

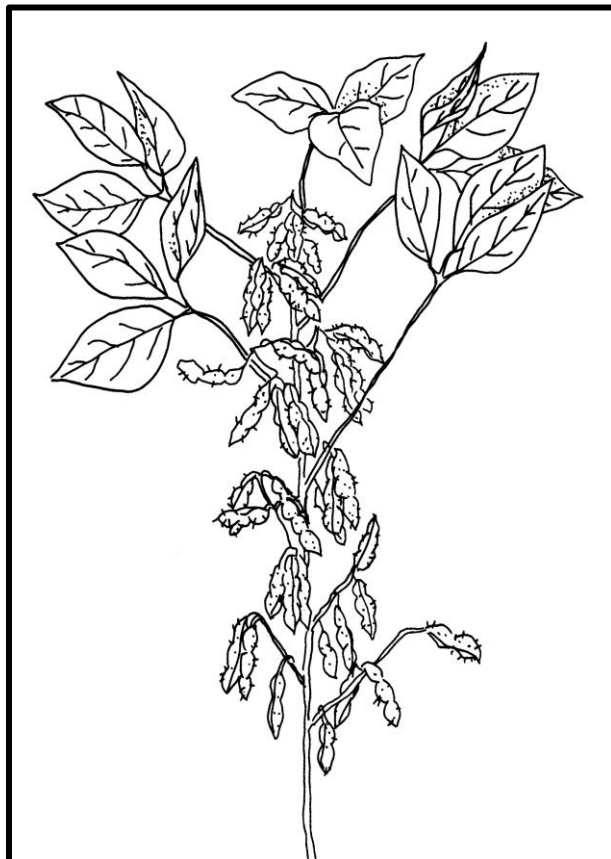
The Georgia Agricultural Experiment Stations
Department of Crop and Soil Sciences
College of Agricultural and Environmental Sciences
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GEORGIA

2019 Soybean Performance Tests

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Editors*



Conversion Table

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

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PREFACE

This research report presents the results of the 2019 statewide soybean performance tests. Evaluations were conducted at several or all of the following locations: Tifton, Plains, Midville and Attapulgus 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 conducted under irrigated conditions to minimize variation between years.

Maturity group 4 varieties are utilized in the Early Soybean Production System. They have an indeterminate growth habit and are planted in April. They require more management and are higher-risk than later maturities, but have good yield potential. Maturity groups 5 to 8 can be utilized as full season varieties, and planted in May. Maturities 7 and 8 are suitable as double-crop varieties to follow wheat and other winter grains in mid-June. All maturities are potentially suitable for ultra-late production in early August following corn, but varieties differ greatly in their adaptability to that environment.

A large number of varieties are included in the trials in order to identify the best options for Georgia soybean producers. Not all are commercially available to producers. Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by the University of Georgia Agricultural Experiment Stations. Relatively high rates of fertilizer are applied to ensure that no plots in an experiment will be nutrient-limited. Please choose an appropriate fertilizer rate based on what you consider to be a realistic yield goal for your field.

Agronomic information, such as maturity date, plant height, lodging, 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. Yield summaries include statewide and multi-year performance. These summaries can provide a better indication of a variety's yield potential than a single test located closer to your location.

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 differ by more than the LSD value, they can 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 model R-square value is included at the bottom of each table column to provide a general indicator of the reliability and precision of its data. The value can range from 0 to 1, and the higher its value, the more precise the data.

This report is one of four publications presenting the performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2019 Corn, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 101-11), 2018-2019 Small Grains Performance Tests (Annual Publication 100-11), and 2019 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-11).

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

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2019 SOYBEAN PERFORMANCE TESTS

CONTENTS

SOYBEAN

Entries in Georgia Soybean Performance Tests, 2019	1
Summary of Soybean Varietal Characteristics, 2019, Irrigated	3

Maturity Group IV

Statewide Yield Summary: MG IV Soybean Variety Performance, 2019	5
Tifton, Georgia: MG IV Soybean Variety Performance, 2019, Irrigated	6
Calhoun, Georgia: MG IV Soybean Variety Performance, 2019, Irrigated	7
Blairsville, Georgia: MG IV Soybean Variety Performance, 2019, Dryland	8

Maturity Groups V - VIII

Statewide Yield Summary: MG V-VIII Soybean Variety Performance, 2019	9
Tifton, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated	11
Midville, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated	16
Plains, Georgia:	
MG V-VIII Soybean Variety Performance, 2019, Irrigated	19
Late-Planted MG VII and VIII Soybean Variety Performance, 2019, Irrigated	22
Griffin, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated	23
Athens, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated	25
Calhoun, Georgia: MG V-VI Soybean Variety Performance, 2019, Irrigated	28

Ultra-Late Planted Irrigated

Yield Summary: Ultra-Late Plantings at Two Locations, Soybean Variety Performance, 2016-2019	30
Midville, Georgia: Ultra-Late Planted Soybean Variety Performance, 2019, Irrigated	31
Attapulgus, Georgia: Ultra-Late Planted Soybean Variety Performance, 2019, Irrigated	33

Nematode Screening Results

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2019	35
Sources of Seed for the 2019 Soybean Performance Tests	38

SOYBEAN

Entries in Georgia Soybean Performance Tests, 2019

Company or Brand Name	Variety	MG	Tests Included		Herbicide Tolerance	Seed Treatment
			OVT	Ultra-late		
AGSouth	AGS 52X19S	5.2	5	-	-	-
AGSouth	AGS 61G19	6.1	6	Yes	RR1	CruiserMaxx Vibrance Beans
AGSouth	AGS 730R2X	7.3	7	Yes	Xtend	-
AGSouth	AGS 738RR	7.3	7	-	RR1	-
AGSouth	AGS 747LL	7.4	7	-	Liberty Link	-
AGSouth	AGS GS49X19	4.9	4	-	Xtend	CruiserMaxx Vibrance Beans
Asgrow	AG53X0 RR2X	5.3	5	Yes	Xtend	All Asgrow varieties: Acceleron fungicide, insecticide + NemaStrike with Acceleron B-200 SAT
Asgrow	AG55X0 RR2X/SR	5.5	5	Yes	Xtend	
Asgrow	AG59X9 RR2X	5.9	5	Yes	Xtend	
Asgrow	AG64X8 RR2X	6.4	6	Yes	Xtend	
Asgrow	AG69X0 RR2X	6.9	6	-	Xtend	
Clemson	SC10-179	-	-	Yes	Conventional	Apron Maxx
Clemson	SC10-406RR	-	-	Yes	RR1	
Credenz	CZ 4869X	4.8	4	-	Xtend	All Credenz varieties: Poncho Votivo + ILeVO
Credenz	CZ 4979X	4.9	4	-	Xtend	
Credenz	CZ 5299X	5.2	5	Yes	Xtend	
Credenz	CZ 5515LL	5.5	5	Yes	Liberty Link	
Credenz	CZ 5700X	5.7	5	Yes	Xtend	
Credenz	CZ 5859LL	5.8	5, 6	Yes	Liberty Link	
Credenz	CZ 6020X	6.0	6	Yes	Xtend	
Credenz	CZ 6109LL	6.1	6	-	Liberty Link	
Credenz	CZ 6260LL	6.2	6	Yes	Liberty Link	
Credenz	CZ 6515LL	6.5	7	Yes	Liberty Link	
Credenz	CZ 6520LL	6.5	6	Yes	Liberty Link	
Credenz	CZ 6730LL	6.7	6	Yes	Liberty Link	
Credenz	CZ 6770X	6.7	6	-	Xtend	
Credenz	CZ 7007LL	7.0	7	-	Liberty Link	
Credenz	CZ 7380X	7.3	7	-	Xtend	
Credenz	CZ 7570LL	7.5	7	-	Liberty Link	
Dyna-Gro	S49XT39	4.9	4	Yes	Xtend		All Dyna-Gro varieties: Equity VIP
Dyna-Gro	S49XT70	4.9	4	-	Xtend	
Dyna-Gro	S56XT99	5.6	5	Yes	Xtend	
Dyna-Gro	S62XT09	6.2	6	Yes	Xtend	
Dyna-Gro	S69XT57	6.9	6	Yes	Xtend	
Dyna-Gro	S72XT80	7.2	7	-	Xtend	
Dyna-Gro	S75XT26	7.5	7	-	Xtend	
Dyna-Gro	SX19858XT	5.8	5	-	Xtend	
Dyna-Gro	SX19867XS	6.7	6	-	Xtend/STS	
GSDC	Cook (Public)	8	5, 6, 7	Yes	Conventional	None
Local Seed	LS4565XS	4.5	4	-	Xtend/STS	-
Local Seed	LS4583X	4.5	4	-	Xtend	-
Local Seed	LS4677X	4.6	4	-	Xtend	-
Local Seed	LS4795XS	4.6	4	-	Xtend/STS	-
Local Seed	LS4798X	4.7	4	-	Xtend	-
Local Seed	LS4889XS	4.8	4	-	Xtend/STS	-
Local Seed	LS4999X	4.9	4	-	Xtend	-
Local Seed	LS5386X	5.3	5	-	Xtend	-
Local Seed	LS5588X	5.5	5	Yes	Xtend	-
Local Seed	LS6457XS	6.4	6	-	Xtend/STS	-
Local Seed	LSX6501XS	6.5	6	Yes	Xtend/STS	-

