV®56R63™ Brand	**47.2**	28	51.1	10/10	35	1.7	16.3	1.3	.
Bayer	CZ 5515 LL	**46.3**	34	48.6	10/09	44	2.0	15.4	1.2	.
UARK	R10-197RY	**44.1**	30[T]	50.8	10/04	31	1.0	16.0	1.3	.
Public Variety	Osage	**42.8**	31	50.3	09/29	28	1.0	15.4	2.0	.
USDA-ARS	JTN-5110	**42.6**	26[T]	51.7	09/30	29	1.0	15.5	1.0	.
UARK	UAX 51010C	.	1	**64.4**	09/27	34	1.3	17.2	1.5	.
Virginia Tech	V12-0074R2	.	2	**64.2**	10/09	31	1.0	17.1	1.8	.
Virginia Tech	V12-0063R2	.	4	**61.4**	10/09	29	1.0	21.0	1.8	.
Bayer	CZ 5225 LL	.	6[T]	**59.8**	09/27	32	1.0	14.8	2.2	.
Virginia Tech	V12-1048	.	6[T]	**59.8**	10/05	30	1.0	18.8	1.5	.
Pioneer	P55T81R	.	7	**59.2**	10/05	35	1.0	15.7	1.3	.
USG	75B75R	.	8	**58.8**	10/04	35	1.0	17.1	1.3	.
Monsanto	AG59X7 RR2 XTEND	.	11	**56.6**	10/14	28	1.3	13.9	1.7	.
SS	SS 5517N X	.	13[T]	**56.3**	09/30	31	1.3	16.3	2.2	.
Winfield	RX 5163	.	13[T]	**56.3**	09/27	34	1.0	14.6	1.8	.
Bayer	CZ 5375 RY	.	14	55.1	10/09	26	1.0	16.8	2.3	.
NK	S59-A5	.	15	54.9	10/08	31	1.0	12.9	1.0	.
Meherrin	SH 5215 LL	.	19	53.9	10/01	32	1.0	14.8	2.3	.
Meherrin	SH 5915 LL	.	20	53.6	10/04	35	2.0	15.1	1.5	.
UARK	R07-6614RR	.	22	53.3	10/10	36	1.0	15.0	1.3	.
SS	SS 5917NS X	.	23	53.1	10/15	38	1.7	14.1	1.2	.
NK	S56-M8	.	24	52.9	10/09	30	1.0	16.0	1.0	.
UARK	R10-230	.	25	52.0	09/29	33	1.3	15.3	1.7	.
Monsanto	AG53X6 RR2 XTEND	.	26[T]	51.7	09/26	33	1.0	17.3	1.5	.
Monsanto	AG55X7 RR2 XTEND	.	26[T]	51.7	09/25	25	1.0	15.1	2.3	.
Bayer	CZ 5147 LL	.	27	51.4	10/05	26	1.0	15.5	1.5	.
Bayer	CZ 5445 LL	.	29	50.9	09/27	35	1.0	15.1	2.2	.
Virginia Tech	V12-1416	.	30[T]	50.8	10/05	29	1.0	15.9	1.2	.

Athens, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
				bu/acre	date	in	rating	gm	rating	rating
Maturity Group V - continued										
Virginia Tech	V12-1376	.	33	49.9	10/06	28	1.0	16.9	1.5	.
Monsanto	AG54X6 RR2 XTEND	.	35	48.4	10/09	38	1.3	16.2	1.5	.
Virginia Tech	V12-3684	.	36	47.6	09/26	24	1.0	16.7	2.5	.
Bayer	CZ 5242 LL	.	38	47.0	09/28	35	1.0	13.9	2.5	.
AGSouth	AGS 537LL	.	39	46.9	09/28	30	1.0	15.1	2.5	.
Bayer	CZ 4818 LL	.	41	43.8	09/20	32	1.3	16.4	1.5	.
Average		49.9		53.8 [5]	10/03	32	1.2	15.9	1.6	.
LSD at 10% Level		N.S.[6]		9.2	-	3	0.4	1.1	0.7	.
Std. Error of Entry Mean		2.3		7.3	-	4	15.7	2.8	17.8	.
Maturity Group VI										
Dyna-Gro	S65RY73	**57.4**	2	**70.0**	10/17	34	1.5	13.6	1.3	.
Bayer	CZ 6316 LL	**51.6**	3	**66.9**	10/15	31	1.0	13.8	1.3	.
Meherrin	SH 6515 LL	**50.4**	5	**62.5**	10/15	30	1.0	17.3	1.3	.
Meherrin	SH 6215 LL	**49.2**	11	56.1	10/22	45	1.5	15.6	1.3	.
Pioneer	P67T25R2	**47.3**	15	53.5	10/17	43	1.0	14.9	2.3	.
Meherrin	SH 6815 LL	**45.0**	21	49.0	10/16	32	1.0	16.1	2.0	.
Bayer	CZ 6060 RY	**43.6**	17	52.5	10/06	28	1.0	17.6	1.5	.
SS	LL 6314S	**43.4**	26	40.1	10/23	38	1.5	16.0	2.0	.
Public Variety	Musen	**41.0**	24	47.1	10/23	39	1.5	14.8	1.0	.
Dyna-Gro	S67RY25	**39.8**	9	57.0	10/15	31	1.0	14.5	1.0	.
Bayer	CZ 6109 LL	**38.8**	27	40.0	10/12	31	1.0	17.2	1.0	.
TA Seeds	TS6569R2	**38.5**	20	49.5	10/10	28	1.5	15.0	1.5	.
NK	S67-B7	.	1	**70.8**	10/13	30	1.0	17.5	1.0	.
NK	S69-G9	.	4	**64.9**	10/17	35	1.5	15.1	1.0	.
Winfield	RX 6966	.	6	58.6	10/21	35	2.0	15.0	1.3	.
SS	SS 6917 X	.	7	58.1	10/24	31	1.0	15.8	1.5	.
USG	7607XT	.	8	57.4	10/14	33	1.0	19.2	1.5	.
Monsanto	AG69X6 RR2 XTEND	.	10	56.3	10/22	33	1.0	14.9	1.0	.
UARK	UAX 59113GT	.	12	54.9	10/06	40	1.0	16.4	2.5	.
UARK	UAX 59011C	.	13	54.8	10/19	36	1.0	13.7	1.3	.
UARK	UAX 59111C	.	15	53.3	10/08	31	1.5	17.7	1.3	.
UARK	UAX 59012C	.	16	52.9	09/27	33	1.0	14.8	1.8	.
Dyna-Gro	S69XT57	.	18	52.0	10/23	29	1.0	14.8	1.3	.
USG	76S73R	.	19	51.3	10/17	35	1.0	14.1	1.0	.
UARK	UAX 59013C	.	22	48.6	10/03	32	1.0	13.9	1.5	.
USG	7686XT	.	23	47.3	10/22	32	1.0	15.3	1.8	.
UARK	UAX 59313GT	.	25	45.1	10/08	33	1.0	13.2	1.3	.
Average		45.5		54.4 [7]	10/15	33	1.2	15.4	1.4	.
LSD at 10% Level		N.S.		11.6	2	6	N.S.	1.0	0.8	.
Std. Error of Entry Mean		2.4		3.9	1	2	0.2	0.3	0.3	.

Athens, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
				bu/acre	date	in	rating	gm	rating	rating
Maturity Group VII and VIII										
AGSouth	AGS Woodruff	**56.5**	14	49.8	10/23	39	2.0	16.1	1.2	.
UGA	G13LL-7	**55.8**	12	50.4	10/23	39	1.0	16.2	1.5	.
Dyna-Gro	S72RS36	**55.2**	1	**59.2**	10/21	38	1.0	17.2	1.2	.
NK	S74-M3	**55.1**	2	**58.5**	10/21	36	1.0	16.9	1.5	.
UGA	G10PR-56444R2	**53.3**	5	52.5	10/23	42	1.3	15.8	1.3	.
UGA	G11PR-56151R2	**52.1**	31[T]	43.9	10/23	39	1.0	16.2	1.0	.
SS	SS 7215NS R2	**51.4**	6	52.3	10/20	34	1.0	16.8	1.5	.
Public Variety	Cheraw	**50.9**	26	46.0	10/26	41	1.0	13.8	2.0	.
UGA	G13LL-44	**50.8**	20	47.5	10/18	35	1.0	16.9	1.0	.
SC	SC07-1518RR	**50.5**	9	51.7	10/27	47	2.0	14.6	1.2	.
Pioneer	P76T54R2	**49.9**	3	**55.9**	10/23	32	1.0	13.6	1.0	.
AGSouth	AGS 738 RR	**49.9**	7	52.2	10/17	39	1.0	13.0	1.3	.
Bayer	CZ 7007 LL	**49.9**	19	47.8	10/23	39	1.3	15.6	1.3	.
AGSouth	AGS 828 RR	**48.9**	16	48.9	10/25	33	1.3	13.9	1.3	.
USG	77J25RS	**48.2**	8	52.0	10/22	36	1.0	17.3	1.3	.
SC	SC07-1490RR	**48.2**	30	44.1	10/27	43	1.3	15.9	1.2	.
SC	SC07-108RR	**47.7**	34[T]	42.0	10/27	44	1.0	15.7	1.3	.
UGA	G11PR-56238R2	**46.0**	21	47.4	10/23	34	1.0	16.2	1.2	.
Public Variety	Santee	**45.7**	24[T]	46.9	10/23	44	1.3	15.4	1.2	.
Public Variety	Paul	**45.7**	25	46.8	10/26	35	1.0	13.5	1.5	.
TA Seeds	TS8059R2	**45.1**	34[T]	42.0	10/26	43	1.0	16.0	1.3	.
Public Variety	Cook	**44.9**	22	47.3	10/20	40	1.7	16.2	1.2	.
Bayer	CZ 7132 LL	**43.1**	33	42.8	10/13	53	2.0	15.1	3.8	.
Meherrin	SH 7116 LL	**37.3**	23[T]	47.1	10/15	31	1.0	13.6	1.3	.
SS	SS 7516N X	.	4[T]	52.7	10/25	41	1.3	16.7	1.2	.
UGA	G12-2259R2	.	4[T]	52.7	10/23	37	1.0	15.0	1.0	.
Dyna-Gro	S75XT26	.	10	51.6	10/25	42	1.3	16.9	1.2	.
UGA	G12-1784R2	.	11	50.5	10/21	36	1.0	14.5	1.0	.
Public Variety	Motte	.	13	50.1	10/24	47	2.0	13.9	1.2	.
USG	7756XT	.	15	49.0	10/24	41	2.0	17.0	1.2	.
Monsanto	AG72X7 RR2 XTEND	.	17	48.6	10/20	36	1.0	14.3	1.2	.
UGA	G12-2103R2	.	18	48.4	10/25	39	1.0	17.6	1.2	.
UGA	G11-2663R2	.	23[T]	47.1	10/23	37	1.0	15.6	1.3	.
UGA	G12-2731R2	.	24[T]	46.9	10/21	41	1.7	11.3	1.2	.
Monsanto	AG75X6 RR2 XTEND	.	27	45.3	10/24	38	1.0	14.0	1.8	.
UGA	G12-3107R2	.	28	44.9	10/23	39	1.0	12.6	1.0	.
Meherrin	SH 6215 LL	.	29	44.3	10/23	41	1.0	16.0	1.8	.
UGA	G12-6515	.	31[T]	43.9	10/22	34	1.7	14.6	1.3	.
UGA	G12-6543	.	32	43.2	10/24	37	1.7	14.0	1.3	.
Average		49.2		48.6[8]	10/22	39	1.3	15.3	1.3	.
LSD at 10% Level		N.S.		5.2	1	3	0.4	0.9	0.5	
Std. Error of Entry Mean		2.1		2.1	1	1	0.2	0.4	0.2	

Athens, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV =12.6 % and df for EMS = 90.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 12.5% and df for EMS = 26.
8. CV = 7.7% and df for EMS = 77.

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, 2016.
Harvested:	Maturity Group V and VI - October 24, 2016. Maturity Group VII & VIII - November 1, 2016.
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:	14 lb N, 52 lb P_2O_5, and 105 lb K_2O/acre.
Previous Crop:	Grain sorghum.
Management:	Chisel plowed, disked, one cultivation, and subsoiled between rows; Valor XLT, Prowl, and Classic used for weed control; Endigo used for insect control; Domark used for disease control; irrigated 9.0 inches.

Test conducted by Z. Li, E.D. Wood, S.L. Finnerty, W.E. Baxter, B.F. Wilson, J.B. Nation, J.L. Martin, K.L. Yeargin, J.D. Sharp, W. C. Hartley, J.J. Griffin, P.K. Roach, and J.M. Cartey.

Calhoun, Georgia:
Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
Pioneer	P56T12SR	**56.7**	21	57.3	09/30	34	2.0	13.7	1.5	2.0
UARK	UA 5612	**54.8**	4	65.9	10/03	44	3.3	12.1	1.5	1.3
USDA-ARS	JTN-5110	**53.0**	11	60.6	10/04	42	2.0	15.3	1.5	2.0
Terral Seed	REV®57R21™ Brand	**52.9**	16	58.6	10/04	40	3.0	15.0	1.8	1.7
AGSouth	AGS 568RR	**52.8**	30'	53.9	10/04	40	1.7	13.8	1.5	1.3
SS	SS 5615N R2	**52.5**	13	59.0	10/03	39	1.0	12.6	1.8	1.7
UARK	R10-197RY	**52.0**	18	58.3	09/30	40	1.7	11.9	1.8	1.7
Pioneer	P54T94R	**51.7**	26	55.1	09/30	36	1.0	11.8	1.5	2.0
Terral Seed	REV®56R63™ Brand	**51.1**	29	54.0	10/01	40	3.0	12.1	1.5	1.7
Public Variety	Osage	**50.9**	5	64.5	10/04	41	1.0	12.8	1.5	2.0
UARK	UA 5814HP	**50.7**	37	49.9	10/03	42	2.3	12.0	1.8	2.0
Dyna-Gro	39RY57	**49.4**	7	62.4	10/03	38	2.0	14.0	1.8	1.7
Dyna-Gro	S56RY84	**48.8**	27	55.0	10/04	40	2.0	12.1	1.5	1.7
NK	S58-Z4	**48.1**	38'	49.0	10/07	39	1.0	11.6	1.8	1.7
Bayer	CZ 5515 LL	**47.7**	30'	53.9	10/05	47	2.7	13.0	1.8	2.0
UARK	UA 5414RR	**47.2**	33	53.4	10/01	39	2.0	11.8	1.5	2.0
SS	LL 5914NS	**39.5**	40	40.2	10/05	40	1.7	11.0	2.0	1.0
Monsanto	AG55X7 RR2 XTEND	.	1	**75.0**	10/03	37	1.0	13.1	1.8	1.0
Bayer	CZ 4818 LL	.	2	**68.6**	10/02	37	2.7	15.2	1.5	2.0
Meherrin	SH 5215 LL	.	3	**68.2**	10/07	35	1.3	13.1	1.5	2.0
AGSouth	AGS 537LL	.	6	62.9	09/30	35	1.0	13.1	1.5	2.0
Winfield	RX 5163	.	8	61.8	09/28	37	1.7	11.2	1.5	1.7
Bayer	CZ 5147 LL	.	9	61.2	09/30	35	1.0	12.1	1.5	1.7
Bayer	CZ 5375 RY	.	10	61.1	10/03	41	1.3	12.4	1.5	1.7
Bayer	CZ 5445 LL	.	12	60.0	10/05	40	1.7	14.0	2.0	1.3
SS	SS 5517N X	.	14	58.9	10/04	40	2.0	12.4	1.5	2.3
UARK	R10-230	.	15	58.7	10/07	36	3.0	12.6	1.8	1.7
NK	S56-M8	.	17	58.4	10/09	38	1.0	11.5	1.8	1.7
Bayer	CZ 5242 LL	.	19	58.2	10/03	38	1.7	11.4	1.5	2.0
Pioneer	P55T81R	.	20	57.6	10/01	39	1.7	12.3	1.5	2.0
UARK	UAX 51010C	.	22[T]	57.2	10/03	34	1.3	14.5	1.5	1.3
NK	S59-A5	.	22[T]	57.2	10/06	39	1.0	10.0	1.8	1.0
Virginia Tech	V12-1416	.	23[T]	56.3	10/04	40	1.0	12.4	1.5	1.3
Bayer	CZ 5225 LL	.	23[T]	56.3	09/28	43	1.0	12.5	1.8	2.0
Monsanto	AG53X6 RR2 XTEND	.	24	56.0	10/02	35	1.0	14.7	1.8	2.0
Virginia Tech	V12-3684	.	25	55.4	10/01	39	1.0	16.1	2.3	1.7
Virginia Tech	V12-0074R2	.	28	54.8	10/03	40	1.0	13.1	1.5	2.0
Monsanto	AG59X7 RR2 XTEND	.	31	53.6	10/11	36	1.0	15.0	2.3	1.0
Virginia Tech	V12-0063R2	.	32	53.5	09/28	37	1.0	15.1	1.5	2.0
USG	75B75R	.	34[T]	52.5	09/28	35	1.0	12.3	1.8	1.3