Entries in Georgia Soybean Performance Tests, 2019 (Continued)

Company or Brand Name	Variety	MG	Tests Included		Herbicide Tolerance	Seed Treatment	
			OVT	Ultra-late			
MorSoy	MS 5607 RXT	5.6	5	Yes	Xtend	All MorSoy varieties; Avicta Complete Beans	
MorSoy	MS 6208 RXT	6.2	6	Yes	Xtend		
MorSoy	MS 7057 RXT	7	7	Yes	Xtend		
MU	S11-20242C	5.1	5	Yes	Conventional	All MU varieties: INOVATE	
MU	S13-1955C	5.5	5	-	Conventional		
MU	S14-9017R	5.3	5	-	RR1		
MU	S15-10434C	5.5	5	-	Conventional		
NK Brand	S57-A7X	5.7	5	Yes	Xtend	All NK Brand varieties: Clariva Complete + Mertect	
NK Brand	S64-T4X	6.4	6	Yes	Xtend		
NK Brand	S74-M3	7.4	7	Yes	RR2		
NK Brand	S77-Y4X	7.7	7	Yes	Xtend		
Pioneer	P48A60X	4.8	4	-	Xtend	LumiGEN	
Pioneer	P55A49X	5.5	5	Yes	Xtend	LumiGEN	
Pioneer	P72A21X	7.2	7	Yes	Xtend	LumiGEN	
Pioneer	P76T54R2	7.6	7	-	RR2	LumiGEN	
Pioneer	P95Y70	-	-	Yes	-	-	
REV	6989X	6.9	6	Yes	Xtend	All REV varieties:	
REV	7100X	7.1	7	Yes	Xtend	EverGol Energy SB + Lumisena	
SCCIA	Cheraw (Public)	8	7	Yes	RR1	All SCCIA varieties: None	
SCCIA	Musen (Public)	6	6	Yes	Conventional		
SCCIA	Paul (Public)	8	7	Yes	RR1		
SCCIA	Santee (Public)	7	7	-	Conventional		
Southern Harvest	SH 6020 LL/STS	6.1	6	Yes	Liberty Link/STS	Poncho Votivo + ILeVO	
Southern Harvest	SH 6515 LL/STS	6.5	6	-	Liberty Link/STS	Avicta Complete Beans 500	
Southern Harvest	SH 6815 LL	6.8	6	Yes	Liberty Link	Avicta Complete Beans 500	
Southern Harvest	SH 7418 LL	7.4	7	-	Liberty Link	Avicta Complete Beans 500	
UGA	G00-3213	7	7	-	Conventional	All UGA varieties: None	
UGA	G13-2842R2	6	6	-	RR2		
UGA	G13-3461R2	7	7	-	RR2		
UGA	G14-2622R2	7	7	-	RR2		
UGA	G14-4364R2	7	7	-	RR2		
UGA	G14-4396R2	7	7	-	RR2		
UGA	G14-6063	6	6	-	Conventional		
UGA	G15LL-9205	7	7	-	Liberty Link		
UGA	G15PR-340	6	6	-	Conventional		
UGA	G15PRLL-953	7	7	-	Liberty Link		
UGA	G15PRLL-989	7	7	-	Liberty Link		
UGA	G17PR-1053HOLNR1	7	7	-	Conventional		
UGA	G17PR-1060HOLNR1	7	7	-	Conventional		
UGA	G17PR-1207HOLN	7	7	-	Conventional		
UniSouth	USG 7496XTS	4.9	4	-	Xtend		All UniSouth varieties: Imidicloprid, Metalaxyl, Ipconazole
UniSouth	USG 7568XT	5.6	5	Yes	Xtend		
UniSouth	USG 7698XT	6.9	6	Yes	Xtend		
UniSouth	USG 76G45LS	6.4	6	Yes	Liberty Link/STS		
VA Tech	V12-1416	5.1	5	-	RR2		All VA Tech varieties: Rancona Summit
VA Tech	V14-0988	4.9	4	-	-		
VA Tech	V14-2116	4.9	4	-	-		
VA Tech	V15-2259ST	4.9	4	-	Conventional/STS		
VA Tech	V15-2261ST	4.9	4	-	Conventional/STS		
VA Tech	V15-2287ST	4.9	4	-	Conventional/STS		

Summary of Soybean Varietal Characteristics, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield	Maturity ¹	Plant Height	Lodg. ²	Seed Size	Seed Quality ³
			2019 bu/acre						date	in	rating	no./lb	rating
<u>Maturity Group V</u>								
AGSouth	AGS 52X19S	5.2	55.8	9/27	39.3	1.7	3098	3.4
Asgrow	AG53X0 RR2X	5.3	48.4	9/27	41.0	1.6	3061	4.4
Asgrow	AG55X0 RR2X/SR	5.5	52.5	9/26	32.9	1.5	3168	3.6
Asgrow	AG59X9 RR2X	5.9	53.5	10/7	33.5	1.4	3650	3.7
Credenz	CZ 5299X	5.2	56.5	9/26	38.6	1.7	3047	3.1
Credenz	CZ 5515LL	5.5	48.5	9/30	45.3	3.0	2914	3.4
Credenz	CZ 5859LL	5.8	51.4	10/3	32.5	1.4	2781	4.1
Dyna-Gro	S56XT99	5.6	58.2	9/28	34.2	1.4	2642	3.3
Dyna-Gro	SX19858XT	5.8	57.7	10/5	33.1	1.4	2945	3.5
Local Seed	LS5386X	5.3	52.7	9/29	38.4	1.5	2776	3.9
Local Seed	LS5588X	5.5	57.5	9/28	34.3	1.6	2690	3.5
MorSoy	MS 5607 RXT	5.6	57.4	9/28	34.4	1.6	2766	3.5
MU	S11-20242C	5.1	52.1	9/27	35.3	2.8	3156	3.3
MU	S13-1955C	5.5	47.3	9/28	31.2	2.1	3174	4.4
MU	S14-9017R	5.3	41.4	10/1	33.0	1.4	2944	4.6
MU	S15-10434C	5.5	56.0	9/29	30.0	1.8	3179	3.6
NK Brand	S57-A7X	5.7	59.1	10/4	34.5	1.2	2855	3.5
Pioneer	P55A49X	5.5	55.7	9/26	28.4	1.2	3255	3.6
UniSouth	USG 7568XT	5.6	58.0	9/27	33.6	1.7	2728	3.5
VA Tech	V12-1416	5.1	49.2	9/24	29.5	1.7	3036	3.6
Average			53.6	9/29	34.6	1.7	2988	3.7
LSD at 10% Level			3.7	1	1.5	0.3	117	0.3
Model R-square			0.88	0.92	0.87	0.78	0.89	0.83
<u>Maturity Group VI</u>								
AGSouth	AGS 61G19	6.1	54.5	10/3	36.8	3.2	3070	4.2
Asgrow	AG64X8 RR2X	6.4	52.5	10/9	37.9	1.9	3710	3.4
Asgrow	AG69X0 RR2X	6.9	52.8	10/12	36.6	1.4	3284	3.5
Credenz	CZ 5859LL	5.8	51.3	10/3	32.6	1.8	2728	4.2
Credenz	CZ 6109LL	6.1	56.9	10/4	35.1	1.8	2860	3.0
Credenz	CZ 6260LL	6.2	56.7	10/3	32.6	1.9	2740	3.2
Credenz	CZ 6520LL	6.5	55.7	10/8	35.1	1.5	2998	3.0
Credenz	CZ 6730LL	6.7	56.0	10/5	33.8	1.8	3216	2.8
Dyna-Gro	S62XT09	6.2	55.5	10/7	34.5	1.7	3235	3.6
Dyna-Gro	S69XT57	6.9	54.3	10/15	37.3	1.5	3154	3.6
Dyna-Gro	SX19867XS	6.7	53.8	10/7	39.9	1.3	3698	2.8
Local Seed	LS6457XS	6.4	45.3	10/9	38.4	1.7	3695	3.3
Local Seed	LSX6501XS	6.5	55.0	10/6	37.1	1.9	3480	3.6
MorSoy	MS 6208 RXT	6.2	57.0	10/7	32.7	1.9	3241	3.4
NK Brand	S64-T4X	6.4	55.7	10/5	35.1	2.3	3092	4.4
REV	6989X	6.9	51.9	10/7	32.0	1.5	3473	3.2
SCCIA	Musen (Public)	6	49.8	10/12	43.7	3.3	3490	2.5
Southern Harvest	SH 6020 LL/STS	6.1	54.2	10/4	33.7	1.6	2973	2.8
Southern Harvest	SH 6515 LL/STS	6.5	54.5	10/5	35.0	1.7	3026	2.7
Southern Harvest	SH 6815 LL	6.8	52.3	10/8	37.5	2.2	3165	3.3
UGA	G13-2842R2	6	55.6	10/9	34.5	1.4	3172	2.9
UGA	G14-6063	6	56.4	10/2	35.7	2.0	2614	2.6
UGA	G15PR-340	6	47.0	10/9	35.2	2.3	3687	3.8
UniSouth	USG 7698XT	6.9	52.0	10/14	36.7	1.8	3422	2.8
UniSouth	USG 76G45LS	6.4	55.9	10/4	33.6	1.7	2985	3.1
Average			53.7	10/7	35.7	1.9	3234	3.3
LSD at 10% Level			2.9	2	1.1	0.3	108	0.3
Model R-square			0.92	0.89	0.91	0.77	0.96	0.71

Summary of Soybean Varietal Characteristics, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Plant		Seed	Seed
			2019 bu/acre	Maturity ¹ date	Height in	Lodg. ² rating	Size no./lb	Quality ³ rating
Maturity Groups VII and VIII								
AGSouth	AGS 730R2X	7.3	53.8	10/18	34.1	1.8	2877	3.3
AGSouth	AGS 738RR	7.3	48.6	10/13	31.9	1.7	3534	3.7
AGSouth	AGS 747LL	7.4	46.9	10/18	36.4	1.9	3382	3.8
Credenz	CZ 6515LL	6.5	47.8	10/18	36.3	1.7	3481	3.2
Credenz	CZ 7007LL	7.0	46.3	10/16	37.6	2.9	3062	3.6
Credenz	CZ 7380X	7.3	47.1	10/18	31.3	1.7	3321	3.3
Credenz	CZ 7570LL	7.5	48.5	10/18	35.1	1.8	2815	4.1
Dyna-Gro	S72XT80	7.2	45.3	10/18	33.4	1.4	3533	3.6
Dyna-Gro	S75XT26	7.5	50.8	10/18	38.5	1.6	3139	3.4
GSDC	Cook (Public)	8	47.9	10/16	38.6	2.7	2898	3.8
MorSoy	MS 7057 RXT	7.0	50.3	10/17	35.8	1.6	3383	3.2
NK Brand	S74-M3	7.4	48.2	10/17	33.2	1.7	2971	3.8
NK Brand	S77-Y4X	7.7	47.7	10/19	37.0	1.7	3723	4.1
Pioneer	P72A21X	7.2	51.0	10/17	31.9	1.5	2923	4.0
Pioneer	P76T54R2	7.6	51.1	10/19	37.7	1.9	3528	3.6
REV	7100X	7.1	47.6	10/19	34.1	1.5	3393	4.2
SCCIA	Cheraw (Public)	8	44.5	10/22	37.7	1.7	3362	3.3
SCCIA	Paul (Public)	8	47.4	10/17	34.4	2.3	3844	2.8
Southern Harvest	SH 7418 LL	7.4	54.6	10/16	36.9	1.7	2894	3.1
UGA	G00-3213	7	51.6	10/14	36.1	1.8	3068	2.9
UGA	G13-3461R2	7	51.9	10/14	33.5	1.7	3057	3.0
UGA	G14-2622R2	7	44.9	10/18	38.1	2.1	3290	3.7
UGA	G14-4364R2	7	50.8	10/18	36.1	1.9	2930	3.5
UGA	G14-4396R2	7	52.3	10/14	36.0	2.6	3247	3.3
UGA	G15LL-9205	7	53.8	10/17	38.0	2.2	3376	2.3
UGA	G15PRLL-953	7	52.3	10/21	36.6	1.9	3168	2.4
UGA	G15PRLL-989	7	52.1	10/15	36.6	2.1	3011	2.8
UGA	G17PR-1053HOLNR1	7	49.0	10/15	31.7	1.7	3327	4.0
UGA	G17PR-1060HOLNR1	7	47.6	10/14	30.6	1.6	3289	3.5
UGA	G17PR-1207HOLN	7	50.7	10/14	34.1	1.8	3044	3.1
Average			49.2	10/17	35.3	1.9	3212	3.4
LSD at 10% Level			2.9	1	1.0	0.3	111	0.3
Model R-square			0.95	0.95	0.95	0.74	0.96	0.77

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).

Statewide Yield Summary: MG IV Soybean Variety Performance, 2019

Company or Brand Name	Variety	MG	Tifton	Calhoun	Blairsville	Statewide Average
			----- bu/acre -----			
Maturity Group IV						
AGSouth	AGS GS49X19	4.9	74.7	58.2	52.7	61.9
Credenz	CZ 4869X	4.8	69.6	42.4	21.0	44.3
Credenz	CZ 4979X	4.9	71.1	56.2	51.4	59.5
Dyna-Gro	S49XT39	4.9	68.0	55.9	39.9	54.6
Dyna-Gro	S49XT70	4.9	57.6	56.0	59.5	57.7
Local Seed	LS4565XS	4.5	61.9	44.1	35.6	47.2
Local Seed	LS4583X	4.5	69.6	73.6	81.8	75.0
Local Seed	LS4677X	4.6	68.5	29.3	28.9	42.2
Local Seed	LS4798X	4.7	72.1	53.5	67.7	64.4
Local Seed	LS4889XS	4.8	75.9	48.4	30.4	51.6
Local Seed	LS4795XS	4.6	64.8	57.4	42.8	55.0
Local Seed	LS4999X	4.9	67.9	59.4	71.8	66.4
Pioneer	P48A60X	4.8	68.1	69.8	36.3	58.1
UniSouth	USG 7496XTS	4.9	77.5	37.8	40.5	51.9
VA Tech	V14-0988	4.9	71.2	27.7	29.4	42.8
VA Tech	V14-2116	4.9	73.5	41.9	38.4	51.2
VA Tech	V15-2259ST	4.9	77.7	55.6	59.7	64.3
VA Tech	V15-2261ST	4.9	73.1	50.0	51.2	58.1
VA Tech	V15-2287ST	4.9	62.0	30.7	28.9	40.5
Average			69.7	49.9	45.7	55.1
LSD at 10% Level			7.6	11.2	17.2	7.0
Model R-square			0.62	0.83	0.83	0.85

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry. Yields are calculated as 60 pounds per bushel at 13% moisture.

Tifton, Georgia:
MG IV Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield bu/acre	Plant Height in	Lodging ¹ rating
<u>Maturity Group IV</u>					
VA Tech	V15-2259ST	4.9	77.7	29	1.0
UniSouth	USG 7496XTS	4.9	77.5	37	1.3
Local Seed	LS4889XS	4.8	75.9	43	3.0
AGSouth	AGS GS49X19	4.9	74.7	40	1.7
VA Tech	V14-2116	4.9	73.5	29	1.0
VA Tech	V15-2261ST	4.9	73.1	31	1.0
Local Seed	LS4798X	4.7	72.1	39	2.7
VA Tech	V14-0988	4.9	71.2	29	1.0
Credenz	CZ 4979X	4.9	71.1	39	1.7
Local Seed	LS4583X	4.5	69.6	33	1.0
Credenz	CZ 4869X	4.8	69.6	37	1.3
Local Seed	LS4677X	4.6	69.1	38	1.7
Pioneer	P48A60X	4.8	68.1	35	1.0
Dyna-Gro	S49XT39	4.9	68.0	38	2.0
Local Seed	LS4999X	4.9	67.9	37	1.0
Local Seed	LS4795XS	4.6	64.8	33	1.0
VA Tech	V15-2287ST	4.9	62.0	25	1.0
Local Seed	LS4565XS	4.5	61.9	37	1.7
Dyna-Gro	S49XT70	4.9	57.6	35	1.0
Average			69.8 ²	35	1.4
LSD at 10% Level			7.8	3	0.5
Std. Err. of Entry Mean			3.2	1	0.2
Model R-square			0.62	0.89	0.82

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

2. CV = 7.9% and df for EMS = 36.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: April 30, 2019.
 Harvested: September 18, 2019.
 Seeding Rate: 140,000 seeds per acre in 36" rows.
 Soil Type: Tifton loamy sand.
 Previous Crop: Corn.
 Soil Test: P = Medium, K = Medium, and pH = 6.1.
 Fertilization: 80 lb P₂O₅ and 120 lb K₂O/acre.
 Management: Conventional tillage. Warrant, Select, Broadloom, Basagran, and Blazer used for weed control. Tracer used for insect control. Telone II used for nematode control. Irrigated 13.9 inches.