Calhoun, Georgia:
Soybean Variety Performance, 2016, Irrigated (Continued)

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V - continued										
Meherrin	SH 5915 LL	.	34[T]	52.5	10/07	36	2.0	12.8	1.5	2.0
Virginia Tech	V12-1376	.	35	50.4	09/30	35	1.0	12.8	1.5	1.7
Monsanto	AG54X6 RR2 XTEND	.	36	50.1	10/03	41	1.3	11.9	2.8	2.0
Virginia Tech	V12-1048	.	38[T]	49.0	09/28	35	1.0	14.7	1.5	2.0
UARK	R07-6614RR	.	39	48.7	10/02	39	1.3	11.4	1.5	2.0
SS	SS 5917NS X	.	41	36.6	10/06	39	1.3	10.4	2.3	1.0
Average		50.6		56.6[5]	10/03	39	1.6	12.8	1.7	1.7
LSD @ 10% Level		N.S.[6]		8.4	5	N.S.	0.7	1.8	0.4	0.5
Std. Err. Of Entry Mean		2.0		3.6	2	3	0.3	0.8	0.2	0.2
Maturity Group VI										
Bayer	CZ 6060 RY	**56.1**	1	**65.8**	10/07	35	1.3	13.4	1.8	1.3
Meherrin	SH 6515 LL	**51.6**	8	53.0	10/07	36	1.0	11.7	1.8	1.0
Dyna-Gro	S65RY73	**49.4**	7	53.2	10/09	38	1.7	9.8	1.5	1.0
Bayer	CZ 6109 LL	**45.6**	13	48.2	10/08	39	1.7	12.4	1.5	1.0
Bayer	CZ 6316 LL	**45.0**	11	48.5	10/08	36	1.3	10.5	1.8	1.0
Meherrin	SH 6815 LL	43.3	10	48.6	10/10	36	1.7	11.9	1.5	1.0
Pioneer	P67T25R2	43.3	14	48.0	10/11	43	2.3	10.6	2.3	1.0
Meherrin	SH 6215 LL	42.6	22	38.5	10/13	42	1.7	11.7	1.5	1.0
Public Variety	Musen	41.9	23	38.0	10/11	40	2.3	10.3	1.5	1.0
SS	LL 6314S	39.9	26	34.4	10/13	39	1.3	11.5	1.8	1.0
Dyna-Gro	S67RY25	39.6	24	36.9	10/10	36	1.0	10.0	1.5	1.3
TA Seeds	TS6569R2	31.3	27	32.1	10/07	35	1.3	9.2	1.5	1.0
NK	S67-B7	.	2	**62.8**	10/08	35	1.0	12.1	1.5	1.0
UARK	UAX 59111C	.	3	**61.4**	10/09	37	2.3	13.0	1.3	1.0
UARK	UAX 59313GT	.	4	**60.7**	10/07	38	1.7	9.6	1.5	1.0
UARK	UAX 59013C	.	5	**60.2**	10/08	38	1.0	10.3	1.5	1.0
UARK	UAX 59012C	.	6	**57.7**	10/07	35	1.3	11.9	1.5	1.3
USG	7607XT	.	9	50.4	10/08	39	1.3	13.8	1.5	1.3
UARK	UAX 59113GT	.	12	48.4	10/11	40	3.0	10.6	2.5	2.0
Winfield	RX 6966	.	15	47.5	10/12	36	1.0	11.1	1.8	1.0
USG	7686XT	.	16	47.2	10/11	38	1.7	10.1	1.8	1.0
NK	S69-G9	.	17	47.0	10/12	38	1.7	10.9	1.8	1.0
UARK	UAX 59011C	.	18	46.3	10/11	37	2.0	9.9	1.8	1.0
Dyna-Gro	S69XT57	.	19	45.6	10/12	41	1.0	11.3	2.0	1.0
USG	76S73R	.	20	45.4	10/09	37	1.7	10.7	1.8	1.0
SS	SS 6917 X	.	21	43.9	10/13	36	1.0	11.3	1.8	1.0
Monsanto	AG69X6 RR2 XTEND	.	25	35.2	10/12	38	1.3	10.1	2.0	1.0
Average		44.1		48.3[7]	10/10	38	1.5	11.1	1.7	1.1
LSD @ 10% Level		11.6		8.5	3	4	0.7	1.4	0.5	0.3
Std. Err. Of Entry Mean		2.2		3.6	1	2	0.3	0.6	0.2	0.1

Calhoun, Georgia:
Soybean Variety Performance, 2016, 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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 10.9% and df for EMS = 90.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 12.9% and df for EMS = 52.

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 Group V - June 2, 2016. Maturity Group VI - June 3, 2016.
Harvested:	October 31, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Waynesboro loam.
Soil Test:	Maturity Group V: P = High, K = High, and pH = .5.0 Maturity Group VI: P = Very High, K = Very High, and pH = .6.6
Fertilization:	Maturity Group V: 11 lb N, 39 lb P_2O_5, and 158 lb K_2O/acre. Maturity Group VI: 6 lb N, 22 lb P_2O_5, and 90 lb K_2O/acre.
Previous Crop:	Corn.
Management:	Maturity Group V: Moldboard plowed, disked, and rototilled; Poast, Basagran, Classic, and Ultra Blazer used for weed control; applied .25 lb Boron/acre; irrigated 10.5 inches. Maturity Group VI: Moldboard plowed, disked, rototilled, and one cultivation; Poast, Basagran, Classic, and Ultra Blazer used for weed control; applied .25 lb Boron/acre; irrigated 10.5 inches.

Test conducted by H. Jordan, G. Ware, J. Stubbs, and T. Dunn.

Midville, Georgia:
Ultra-Late Planted Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Terral Seed	REV®57R21™ Brand	**36.7**	3	**51.8**	11/08	20	1.0	15.7	1.8	0.0
Terral Seed	REV®56R63™ Brand	**31.8**	8[T]	41.0	11/10	19	1.0	16.6	1.5	0.8
Public Variety	Osage	**29.4**	8[T]	41.0	11/11	15	1.0	16.5	2.0	2.8
AGSouth	AGS 568RR	**28.1**	9	32.0	11/05	15	1.0	16.9	1.8	1.8
AGSouth	AGS 738 RR	**23.6**	10	27.9	11/06	13	1.0	15.8	2.3	2.5
Public Variety	Santee	**19.4**	122	21.3	11/05	12	1.0	18.1	2.1	3.3
NK	S74-M3	**17.8**	15	16.2	11/06	9	1.0	18.3	1.5	3.0
AGSouth	AGS 828 RR	**13.0**	17	11.5	11/06	11	1.0	15.9	1.9	1.5
Dyna-Gro	S65RY73	**7.8**	19	3.9	11/01	6	1.0	16.7	1.9	3.0
SC	SC10-406RR	.	1	**58.8**	11/26	23	1.0	15.8	1.5	0.0
SC	SC10-179	.	2	**55.2**	11/26	22	1.0	14.8	1.6	0.0
NK	S58-Z4	.	4	**51.7**	11/14	16	1.0	17.6	1.5	1.0
SC	SC10-397RR	.	5	50.6	11/26	22	1.0	15.4	1.5	0.0
Bayer	CZ 6060 RY	.	6	46.4	11/14	16	1.0	18.5	1.6	1.0
Pioneer	P55T81R	.	7	44.1	11/07	17	1.0	16.0	2.1	1.8
Pioneer	P67T25R2	.	11	22.1	11/05	13	1.0	17.1	2.3	3.5
Bayer	CZ 6109 LL	.	13	16.4	11/01	12	1.0	18.6	2.0	2.8
SS	LL 6314S	.	14	16.3	11/06	12	1.0	17.8	2.0	3.5
Pioneer	P76T54R2	.	16	12.0	11/04	10	1.0	16.1	1.9	4.0
Meherrin	SH 6515 LL	.	18	6.2	11/03	8	1.0	17.2	1.6	3.0
Average		23.1		31.3[5]	11/09	14	1.0	16.8	1.8	2.0
LSD at 10% Level		N.S.[6]		8.1	.	1	.	0.6	0.3	0.6
Std. Err. of Entry Mean		1.3		3.4	.	1	.	0.3	0.1	0.2

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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 21.8% and df for EMS = 57.
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: August 8, 2016.
Harvested: January 12, 2017.
Seeding Rate: 3 seeds per foot in 7" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Medium, K = Medium, and pH = 6.3.
Fertilization: 0 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre. Sidedress: 30 lb N/acre.
Previous Crop: Corn.
Management: Disked and field cultivated; Pendimethalin, Gramoxone, Basagran, and Select used for weed control; Lorsban, Prevathon, and Double Take used for insect control; Headline used for fungal control; irrigated 6,7 inches.

Test conducted by R. Brooke, D. Dunn, and G. South.

Attapulgus, Georgia:
Ultra-Late Planted Soybean Variety Performance, 2016, Irrigated

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating

An ultra-late soybean variety trial was planted at this location on August 4, 2016. However, an early frost shut down the growth of the soybean plants and inhibited pod fill for many of the varieties, resulting in considerable variation in performance within and among plots in the test. After careful analysis and review of the data, it is the opinion of the editors that the results of this trial may not accurately reflect the genetic performance potential of all of the test entries. Since this data is not useful for making decisions and could be misleading if used in making variety selections, it will not be presented in this publication.

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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).

Planted: August 4, 2016.
Harvested: November 22, 2016.
Seeding Rate: Eight seeds per foot in 30" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = Low, and pH = 6.6.
Fertilization: 140 lb N, 60 lb P_2O_5, and 140 lb K_2O/acre.
Previous Crop: Corn.
Management: Disked and field conditioned; Prowl, Valor, and Reflex used for weed control; Lorsban used for insect control; irrigated 8 inches.

Test conducted by D. Dunn, R. Brooke, B. Mills, and L. Hitson.

Summary of Dryland Soybean Variety Performance at Four Locations, 2016

Company/Brand	Variety	Yields[1] Griffin 2016	Griffin 2-Yr Avg	Midville 2016	Midville 2-Yr Avg	Plains 2016	Plains 2-Yr Avg	Tifton 2016	Tifton 2-Yr Avg	Statewide Avg 2016	Statewide Avg 2-Yr Avg
		bu/acre									
Maturity Group V											
AGSouth	AGS 568RR	32.5	**45.0**	28.9	**33.1**	26.1	47.9	77.8	67.5	41.3	**48.3**
Dyna-Gro	39RY57	32.0	.	**39.7**	.	27.9	.	**88.0**	.	**46.9**	.
Dyna-Gro	S56RY84	28.9	.	34.2	.	28.7	.	62.6	.	38.6	.
NK	S58-Z4	**35.2**	.	**45.3**	.	19.0	.	60.3	.	40.0	.
Pioneer	P54T94R	**37.1**	.	29.6	.	**34.1**	.	70.1	.	42.7	.
Public Variety	Osage	31.7	**49.7**	28.7	**35.3**	**36.0**	52.3	67.6	**61.4**	41.0	**49.7**
SS	SS 5615N R2	**37.6**	.	27.7	.	**33.3**	.	67.6	.	41.6	.
Terral Seed	REV®56R63™ Brand	**36.5**	**48.3**	31.8	**32.9**	29.6	**49.6**	60.6	**61.2**	39.6	**48.0**
Terral Seed	REV®57R21™ Brand	**38.9**	**49.8**	29.9	**33.8**	26.9	**47.8**	63.5	**59.6**	39.8	**47.7**
UARK	UA 5612	30.8	**51.4**	28.5	**32.1**	32.3	**51.6**	58.4	**58.3**	37.5	**48.4**
Average		34.1	48.8	32.4	33.5	29.4	49.8	67.6	61.6	40.9	48.4
LSD at 10% Level		6.1	N.S.[2]	10.5	N.S.	3.1	N.S.	7.3	N.S.	3.5	N.S.
Std. Err. of Entry Mean		2.5	2.8	4.3	1.6	1.3	1.5	3.0	2.1	0.4	1.0
Maturity Group VI											
Bayer	CZ 6060 RY	**42.2**	.	38.9	.	**24.6**	.	68.0	.	43.4	.
Dyna-Gro	S65RY73	38.4	**55.5**	33.8	36.1	19.5	**39.9**	**77.7**	**66.0**	42.4	**49.4**
Meherrin	SH 6515 LL	**40.7**	.	**47.5**	.	**23.0**	.	**75.2**	.	**46.6**	.
Monsanto	AG69X6 RR2 XTEN	**40.5**	.	**49.9**	.	16.2	.	**74.2**	.	**45.2**	.
NK	S67-B7	**41.9**	.	**46.1**	.	**23.0**	.	**81.4**	.	**48.1**	.
Pioneer	P67T25R2	36.1	**49.3**	**42.8**	**39.5**	15.5	**39.7**	59.7	**57.1**	38.5	**46.4**
Public Variety	Musen	**45.4**	**51.5**	**44.5**	**42.4**	18.4	**41.2**	71.1	**62.9**	44.8	**49.5**
SS	LL 6314S	39.0	.	**50.1**	.	19.4	.	72.6	.	**45.3**	.
TA Seeds	TS6569R2	31.6	**45.4**	39.5	**38.2**	17.7	**37.9**	65.1	**60.3**	38.5	**45.5**
Winfield	RX 6966	43.1	.	39.0	.	20.6	.	63.7	.	41.6	.
Average		39.9	50.4	43.2	39.1	19.8	39.7	70.9	61.6	43.4	47.7
LSD at 10% Level		5.1	N.S.	8.9	N.S.	3.2	N.S.	8.1	N.S.	3.2	N.S.
Std. Err. of Entry Mean		2.1	2.1	3.6	2.2	1.3	1.8	3.3	2.2	1.4	1.0
Maturity Group VII & VIII											
AGSouth	AGS 738 RR	**40.1**	**44.3**	41.4	**38.6**	19.0	**41.0**	**73.3**	65.2	**43.4**	47.3
AGSouth	AGS 828 RR	**44.4**	**50.4**	41.0	**39.0**	**20.3**	**42.2**	68.6	59.2	**43.6**	47.7
AGSouth	AGS Woodruff	**38.5**	**48.2**	40.8	**40.6**	**20.3**	**43.4**	60.3	55.8	40.0	47.0
Bayer	CZ 7007 LL	**38.4**	.	43.3	.	18.0	.	62.7	.	40.6	.
Dyna-Gro	S72RS36	**44.9**	.	40.6	.	19.5	.	71.8	.	**44.2**	.
NK	S74-M3	**42.5**	**48.9**	**51.7**	**47.5**	**21.9**	**43.1**	**81.5**	**71.8**	**49.4**	**52.8**
Pioneer	P76T54R2	**40.7**	.	**52.1**	.	**21.5**	.	**79.8**	.	**48.5**	.
Public Variety	Santee	**34.6**	**44.5**	36.4	**38.1**	**21.9**	**42.1**	69.0	61.7	40.5	46.6
SS	SS 7215NS R2	**44.8**	.	37.0	.	**20.2**	.	**73.7**	.	**43.9**	.
USG	7756XT	**40.5**	.	42.2	.	18.3	.	66.3	.	41.8	.
Average		41.0	47.3	42.7	40.7	20.1	42.4	70.7	62.7	43.6	48.3
LSD at 10% Level		N.S.	N.S.	8.4	N.S.	2.2	N.S.	8.9	6.2	6.9	4.0
Std. Err. of Entry Mean		4.3	1.9	3.4	1.6	0.9	2.3	3.6	1.8	2.9	1.7

Summary of Dryland Soybean Variety Performance at Four Locations, 2016 (Continued)