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

Calhoun, Georgia: MG IV Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield bu/acre	Plant Height in	Lodging ¹ rating	Seed Size no./lb	Seed Quality ² rating
Maturity Group IV							
Local Seed	LS4583X	4.5	73.6	38	2.0	3323	2.5
Pioneer	P48A60X	4.8	69.8	36	1.7	3116	3.2
Local Seed	LS4999X	4.9	59.4	40	1.3	3280	3.0
AGSouth	AGS GS49X19	4.9	58.2	42	3.3	3314	3.0
Local Seed	LS4795XS	4.6	57.4	31	1.0	3228	2.2
Credeuz	CZ 4979X	4.9	56.2	40	3.0	3676	2.8
Dyna-Gro	S49XT70	4.9	56.0	39	1.3	3289	2.3
Dyna-Gro	S49XT39	4.9	55.9	40	3.0	3392	3.2
VA Tech	V15-2259ST	4.9	55.6	33	1.0	3592	1.7
Local Seed	LS4798X	4.7	53.5	34	2.7	3127	2.5
VA Tech	V15-2261ST	4.9	50.0	29	1.0	3211	1.2
Local Seed	LS4889XS	4.8	48.4	42	4.0	3245	3.2
Local Seed	LS4565XS	4.5	44.1	36	3.0	3378	2.7
Credeuz	CZ 4869X	4.8	42.4	34	5.0	3726	2.5
VA Tech	V14-2116	4.9	41.9	30	1.0	3254	1.2
UniSouth	USG 7496XTS	4.9	37.8	26	3.0	3573	3.2
VA Tech	V15-2287ST	4.9	30.7	22	1.0	3632	2.3
Local Seed	LS4677X	4.6	29.3	36	5.0	3876	2.0
VA Tech	V14-0988	4.9	27.7	31	1.0	3137	2.3
Average			49.9 ³	35	2.3	3388	2.5
LSD at 10% Level			11.2	9	0.9	246	0.6
Std. Err. of Entry Mean			3.9	4	0.4	100	0.3
Model R-square			0.83	0.55	0.86	0.73	0.80

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

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

3. CV = 13.4% and df for EMS = 24.

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 30, 2019.

Harvested: October 18, 2019.

Seeding Rate: 140,000 seeds per acre in 30" rows.

Soil Type: Wax loam.

Previous Crop: Oats.

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

Fertilization: 0 lb N, 0 lb P₂O₅, and 200 lb K₂O/acre.

Management: Conventional tillage. Prowl, Warrant, and Select Max used for weed control.
Irrigated 11.75 inches.

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

Blairsville, Georgia:
MG IV Soybean Variety Performance, 2019, Dryland

Company or Brand Name	Variety	MG	Yield bu/acre	Plant Height in	Lodging ¹ rating	Seed Size no./lb	Seed Quality ² rating
<u>Maturity Group IV</u>							
Local Seed	LS4583X	4.5	81.8	38	1.3	2644	1.7
Local Seed	LS4999X	4.9	71.8	37	1.7	2574	1.8
Local Seed	LS4798X	4.7	67.7	45	2.0	2550	2.5
VA Tech	V15-2259ST	4.9	59.7	30	1.5	3376	2.0
Dyna-Gro	S49XT70	4.9	59.5	39	1.3	2704	2.3
AGSouth	AGS GS49X19	4.9	52.7	40	3.0	3005	2.8
Credenz	CZ 4979X	4.9	51.4	40	2.7	3119	2.5
VA Tech	V15-2261ST	4.9	51.2	33	2.2	3056	2.0
Local Seed	LS4795XS	4.6	42.8	35	2.8	2684	3.0
UniSouth	USG 7496XTS	4.9	40.5	37	2.5	2901	2.5
Dyna-Gro	S49XT39	4.9	39.9	35	2.3	3061	1.8
VA Tech	V14-2116	4.9	38.4	26	2.0	2965	1.3
Pioneer	P48A60X	4.8	36.3	34	2.8	2922	2.5
Local Seed	LS4565XS	4.5	35.6	34	3.7	3119	2.3
Local Seed	LS4889XS	4.8	30.4	34	3.7	2759	2.0
VA Tech	V14-0988	4.9	29.4	23	2.0	3037	2.3
Local Seed	LS4677X	4.6	28.9	30	4.0	3475	2.5
VA Tech	V15-2287ST	4.9	28.9	22	3.3	3554	1.8
Credenz	CZ 4869X	4.8	21.0	28	5.0	3586	3.0
Average			45.7 ³	34	2.6	3005	2.2
LSD at 10% Level			17.2	7	1.4	299	NS
Std. Err. of Entry Mean			6.1	2	0.5	106	0.3
Model R-square			0.83	0.79	0.66	0.86	0.48

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

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

3. CV = 22.5% and df for EMS = 24.

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 25, 2019.

Harvested: October 4, 2019.

Seeding Rate: 140,000 seeds per acre in 30" rows.

Soil Type: Suches loam.

Previous Crop: Corn.

Soil Test: P = Very High, K = High, and pH = 5.9. Applied 1.25 ton lime per acre.

Fertilization: 0 lb N, 0 lb P₂O₅, and 140 lb K₂O/acre.

Management: Conventional tillage. Prowl H2O, Classic, and Ultra Blazer used for weed control. Karate and Sevin XLR Plus used for insect control.

Test conducted by H. Jordan, G. Ware, C. Graham, L. Lee, D. Patterson, and D. Rogers.

Statewide Yield Summary: MG V-VIII Soybean Variety Performance, 2019

Company or Brand Name	Variety	MG	Tifton							Statewide Avg	
			Early	Late	Midville	Plains	Griffin	Athens	Calhoun	2019	2-Yr
----- bu/acre -----											
Maturity Group V											
AGSouth	AGS 52X19S	5.2	70.9	66.4	69.4	35.6	65.0	43.2	42.8	56.2	.
Asgrow	AG53X0 RR2X	5.3	56.8	48.9	73.5	12.8	74.0	49.3	40.2	50.8	.
Asgrow	AG55X0 RR2X/SR	5.5	68.6	63.1	74.8	25.8	60.3	38.2	39.4	52.9	.
Asgrow	AG59X9 RR2X	5.9	72.8	56.6	67.0	40.9	59.7	42.4	37.0	53.8	56.5
Credenz	CZ 5299X	5.2	73.7	64.8	71.0	36.2	66.4	43.5	43.0	56.9	.
Credenz	CZ 5515LL	5.5	62.6	57.7	69.6	20.1	45.2	45.0	38.1	48.3	51.0
Credenz	CZ 5700X	5.7	.	68.1	71.6	45.3	.	48.8	42.9	.	.
Credenz	CZ 5859LL	5.8	61.2	53.0	65.7	30.2	58.5	44.8	46.4	51.4	58.6
Dyna-Gro	S56XT99	5.6	69.2	65.8	76.5	41.9	64.9	40.0	50.9	58.5	.
Dyna-Gro	SX19858XT	5.8	66.3	68.7	66.1	48.7	60.2	53.1	40.6	57.7	.
GSDC	Cook (Public)	8	70.9	.	.	.	39.7	.	.	.	.
Local Seed	LS5386X	5.3	53.9	49.5	65.2	26.6	75.5	48.9	49.6	52.7	.
Local Seed	LS5588X	5.5	71.9	61.6	70.7	46.2	65.6	40.2	46.1	57.5	.
MorSoy	MS 5607 RXT	5.6	76.9	61.4	64.7	40.4	69.5	39.5	49.3	57.4	61.8
MU	S11-20242C	5.1	69.9	59.5	71.9	26.2	61.6	26.9	48.7	52.1	53.0
MU	S13-1955C	5.5	57.1	50.8	59.0	32.2	45.5	44.5	41.0	47.2	54.1
MU	S14-9017R	5.3	35.6	28.8	54.4	15.7	73.0	47.9	45.0	42.9	49.9
MU	S15-10434C	5.5	75.2	60.3	78.5	34.7	61.5	41.3	40.7	56.0	56.0
NK Brand	S57-A7X	5.7	72.4	65.0	65.1	46.6	65.8	52.1	49.0	59.4	61.3
Pioneer	P55A49X	5.5	69.8	59.2	68.8	41.8	71.8	41.8	41.8	56.4	61.2
UniSouth	USG 7568XT	5.6	73.4	65.9	72.8	40.6	61.1	45.6	46.6	58.0	.
VA Tech	V12-1416	5.1	62.1	62.9	63.6	35.0	67.3	30.1	29.2	50.0	54.7
Average			66.3	59.0	68.5	34.5	63.1	43.2	43.3	53.8	56.2
LSD at 10% Level			7.2	8.3	9.7	8.9	10.2	6.9	9.1	3.7	3.4
Model R-square			0.83	0.78	0.55	0.79	0.79	0.76	0.57	0.88	0.69
Maturity Group VI											
AGSouth	AGS 61G19	6.1	77.4	61.0	61.5	31.3	41.3	52.3	56.7	54.5	.
Asgrow	AG64X8 RR2X	6.4	84.7	63.0	56.9	43.3	30.9	55.4	33.2	52.5	.
Asgrow	AG69X0 RR2X	6.9	71.4	63.2	62.1	46.4	29.4	56.2	41.2	52.8	.
Credenz	CZ 5859LL	5.8	68.3	53.9	69.8	24.8	33.2	55.9	53.3	51.3	59.2
Credenz	CZ 6020X	6	.	56.9	65.7	46.3	.	64.8	38.1	.	.
Credenz	CZ 6109LL	6.1	77.9	67.6	69.9	36.5	40.8	56.8	48.8	56.9	60.8
Credenz	CZ 6260LL	6.2	75.4	73.7	72.4	37.3	35.2	57.7	45.4	56.7	.
Credenz	CZ 6520LL	6.5	81.1	67.1	62.5	37.5	39.7	55.7	46.2	55.7	.
Credenz	CZ 6730LL	6.7	74.8	59.0	66.0	47.8	42.9	57.8	43.9	56.0	.
Credenz	CZ 6770X	6.7	.	65.6	57.7	43.4	.	52.8	34.1	50.7	.
Dyna-Gro	S62XT09	6.2	82.1	65.8	65.1	44.6	38.1	55.3	37.5	55.5	.
Dyna-Gro	S69XT57	6.9	79.4	68.7	60.7	45.5	30.0	54.0	41.5	54.3	59.3
Dyna-Gro	SX19867XS	6.7	86.3	67.6	58.6	41.4	35.2	58.7	28.7	53.8	.
GSDC	Cook (Public)	8	71.1	.	.	.	30.0	.	.	.	.
Local Seed	LS6457XS	6.4	.	66.0	59.3	41.0	24.7	52.0	28.4	45.2	.
Local Seed	LSX6501XS	6.5	80.3	66.4	65.2	43.0	34.0	55.8	40.2	55.0	.
MorSoy	MS 6208 RXT	6.2	83.8	66.1	70.1	41.5	43.9	56.8	36.7	57.0	61.5
NK Brand	S64-T4X	6.4	73.5	61.8	71.3	33.7	42.2	57.6	50.0	55.7	60.5
REV	6989X	6.9	69.8	57.6	66.2	39.1	30.4	60.3	39.7	51.9	.
SCCIA	Musen (Public)	6	75.5	63.7	50.9	42.6	24.1	49.0	42.5	49.8	.
Southern Harvest	SH 6020 LL/STS	6.1	74.8	63.5	65.7	37.0	38.2	53.0	47.4	54.2	.
Southern Harvest	SH 6515 LL/STS	6.5	77.2	65.3	63.6	31.1	42.9	56.5	44.6	54.4	59.5
Southern Harvest	SH 6815 LL	6.8	72.1	62.2	56.0	38.2	32.4	51.7	53.3	52.3	58.4

Statewide Yield Summary: MG V-VIII Soybean Variety Performance, 2019 (Continued)

Company or Brand Name	Variety	MG	Tifton						Statewide Avg		
			Early	Late	Midville	Plains	Griffin	Athens	Calhoun	2019	2-Year
----- bu/acre -----											
Maturity Group VI - continued											
UGA	G13-2842R2	6	85.2	66.3	64.6	36.7	39.0	57.3	39.9	55.6	59.9
UGA	G14-6063	6	78.6	70.3	69.9	34.3	32.8	57.8	50.8	56.3	59.8
UGA	G15PR-340	6	68.7	55.3	57.9	28.4	28.9	55.2	34.3	47.0	54.9
UniSouth	USG 7698XT	6.9	81.1	65.1	56.0	37.6	30.0	53.6	40.4	52.0	.
UniSouth	USG 76G45LS	6.4	81.9	66.8	63.4	34.0	39.3	56.2	49.6	55.9	.
Average			76.9	64.1	63.3	38.7	34.8	55.8	42.5	53.6	59.4
LSD at 10% Level			7.6	6.3	5.4	10.6	8.3	NS	6.7	2.9	2.8
Model R-square			0.56	0.60	0.74	0.48	0.57	0.44	0.78	0.92	0.74
Maturity Group VII and VIII											
AGSouth	AGS 730R2X	7.3	80.1	69.5	73.4	43.7	37.6	.	54.1	59.7	.
AGSouth	AGS 738RR	7.3	71.3	60.8	75.8	43.4	18.0	.	56.1	54.2	56.5
AGSouth	AGS 747LL	7.4	77.0	60.9	59.9	45.6	17.3	.	56.2	52.8	53.8
Credenz	CZ 6515LL	6.5	67.4	59.5	57.7	51.2	20.8	.	57.3	52.3	54.0
Credenz	CZ 7007LL	7	74.0	57.6	52.9	41.4	25.4	.	56.3	51.3	54.0
Credenz	CZ 7380X	7.3	.	71.0	74.1	51.7	24.7	.	.	.	.
Credenz	CZ 7570LL	7.5	73.2	62.4	64.5	41.9	28.1	.	53.8	54.0	.
Dyna-Gro	S72XT80	7.2	62.0	57.1	62.2	44.2	27.9	.	57.3	51.8	.
Dyna-Gro	S75XT26	7.5	86.1	65.5	59.5	55.3	25.4	.	54.5	57.7	58.4
GSDC	Cook (Public)	8	69.1	55.2	46.6	38.6	16.5	.	56.4	47.1	49.8
MorSoy	MS 7057 RXT	7	75.2	67.2	58.4	49.0	26.6	.	58.2	55.8	57.1
NK Brand	S74-M3	7.4	74.6	63.3	63.8	47.5	26.0	.	51.7	54.5	58.0
NK Brand	S77-Y4X	7.7	74.4	57.8	56.9	46.0	25.7	.	58.3	53.2	.
Pioneer	P72A21X	7.2	76.9	65.5	66.9	55.7	26.6	.	50.2	57.0	58.9
Pioneer	P76T54R2	7.6	83.9	64.9	62.2	49.8	26.3	.	56.5	57.3	59.3
REV	7100X	7.1	66.4	62.9	59.2	48.4	29.7	.	51.2	53.0	.
SCCIA	Cheraw (Public)	8	64.8	57.6	52.3	34.4	19.7	.	60.6	48.2	49.0
SCCIA	Paul (Public)	8	61.6	57.5	59.8	56.5	29.8	.	51.4	52.8	54.8
SCCIA	Santee (Public)	7	67.9	36.4	60.9	21.9	.	.	58.2	.	.
Southern Harvest	SH 7418 LL	7.4	74.7	70.2	74.4	52.8	26.4	.	61.3	60.0	60.3
UGA	G00-3213	7	75.5	68.3	67.8	49.9	29.9	.	51.5	57.2	.
UGA	G13-3461R2	7	75.5	64.2	65.8	53.9	34.1	.	53.2	57.8	59.0
UGA	G14-2622R2	7	68.8	55.9	51.7	43.6	21.4	.	57.7	49.9	50.2
UGA	G14-4364R2	7	75.4	68.1	52.6	50.4	33.7	.	57.1	56.2	59.2
UGA	G14-4396R2	7	79.2	65.9	67.7	51.3	32.5	.	54.6	58.5	59.2
UGA	G15LL-9205	7	83.6	69.5	61.8	52.9	34.0	.	57.4	59.9	.
UGA	G15PRLL-953	7	79.5	65.5	66.5	50.8	33.7	.	49.6	57.6	61.4
UGA	G15PRLL-989	7	81.0	60.0	68.2	49.9	29.0	.	57.3	57.6	58.7
UGA	G17PR-	7	74.2	67.6	63.7	42.5	23.4	.	56.4	54.6	.
UGA	G17PR-	7	72.1	59.9	65.0	45.3	22.1	.	54.8	53.2	.
UGA	G17PR-1207HOLN	7	74.3	67.5	64.5	47.9	28.2	.	55.1	56.2	.
Average			73.8	62.4	62.5	47.0	26.7	-	55.5	54.9	56.4
LSD at 10% Level			6.7	6.1	8.5	7.6	6.3	-	NS	3.2	3.0
Model R-square			0.70	0.77	0.69	0.72	0.70	-	0.32	0.92	0.84

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry. Yields are calculated as 60 pounds per bushel at 13% moisture.