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, 2016

Company or Brand Name	Variety	Yield[1] South[2] 2016	South[2] 2-Year Average	North[3] 2016	North[3] 2-Year Average	Statewide 2016	Statewide 2-Year Average
		bu/acre					
Maturity Group V							
AGSouth	AGS 568RR	44.3	**49.5**	32.5	**45.0**	41.3	**48.3**
Dyna-Gro	39RY57	**51.9**	.	32.0	.	**46.9**	.
Dyna-Gro	S56RY84	41.9	.	28.9	.	38.6	.
NK	S58-Z4	41.6	.	**35.2**	.	40.0	.
Pioneer	P54T94R	44.6	.	**37.1**	.	42.7	.
Public Variety	Osage	44.1	**49.7**	31.7	49.7	41.0	**49.7**
SS	SS 5615NR2	42.9	.	**37.6**	.	41.6	.
Terral Seed	REV®56R63™ Brand	40.7	**47.9**	**36.5**	**48.3**	39.6	**48.0**
Terral Seed	REV®57R21™ Brand	40.1	**47.0**	**38.9**	**49.8**	39.8	**47.7**
UARK	UA 5612	39.7	**47.3**	30.8	**51.4**	37.5	**48.4**
Average		43.2	48.3	34.1	48.8	40.9	48.4
LSD at 10% Level		4.2	N.S.[4]	6.1	N.S.	3.5	N.S.
Std. Err. of Entry Mean		1.8	1.0	2.5	2.8	0.4	1.0
Maturity Group VI							
Bayer	CZ 6060 RY	43.8	.	**42.2**	.	43.4	.
Dyna-Gro	S65RY73	43.7	**47.4**	**38.4**	**55.5**	42.4	**49.4**
Meherrin	SH 6515 LL	**48.6**	.	**40.7**	.	**46.6**	.
Monsanto	AG69X6 RR2 XTEND	**46.8**	.	**40.5**	.	**45.2**	.
NK	S67-B7	**50.2**	.	**41.9**	.	**48.1**	.
Pioneer	P67T25R2	39.3	**45.4**	**36.1**	**49.3**	38.5	**46.4**
Public Variety	Musen	44.7	**48.8**	**45.4**	**51.5**	44.8	**49.5**
SS	LL 6314S	**47.4**	.	**39.0**	.	**45.3**	.
TA Seeds	TS6569R2	40.8	**45.5**	**31.6**	**45.4**	38.5	**45.5**
Winfield	RX 6966	41.1	.	**43.1**	.	41.6	.
Average		44.6	46.8	39.9	50.4	43.4	47.7
LSD at 10% Level		4.0	N.S.	N.S.	N.S.	3.2	N.S.
Std. Err. of Entry Mean		1.7	1.2	2.1	2.1	1.4	1.0
Maturity Groups VII and VIII							
AGSouth	AGS 738 RR	44.6	48.2	**40.1**	**44.3**	43.4	47.3
AGSouth	AGS 828 RR	43.3	46.8	**44.4**	**50.4**	43.6	47.7
AGSouth	AGS Woodruff	40.5	46.6	**38.5**	**48.2**	40.0	47.0
Bayer	CZ 7007 LL	41.3	.	**38.4**	.	40.6	.
Dyna-Gro	S72RS36	44.0	.	**44.9**	.	44.2	.
NK	S74-M3	**51.7**	**54.1**	**42.5**	**48.9**	**49.4**	**52.8**
Pioneer	P76T54R2	**51.1**	.	**40.7**	.	**48.5**	.
Public Variety	Santee	42.5	47.3	**34.6**	**44.5**	40.5	46.6
SS	SS 7215NS R2	43.6	.	**44.8**	.	43.9	.
USG	7756XT	42.3	.	**40.5**	.	41.8	.
Average		44.5	48.6	40.9	47.3	43.6	48.3
LSD at 10% Level		1.7	2.3	N.S.	N.S.	3.9	2.1
Std. Err. of Entry Mean		4.0	1.0	4.3	1.9	1.7	0.9

Regional Summary of Dryland Soybean Variety Performance, 2016 (Continued)

1. Yields calculated at 13% moisture.
2. Midville, Plains and Tifton.
3. Griffin.
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, 2016

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
AGSouth	AGS 568RR	**67.5**	2	77.8	09/26	31	2.3	15.0	1.5	1.0
Public Variety	Osage	**61.4**	4[T]	67.6	09/24	25	1.7	13.1	1.5	1.0
Terral Seed	REV®56R63™ Brand	**61.2**	7	60.6	09/28	33	1.0	14.1	1.5	1.0
Terral Seed	REV®57R21™ Brand	**59.6**	5	63.5	09/24	39	1.7	14.2	1.7	1.0
UARK	UA 5612	**58.3**	9	58.4	09/26	31	1.0	13.5	1.5	1.0
Dyna-Gro	39RY57	.	1	**88.0**	09/28	31	1.8	16.9	1.8	1.0
Pioneer	P54T94R	.	3	70.1	09/24	29	1.3	14.1	1.7	1.0
SS	SS 5615N R2	.	4[T]	67.6	09/25	31	1.7	14.5	1.5	1.0
Dyna-Gro	S56RY84	.	6	62.6	09/27	31	1.3	13.5	1.7	1.0
NK	S58-Z4	.	8	60.3	10/04	29	1.0	14.0	1.5	1.0
Average		61.6		67.6[5]	09/26	31	1.5	14.3	1.6	1.0
LSD at 10% Level		N.S.[6]		7.3	.	2	N.S.	2.8	N.S.	.
Std. Err. of Entry Mean		2.1		3.0	.	1	0.6	0.4	0.2	.
Maturity Group VI										
Dyna-Gro	S65RY73	**66.0**	2	**77.7**	10/13	29	1.3	13.4	1.8	1.0
Public Variety	Musen	**62.9**	6	71.1	10/12	39	1.7	15.1	1.5	1.0
TA Seeds	TS6569R2	**60.3**	8	65.1	10/05	31	1.3	14.9	2.0	1.0
Pioneer	P67T25R2	**57.1**	10	59.7	10/12	37	1.3	15.5	1.7	1.0
NK	S67-B7	.	1	**81.4**	10/08	33	1.0	15.0	1.5	1.0
Meherrin	SH 6515 LL	.	3	**75.2**	10/09	30	1.0	16.1	6.0	1.0
Monsanto	AG69X6 RR2 XTEND	.	4	**74.2**	10/17	37	1.0	14.9	1.8	1.0
SS	LL 6314S	.	5	72.6	10/15	37	1.3	15.4	1.7	1.0
Bayer	CZ 6060 RY	.	7	68.0	09/28	28	1.0	14.9	1.5	1.0
Winfield	RX 6966	.	9	63.7	10/15	30	1.0	14.0	1.8	1.0
Average		61.6		70.9[7]	10/10	33	1.2	14.9	2.1	1.0
LSD at 10% Level		N.S.		8.1	.	3	N.S.	N.S.	N.S.	.
Std. Err. of Entry Mean		2.2		3.3	.	1	0.2	0.7	1.4	.
Maturity Group VII and VIII										
NK	S74-M3	**71.8**	1	**81.5**	10/14	36	1.0	17.2	1.5	1.0
AGSouth	AGS 738 RR	65.2	4	**73.3**	10/13	34	1.0	14.4	1.5	1.0
Public Variety	Santee	61.7	6	69.0	10/14	39	1.3	14.7	2.0	1.0
AGSouth	AGS 828 RR	59.2	7	68.6	10/17	36	1.3	13.9	1.7	1.0
AGSouth	AGS Woodruff	55.8	10	60.3	10/15	35	3.0	15.2	2.2	1.0
Pioneer	P76T54R2	.	2	**79.8**	10/17	38	1.0	13.2	2.3	1.0
SS	SS 7215NS R2	.	3	**73.7**	10/15	35	1.0	17.6	1.5	1.0
Dyna-Gro	S72RS36	.	5	71.8	10/14	36	1.0	17.3	2.0	1.0
USG	7756XT	.	8	66.3	10/17	38	1.0	15.7	2.3	1.0
Bayer	CZ 7007 LL	.	9	62.7	10/13	37	1.0	15.2	2.2	1.0
Average		62.7		70.7[8]	10/14	36	1.3	15.4	1.9	1.0
LSD at 10% Level		6.2		8.9	.	2	0.4	0.7	N.S.	.
Std. Err. of Entry Mean		1.8		3.6	.	1	0.2	0.3	0.3	.

Tifton, Georgia:
Dryland Soybean Variety Performance, 2016 (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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 7.6% and df for EMS = 18.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 8.0% and df for EMS = 18.
8. CV = 6.3% 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 23, 2016.
Harvested:	October 10, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = Medium, and pH = 6.3.
Fertilization:	0 lb N, 0 lb P_2O_5, and 80 lb K_2O/acre.
Previous Crop:	Wheat cover.
Management:	Disked, subsoiled/bedded, and rototilled; Warrant, Select, Basagran, Classic, Ultra Blazer, and Reflex used for weed control; Blackhawk, Bifenthrin, and Belt used for insect control; Telone II used for nematode control; Domark used for fungal control.

Test conducted by R. Brooke, D. Dunn, and G. South.

Plains, Georgia:
Dryland Soybean Variety Performance, 2016

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
Public Variety	Osage	**52.3**	1	**36.0**	09/16	34	1.0	10.6	1.7	.
UARK	UA 5612	**51.6**	4	32.3	09/15	39	1.7	9.5	1.7	.
Terral Seed	REV®56R63™ Brand	**49.6**	5	29.6	09/18	44	1.0	10.2	1.8	.
AGSouth	AGS 568RR	**47.9**	9	26.1	09/19	38	1.0	10.2	1.8	.
Terral Seed	REV®57R21™ Brand	**47.8**	8	26.9	09/19	44	2.7	9.8	2.5	.
Pioneer	P54T94R		2	**34.1**	09/14	34	1.0	11.3	2.2	
SS	SS 5615N R2	.	3	**33.3**	09/17	37	1.0	10.9	2.2	.
Dyna-Gro	S56RY84	.	6	28.7	09/16	40	1.0	9.5	1.8	.
Dyna-Gro	39RY57	.	7	27.9	09/14	37	1.3	10.3	2.2	.
NK	S58-Z4	.	10	19.0	09/23	38	1.0	10.3	1.5	.
Average		49.8		29.4[5]	09/17	38	1.3	10.3	1.9	.
LSD at 10% Level		N.S.[6]		3.1	.	2	0.4	0.7	0.4	.
Std. Err. of Entry Mean		1.5		1.3	.	1	0.2	0.3	0.2	.
Maturity Group VI										
Public Variety	Musen	**41.2**	6	18.4	10/12	47	1.0	10.1	1.7	.
Dyna-Gro	S65RY73	**39.9**	4	19.5	09/30	37	1.0	10.6	2.8	.
Pioneer	P67T25R2	**39.7**	9	15.5	10/10	38	1.0	11.3	2.8	.
TA Seeds	TS6569R2	**37.9**	7	17.7	09/24	36	1.0	11.0	2.0	.
Bayer	CZ 6060 RY	.	1	**24.6**	09/23	33	1.0	11.3	1.5	.
Meherrin	SH 6515 LL	.	2[T]	**23.0**	10/07	35	1.0	12.6	2.3	.
NK	S67-B7	.	2[T]	**23.0**	09/24	37	1.0	11.5	2.0	.
Winfield	RX 6966	.	3	20.6	10/11	34	1.0	10.6	2.0	.
SS	LL 6314S	.	5	19.4	10/13	42	1.0	11.3	2.3	.
Monsanto	AG69X6 RR2 XTEND	.	8	16.2	10/11	40	1.0	10.4	2.0	.
Average		39.7		19.8[7]	10/04	38	1.0	11.1	2.2	.
LSD at 10% Level		N.S.		3.2	.	2.0	.	0.8	0.5	.
Std. Err. of Entry Mean		1.8		1.3	.	0.8	.	0.3	0.2	.
Maturity Group VII and VIII										
AGSouth	AGS Woodruff	**43.4**	3[T]	**20.3**	10/17	40	1.0	10.6	1.5	.
NK	S74-M3	**43.1**	1[T]	**21.9**	10/17	37	1.0	12.1	2.0	.
AGSouth	AGS 828 RR	**42.2**	3[T]	**20.3**	10/17	39	1.0	10.2	1.5	.
Public Variety	Santee	**42.1**	1[T]	**21.9**	10/17	45	1.0	10.6	1.5	.
AGSouth	AGS 738 RR	**41.0**	6	19.0	10/17	36	1.0	10.3	1.5	.
Pioneer	P76T54R2	.	2	**21.5**	10/17	41	1.0	9.2	1.5	.
SS	SS 7215NS R2	.	4	**20.2**	10/17	37	1.0	11.4	2.0	.
Dyna-Gro	S72RS36	.	5	19.5	10/17	38	1.0	10.8	2.2	.
USG	7756XT	.	7	18.3	10/17	41	1.0	10.2	2.0	.
Bayer	CZ 7007 LL	.	8	18.0	10/17	38	1.0	12.0	1.5	.
Average		42.4		20.1[8]	10/17	39	1.0	10.8	1.7	.
LSD at 10% Level		N.S.		2.2	.	2	.	0.7	0.2	.
Std. Err. of Entry Mean		2.3		0.9	.	1	.	0.3	0.1	.

Plains, Georgia:
Dryland Soybean Variety Performance, 2016 (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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 7.5% and df for EMS = 18.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 11.3% and df for EMS = 18.
8. CV = 7.6% 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 1, 2016.
Harvested:	October 13, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Greenville sandy loam.
Soil Test:	P = High, K = High, and pH = 6.3.
Fertilization:	18 lb N, 46 lb P_2O_5, and 60 lb K_2O/acre.
Previous Crop:	Cotton.
Management:	Disked, subsoiled, and rototilled; Prowl, Valor, and Ultra Blazer used for weed control; Indigo and Bifinthrin used for insect control; Domark used for fungal control.

Test conducted by D. Pearch, W. Jones, R. Brooke, D. Dunn, and G. South.

Midville, Georgia:
Dryland Soybean Variety Performance, 2016

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
Public Variety	Osage	**35.3**	8	28.7	09/29	24	1.0	15.1	2.5	.
Terral Seed	REV®57R21™ Brand	**33.8**	5	29.9	10/01	33	2.0	15.9	2.2	.
AGSouth	AGS 568RR	**33.1**	7	28.9	10/02	24	1.0	17.4	2.0	.
Terral Seed	REV®56R63™ Brand	**32.9**	4	31.8	10/03	31	2.0	17.7	1.8	.
UARK	UA 5612	**32.1**	9	28.5	09/29	28	2.3	16.1	2.2	.
NK	S58-Z4	.	1	**45.3**	10/09	25	1.0	18.2	1.8	.
Dyna-Gro	39RY57	.	2	**39.7**	10/03	28	1.0	18.4	1.8	.
Dyna-Gro	S56RY84	.	3	34.2	10/01	25	1.5	17.1	2.5	.
Pioneer	P54T94R	.	6	29.6	10/01	23	1.0	17.5	2.0	.
SS	SS 5615N R2	.	10	27.7	09/30	25	1.0	16.7	1.7	.
Average		33.5		32.4[5]	10/01	27	1.4	17.0	2.1	.
LSD at 10% Level		N.S.[6]		10.5	.	4	0.8	1.7	N.S	.
Std. Err. of Entry Mean		1.6		4.3	.	2	0.3	0.7	0.3	.
Maturity Group VI										
Public Variety	Musen	**42.4**	5	**44.5**	10/20	27	1.7	16.6	1.5	.
Pioneer	P67T25R2	**39.5**	6	**42.8**	10/17	29	1.0	19.0	2.0	.
TA Seeds	TS6569R2	**38.2**	7	39.5	10/12	27	1.3	18.2	1.7	.
Dyna-Gro	S65RY73	**36.1**	10	33.8	10/15	25	1.0	15.2	2.0	.
SS	LL 6314S	.	11	**50.1**	10/20	31	1.0	17.7	1.7	.
Monsanto	AG69X6 RR2 XTEND	.	2	**49.9**	10/19	29	1.0	17.3	1.8	.
Meherrin	SH 6515 LL	.	3	**47.5**	10/16	25	1.0	19.9	1.5	.
NK	S67-B7	.	4	**46.1**	10/10	26	1.0	18.7	1.5	.
Winfield	RX 6966	.	8	39.0	10/19	22	1.0	17.1	2.0	.
Bayer	CZ 6060 RY	.	9	38.9	10/03	23	1.0	19.4	1.5	.
Average		39.1		43.2[7]	10/15	27	1.1	17.9	1.7	.
LSD at 10% Level		N.S.		8.9	.	3	0.4	1.0	0.3	.
Std. Err. of Entry Mean		2.2		3.6	.	1	0.1	0.4	0.1	.
Maturity Group VII and VIII										
NK	S74-M3	**47.5**	2	**51.7**	10/19	28	1.0	19.9	1.7	.
AGSouth	AGS Woodruff	**40.6**	7	40.8	10/19	27	2.7	19.2	1.8	.
AGSouth	AGS 828 RR	**39.0**	6	41.0	10/21	25	1.0	15.7	1.5	.
AGSouth	AGS 738 RR	**38.6**	5	41.4	10/17	25	1.0	16.9	1.5	.
Public Variety	Santee	**38.1**	10	36.4	10/20	29	1.0	16.3	1.5	.
Pioneer	P76T54R2	.	1	**52.1**	10/19	27	1.0	14.6	1.7	.
Bayer	CZ 7007 LL	.	3	43.3	10/16	27	1.0	16.9	1.5	.
USG	7756XT	.	4	42.2	10/19	31	2.0	18.3	2.0	.
Dyna-Gro	S72RS36	.	8	40.6	10/18	29	1.7	19.0	1.7	.
SS	SS 7215NS R2	.	9	37.0	10/18	27	1.0	19.7	1.5	.
Average		40.7		42.7[8]	10/18	27	1.3	17.7	1.6	.
LSD at 10% Level		N.S.		8.4	.	3	0.8	0.9	N.S.	.
Std. Err. of Entry Mean		1.6		3.4	.	1	0.4	0.4	0.1	.