NOTE: GSDC Cook (Public) was substituted for late-arriving entries at some locations.

Tifton, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem ³ rating	Petiole Retention ⁴ rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 -----bu/acre-----	2-Yr Avg							
<u>Maturity Group V-Early planted</u>											
MorSoy	MS 5607 RXT	5.6	76.9	71.0	09/26	34	2.3	1.0	2.0	2458	4.7
MU	S15-10434C	5.5	75.2	69.1	09/30	31	2.3	1.0	2.0	2772	5.0
Credenz	CZ 5299X	5.2	73.7	.	09/25	40	2.3	1.0	4.0	2753	4.3
UniSouth	USG 7568XT	5.6	73.4	.	09/26	33	2.7	1.0	2.0	2453	4.3
Asgrow	AG59X9 RR2X	5.9	72.8	67.1	10/03	32	2.0	0.0	1.0	3304	4.0
NK Brand	S57-A7X	5.7	72.4	65.9	10/01	34	1.7	1.0	1.0	2573	4.3
Local Seed	LS5588X	5.5	71.9	.	09/30	35	2.0	1.0	3.0	2455	4.7
AGSouth	AGS 52X19S	5.2	70.9	.	09/26	43	2.3	1.0	4.0	2629	4.5
GSDC	Cook (Public)	8	70.9	.	10/12	37	3.3	1.0	3.0	2807	4.2
MU	S11-20242C	5.1	69.9	60.9	09/30	37	3.7	1.0	3.0	2717	4.3
Pioneer	P55A49X	5.5	69.8	68.2	09/28	30	1.7	1.0	2.0	2896	4.8
Dyna-Gro	S56XT99	5.6	69.2	.	09/27	35	2.0	1.0	4.0	2356	4.7
Asgrow	AG55X0 RR2X/SR	5.5	68.6	.	09/24	34	2.0	1.0	2.0	2820	4.7
Dyna-Gro	SX19858XT	5.8	66.3	.	10/01	31	2.0	0.0	1.0	2541	3.3
Credenz	CZ 5515LL	5.5	62.6	58.6	10/01	46	4.3	1.0	4.0	2702	4.0
VA Tech	V12-1416	5.1	62.1	59.5	09/24	29	2.0	1.0	2.0	2606	4.3
Credenz	CZ 5859LL	5.8	61.2	62.2	10/02	32	2.0	1.0	4.0	2435	4.7
MU	S13-1955C	5.5	57.1	58.9	09/30	31	2.0	1.0	4.0	2800	5.0
Asgrow	AG53X0 RR2X	5.3	56.8	.	09/27	42	2.0	1.0	2.0	2899	5.0
Local Seed	LS5386X	5.3	53.9	.	09/28	42	2.0	1.0	3.0	2620	5.0
MU	S14-9017R	5.3	35.6	46.6	09/30	36	2.0	1.0	5.0	2705	5.0
Average			66.3 ⁶	62.5	09/29	35	2.3	0.9	2.8	2681	4.5
LSD at 10% Level			7.2	7.4	1	2	0.6	-	-	173	0.7
Std. Err. of Entry Mean			3.0	3.1	-	1	0.2	-	-	70	0.3
Model R-square			0.83	0.51	-	0.95	0.79	-	-	0.83	0.55
<u>Maturity Group V-Late planted</u>											
Dyna-Gro	SX19858XT	5.8	68.7	.	10/08	35	2.0	0.0	1.0	2813	3.8
Credenz	CZ 5700X	5.7	68.1	.	10/09	33	2.0	0.0	1.0	2712	3.8
AGSouth	AGS 52X19S	5.2	66.4	.	10/01	36	2.0	1.0	2.0	2991	4.2
UniSouth	USG 7568XT	5.6	65.9	.	10/02	34	2.0	1.0	5.0	2544	4.7
Dyna-Gro	S56XT99	5.6	65.8	.	10/02	33	2.0	1.0	4.0	2534	3.8
NK Brand	S57-A7X	5.7	65.0	.	10/04	34	1.7	0.0	1.0	2816	4.5
Credenz	CZ 5299X	5.2	64.8	.	10/02	35	2.0	1.0	5.0	2961	3.7
Asgrow	AG55X0 RR2X/SR	5.5	63.1	.	10/01	34	2.0	1.0	1.0	3095	3.5
VA Tech	V12-1416	5.1	62.9	.	09/25	33	3.3	1.0	2.0	2902	3.7
Local Seed	LS5588X	5.5	61.6	.	10/02	33	2.3	1.0	4.0	2597	4.0
MorSoy	MS 5607 RXT	5.6	61.4	.	10/01	33	2.3	1.0	4.0	2558	4.5
MU	S15-10434C	5.5	60.3	.	10/03	30	2.3	1.0	2.0	3030	4.3
MU	S11-20242C	5.1	59.5	.	10/03	36	3.0	1.0	3.0	2993	3.8
Pioneer	P55A49X	5.5	59.2	.	10/04	31	1.7	1.0	4.0	3023	3.7
Credenz	CZ 5515LL	5.5	57.7	.	10/02	41	3.3	1.0	1.0	2852	3.7
Asgrow	AG59X9 RR2X	5.9	56.6	.	10/08	35	1.3	0.0	1.0	3966	3.7
Credenz	CZ 5859LL	5.8	53.0	.	10/06	31	1.7	1.0	4.0	2993	4.5
MU	S13-1955C	5.5	50.8	.	10/02	31	3.0	1.0	5.0	2927	5.0
Local Seed	LS5386X	5.3	49.5	.	10/08	33	1.7	1.0	5.0	2877	4.7
Asgrow	AG53X0 RR2X	5.3	48.9	.	10/03	36	2.0	1.0	4.0	2941	5.0
MU	S14-9017R	5.3	28.8	.	10/09	32	1.3	1.0	5.0	3270	5.0
Average			59.0 ⁷	-	10/03	34	2.1	0.8	3.1	2924	4.2
LSD at 10% Level			8.3	-	1	2	0.7	-	-	202	0.6
Std. Err. of Entry Mean			3.5	-	-	1	0.3	-	-	85	0.2
Model R-square			0.78	-	-	0.85	0.68	-	-	0.87	0.69