Midville, Georgia:
Dryland Soybean Variety Performance, 2016 (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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 23.0% and df for EMS = 18.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 14.5% and df for EMS = 18.
8. CV = 13.9% 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, 2016.
Harvested:	November 3, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = High, K = High, and pH = 6.0.
Fertilization:	30 lb N, 30 lb P_2O_5, and 80 lb K_2O/acre. Appliec 1000 lb lime/acre.
Previous Crop:	Cotton.
Management:	Disked, field conditioned, and subsoiled/bedded; Pendimethalin, Valor, Gramoxone, and Warrant used for weed control; Double Take and Belt used for insect control; Telone II used for nematode control; Tebuconazole and Tracer used for fungal control.

Test conducted by R. Brooke, D. Dunn, and G. South.

Griffin, Georgia:
Dryland Soybean Variety Performance, 2016

Company or Brand Name	Variety	2-Year Average Yield	2016 Data							
			Rank	Yield[1]	Maturity	Plant Ht	Lodg.[2]	Wt of 100 Seed	Seed Quality[3]	Shatt.[4]
		bu/acre		bu/acre	date	in	rating	gm	rating	rating
Maturity Group V										
UARK	UA 5612	**51.4**	9	30.8	09/29	36	1.0	13.1	1.8	2.7
Terral Seed	REV®57R21™ Brand	**49.8**	1	**38.9**	10/03	47	2.0	15.7	1.8	2.0
Public Variety	Osage	**49.7**	8	31.7	09/25	30	1.0	13.8	1.5	3.3
Terral Seed	REV®56R63™ Brand	**48.3**	4	**36.5**	10/05	39	1.3	14.3	2.0	1.7
AGSouth	AGS 568RR	**45.0**	6	32.5	09/28	35	1.3	15.6	1.5	3.7
SS	SS 5615N R2	.	2	**37.6**	09/30	32	1.0	14.4	1.8	2.0
Pioneer	P54T94R	.	3	**37.1**	10/01	32	1.0	14.8	1.5	2.7
NK	S58-Z4	.	5	**35.2**	10/06	34	1.0	16.0	1.5	1.3
Dyna-Gro	39RY57	.	7	32.0	09/26	33	1.0	14.3	1.8	2.0
Dyna-Gro	S56RY84	.	10	28.9	10/01	33	1.0	14.0	1.5	3.0
Average		48.8		34.1[5]	09/30	35	1.2	14.6	1.7	2.4
LSD at 10% Level		N.S.[6]		6.1	3	3	0.4	1.0	0.4	0.8
Std. Err. of Entry Mean		2.8		2.5	1	1	0.2	0.4	0.1	0.3
Maturity Group VI										
Dyna-Gro	S65RY73	**55.5**	8	38.4	10/16	30	1.0	13.8	2.0	1.0
Public Variety	Musen	**51.5**	1	**45.4**	10/21	40	1.7	14.5	1.8	1.0
Pioneer	P67T25R2	**49.3**	9	36.1	10/18	35	1.3	15.8	2.8	1.7
TA Seeds	TS6569R2	**45.4**	10	31.6	10/07	30	1.0	14.1	2.0	2.0
Winfield	RX 6966	.	2	**43.1**	10/21	31	1.0	15.0	2.0	1.0
Bayer	CZ 6060 RY	.	3	**42.2**	10/03	31	1.0	15.6	1.5	3.3
NK	S67-B7	.	4	**41.9**	10/09	34	1.3	15.6	2.3	1.0
Meherrin	SH 6515 LL	.	5	**40.7**	10/14	32	1.0	18.1	1.5	1.3
Monsanto	AG69X6 RR2 XTEND	.	6	**40.5**	10/21	34	1.0	15.1	2.0	1.3
SS	LL 6314S	.	7	39.0	10/21	37	1.0	15.4	2.3	1.3
Average		50.4		39.9[7]	10/15	33	1.1	15.3	2.0	1.5
LSD at 10% Level		N.S.		5.1	2	4	N.S,	1.6	0.6	0.6
Std. Err. of Entry Mean		2.1		2.1	1	2	0.2	0.6	0.2	0.2
Maturity Group VII and VIII										
AGSouth	AGS 828 RR	**50.4**	3	**44.4**	10/27	26	1.0	14.1	1.5	1.0
NK	S74-M3	**48.9**	4	**42.5**	10/25	26	1.0	17.0	1.5	1.0
AGSouth	AGS Woodruff	**48.2**	8	**38.5**	10/27	27	1.0	15.4	1.5	1.0
Public Variety	Santee	**44.5**	10	**34.6**	10/26	29	1.0	14.0	1.5	1.0
AGSouth	AGS 738 RR	**44.3**	7	**40.1**	10/25	25	1.0	13.9	1.5	1.0
Dyna-Gro	S72RS36	.	1	**44.9**	10/24	28	1.0	15.9	1.5	1.0
SS	SS 7215NS R2	.	2	**44.8**	10/23	23	1.0	17.2	1.5	1.0
Pioneer	P76T54R2	.	5	**40.7**	10/25	24	1.0	12.6	1.5	1.0
USG	7756XT	.	6	**40.5**	10/23	30	1.0	15.0	1.5	1.0
Bayer	CZ 7007 LL	.	9	**38.4**	10/22	30	1.0	14.8	1.5	1.0
Average		47.3		41.0[8]	10/24	27	1.0	15.0	1.5	1.0
LSD at 10% Level		N.S.		N.S.	3	4	.	1.3	.	.
Std. Err. of Entry Mean		1.9		4.3	1	2	.	0.5	.	.

Griffin, Georgia:
Dryland Soybean Variety Performance, 2016 (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. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 12.6% and df for EMS = 18.
6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
7. CV = 15.1% and df for EMS = 18.
8. CV = 18.3% 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 - May 24, 2016. Maturity Group VII & VIII - June 27, 2016.
Harvested:	Maturity Group V - October 20, 2016. Maturity Group VI - October 29, 2016. Maturity Group VII & VIII - November 3, 2016.
Seeding Rate:	Eight seeds per foot in 30" rows.
Soil Type:	Cecil clay loam.
Soil Test:	P = Very High, K = Very High, and pH = 5.7.
Fertilization:	30 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre. Applied 1500 lb lime/acre.
Previous Crop:	Sorghum.
Management:	Maturity Groups V and VII - Chisel plowed, disked, and rototilled; Trefland, Basagran and Blazer used for weed control; Bifenthrin used for insect control. Maturity Group VII & VIII - Chisel plowed, disked, and rototilled with one cultivation; Treflan, Basagran, and Blazer used for weed control; Bifenthrin used for insect control.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2016

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern[1]	Peanut[2]	Javanese[3]	Race 3[4]	Race 9[5]
			rating[6]		reaction[7]	
AgSouth	AGS 537LL	5.0	4.3	5.0	S	S
AgSouth	AGS 568RR	1.0	1.3	1.0	R	R
AgSouth	AGS 738 RR	1.0	1.3	2.0	R	S
AgSouth	AGS 828 RR	1.0	1.5	2.8	R	R
AgSouth	AGS EXP 6900	1.0	5.0	5.0	S	S
AgSouth	AGS Woodruff	1.0	1.0	2.0	R	S
Bayer	CZ 4818 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5147 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5225 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5242 LL	1.0	2.3	1.0	R	R
Bayer	CZ 5375 RY	1.0	1.3	1.3	R	R
Bayer	CZ 5445 LL	1.0	1.0	1.0	R	R
Bayer	CZ 5515 LL	1.0	2.3	1.0	R	S
Bayer	CZ 6060 RY	1.0	2.5	1.0	R	R
Bayer	CZ 6109 LL	1.0	1.0	1.0	R	R
Bayer	CZ 6316 LL	1.3	1.0	1.0	R	R
Bayer	CZ 7007 LL	1.0	3.8	1.0	R	R
Bayer	CZ 7132 LL	1.0	1.3	1.0	R	R
Dyna-Gro	39RY57	1.3	5.0	5.0	S	S
Dyna-Gro	S56RY84	3.5	5.0	5.0	R	R
Dyna-Gro	S65RY73	2.3	5.0	5.0	R	M
Dyna-Gro	S67RY25	1.0	3.0	5.0	S	S
Dyna-Gro	S69XT57	1.0	5.0	5.0	S	S
Dyna-Gro	S72RS36	4.5	5.0	5.0	S	S
Dyna-Gro	S75XT26	1.0	3.0	5.0	S	S
Meherrin	SH 5215 LL	5.0	4.0	5.0	S	S
Meherrin	SH 5915 LL	5.0	4.0	4.8	R	S
Meherrin	SH 6215 LL	2.3	5.0	5.0	S	S
Meherrin	SH 6515 LL	5.0	4.5	5.0	S	S
Meherrin	SH 6815 LL	5.0	4.8	4.8	S	S
Meherrin	SH 7116 LL	4.8	5.0	5.0	S	S
Monsanto	AG53X6 RR2 XTEND	1.5	5.0	5.0	R	S
Monsanto	AG54X6 RR2 XTEND	5.0	5.0	4.3	R	S
Monsanto	AG55X7 RR2 XTEND	1.3	5.0	5.0	S	S
Monsanto	AG59X7 RR2 XTEND	4.5	5.0	5.0	S	S
Monsanto	AG69X6 RR2 XTEND	1.3	3.3	4.8	S	S
Monsanto	AG72X7 RR2 XTEND	1.3	4.8	5.0	S	S
Monsanto	AG75X6 RR2 XTEND	1.0	3.3	4.3	S	S
NK	S56-M8	1.0	1.0	1.0	R	R
NK	S58-Z4	1.0	1.0	1.3	S	S
NK	S59-A5	1.0	1.0	1.0	R	R
NK	S67-B7	1.0	1.0	1.0	R	S
NK	S69-G9	1.0	1.0	2.0	R	R
NK	S74-M3	1.0	1.0	1.5	S	S
Pioneer	P54T94R	1.0	5.0	5.0	R	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2016 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern[1]	Peanut[2]	Javanese[3]	Race 3[4]	Race 9[5]
			rating[6]		reaction[7]	
Pioneer	P55T81R	1.0	4.8	5.0	R	S
Pioneer	P56T12SR	1.0	5.0	5.0	R	R
Pioneer	P67T25R2	1.5	4.8	5.0	S	S
Pioneer	P76T54R2	1.0	5.0	5.0	S	S
Public Variety	Cook	2.3	5.0	5.0	S	S
Public Variety	Motte	1.0	3.0	3.0	R	S
SC	SC07-1490RR	1.0	4.8	5.0	R	S
SC	SC07-1518RR	1.0	5.0	5.0	S	S
SC	SC07-108RR	1.0	5.0	5.0	R	S
SC Public Variety	Cheraw	1.0	5.0	5.0	R	S
SC Public Variety	Musen	1.0	5.0	5.0	R	R
SC Public Variety	Paul	1.3	5.0	5.0	S	S
SC Public Variety	Santee	2.0	5.0	5.0	R	S
SS	LL 5914NS	5.0	4.8	4.5	R	S
SS	LL 6314S	4.5	4.8	5.0	S	S
SS	SS 5517N X	4.5	5.0	5.0	S	R
SS	SS 5615N R2	1.8	5.0	5.0	R	S
SS	SS 5917NS X	5.0	4.5	5.0	R	S
SS	SS 6917 X	1.0	4.8	5.0	S	S
SS	SS 7215NS R2	1.3	5.0	5.0	S	S
SS	SS 7516N X	1.0	3.5	5.0	S	S
TA Seeds	TS6569R2	2.0	3.8	5.0	S	S
TA Seeds	TS8059R2	1.0	5.0	4.8	S	S
Terral Seed	REV®56R63™ Brand	4.3	5.0	5.0	R	R
Terral Seed	REV®57R21™ Brand	3.8	5.0	5.0	S	S
UARK	R07-6614RR	5.0	4.8	5.0	R	S
UARK	R10-197RY	5.0	5.0	5.0	S	S
UARK	R10-230	5.0	5.0	5.0	S	S
UARK	UA 5414RR	4.8	5.0	5.0	S	S
UARK	UA 5814HP	5.0	5.0	5.0	S	S
UARK	UAX 51010C	5.0	4.3	5.0	S	S
UARK	UAX 59011C	5.0	5.0	5.0	M	S
UARK	UAX 59012C	5.0	4.8	5.0	S	S
UARK	UAX 59013C	4.0	4.3	3.5	S	S
UARK	UAX 59111C	5.0	5.0	5.0	S	S
UARK	UAX 59113GT	5.0	5.0	5.0	R	S
UARK	UAX 59313GT	5.0	4.8	1.0	S	S
UARK	UA 5612	5.0	4.8	5.0	S	S
UARK Public Variety	OSAGE	5.0	5.0	5.0	S	S
UGA	G10PR-56444R2	1.0	2.5	2.5	*	*
UGA	G11-2663R2	1.5	4.0	5.0	S	S
UGA	G11PR-56151R2	1.0	4.3	4.8	R	S
UGA	G11PR-56238R2	1.8	4.8	4.0	R	R
UGA	G12-1784R2	1.0	3.8	4.5	R	R
UGA	G12-2103R2	1.0	1.5	4.5	R	R

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2016 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern[1]	Peanut[2]	Javanese[3]	Race 3[4]	Race 9[5]
			rating[6]		reaction[7]	
UGA	G12-2259R2	1.0	2.8	4.5	R	R
UGA	G12-2731R2	1.0	4.8	5.0	S	S
UGA	G12-3107R2	1.0	5.0	5.0	S	S
UGA	G12-6515	1.0	4.5	4.5	R	S
UGA	G12-6543	1.3	2.5	4.8	R	S
UGA	G13LL-44	1.3	4.3	5.0	R	S
UGA	G13LL-7	1.0	4.3	4.0	R	S
USDA-ARS	JTN-5110	5.0	4.8	5.0	R	S
USG	75B75R	1.3	5.0	5.0	R	S
USG	7607XT	5.0	5.0	5.0	S	S
USG	7686XT	2.5	4.8	5.0	R	S
USG	76S73R	1.0	4.5	5.0	S	S
USG	7756XT	1.5	4.0	4.5	S	S
USG	77J25RS	1.5	5.0	5.0	S	S
Virginia Tech	V12-0063R2	5.0	5.0	5.0	S	S
Virginia Tech	V12-0074R2	5.0	5.0	5.0	M	M
Virginia Tech	V12-1048	4.8	5.0	5.0	S	S
Virginia Tech	V12-1376	5.0	5.0	5.0	S	S
Virginia Tech	V12-1416	4.8	5.0	5.0	S	S
Virginia Tech	V12-3684	4.8	5.0	5.0	S	S
Winfield	RX 5163	5.0	4.8	5.0	S	S
Winfield	RX 6966	1.0	5.0	5.0	S	S
Check Varieties	AGS Benning	1.0	5.0	4.8	R	S
	Boggs	1.0	2.0	3.0	R	S
	Bossier	5.0	5.0	5.0	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	*
	GaSoy17	5.0	5.0	5.0	S	S
	Hagood	1.3	4.8	5.0	R	S
	Hartwig	1.3	4.5	5.0	R	R
	Haskell	1.3	2.3	2.5	S	S
	Prichard	1.0	5.0	5.0	R	R
	LSD (0.10)	0.4	0.5	0.6		

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2016 (Continued)

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 = 30 (+), Pickett = 55 (+), PI88788 = 0 (-), PI90763 = 0 (-).
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.
   * = missing data

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

Sources of Seed for the 2016 Soybean Variety Tests

Brand or Variety Name	Company and Address
AGSouth	AGSouth Genetics, LLC, PO Box 72246, Albany, GA 31708-2246.
Asgrow	Monsanto Company, 800 North Lindbergh Blvd., St. Louis, MO 63167.
Bayer	Bayer CropScience, 607 East 44th St., Tifton, GA 31794.
Dyna-Gro	CPS Dyna-Gro Seed, 100 Industrial Court, Colquitt, GA 39837.
Meherrin	Meherrin Ag, 4020 Wake Forrest Rd., Suite 110, Raleigh, NC 27609.
NK	Syngenta Seeds, Inc., 207 Leland Ferrell Dr., Leesburg, GA 31763.
Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229..
SC	Clemson University, Pee Dee REC, 2200 Pocket Rd., Florence, SC 29506.
SS	Southern States Coop, 6606 West Broad St., Richmond, VA 23230.
TA Seeds	T.A. Seeds, 39 Seeds Lane, Jersey Shore, PA 17740.
Terral Seed	Terral Seed, Inc., 117 Ellington Dr., Rayville, LA 71269.
UARK	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701.
UGA	University of Georgia, CAGT, 111 Riverbend Rd., Athens, GA 30602.
USDA-ARS	USDA-ARS, 605 Airways Blvd., Jackson, TN 38301.
USG	UniSouth Genetics, Inc., 3205-C Hwy 49 South, Dickson, TN 37055.
Virginia Tech	Virginia Tech, 220 Ag Quad Ln., Blacksburg, VA 24060.
Winfield	Winfield Solutions, LLC, 221 Mayfield Dr., Leesburg, GA 31763.
Public Varieties	
Cook	Georgia Seed Development Commission, 2420 S. Milledge Ave., Athens, GA 30605.
Cheraw, Motte, Musen, Paul, Santee	South Carolina Crop Improvement Association, 1162 Old Cherry Road, Clemson, SC 29634.
Osage	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701.

GRAIN SORGHUM

Tifton, Georgia:
Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Weight	50% Bloom[2]	Plant Height	Lodging	Bird Damage[3]
		bu/acre	bu/acre	lb/bu	days	in	%	%
Pioneer	84P80	**144.0**	**107.1**	53.1	58	55	18	28
Pioneer	83P17	**137.5**	**104.3**	52.7	63	52	0	30
DeKalb	DKS51-01	**135.6**	.	54.6	63	50	0	34
Mehrrin Ag.	SH90G6	**135.2**	.	53.4	62	54	0	30
SS	SS 655	**130.2**	**96.5**	52.9	60	47	0	35
Sorghum Partners	SP7715	**129.0**	.	52.5	63	54	0	38
SS	SS 540	125.8	**93.2**	51.0	56	52	3	38
Sorghum Partners	NK6638	125.0	.	49.4	60	55	0	55
Southern States	SS EXP 45913	121.7	.	52.9	59	53	0	35
Gayland Ward	GW 9417	120.1	**86.2**	49.3	62	51	0	50
DeKalb	DKS 37-07	118.8	.	50.8	57	49	0	50
SS	SS 800	116.7	**86.5**	51.2	60	50	0	38
Athens	105	115.4	.	54.0	59	52	4	38
Alta Seeds	AG1203	112.6	**87.6**	51.6	58	47	0	33
Mehrrin Ag.	SH80G4	109.9	.	51.9	59	53	4	43
Sorghum Partners	SP78M30	108.9	.	50.4	67	46	0	28
Mehrrin Ag.	SH65G6	107.8	.	51.3	56	52	26	34
Southern States	SS 1592GS	107.0	.	51.2	61	50	4	28
Mehrrin Ag.	SH47G4	105.3	.	50.3	47	48	8	35
Alta Seeds	AG2103	104.3	80.3	51.7	60	49	0	42
Chromatin Inc	CHROL2042	103.3	.	51.0	64	51	0	30
Southern States	SS EXP 021913	103.0	.	51.2	54	54	13	38
Alta Seeds	AG3201	101.9	85.3	48.6	59	53	3	43
Mehrrin Ag.	SH59G4	99.6	.	49.7	58	45	0	41
Alta Seeds	AG2105	89.6	74.1	49.6	60	51	0	45
Sorghum Partners	SP7868	88.8	.	52.5	64	47	0	32
Chromatin Inc	CHROL0029	87.1	.	51.3	65	46	0	28
Average		114.2 [4]	90.1	51.5	60	50	3	37
LSD at 10% Level		16.2	21.0	2.6	1	4	7	10
Std. Err. of Enty Mean		6.9	8.9	1.1	1	2	3	4

Tifton, Georgia:
Grain Sorghum Hybrid Performance, 2016, Nonirrigated
(Continued)

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1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent grain head damaged.
4. CV = 12.1% and df for EMS = 78.

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

Planted:	April 28, 2016.
Harvested:	August 15, 2016.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Tifton sandy loam.
Soil Test:	P = High, K = Medium, and pH = 6.3.
Fertilization:	Preplant: 50 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre. Sidedress: 60 lb N/acre.
Previous Crop:	Fallow.
Management:	Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control; Telone II used for nematode control.

Test conducted by R. Brooke, D. Dunn, and G. Smith.

Tifton, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Weight	50% Bloom[2]	Plant Height	Lodging
		bu/acre	bu/acre	lb/bu	days	in	%
Desert Sun	DSM 40-920	**95.1**	.	55.0	56	51	31
SS	SS 540	**90.7**	**92.6**	53.8	55	52	31
Southern States	SS EXP 45913	**90.4**	.	55.5	57	55	13
Pioneer	83P17	**89.9**	**93.4**	42.8	60	53	73
Southern States	SS EXP 021913	**89.7**	.	51.5	55	51	65
Mehrrin Ag	SH59G4	**89.5**	.	57.0	55	53	16
Desert Sun	DSM 7-502	**88.4**	.	55.6	57	49	38
Mehrrin Ag	SH65G6	78.0	.	53.2	57	49	46
Mehrrin Ag	SH80G4	76.9	.	53.1	57	54	34
Southern States	SS 1592GS	75.0	.	52.0	55	53	24
Athens	105	75.0	.	51.6	56	55	56
DeKalb	DKS51-01	74.2	.	52.9	60	54	54
DeKalb	DKS 37-07	72.9	.	44.4	55	51	63
Desert Sun	DSM 45-480	72.7	.	45.5	53	48	79
Pioneer	84P80	71.2	72.7	47.0	59	47	61
Alta Seeds	AG2105	71.0	82.7	52.3	57	53	26
Mehrrin Ag	SH90G6	67.6	.	52.9	61	54	18
Alta Seeds	AG3201	65.6	64.8	49.9	54	51	50
Desert Sun	DSM 15-539	60.8	.	43.5	53	49	28
Alta Seeds	AG1203	58.4	55.9	40.8	57	53	35
Gayland Ward	GW 9417	55.9	60.5	46.5	58	54	80
Mehrrin Ag	SH47G4	53.0	.	45.1	41	41	10
SS	SS 655	41.3	41.5	48.6	57	49	9
SS	SS 800	41.0	55.4	46.1	55	47	18
Alta Seeds	AG2103	33.3	33.1	47.7	57	49	13
Average		71.1 [3]	65.3	49.8	56	51	39
LSD at 10% Level		12.0	7.8	2.9	1	2	23
Std. Err. of Entry Mean		5.1	3.3	1.2	1	1	10

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 14.3% and df for EMS = 72.

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

Planted: June 17, 2016.
Harvested: September 22, 2016.
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: 60 lb N, 70 lb P_2O_5, and 60 lb K_2O/acre. Sidedress: 60 lb N/acre.
Previous Crop: Grain sorghum.
Management: Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control; Telone II used for insect control.

Test conducted by R. Brooke, D. Dunn, and G. South.

Plains, Georgia:
Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Weight	50% Bloom[2]	Plant Height	Lodging	Bird Damage[3]
		bu/acre	bu/acre	lb/bu	days	in	%	%
Alta Seeds	AG1203	**127.1**	**102.2**	50.3	51	40	1	38
Athens	105	**119.6**	.	52.6	60	41	0	38
Mehrrin Ag.	SH65G6	118.1	.	53.8	53	45	0	31
DeKalb	DKS 37-07	116.8	.	51.1	51	39	0	26
Sorghum Partners	SP7868	115.8	.	54.2	63	45	0	42
Southern States	SS EXP 45913	114.2	.	52.2	58	42	0	32
DeKalb	DKS51-01	114.2	.	53.7	61	42	0	36
Pioneer	83P17	110.2	**97.8**	48.5	63	45	0	38
Sorghum Partners	SP78M30	107.1	.	47.5	62	41	0	41
Chromatin Inc	CHROL2042	107.0	.	51.0	59	40	1	32
Alta Seeds	AG2105	106.2	92.6	51.4	58	43	1	37
Mehrrin Ag.	SH80G4	105.2	.	52.9	60	42	0	29
Mehrrin Ag.	SH59G4	104.8	.	52.6	56	42	0	33
Southern States	SS EXP 021913	104.6	.	51.5	53	44	0	28
SS	SS 655	104.1	91.2	52.2	59	39	3	32
Pioneer	84P80	104.0	**97.6**	50.0	59	41	4	24
Mehrrin Ag.	SH90G6	102.6	.	50.8	61	46	0	35
Southern States	SS 1592GS	102.4	.	48.8	53	42	0	18
SS	SS 540	102.3	86.2	52.1	57	43	0	34
Alta Seeds	AG2103	102.1	**95.1**	51.1	58	38	0	38
Sorghum Partners	SP7715	98.9	.	51.2	63	41	1	32
Chromatin Inc	CHROL0029	98.5	.	51.2	63	44	0	27
Sorghum Partners	NK6638	98.0	.	47.4	61	41	0	36
Alta Seeds	AG3201	96.7	90.6	48.1	61	38	0	31
Gayland Ward	GW 9417	92.1	81.9	50.6	62	43	0	33
Mehrrin Ag.	SH47G4	90.7	.	49.2	45	41	8	26
SS	SS 800	83.4	79.7	45.2	61	40	0	38
Average		105.4 [4]	91.5	50.8	58	42	1	33
LSD at 10% Level		8.7	8.4	2.0	1	2	2	6
Std. Err. of Entry Mean		3.7	3.6	0.9	1	1	1	3

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent grain head damaged.
4. CV = 7.1% and df for EMS = 78.

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

Planted: April 26, 2016.
Harvested: August 17, 2016.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = High, and pH = 6.3.
Fertilization: Preplant: 18 lb N, 46 lb P_2O_5, and 60 lb K_2O/acre. Sidedress: 55 lb N/acre.
Previous Crop: Soybeans.
Management: Disked twice, chisel plowed, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control; applied 1000 lb/acre lime.

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, and G. South.

Plains, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Wt.	50% Bloom[2]	Plant Ht.	Lodging	Bird Damage[3]
		bu/acre	bu/acre	lb/bu	days	in	%	%
Mehrrin Ag	SH65G6	**69.3**	.	56.7	55	47	0	8
Desert Sun	DSM 40-920	**66.7**	.	56.0	53	46	1	0
Desert Sun	DSM 7-502	**64.7**	.	56.6	52	47	0	0
Southern States	SS EXP 021913	**63.6**	.	56.5	56	46	0	13
Southern States	SS EXP 45913	60.7	.	55.6	54	47	0	14
DeKalb	DKS 37-07	58.7	.	52.6	49	47	0	19
Desert Sun	DSM 45-480	57.7	.	54.0	47	51	54	21
Mehrrin Ag	SH59G4	56.9	.	55.8	56	46	0	3
Athens	105	54.0	.	52.5	55	47	1	7
SS	SS 540	53.2	**59.9**	55.5	56	46	0	7
Gayland Ward	GW 9417	49.6	49.5	54.9	54	52	21	22
Alta Seeds	AG2105	47.1	44.4	52.1	54	48	3	9
Alta Seeds	AG3201	46.6	45.8	53.3	49	49	43	25
DeKalb	DKS51-01	43.4	.	52.7	61	51	0	0
Alta Seeds	AG1203	42.6	41.3	49.9	54	46	0	13
Mehrrin Ag	SH80G4	41.7	.	53.2	58	47	0	3
Pioneer	83P17	40.8	**55.7**	49.7	54	47	1	10
Mehrrin Ag	SH47G4	40.7	.	45.3	42	46	9	38
Pioneer	84P80	35.6	46.8	53.2	55	47	0	11
Southern States	SS 1592GS	35.1	.	52.1	52	46	3	0
SS	SS 800	34.5	47.5	49.9	49	46	1	21
Desert Sun	DSM 15-539	32.7	.	47.7	45	45	28	32
Mehrrin Ag	SH90G6	27.9	.	49.3	62	51	0	0
SS	SS 655	22.6	28.3	46.4	56	42	0	13
Alta Seeds	AG2103	16.3	24.1	53.2	56	41	0	0
Average		46.5 [4]	44.3	52.6	53	47	7	11
LSD at 10% Level		6.9	7.2	1.6	-	2	10	8
Std. Err. of Entry Mean		2.9	3.1	0.7	-	1	4	3

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent grain head damaged.
4. CV = 12.7% and df for EMS = 72.

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

Planted: First time: June 21, 2016. Second time: July 18, 2016.
Harvested: October 19, 2016.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = High, and pH = 6.3.
Fertilization: Preplant: 18 lb N, 46 lb P_2O_5, and 60 lb K_2O/acre. Sidedress: 55 lb N/acre.
Previous Crop: Soybeans.
Management: Disked twice, chisel plowed, and rototilled; Dual Magnum used for weed control; Savanto used for insect control.

Test conducted by D. Pearce, W. Jones, R. Brooke, D. Dunn, and G. South.

Griffin, Georgia:
Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Wt.	50% Bloom[2]	Plant Ht.	Lodging	Bird Damage[3]
		bu/acre	bu/acre	lb/bu	days	in	%	%
Pioneer	83P17	**83.1**	**93.8**	52.9	70	40	13	9
DeKalb	DKS51-01	**76.5**	.	57.8	67	44	0	9
Pioneer	84P80	68.3	**81.4**	54.8	67	38	8	3
Alta Seeds	AG2105	65.7	**88.6**	53.8	63	40	0	9
Alta Seeds	AG2103	62.3	**80.5**	56.0	65	36	0	4
Alta Seeds	AG3201	61.4	76.6	54.9	65	40	0	6
Mehrrin Ag.	SH90G6	58.2	.	56.3	68	42	0	8
SS	SS 800	58.1	78.6	54.0	64	38	0	13
Southern States	SS EXP 45913	57.2	.	56.3	64	41	0	8
Athens	105	54.9	.	56.5	64	40	0	10
SS	SS 540	54.6	55.3	54.3	63	37	0	8
Gayland Ward	GW 9417	52.1	**81.5**	56.4	67	43	0	11
Mehrrin Ag.	SH80G4	51.9	.	56.7	65	39	0	4
Alta Seeds	AG1203	51.7	78.9	56.1	63	35	0	15
SS	SS 655	51.5	69.3	55.8	65	37	0	7
Mehrrin Ag.	SH59G4	49.6	.	54.4	61	38	0	5
Southern States	SS EXP 021913	49.0	.	50.7	60	39	0	5
Mehrrin Ag.	SH65G6	49.0	.	54.9	62	34	0	13
DeKalb	DKS 37-07	48.3	.	54.2	61	34	0	9
Southern States	SS 1592GS	47.7	.	55.4	62	37	0	2
Average		57.6 [4]	78.4	55.1	64	38	1	8
LSD at 10% Level		9.7	14.7	2.3	2	3	N.S.[5]	6
Std. Err. of Entry Mean		4.1	6.2	1.0	1	1	3	2

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent grain head damaged.
4. CV = 14.2% and df for EMS = 57.
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: May 15, 2016.
Harvested: September 1, 2016.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Pacolet sandy loam.
Soil Test: P = High, K = Very High, and pH = 6.3.
Fertilization: Preplant: 40 lb N, 80 lb P_2O_5, and 120 lb K_2O/acre. Sidedress: 100 lb N/acre.
Previous Crop: Fallow.
Management: Chisel plowed, disked, and rototilled; Dual Magnum, Atrazine, and one cultivation used for weed control; Prevathon and Savanto used for insect control.

Test conducted by H. Jordon, G. Ware, and T. Dunn.