Tifton, Georgia:
MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem ³ rating	Petiole Retention ⁴ rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg							
<u>Maturity Group VI-Early planted</u>											
Dyna-Gro	SX19867XS	6.7	86.3	.	10/04	38	1.3	0.0	1.0	2924	2.7
UGA	G13-2842R2	6	85.2	71.5	10/09	35	2.0	0.7	2.0	2622	3.2
Asgrow	AG64X8 RR2X	6.4	84.7	.	10/08	36	2.0	0.0	1.0	3045	3.5
MorSoy	MS 6208 RXT	6.2	83.8	74.4	10/05	33	2.0	0.0	1.0	2663	3.5
Dyna-Gro	S62XT09	6.2	82.1	.	10/03	33	2.0	0.0	1.0	2789	3.5
UniSouth	USG 76G45LS	6.4	81.9	.	10/03	33	2.0	0.3	1.0	2567	3.0
Credenz	CZ 6520LL	6.5	81.1	.	10/04	33	1.7	0.3	1.3	2367	3.2
UniSouth	USG 7698XT	6.9	81.1	.	10/11	36	2.0	1.0	1.7	3024	2.3
Local Seed	LSX6501XS	6.5	80.3	.	10/03	34	2.0	0.0	1.0	2739	3.3
Dyna-Gro	S69XT57	6.9	79.4	72.4	10/12	36	2.0	0.3	1.3	2687	3.8
UGA	G14-6063	6	78.6	69.6	09/25	37	2.7	0.3	1.3	2225	2.5
Credenz	CZ 6109LL	6.1	77.9	71.2	10/02	33	2.0	0.0	1.0	2364	2.5
AGSouth	AGS 61G19	6.1	77.4	.	10/03	39	3.7	1.0	4.0	2845	4.5
Southern Harvest	SH 6515 LL/STS	6.5	77.2	68.5	10/03	34	2.0	0.0	1.0	2593	2.8
SCCIA	Musen (Public)	6	75.5	.	10/09	42	4.0	0.0	1.0	2929	2.8
Credenz	CZ 6260LL	6.2	75.4	.	10/02	33	2.0	0.0	1.0	2349	3.0
Credenz	CZ 6730LL	6.7	74.8	.	10/04	31	2.0	0.0	1.0	2707	2.5
Southern Harvest	SH 6020 LL/STS	6.1	74.8	.	10/03	31	2.0	0.0	1.0	2507	2.8
NK Brand	S64-T4X	6.4	73.5	69.8	10/03	36	2.7	1.0	2.3	2718	5.0
GSDC	Cook (Public)	8	72.2	.	10/12	38	3.6	0.1	1.1	2890	3.8
Southern Harvest	SH 6815 LL	6.8	72.1	66.1	10/06	36	2.7	0.3	1.0	2751	3.3
Asgrow	AG69X0 RR2X	6.9	71.4	.	10/10	35	1.7	0.0	1.0	2851	3.8
REV	6989X	6.9	69.8	.	10/04	30	2.0	0.0	1.0	3039	3.2
UGA	G15PR-340	6	68.7	65.9	10/11	35	2.0	1.0	3.0	3188	4.7
Credenz	CZ 5859LL	5.8	68.3	65.0	10/04	33	2.0	1.0	4.0	2496	4.8
Average			77.0 ⁸	69.4	10/05	35	2.3	0.3	1.5	2724	3.4
LSD at 10% Level			7.6	NS	1	2	0.5	-	0.5	161	0.7
Std. Err. of Entry Mean			3.3	2.5	-	1	0.2	-	-	68	0.3
Model R-square			0.56	0.65	-	0.87	0.86	0.73	0.89	0.86	0.78
<u>Maturity Group VI-Late Planted</u>											
Credenz	CZ 6260LL	6.2	73.7	.	10/10	35	2.0	1.0	2.3	2654	3.5
UGA	G14-6063	6	70.3	.	10/11	35	2.0	0.7	2.3	2343	3.3
Dyna-Gro	S69XT57	6.9	68.7	.	10/18	38	1.7	0.0	1.0	3101	3.8
Credenz	CZ 6109LL	6.1	67.6	.	10/07	37	2.0	0.0	1.0	2712	3.2
Dyna-Gro	SX19867XS	6.7	67.6	.	10/10	39	2.0	0.0	1.0	3730	2.7
Credenz	CZ 6520LL	6.5	67.1	.	10/10	39	1.7	0.0	1.0	2987	3.3
UniSouth	USG 76G45LS	6.4	66.8	.	10/09	35	2.0	0.0	1.0	2937	3.2
Local Seed	LSX6501XS	6.5	66.4	.	10/11	36	2.0	0.0	1.0	3503	3.3
UGA	G13-2842R2	6	66.3	.	10/12	38	2.0	0.0	1.0	3151	3.0
MorSoy	MS 6208 RXT	6.2	66.1	.	10/10	35	2.3	0.0	1.0	3407	3.5
Local Seed	LS6457XS	6.4	66.0	.	10/13	39	2.0	0.0	1.0	3688	2.8
Dyna-Gro	S62XT09	6.2	65.8	.	10/11	35	2.0	0.0	1.0	3241	4.3
Credenz	CZ 6770X	6.7	65.6	.	10/12	39	1.7	0.0	1.0	3642	2.5
Southern Harvest	SH 6515 LL/STS	6.5	65.3	.	10/09	35	2.0	0.0	1.0	2879	2.8
UniSouth	USG 7698XT	6.9	65.1	.	10/15	37	2.0	0.0	1.0	3305	3.2
SCCIA	Musen (Public)	6	63.7	.	10/14	43	4.3	0.0	1.0	3313	2.0
Southern Harvest	SH 6020 LL/STS	6.1	63.5	.	10/10	34	1.7	0.0	1.0	2959	2.8
Asgrow	AG69X0 RR2X	6.9	63.2	.	10/14	37	2.0	0.0	1.0	3385	3.3
Asgrow	AG64X8 RR2X	6.4	63.0	.	10/13	37	2.0	0.0	1.0	3407	4.0
Southern Harvest	SH 6815 LL	6.8	62.2	.	10/12	39	2.7	0.0	1.0	3206	3.3

Tifton, Georgia:
MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem ³ rating	Petiole Retention ⁴ rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg							
Maturity Group VI-Late Planted - continued											
NK Brand	S64-T4X	6.4	61.8	.	10/14	35	1.7	1.0	3.3	2852	5.0
AGSouth	AGS 61G19	6.1	61.0	.	10/10	37	4.3	1.0	3.7	2953	4.7
Credenz	CZ 6730LL	6.7	59.0	.	10/09	35	2.3	0.0	1.0	3147	2.8
REV	6989X	6.9	57.6	.	10/10	32	2.0	0.0	1.0	3498	2.8
Credenz	CZ 6020X	6.0	56.9	.	10/12	33	1.7	0.0	1.0	3300	3.5
UGA	G15PR-340	6	55.3	.	10/10	36	2.3	1.0	2.7	3525	4.2
Credenz	CZ 5859LL	5.8	53.9	.	10/09	33	2.0	1.0	3.7	2722	5.0
Average			64.1 ⁹	-	10/11	37	2.2	0.2	1.4	3167	3.4
LSD at 10% Level			6.3	-	1	2	0.5	-	-	182	0.7
Std. Err. of Entry Mean			2.7	-	-	1	0.2	-	-	76	0.3
Model R-square			0.60	-	-	0.85	0.85	-	0.88	0.91	0.75
Maturity Groups VII and VIII-Early planted											
Dyna-Gro	S75XT26	7.5	86.1	70.4	10/12	41	2.0	.	.	2896	3.2
Pioneer	P76T54R2	7.6	83.9	72.2	10/10	39	2.3	.	.	3251	3.7
UGA	G15LL-9205	7	83.6	.	10/13	39	3.3	.	.	2851	2.2
UGA	G15PRLL-989	7	81.0	72.8	10/11	37	2.7	.	.	2604	3.2
AGSouth	AGS 730R2X	7.3	80.1	.	10/11	36	2.0	.	.	2536	3.7
UGA	G15PRLL-953	7	79.5	71.6	10/14	36	2.7	.	.	2760	3.0
UGA	G14-4396R2	7	79.2	70.8	10/07	37	3.7	.	.	2804	3.2
AGSouth	AGS 747LL	7.4	77.0	68.3	10/12	36	2.0	.	.	2827	3.8
Pioneer	P72A21X	7.2	76.9	68.2	10/12	33	2.0	.	.	2430	4.0
UGA	G13-3461R2	7	75.5	66.7	10/09	33	2.0	.	.	2735	3.0
UGA	G00-3213	7	75.5	.	10/08	37	2.3	.	.	2659	3.2
UGA	G14-4364R2	7	75.4	68.4	10/13	35	2.0	.	.	2489	3.5
MorSoy	MS 7057 RXT	7.0	75.2	68.2	10/11	36	2.0	.	.	3046	3.3
Southern Harvest	SH 7418 LL	7.4	74.7	69.5	10/09	39	2.0	.	.	2607	4.2
NK Brand	S74-M3	7.4	74.6	67.2	10/14	35	2.0	.	.	2494	4.3
NK Brand	S77-Y4X	7.7	74.4	.	10/12	39	2.0	.	.	3314	4.3
UGA	G17PR-1207HOLN	7	74.3	.	10/10	36	2.0	.	.	2638	2.2
UGA	1053HOLNR1	7	74.2	.	10/07	34	2.0	.	.	2881	4.2
Credenz	CZ 7007LL	7.0	74.0	72.4	10/10	39	3.7	.	.	2778	3.3
Credenz	CZ 7570LL	7.5	73.2	.	10/10	35	2.0	.	.	2620	3.0
UGA	1060HOLNR1	7	72.1	.	10/08	33	2.0	.	.	2812	3.3
AGSouth	AGS 738RR	7.3	71.3	66.7	10/07	33	2.0	.	.	2929	3.7
UGA	G14-2622R2	7	68.8	62.3	10/10	38	2.0	.	.	2896	3.5
SCCIA	Santee (Public)	7	67.9	.	10/08	35	3.0	.	.	2739	2.2
Credenz	CZ 6515LL	6.5	67.4	62.8	10/09	37	2.3	.	.	3446	2.7
GSDC	Cook (Public)	8	67.0	62.9	10/09	39	3.5	.	.	2920	4.3
REV	7100X	7.1	66.4	.	10/14	35	1.3	.	.	2891	4.7
SCCIA	Cheraw (Public)	8	64.8	58.4	10/16	39	2.0	.	.	3136	3.7
Dyna-Gro	S72XT80	7.2	62.0	.	10/12	35	2.0	.	.	3071	3.8
SCCIA	Paul (Public)	8	61.6	54.5	10/11	37	2.3	.	.	3973	2.7
Average			73.7 ¹⁰	67.0	10/10	36	2.3	-	-	2869	3.5
LSD at 10% Level			6.7	5.0	1	2	0.4	-	-	159	0.7
Std. Err. of Entry Mean			2.9	2.1	-	1	0.2	-	-	68	0.3
Model R-square			0.70	0.78	-	0.77	0.85	-	-	0.92	0.73