Griffin, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid	Yield[1]	2-Year Average Yield	Test Wt.	50% Bloom[2]	Plant Ht.	Lodging	Bird Damage[3]
		bu/acre	bu/acre	lb/bu	days	in	%	%
DeKalb	DKS51-01	**90.0**	.	60.6	61	51	0	3
Pioneer	83P17	**83.9**	**120.2**	54.6	57	44	0	0
Athens	105	**76.0**	.	59.2	58	45	0	1
Pioneer	84P80	74.1	**81.9**	60.5	60	41	0	0
Alta Seeds	AG1203	74.0	**63.2**	57.7	59	46	0	0
Desert Sun	DSM 15-539	70.8	.	49.2	54	45	1	3
DeKalb	DKS 37-07	69.7	.	58.5	58	44	0	0
Alta Seeds	AG2105	69.7	**87.6**	59.2	61	44	1	0
Alta Seeds	AG2103	69.6	**68.8**	57.3	60	41	0	0
SS	SS 800	69.6	**73.9**	57.8	58	43	1	1
Southern States	SS EXP 021913	69.6	.	57.1	57	46	0	0
Southern States	SS EXP 45913	68.6	.	60.2	57	48	3	1
Alta Seeds	AG3201	68.4	**81.1**	59.3	58	42	0	0
Mehrrin Ag	SH80G4	66.2	.	59.6	59	48	1	0
Mehrrin Ag	SH90G6	66.1	.	59.2	62	47	0	1
SS	SS 655	65.7	**70.3**	57.2	60	41	0	0
Gayland Ward	GW 9417	65.1	**92.6**	58.2	59	45	0	0
Mehrrin Ag	SH65G6	63.6	.	59.0	56	46	0	1
SS	SS 540	61.7	**113.3**	58.9	58	45	0	0
Desert Sun	DSM 40-920	60.8	.	57.9	56	41	3	3
Desert Sun	DSM 45-480	60.0	.	52.7	53	40	4	3
Mehrrin Ag	SH59G4	55.4	.	57.4	58	44	1	1
Mehrrin Ag	SH47G4	54.3	.	50.2	48	33	1	1
Desert Sun	DSM 7-502	52.1	.	55.3	58	41	0	0
Southern States	SS 1592GS	45.1	.	48.3	58	43	0	0
Average		66.8[4]	85.3	57.0	58	44	1	1
LSD at 10% Level		14.4	N.S.[5]	5.2	2	4	N.S.	2
Std. Err. of Entry Mean		6.1	8.1	2.2	1	2	1	1

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged..
4. CV = 18.2% and df for EMS = 72.
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: June 28, 2016.
Harvested: October 10, 2016.
Seeding Rate: 100,000 seed/acre in 30" rows.
Soil Type: Appling sandy loam.
Soil Test: P = Medium, K = High, and pH = 5.8.
Fertilization: Preplant: 40 lb 80N, lb P_2O_5, and 120 lb K_2O/acre. Sidedress: 100 lb N/acre.
Previous Crop: Fallow.
Management: Chisel plowed, disked, rototilled, and one cultivation; Dual Magnum and Atrazine used for weed control; Prevathon used for insect control; applied 1500 lb lime/acre.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Resistance to Insect and Bird Damage in Sorghum Hybrids, 2016

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

A total of 80 (7 for pearl millet and 73 for grain and forage sorghum) hybrids and a pair of sugarcane aphid resistant and susceptible controls were evaluated for resistance to insect and bird damage in Tifton, Georgia. Sugarcane aphid resistance also was evaluated in a separate trial near Griffin, Georgia. In Tifton, a total of 10 insect pests were observed. The insect pests in order of importance are: sugarcane aphid, fall armyworm, corn earworm, sorghum webworm, sorghum midge, leaf-footed bug, corn leaf aphid, stink bugs (southern green and brown stink bugs), and chinch bug. In comparison with sugarcane aphid and fall armyworm damage, damage from other insect pests and birds was relatively low in 2016. Foliar diseases were of minimal importance in this trial and were not included in this report.

Heavy sugarcane aphid infestation was observed at the late seedling stage (or close to flowering) in the experimental plots that were planted on June 9, 2016. Sugarcane aphid infestation occurred later than the previous year (2015), and all grain sorghum entries produced panicles in 2016. Missing values in the “Days to Anthesis” column of Table 1 indicate that these hybrids did not flower by September 25, 2016. Hybrids that did not flower were forage lines and were photoperiod sensitive. In addition to the heavy aphid infestation, fall armyworm damage at the whorl stage in 2016 was high. Thus, the overall insect resistance rankings (i.e., Very Good, Good, Fair. and Poor) for 2016 were based mainly on the combined sugarcane aphid and fall armyworm damage ratings (LSD = 0.42), and adjusted with panicle damage as shown in Table 1.

Fall armyworm damage was rated using the 1-9 scale with 1 = no damage and 9 = all plants in a plot are completely defoliated. Sorghum webworm, midge, and bird damage were ranked before harvest on September 15-16, 2016. Headworm damage (i.e., sorghum webworm and corn earworm) and midge damage were assessed in combination with grain loss according to the following rating scale: 1 = 0-25% empty glumes on any of the sorghum panicles in an experimental plot; 2 = a few empty glumes (26-50%) observed on a panicle; 3 = 51-75% empty glumes on a sorghum panicle; and 4 = 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: 1 = less than 10% grain loss; 2 = 11-25% loss; 3 = 26-50% loss; and 4 = > 50% loss of grains per panicle.

Sorghum hybrids were rated for susceptibility to sugarcane aphid infestation and damage in trials at Tifton and near Griffin. At Tifton, sugarcane aphid (SCA) damage was rated multiple times throughout the season, but the ratings recorded on August 28 and September 15-16, 2016 were used for this report, because these two ratings best characterized the aphid damage (leaf discoloration) before regrowth of green tillers appeared. SCA damage in Tifton was ranked using the following 1-5 scale: 1 = no visible aphid damage and only a few winged aphids colonizing the leaves; 2 = a lot of aphids without visible leaf damage symptoms, but with honeydew visible on the surface of lower leaves; 3 = high aphid population with lower leaves covered with honeydew, sooty mold, and aphid exuviae (or whitish-cast skins); 4 = heavy aphid infestation with visible leaf

discoloration; and 5 = sorghum plants were killed by heavy aphid infestation. In Griffin, entries were planted in plots of 2 rows by 20 feet and replicated three times. SCA infestations were counted on 6 leaves per plot on Aug. 15, and plant injury was rated on August 19 and September 1, 2016. Plant injury was rated on a 0–9 scale of Burd et al. (1993) where 0 = no injury and 9 = dead/dying plants. Ratings at both locations, from 2015 and from other sources, were used to classify entries as being susceptible, moderately susceptible, moderately resistant-tolerant, or resistant-tolerant (Table 2).

Initial sugarcane aphid infestation (30%) in Tifton was observed on July 5, which is nearly four weeks after planting. Aphid population peaked on August 10, when the grain sorghum plants were at flowering stage, and the aphid population crashed quickly after its peak. Although it is similar to the field season of 2015, in which the aphid population quickly crashed after its peak, sugarcane aphid population peaked later in 2016 than in 2015. Thus most of the grain sorghum entries successfully produced panicles in 2016. Although relatively short in duration, the infestation had an impressive aphid population growth rate on sorghum plants in such a short period of time that it caused permanent damage that was visible by leaf discoloration in 2016. Of all sorghum and pearl millet entries, irrespective of their maturity as described in Table 1, the seven pearl millet entries showed the least amount of damage caused by both fall armyworms and sugarcane aphids, which is rated as the best forage crop that showed insect resistance. In addition, photoperiod sensitive forage sorghum had lower aphid damage ratings compared to the grain sorghum. Seven sorghum hybrids are rated Very Good (VG) with the lowest damage ratings. Thirty-six sorghum entries were rated as Good (G), 26 were Fair (F), and 6 were Poor (P). It is worth noting that, with 2+ year ranking data as shown in the table, six grain sorghum hybrids (‘83P17’, ‘GW-9417’, ‘AG1203’, ‘84P80’, ‘AG2105’, and the resistant control) are the best hybrids for overall resistance to insect and bird damage among the 73 commercial hybrids examined. For selection of hybrids resistance to the sugarcane aphid, several grain type entries showed moderate to good levels of resistance-tolerance (Table 2). Several silage entries also had less damage than susceptible lines but only one forage type (‘AS9302’) showed moderate resistance-tolerance.

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, bird damage can generally be minimized by timely harvest. For further integrated insect management information, please consult with your local county gents and/or Extension Wntomologists.

This test was maintained and flowering-date data were collected by P. Tapp, H. Deems, L. Munoz (USDA-ARS, Tifton) and K. Stratton (UGA-Tifton).

Table 1. Evaluation of Grain Sorghum Hybrids for Resistance to Insect and Bird Damage, 2016, Tifton, Georgia[1]

Brand	Variety	Maturity	Days to Anthesis[2]	2016 FAW damage[3] rating	2016 Headworm and Midge[4]	2016 Bird[5]	Overall rankings 2016	Overall rankings 2+ years[6]
Forage Pearl Millet								
Sorghum Partners	Millex 32	E	50	2.1	1.0	1.0	VG	
UGA	Tifleaf 3	0	52	2.6	1.0	1.0	VG	
Southern States	SS 635	L	50	2.6	1.0	1.0	VG	
Alta Seeds	Wonderleaf	0	57	2.5	1.0	1.0	VG	
Athens	HPM 1	L	98	3.4	.	.	VG	
Southern States	SS 1562M (BMR)	E	63	2.3	.	.	VG	
Sorghum Partners	Millex BMR	E	60	3.0	1.0	1.0	VG	
Grain and Forage Sorghum								
Alta Seeds	AS9301	M	56	3.1	1.0	1.0	VG	
Alta Seeds	AS9302	M	52	3.3	1.5	1.0	VG	
Sorghum Partners	SP1615	PS	.	3.6	.	.	VG	
Desert Sun	Buffalo Grain	L	91	4.0	.	.	VG	
Southern States	SS 130 (S)	ML	70	3.3	1.0	1.0	VG	
Sorghum Partners	SP7715	ML	56	3.4	1.3	1.8	VG	
Sorghum Partners	SP1880	L	.	3.9	.	.	VG	
Sorghum Partners	NK300	ME	89	4.2	.	.	G	
Sorghum Partners	SS405 (CHR-FS4)	L	91	4.4	.	.	G	
Walter Moss	4EverGreen	PS	.	4.0	.	.	G	
Walter Moss	MegaGreen	PS	.	3.6	.	.	G	
Southern States	SS 800	L	53	3.4	3.5	1.8	G	F-
Southern States	SS 1515 (F)	ML	64	4.2	.	.	G	
Southern States	SS 655	ML	58	3.7	2.3	1.3	G	F-
Pioneer	83P17	ML	58	3.9	1.3	1.5	G	G
Alta Seeds	AF7401	L	91	4.0	.	.	G	
Alta Seeds	AS6401	L	72	3.9	1.0	1.0	G	
Alta Seeds	AS6402	L	64	3.6	2.5	1.0	G	
Southern States	SS 2010 (BDF)	L	85	4.3	.	.	G	
Alta Seeds	AF8301	M	60	4.1	.	.	G	
Gayland Ward	GW-9417	0	53	3.8	1.0	2.0	G	G
Sorghum Partners	SP7868	ML	62	3.6	1.0	1.3	G	
Alta Seeds	AG1203	ME	53	3.8	1.0	2.3	G	VG-
Athens	105	M	59	3.6	1.0	1.8	G	
Southern Harvest	SH47G4	E	44	3.8	1.3	1.8	G	
Southern Harvest	SH90G6	ML	63	3.3	3.0	1.3	G	
Southern Harvest	SH905F	ML	75	4.1	.	.	G	
Southern Harvest	SH905F BMR	ML	88	3.7	.	.	G	
Sorghum Partners	Sordan Headless	PS	.	3.8	.	.	G	
Desert Sun	Big Kahuna	PS	.	3.8	.	.	G	
Desert Sun	Elite	L	91	3.8	.	.	G	
Desert Sun	DSM 33-948	L	75	3.9	.	.	G	
Southern States	SS 1592GS	ME	53	3.9	1.0	1.0	G	
Southern States	SS 220 (SG X S)	L	59	3.5	1.3	1.0	G	
Sorghum Partners	SP2774BMR	M	63	3.9	1.0	1.0	G	
Sorghum Partners	SP3902BD	L	.	3.9	.	.	G	
Sorghum Partners	SS304	L	80	3.6	1.0	1.0	G	
Sorghum Partners	SP4105	PS	.	3.9	.	.	G	

Table 1. Evaluation of Grain Sorghum Hybrids for Resistance to Insect and Bird Damage, 2016, Tifton, Georgia[1] (Continued)

				2016			Overall rankings	
Brand	Variety	Maturity	Days to Anthesis[2]	FAW damage[3] rating	Headworm and Midge[4]	Bird[5]	2016	2+ years[6]
Grain and Forage Sorghum - continued								
Sorghum Partners	SP3903BD	ML	84	3.8	.	.	G	
Sorghum Partners	CHR14FB0240	M	64	3.9	1.0	1.0	G	
Sorghum Partners	SP6205	ML	56	4.1	1.0	1.0	G	
Sorghum Partners	SP4105BMR	PS	.	3.7	.	.	G	
DeKalb	DKS 37-07	0	52	4.1	1.0	2.0	G	
Pioneer	84P80	ML	57	3.5	2.3	2.0	F	G-
Alta Seeds	AF7201	ME	51	4.3	1.8	2.0	F	
Alta Seeds	AF7102	E	63	3.5	1.3	1.3	F	
Southern States	SS540	M	54	3.9	1.3	2.0	F	F-
Alta Seeds	AG2103	M	55	3.9	2.5	1.0	F	F-
Alta Seeds	AG2105	M	53	3.8	1.8	1.5	F	G-
DeKalb	DKS51-01	ML	57	3.5	1.3	1.6	F	
Southern Harvest	SH59G4	M	54	3.9	1.8	2.3	F	
Southern Harvest	SH80G4	ML	56	3.6	1.0	1.8	F	
Southern Harvest	SH90044	L	85	4.1	2.0	1.5	F	
Southern States	SS 1597FS	ME	98	4.1	2.0	2.0	F	
Southern States	SS 1652 SS (SG X	M	52	3.8	1.0	1.0	F	
Sorghum Partners	NK6638	M	54	3.8	1.8	1.0	F	
Sorghum Partners	HikaneII	M	56	4.1	1.0	1.0	F	
Southern Harvest	SH65G6	M	53	3.8	2.0	1.3	F	
Desert Sun	DSM 45-480	E	49	4.1	1.0	1.8	F	
Desert Sun	DSM 15-539	E	51	3.7	1.3	1.0	F	
Southern States	SS EXP 021913	M	51	4.3	1.5	1.0	F	
Southern States	SS EXP 45913	ML	53	4.1	1.5	1.3	F	
Sorghum Partners	SP78M30	ML	56	4.0	1.0	2.3	F	
Sorghum Partners	CHROL2042	ML	59	3.7	1.3	1.5	F	
Sorghum Partners	CHROL0029	ML	60	3.9	1.5	1.8	F	
Sorghum Partners	SP2876BMR	M	71	4.0	1.3	1.0	F	
Sorghum Partners	CHR12FS0012	M	55	3.8	1.0	1.0	F	
Sorghum Partners	SP4555	M	57	3.7	1.3	1.0	F	
Aphid Resistant Check	Tx2752 × Tx2783		56	3.6	1.5	1.3	F	G-
Alta Seeds	AG3201	ML	52	4.1	1.5	2.0	P	F
Southern Harvest	Southern Sweet	L	65	3.9	3.0	1.0	P	
Desert Sun	DSM 40-920	ME	53	4.0	1.8	1.5	P	
Desert Sun	DSM 7-502	ME	55	3.8	2.5	1.3	P	
Sorghum Partners	RED TOP +BMR	M	94	3.8	3.3	1.5	P	
Aphid Susceptible Check	Tx2752 × Tx430		57	4.0	1.5	1.5	P	P

1. The test plots were maintained with irrigation.
2. Days from planting to 50% bloom. The missing values denote no panicles were developed from the main stem, and thus they were not rated for damage by head-feeding insects or birds.
3. Fall armyworm resistance was rated following the 1-9 scale of 1 = no damage and 9 = complete defoliation.
4. Sorghum webworm and midge resistance: 1 = 0-25%; 2 = 26-50%; 3 = 51-75%; and 4 = >75% glumes are without grains on a panicle.
5. Bird-feeding resistance: 1 = less than 10% loss; 2 = 11-25% loss; 3 = 26-50% loss; and 4 = over 50% loss.
6. The "+" or "-" signs denote the inconsistency of damage ranking among the years.

Table 2. Evaluation of Sorghum Hybrids for Resistance to Sugarcane Aphid (SCA) Infestation and Injury, Tifton and Griffin, GA 2016.

Brand	Variety	Combined SCA rating[1]	Aphids per leaf Griffin trial Mean	HSD	Plant Injury Rating[2] Griffin rating 0-9 scale	HSD	Tifton rating 1-5 scale
GRAIN TYPES							
Southern Harvest (Meherrin Ag)	SH90G6	**S**	756.7	a	3.50	c-g	4.4
Sorghum Partners	SP7868	**S**	674.6	ab	4.17	bcd	4.3
Desert Sun	DSM 7-502 (white seed)	**S**	624.4	abc	3.67	c-f	4.6
Southern States	SS 655	**S**	611.1	abc	4.67	abc	3.5
Alta Seeds	AG2105*	**S**	568.9	a-d	3.67	c-f	4.4
Pioneer	84P80	**S**	487.8	a-e	4.00	b-e	4.5
Alta Seeds	AG2103	**S**	450.3	a-e	4.50	a-d	4.5
Desert Sun	DSM 15-539	**S**	415.6	a-e	5.67	ab	4.9
Southern States	SS 540*	**S**	367.9	a-e	4.00	b-e	4.5
Alta Seeds	AG3201	**S**	351.1	a-e	4.00	b-e	4.6
Desert Sun	DSM 40-920 (white seed)	**S**	302.2	a-e	3.33	c-g	4.8
Southern States	SS 800	**S**	282.2	a-e	4.50	a-d	4.1
Southern States	SS EXP 021913	**S**	241.1	a-e	3.17	c-h	5.0
Gayland Ward	GW 9417	**S**	218.9	b-e	3.67	c-f	4.4
Southern States	SS EXP 45913	**S**	218.3	b-e	3.17	c-h	4.6
DeKalb	DKS51-01	**S**	211.1	b-e	3.33	c-g	4.5
Southern Harvest (Meherrin Ag)	SH59G4	**S**	204.6	b-e	3.50	c-g	4.4
Chromatin	KS 585 (very susceptible)	**VS**	203.3	b-e	6.18	a	5.0
Southern Harvest (Meherrin Ag)	SH65G6	**MS**	168.9	b-e	3.17	c-h	4.6
Sorghum Partners	NK6638	**MS**	141.4	b-e	3.50	c-g	4.8
Southern Harvest (Meherrin Ag)	SH80G4	**MS**	133.4	cde	3.33	c-g	4.5
Southern Harvest (Meherrin Ag)	SH47G4	**MS**	129.3	cde	4.67	abc	3.5
Pioneer	83P17*§	**MR**	119.6	cde	2.83	c-h	4.1
Desert Sun	DSM 45-480	**?**	117.2	cde	3.67	c-f	4.6
Athens	105	**?**	64.3	cd	3.17	c-h	4.4
Alta Seeds	AG1203*§	**MR?**	56.8	cd	3.17	c-h	4.3
Sorghum Partners	SP7715§	**MR**	22.6	e	2.17	efgh	4.3
DeKalb	DKS 37-07*§	**R**	19.0	e	3.00	c-h	4.4
Sorghum Partners	SP78M30§	**R**	14.9	e	1.83	fgh	4.5
Chromatin Inc	CHROL0029	**?**	14.1	e	2.67	d-h	4.1
Southern States	SS 1592GS (white seed)	**?**	12.8	e	1.33	h	4.4
Chromatin Inc	CHROL2042	**?**	4.3	e	1.67	gh	4.4
	LSD		269.5		0.95		0.4
SILAGE TYPES							
Gayland Ward	Silo-Pro Dwarf BMR	**S**	861.2	a	4.00	b-f	.¶
Southern States	SS 1597FS	**S**	854.4	a	5.00	a-e	3.9
Sorghum Partners	RED TOP +BMR	**S**	778.9	ab	4.67	a-f	4.3
Sorghum Partners	SS405	**S**	680.0	ab	4.50	a-g	3.5
Sorghum Partners	Hikane II	**S**	676.7	ab	4.83	a-f	4.8
Alta Seeds	AF7201	**S**	640.0	ab	5.83	a	4.4
Sorghum Partners	SP2876BMR	**S**	586.7	ab	4.33	a-g	4.5
Sorghum Partners	SP1615	**S?**	566.7	ab	4.33	a-g	3.1
Gayland Ward	EXP 10216	**S**	501.1	ab	5.50	abc	.¶
Southern Harvest (Meherrin Ag)	SH905F BMR	**S**	494.4	ab	3.67	d-g	4.0
Sorghum Partners	Sordan Headless	**S**	464.0	ab	4.17	a-g	3.8
Sorghum Partners	SP2774BMR	**S**	430.6	ab	4.17	a-g	4.3
Sorghum Partners	SP3902BD	**S**	428.9	ab	4.50	a-g	3.7
Sorghum Partners	CHR14FB0240	**S**	414.4	ab	4.33	a-g	4.4
Sorghum Partners	SP4105	**S**	413.3	ab	4.67	a-g	3.8

Table 2. Evaluation of Sorghum Hybrids for Resistance to Sugarcane Aphid (SCA) Infestation and Injury, Tifton and Griffin, GA 2016. (Continued)

Brand	Variety	Combined SCA rating[1]	Aphids per leaf Griffin trial Mean	HSD	Plant Injury Rating[2] Griffin rating 0-9 scale	HSD	Tifton rating 1-5 scale
SILAGE TYPES - continued							
Sorghum Partners	SP1880	**S**	408.9	ab	5.00	a-e	3.4
Gayland Ward	GW 400 BMR	**S**	403.3	ab	5.33	a-d	.¶
Gayland Ward	GW 600 BMR	**S**	379.0	ab	4.00	b-g	.¶
Moss	4Ever Green	**MS?**	365.0	ab	3.00	g	4.3
Desert Sun	BUFFALO GRAIN	**MS**	364.4	ab	3.50	efg	3.3
Sorghum Partners	SP4105BMR	**MS**	346.7	ab	4.17	a-g	3.6
Sorghum Partners	SP3903BD	**S**	325.6	ab	5.67	ab	4.1
Alta Seeds	AF8301*	**MS**	311.4	ab	3.50	efg	3.7
Southern Harvest (Meherrin Ag)	SH905F	**MS?**	307.0	ab	3.00	g	3.6
Desert Sun	BIG KAHUNA	**S**	283.8	ab	3.67	d-g	4.3
Sorghum Partners	SS304	**MS**	267.8	ab	3.83	c-g	3.6
Gayland Ward	GW 2120	**S**	257.8	ab	4.50	a-g	.¶
Sorghum Partners	NK300*	**MS**	255.6	ab	3.67	d-g	3.8
Sorghum Partners	CHR12FS0012	**S**	251.1	ab	5.17	a-e	4.8
Alta Seeds	AF7401*	**MR**	169.9	ab	3.50	efg	3.8
Desert Sun	ELITE	**MR**	137.2	ab	3.13	fg	3.8
Southern States	SS 1515F*	**MR**	128.1	ab	3.50	efg	3.8
Alta Seeds	AF7102	**MS?**	88.9	b	4.33	a-g	4.5
Southern States	SS 2010 BDF*	**R**	49.4	b	3.50	efg	3.8
	LSD		374.4		0.91		0.4
FORAGE TYPES							
Southern Harvest (Meherrin Ag)	SOUTHERN HONEY	**S**	1047.8	a	4.83	ab	4.3
Gayland Ward	Sweet Forever BMR	**S**	687.8	ab	5.00	ab	.¶
Southern States	SS 220 (SG X S)	**S**	528.9	ab	4.83	ab	4.5
Alta Seeds	AS9301	**S**	467.3	ab	5.83	a	4.4
Gayland Ward	Nutra-King BMR	**S**	466.7	ab	5.33	ab	.¶
Alta Seeds	AS6401	**S**	422.2	ab	4.67	ab	3.8
Moss	Mega Green	**S**	418.9	ab	4.00	ab	3.6
Sorghum Partners	SP4555	**S**	408.9	ab	4.83	ab	4.5
Gayland Ward	Super Sugar(DM)*	**S**	408.9	ab	4.17	ab	.¶
Gayland Ward	Super Sugar	**S**	403.3	ab	5.00	ab	.¶
Southern Harvest (Meherrin Ag)	SH90044	**S**	375.9	ab	3.33	b	.¶
Gayland Ward	Sweet Six BMR Dry Stalk	**S**	323.3	ab	5.50	ab	.¶
Southern Harvest (Meherrin Ag)	SOUTHERN SWEET	**S**	312.2	ab	4.17	ab	4.5
Sorghum Partners	SP6205	**S**	310.0	ab	4.33	ab	4.0
Southern States	SS 1652 SS (SG X S)	**S**	256.7	b	5.33	ab	4.5
Alta Seeds	AS6402*	**MS**	247.8	b	3.83	ab	4.3
Desert Sun	DSM 33-948	**MS**	210.0	b	3.83	ab	3.9
Southern States	SS 130 (S)	**MS**	154.4	b	5.33	ab	3.8
Alta Seeds	AS9302*	**MR**	43.1	b	3.67	ab	4.1
	LSD		406.4		1.17		0.4

Table 2. Evaluation of Sorghum Hybrids for Resistance to Sugarcane Aphid (SCA) Infestation and Injury, Tifton and Griffin, GA 2016. (Continued)

Brand	Variety	Combined SCA rating[1]	Aphids per leaf Griffin trial Mean	HSD	Plant Injury Rating[2] Griffin rating 0-9 scale	HSD	Tifton rating 1-5 scale
PEARL MILLET							
Sorghum Partners	Millex 32	**R**	0.0		0.00		1.0
UGA	Tifleaf 3	**R**	0.0		0.00		1.0
Southern States	SS 635	**R**	0.0		0.00		1.0
Alta Seeds	Wonderleaf	**R**	0.0		0.00		1.6
Athens	HPM 1	**R**	0.0		0.00		1.0
Southern States	SS 1562M (BMR)	**R**	0.0		0.00		1.0
Sorghum Partners	Millex BMR	**R**	0.0		0.00		1.0

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

1. Overall rating: S = susceptible, MS = moderately susceptible, MR = Moderately resistant-tolerant, R = resistant/tolerant; ? = Overall rating is not clear due to differences between locations.
2. Griffin scale: 0 = no damage, 9 = dead/dying plants. Tifton scale: 1 = no or few aphids and no injury, 5 = many aphids and dying plants.

¶ Not included at this location.

* Less susceptible in 2015 also.

§ Listed as having some resistance by LSU (Pub. 3523, LSUAgCenter.com).

SORGHUM FOR SILAGE

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter[1]	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Sorghum Partners	SS405	**6.2**	**31.9**	105.5	19	.
Sorghum Partners	SS304	**6.2**	**33.0**	84.5	19	.
Alta Seeds	AF8301	**6.0**	30.2	66.5	20	**5.2**
Mehrrin Ag	SH905F	**5.8**	28.9	63.5	20	.
Sorghum Partners	SP1880	**5.7**	**32.9**	96.5	17	.
Sorghum Partners	Hikane ll	**5.7**	26.0	88.0	22	**4.8**
Sorghum Partners	SP1615	**5.7**	**32.1**	80.0	18	**4.8**
Alta Seeds	AF7102	**5.7**	24.2	70.5	23	.
Southern States	SS 1515F	**5.6**	30.1	66.5	19	**5.1**
Gayland Ward	GW 600 BMR	**5.4**	25.7	95.5	21	**5.1**
Sorghum Partners	Sordan Headless	**5.3**	**33.9**	95.0	16	.
Sorghum Partners	SP2876BMR	**5.3**	26.9	83.5	20	.
Moss	4Ever Green	**5.3**	**36.3**	83.5	15	.
Sorghum Partners	SP4105	5.1	30.5	70.5	17	.
Sorghum Partners	CHR14FB0240	5.1	26.4	93.5	19	.
Sorghum Partners	CHR12FS0012	5.1	24.5	92.5	21	.
Sorghum Partners	RED TOP +BMR	4.9	28.4	85.0	17	.
Desert Sun	BIG KAHUNA	4.9	25.1	64.5	20	.
Sorghum Partners	NK300	4.8	24.3	64.0	20	**4.5**
Gayland Ward	Silo-Pro Dwarf BMR	4.6	24.6	63.5	19	3.9
Desert Sun	BUFFALO GRAIN	4.6	25.4	74.0	18	.
Sorghum Partners	SP3903BD	4.6	22.4	54.0	21	.
Southern States	SS 1597FS	4.6	24.6	60.0	19	.
Gayland Ward	EXP 10216	4.5	20.7	91.0	22	.
Alta Seeds	AF7201	4.4	20.0	86.0	22	.
Sorghum Partners	SP3902BD	4.4	22.2	56.5	20	.
SS	SS 2010 BDF	4.2	21.7	48.5	19	3.8
Alta Seeds	AF7401	4.2	23.2	54.0	18	3.6
Gayland Ward	GW 2120	4.2	20.9	77.5	20	4.2
Gayland Ward	GW 400 BMR	4.2	20.3	80.5	20	4.1
Mehrrin Ag	SH905F BMR	4.1	21.2	55.5	19	.
Sorghum Partners	SP4105BMR	3.8	23.1	65.5	17	.
Desert Sun	ELITE	3.3	16.8	53.8	20	.
Sorghum Partners	SP2774BMR	3.2	16.8	76.5	19	.
Average		4.9 [2]	25.7 [3]	74.9	19	4.5
LSD at 10% Level		1.0	4.8	9.1	1	0.8
Std. Err. of Entry Mean		0.4	2.0	3.9	1	0.3

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter[1]	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Ratoon or Regrowth Crop						
Alta Seeds	AF8301	**3.7**	**17.8**	58.5	21	**5.0**
Southern States	SS 1515F	**3.5**	**17.0**	59.5	20	4.0
Alta Seeds	AF7102	**3.4**	**16.2**	56.5	21	.
Sorghum Partners	SP2876BMR	**3.3**	**16.0**	63.0	20	.
Sorghum Partners	SS304	**3.3**	**18.6**	66.0	17	.
Mehrrin Ag	SH905F	**3.2**	**15.4**	58.0	21	.
Sorghum Partners	CHR12FS0012	**3.2**	14.2	65.5	23	.
Alta Seeds	AF7401	**3.2**	**16.2**	43.0	20	3.7
Sorghum Partners	SP1880	2.8	**14.7**	68.0	19	.
Sorghum Partners	Hikane II	2.7	13.9	60.5	20	3.4
Desert Sun	BUFFALO GRAIN	2.7	14.1	58.5	19	.
Sorghum Partners	CHR14FB0240	2.6	13.9	60.0	19	.
Sorghum Partners	NK300	2.6	13.3	55.5	20	3.6
Desert Sun	BIG KAHUNA	2.6	13.9	51.5	19	.
SS	SS 2010 BDF	2.6	12.1	43.5	21	3.3
Gayland Ward	Silo-Pro Dwarf BMR	2.5	11.4	45.5	22	3.6
Sorghum Partners	SP2774BMR	2.5	12.2	58.0	20	.
Gayland Ward	GW 600 BMR	2.5	11.7	60.5	21	4.2
Southern States	SS 1597FS	2.5	11.9	45.5	21	.
Sorghum Partners	SS405	2.4	12.9	60.5	19	.
Mehrrin Ag	SH905F BMR	2.4	10.3	46.5	23	.
Desert Sun	ELITE	2.4	9.9	46.5	24	.
Sorghum Partners	SP1615	2.3	10.5	61.0	22	4.0
Gayland Ward	GW 2120	2.2	10.3	58	22	3.1
Sorghum Partners	Sordan Headless	2.2	12.0	54.5	18	.
Sorghum Partners	SP4105	2.2	11.0	50.5	20	.
Gayland Ward	GW 400 BMR	2.1	10.2	60.5	21	3.3
Alta Seeds	AF7201	2.0	8.2	56.5	25	.
Sorghum Partners	RED TOP +BMR	2.0	11.2	49.0	18	.
Gayland Ward	EXP 10216	2.0	8.6	58.0	24	.
Sorghum Partners	SP3902BD	2.0	9.3	41.5	22	.
Moss	4Ever Green	2.0	9.2	54.5	21	.
Sorghum Partners	SP4105BMR	2.0	10.3	51.0	19	.
Sorghum Partners	SP3903BD	1.9	7.7	42.5	24	.
Average		2.6[4]	12.5[5]	54.9	21	3.7
LSD at 10% Level		0.7	3.4	6.4	1	0.5
Std. Err. of Entry Mean		0.3	1.4	2.7	1	0.2

Tifton, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

1. Dry Matter: Due to an infestation of the sugar cane aphid, harvest was before soft dough.
2. CV = 16.9% and df for EMS = 99.
3. CV = 16.0% and df for EMS = 99.
4. CV = 22/6% and df for EMS = 99.
5. CV = 23.1% and df for EMS = 99.

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

Planted:	April 28, 2016.
Harvested:	July 12, 2016.
	Ratoon: August 30, 2016.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.6.
Fertilization:	Preplant: 50 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre.
	Sidedress: 50 lb N/acre.and 50 lb N after each cutting.
Previous Crop:	Dryland corn.
Management:	Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control; Telone II used for nematode control.

Test conducted by D. Dunn, R. Brooke, and G. South.

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated

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
Alta Seeds	AF8301	**5.0**	**15.1**	54.5	33	**6.2**
Gayland Ward	Silo-Pro Dwarf BMR	**4.8**	**16.0**	55.5	30	4.9
Mehrrin Ag	SH905F	4.2	**13.6**	56.5	31	.
Gayland Ward	GW 600 BMR	3.7	11.8	69.8	31	3.9
Alta Seeds	AF7201	3.6	10.0	60.5	36	.
Desert Sun	BUFFALO GRAIN	3.3	13.1	65.1	25	.
Sorghum Partners	SP4105BMR	3.2	12.7	57.0	25	.
Mehrrin Ag	SH905F BMR	3.1	9.9	51.8	31	.
Gayland Ward	EXP 10216	3.1	9.0	61.0	34	.
Alta Seeds	AF7102	3.0	8.6	44.0	34	.
Alta Seeds	AF7401	2.9	10.1	46.0	28	3.9
Gayland Ward	GW 400 BMR	2.8	9.2	50.0	31	3.7
Desert Sun	BIG KAHUNA	2.7	9.3	52.3	30	.
Gayland Ward	GW 2120	2.5	7.2	50.5	35	3.8
Moss	4Ever Green	2.2	8.3	61.8	26	.
Desert Sun	ELITE	1.7	5.4	45.3	32	.
Average		3.2 [1]	10.6 [2]	55.1	31	4.4
LSD at 10% Level		0.7	2.7	8.2	2	0.7
Std. Err. of Entry Mean		0.3	1.1	3.5	1	0.4
Ratoon or Regrowth Crop						
Mehrrin Ag	SH905F	**0.9**	**4.0**	32.8	23	.
Alta Seeds	AF7201	**0.9**	**4.0**	34.0	22	.
Alta Seeds	AF8301	**0.8**	**3.3**	31.8	24	**2.0**
Alta Seeds	AF7102	**0.7**	**3.3**	27.8	23	.
Gayland Ward	GW 600 BMR	**0.7**	**3.3**	29.3	22	**1.8**
Moss	4Ever Green	**0.7**	3.1	34.0	23	.
Sorghum Partners	sSP4105BMR	**0.7**	3.0	28.6	22	.
Alta Seeds	AF7401	0.6	2.6	23.5	24	**1.5**
Gayland Ward	GW 400 BMR	0.6	2.2	26.5	25	**1.5**
Gayland Ward	Silo-Pro Dwarf BMR	0.6	2.4	26.3	24	**1.2**
Gayland Ward	EXP 10216	0.6	2.7	30.0	22	.
Gayland Ward	GW 2120	0.4	2.0	26.8	23	**1.7**
Mehrrin Ag	SH905F BMR	0.4	1.6	25.3	24	.
Desert Sun	BUFFALO GRAIN	0.4	1.5	26.3	25	.
Desert Sun	BIG KAHUNA	0.3	1.3	26.8	28	.
Desert Sun	ELITE	0.3	1.0	22.5	29	.
Average		0.6 [3]	2.6 [4]	28.2	24	1.6
LSD at 10% Level		0.2	0.8	3.2	2	N.S.[5]
Std. Err. of Entry Mean		0.1	0.3	1.4	1	0.1

Griffin, Georgia:
Evaluation of Sorghum Hybrids for Silage, 2016, Nonirrigated (Continued)

1. CV = 19.3% and df for EMS = 45.
2. CV = 21.5% and df for EMS = 45.
3. CV = 25.7% and df for EMS = 45.
4. CV = 25.3% and df for EMS = 45.
5. 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 18, 2016.
Harvested:	September 6, 2016. Ratoon: October 13, 2016.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Cecil sandy clay loam.
Soil Test:	P = Very High, K = Very High, and pH = 6.7.
Fertilization:	Preplant: 50 lb N, 100 lb P_2O_5, and 150 lb K_2O/acre. Sidedress: 100 lb N/acre.
Previous Crop:	Fallow.
Management:	Chisel plowed, disked, rototilled, and one cultivation; Dual Magnum and Atrazine used for weed control; Prevathon and Savanto used for insect control.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

SUMMER ANNUAL FORAGES

Tifton, Georgia: Evaluation of Summer Annual Forage, 2016 and Two-Year Average Yields, 2015-2016

Company or Brand Name	Hybrid Name or Number	Clipping Dates 6-28-16	Clipping Dates 8-30-16	Season Total	2-Year Average
		--- dry matter yield - pounds per acre ---			
Sorghum x Sudangrass					
Mehrrin Ag	SH90044	**9233**	**13761**	**22994**	.
Moss	Mega Green	**7981**	**12548**	**20528**	.
Alta Seeds	AS6401	**8722**	11744	**20467**	**18768**
Gayland Ward	Super Sugar(DM)	**8195**	**12202**	**20397**	**17634**
Alta Seeds	AS6402	**8179**	**11956**	**20134**	**16446**
Southern States	SS 220 (SG X S)	**9167**	10915	**20082**	.
Sorghum Partners	Sordan Headless	**8113**	**11852**	**19965**	**17642**
Gayland Ward	Nutra-King BMR	**9022**	10721	**19743**	**17717**
Sorghum Partners	SP4555	**8884**	10736	**19620**	.
Sorghum Partners	CHR12FS0012	**8610**	10651	19261	.
Sorghum Partners	Hikane II	**8163**	10541	18704	.
Alta Seeds	AS9302	**7528**	10597	18125	**16141**
Gayland Ward	Sweet Six BMR Dry Stalk	**7464**	10087	17551	**17841**
Mehrrin Ag	SOUTHERN SWEET	6801	10682	17484	.
Southern States	SS 1652 SS (SG X S)	**7662**	9594	17255	.
Alta Seeds	AS9301	7254	9626	16880	.
Sorghum Partners	SP4105	6864	9806	16670	.
Sorghum Partners	SP6205	7320	9232	16552	.
Mehrrin Ag	SOUTHERN HONEY	**8616**	7805	16420	.
Gayland Ward	Super Sugar	6202	9881	16082	**16490**
Desert Sun	DSM 33-948	6398	9225	15623	.
Moss	4Ever Green	6171	8761	14932	.
Gayland Ward	Sweet Forever BMR	6160	8597	14756	**13373**
Southern States	SS 130 (S)	**8443**	5026	13469	.
Desert Sun	BIG KAHUNA	4798	6556	11354	.
Average		7678	10124	17802 [1]	16895
LSD at 10% Level		1814	1910	3396	N.S.[2]
Std. Err. of Entry Mean		765	805	1432	963
Pearl Millet					
Sorghum Partners	Millex 32	**8842**	**10203**	**19045**	.
Advanta	Wonderleaf	**9042**	**9450**	**18492**	.
UGA	Tifleaf 3	8302	8934	17236	**16846**
SS	SS 635 DF	8282	7490	15772	**16160**
Sorghum Partners	MILLEX BMR	6986	6498	13484	.
SS	SS 1562M BMR	7325	5585	12910	13016
Athens	HPM 1	6526	5494	12020	12929
Average		7901	7665	15566 [3]	14738
LSD at 10% Level		651	1110	1466	1168
Std. Err. of Entry Mean		266	452	598	476

Tifton, Georgia:
Evaluation of Summer Annual Forage, 2016 and Two-Year Average Yields, 2015-2016 (Continued)

1. CV = 13.9% and df for EMS = 48.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. CV = 7.7% and df for EMS = 18.

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

Planted:	April 28, 2016.
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:	P = Medium, K = Medium, and pH = 6.6.
Fertilization:	Preplant: 50 lb N, 60 lb P_2O_5, and 90 lb K_2O/acre. Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st harvest.
Previous Crop:	Summer Annuals.
Management:	Disked, subsoiled/bedded, and rototilled; Dual Magnum and Atrazine used for weed control; Savanto used for insect control on sorghum x sudangrass only; Telone II used for nematode control.

Test conducted by D. Dunn, R. Brooke, and G. South.

Griffin, Georgia:
Evaluation of Summer Annual Forage, 2016
and Two-Year Average Yields, 2015-2016

Company or Brand Name	Hybrid Name or Number	Clipping Dates 7-14-16	8-23-16	10-13-16	Season Total	2-Year Average
		--------- dry matter yield - pounds per acre ---------				
Sorghum x Sudangrass						
Moss	Mega Green	**2513**	**2736**	**1427**	**6677**	.
Sorghum Partners	SP4555	**2643**	**2376**	**1375**	**6395**	.
Sorghum Partners	Sordan Headless	**2390**	**2611**	1093	**6095**	.
Alta Seeds	AS9302	2093	**2236**	**1662**	**5991**	**9324**
Alta Seeds	AS9301	1818	**2360**	**1791**	**5969**	.
Gayland Ward	Nutra-King BMR	1977	1931	**1674**	**5582**	**9046**
Moss	4Ever Green	1985	**2682**	909	**5576**	.
Gayland Ward	Sweet Six BMR Dry Stalk	1810	2119	**1290**	5219	**9443**
Sorghum Partners	Hikane II	**2240**	1977	995	5211	.
Sorghum Partners	CHR12FS0012	**2442**	2015	647	5103	.
Mehrrin Ag	SH90044	1789	2165	973	4926	.
Alta Seeds	AS6402	1958	1889	1063	4910	**7385**
Alta Seeds	AS6401	2013	1995	749	4758	**7999**
Sorghum Partners	SP4105	1538	1933	998	4470	.
Gayland Ward	Super Sugar(DM)	1655	1835	910	4399	**8561**
Desert Sun	DSM 33-948	2096	1845	406	4348	.
Mehrrin Ag	SOUTHERN HONEY	1972	1407	583	3962	.
Desert Sun	BIG KAHUNA	1741	1718	339	3798	.
Sorghum Partners	SP6205	1493	1312	976	3781	.
Mehrrin Ag	SOUTHERN SWEET	1624	1465	332	3420	.
Gayland Ward	Super Sugar	1125	1095	1122	3341	**8286**
Gayland Ward	Sweet Forever BMR	1083	1025	299	2406	**8399**
Average		1909	1942	982	4834 [1]	8555
LSD at 10% Level		534	570	511	1108	N.S.[2]
Std. Err. of Entry Mean		226	241	216	469	374
Pearl Millet						
Sorghum Partners	Millex 32	**2181**	**2233**	367	**4781**	.
SS	SS 635 DF	1399	**2281**	**677**	**4358**	**7801**
UGA	Tifleaf 3	1628	**2179**	463	**4270**	**8154**
Sorghum Partners	MILLEX BMR	1723	**2197**	255	**4176**	.
SS	SS 1562M BMR	1716	**2024**	241	**3982**	**7433**
Advanta	Wonderleaf	1026	**2286**	466	**3778**	.
Average		1612	2200	412	4224 [3]	7796
LSD at 10% Level		411	N.S.	127	N.S.	N.S.
Std. Err. of Entry Mean		166	158	51	281	348

Griffin, Georgia:
Evaluation of Summer Annual Forage, 2016
and Two-Year Average Yields, 2015-2016
(Continued)

1. CV = 19.4% and df for EMS = 63.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. CV = 13.3% and df for EMS = 15.

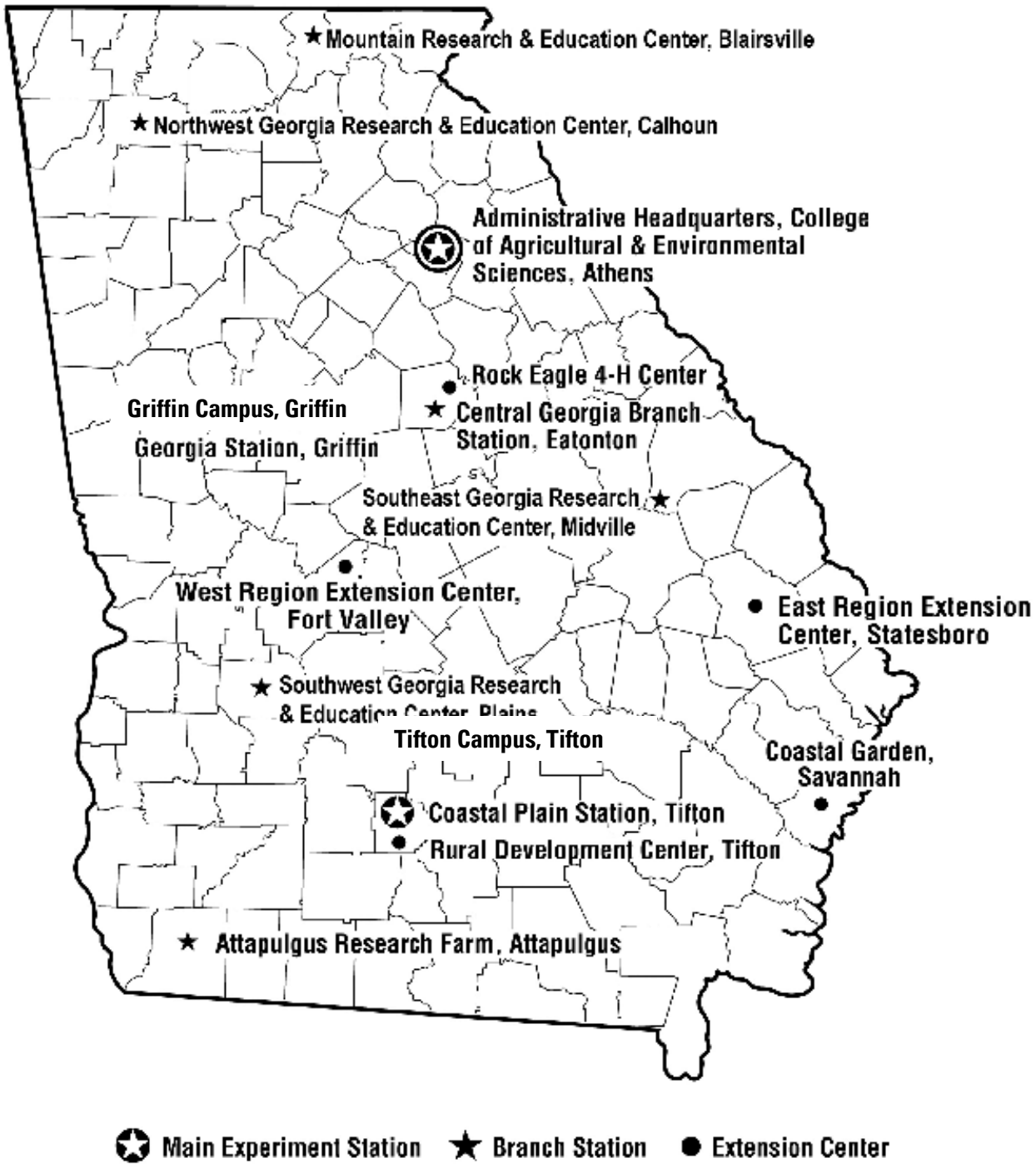
Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	May 15, 2016.
Seeding Rate:	Sorghum x Sudangrass: 125,000 seed/acre in 30" rows. Millet: 500,000 seed/acre in 30" rows.
Soil Type:	Cecil clay loam.
Soil Test:	P = Medium, K = High, and pH = 6.8.
Fertilization:	Preplant: 50 lb N, 100 lb P_2O_5, and 150 lb K_2O/acre. Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st and 2nd harvests.
Previous Crop:	Fallow.
Management:	Sorghum x Sudan: Chisel plowed, disked, and rototilled; Dual Magnum and one cultivation used for weed control; Gramoxone between harvests for weed control; Prevathon and Lorsban used for insect control. Millet: Chisel plowed, disked, and rototilled; one cultivation and Atrazine after first harvest used for weed control; Lorsban and Prevathon used for insect control.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Sources of Seed for the 2016 Grain Sorghum, Silage Sorghum, and Summer Annual Forage Tests

Brand or Variety Name	Company and Address
Alta Seeds	Advanta US, Inc., PO Box 2685, 301 South Polk, Suite #350, Amarillo, TX 79015.
Athens	Athens Seed Co., 63 Depot Street, Watkinsville, GA 30677.
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167..
Desert Sun	Desert Sun Marketing Co., PO Box 50817, Phoenix, AZ 85076.
Gayland Ward	Gayland Ward Seed Co. Inc., 4395 US Hwy 60, Hereford, TX 79045.
Moss Seed	Walter Moss Seed Co., PO Box 21114, Waco, TX 76702.
Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229..
Southern Harvest	Meherrin Ag, 72 First St., Hawkinsville, GA 31036.
Sorghum Partners	Chromatin, Inc., 1301 E. 50th 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.


Mountain Research & Education Center, Blairsville
Northwest Georgia Research & Education Center, Calhoun
Administrative Headquarters, College of Agricultural & Environmental Sciences, Athens
Rock Eagle 4-H Center
Griffin Campus, Griffin
Central Georgia Branch Station, Eatonton
Georgia Station, Griffin
Southeast Georgia Research & Education Center, Midville
West Region Extension Center, Fort Valley
East Region Extension Center, Statesboro
Southwest Georgia Research & Education Center, Plains
Tifton Campus, Tifton
Coastal Garden, Savannah
Coastal Plain Station, Tifton
Rural Development Center, Tifton
Attapulgus Research Farm, Attapulgus
Main Experiment Station
Branch Station
Extension Center

University of Georgia
Agricultural Experiment Stations
Athens, Georgia 30602
Robert Shulstad, Associate Dean

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ADDRESS CORRECTION REQUESTED

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