Tifton, Georgia:
MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem ³ rating	Petiole Retention ⁴ rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg							
<u>Maturity Groups VII and VIII-Late planted</u>											
Credenz	CZ 7380X	7.3	71.0	.	10/20	37	2.0	.	.	3001	3.3
Southern Harvest	SH 7418 LL	7.4	70.2	.	10/12	39	2.7	.	.	3257	2.8
AGSouth	AGS 730R2X	7.3	69.5	.	10/20	37	2.7	.	.	3054	3.5
UGA	G15LL-9205	7	69.5	.	10/15	39	2.7	.	.	3311	2.3
UGA	G00-3213	7	68.3	.	10/13	39	2.7	.	.	3395	2.7
UGA	G14-4364R2	7	68.1	.	10/19	39	3.0	.	.	2947	4.0
UGA	1053HOLNR1	7	67.6	.	10/20	33	2.7	.	.	3236	3.8
UGA	G17PR-1207HOLN	7	67.5	.	10/12	36	2.0	.	.	3324	3.0
MorSoy	MS 7057 RXT	7	67.2	.	10/11	38	2.0	.	.	3621	2.8
UGA	G14-4396R2	7	65.9	.	10/14	39	4.3	.	.	3583	3.7
Dyna-Gro	S75XT26	7.5	65.5	.	10/17	41	2.3	.	.	3349	3.8
UGA	G15PRLL-953	7	65.5	.	10/22	37	2.0	.	.	3390	2.7
Pioneer	P72A21X	7.2	65.5	.	10/15	35	2.0	.	.	3011	3.3
Pioneer	P76T54R2	7.6	64.9	.	10/18	41	2.0	.	.	3824	4.0
UGA	G13-3461R2	7	64.2	.	10/13	35	2.0	.	.	3264	3.0
NK Brand	S74-M3	7.4	63.3	.	10/15	36	2.0	.	.	2992	4.0
REV	7100X	7.1	62.9	.	10/19	37	1.7	.	.	3454	3.8
Credenz	CZ 7570LL	7.5	62.4	.	10/14	38	2.3	.	.	3031	4.0
AGSouth	AGS 747LL	7.4	60.9	.	10/20	40	2.0	.	.	3448	4.7
AGSouth	AGS 738RR	7.3	60.8	.	10/12	34	2.0	.	.	3432	4.0
UGA	G15PRLL-989	7	60.0	.	10/13	37	4.0	.	.	3189	2.5
UGA	1060HOLNR1	7	59.9	.	10/12	33	2.3	.	.	3280	3.7
Credenz	CZ 6515LL	6.5	59.5	.	10/19	41	2.0	.	.	3740	3.7
NK Brand	S77-Y4X	7.7	57.8	.	10/20	38	2.0	.	.	3972	4.3
SCCIA	Cheraw (Public)	8	57.6	.	10/22	39	2.0	.	.	3521	3.7
Credenz	CZ 7007LL	7	57.6	.	10/12	39	3.7	.	.	3249	3.5
SCCIA	Paul (Public)	8	57.5	.	10/14	36	3.3	.	.	4294	3.2
Dyna-Gro	S72XT80	7.2	57.1	.	10/20	35	1.7	.	.	3770	3.7
UGA	G14-2622R2	7	55.9	.	10/16	39	2.7	.	.	3622	3.7
GSDC	Cook (Public)	8	55.2	.	10/17	37	4.7	.	.	3221	3.8
SCCIA	Santee (Public)	7	36.4	.	10/17	32	2.7	.	.	3182	3.17
Average			62.4 ⁹	-	10/16	37	2.5	-	-	3386	3.5
LSD at 10% Level			6.1	-	1	2	0.9	-	-	185	0.6
Std. Err. of Entry Mean			2.6	-	-	1	0.4	-	-	78	0.2
Model R-square			0.77	-	-	0.85	0.67	-	-	0.89	0.74

Tifton, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Greenstem: 0 = absent, 1 = present.
4. Petiole: 1 = absent, 5 = most severe.
5. Seed quality rating: Rated 1 (very good) to 5 (very poor).
6. CV = 7.9% and df for EMS = 40.
7. CV = 10.2% and df for EMS = 40.
8. CV = 7.3% and df for EMS = 54.
9. CV = 7.2% and df for EMS = 52.
10. CV = 6.7% and df for EMS = 61.
11. CV = 7.2% and df for EMS = 60.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: Early-planted May 9, 2019, Late-planted May 29, 2019.

Harvested: MG V and VI on October 25, 2019 (all plantings).
MG VII and VIII on October 28, 2019 (Early-planted) and November 4, 2019 (Late-planted) .

Seeding Rate: 140,000 seeds per acre in 36" rows.

Soil Type: Tifton loamy sand.

Previous Crop: Corn.

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

Fertilization: 80 lb P₂O₅ and 120 lb K₂O/acre.

Management: Conventional tillage. Warrant, Select, Broadloom, Basagran, and Blazer used for weed control.
Tracer used for insect control. Telone II used for nematode control. Irrigated 13.9 inches.

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

Midville, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg					
<u>Maturity Group V</u>									
MU	S15-10434C	5.5	78.5	72.0	10/09	33	2.0	.	.
Dyna-Gro	S56XT99	5.6	76.5	.	10/05	36	1.3	.	.
Asgrow	AG55X0 RR2X/SR	5.5	74.8	.	10/02	37	2.0	.	.
Asgrow	AG53X0 RR2X	5.3	73.5	.	10/05	49	2.3	.	.
UniSouth	USG 7568XT	5.6	72.8	.	10/04	37	2.0	.	.
MU	S11-20242C	5.1	71.9	70.8	10/08	39	3.3	.	.
Credenz	CZ 5700X	5.7	71.6	.	10/10	33	1.3	.	.
Credenz	CZ 5299X	5.2	71.0	.	10/03	44	2.0	.	.
Local Seed	LS5588X	5.5	70.7	.	10/08	35	2.0	.	.
Credenz	CZ 5515LL	5.5	69.6	70.6	10/09	52	3.7	.	.
AGSouth	AGS 52X19S	5.2	69.4	.	10/04	47	2.0	.	.
Pioneer	P55A49X	5.5	68.8	76.0	10/06	31	1.0	.	.
Asgrow	AG59X9 RR2X	5.9	67.0	70.2	10/11	37	2.0	.	.
Dyna-Gro	SX19858XT	5.8	66.1	.	10/11	34	1.7	.	.
Credenz	CZ 5859LL	5.8	65.7	72.6	10/10	34	1.7	.	.
Local Seed	LS5386X	5.3	65.2	.	10/06	46	2.0	.	.
NK Brand	S57-A7X	5.7	65.1	71.1	10/08	34	1.3	.	.
MorSoy	MS 5607 RXT	5.6	64.7	70.6	10/04	37	2.0	.	.
VA Tech	V12-1416	5.1	63.6	66.7	10/02	31	1.7	.	.
MU	S13-1955C	5.5	59.0	65.3	10/09	34	2.0	.	.
MU	S14-9017R	5.3	54.4	62.9	10/10	35	1.7	.	.
Average			68.5 ⁴	69.9	10/06	38	2.0	-	-
LSD at 10% Level			9.7	NS	1	2	0.7	-	-
Std. Err. of Entry Mean			4.0	2.9	-	2	0.3	-	-
Model R-square			0.55	0.39	-	0.96	0.70	-	-
<u>Maturity Group VI</u>									
Credenz	CZ 6260LL	6.2	72.4	.	10/10	36	2.0	.	.
NK Brand	S64-T4X	6.4	71.3	71.8	10/11	41	2.0	.	.
MorSoy	MS 6208 RXT	6.2	70.1	73.6	10/13	38	2.0	.	.
Credenz	CZ 6109LL	6.1	69.9	74.1	10/10	43	2.0	.	.
UGA	G14-6063	6	69.9	69.2	10/03	39	2.0	.	.
Credenz	CZ 5859LL	5.8	69.8	75.0	10/12	35	1.7	.	.
REV	6989X	6.9	66.2	.	10/12	35	2.0	.	.
Credenz	CZ 6730LL	6.7	66.0	.	10/13	38	2.0	.	.
Credenz	CZ 6020X	6.0	65.7	.	10/11	34	1.7	.	.
Southern Harvest	SH 6020 LL/STS	6.1	65.7	.	10/10	39	2.0	.	.
Local Seed	LSX6501XS	6.5	65.2	.	10/10	41	2.3	.	.
Dyna-Gro	S62XT09	6.2	65.1	.	10/11	40	2.0	.	.
UGA	G13-2842R2	6	64.6	69.5	10/16	41	1.7	.	.
Southern Harvest	SH 6515 LL/STS	6.5	63.6	70.7	10/11	39	2.0	.	.
UniSouth	USG 76G45LS	6.4	63.4	.	10/12	39	1.7	.	.
Credenz	CZ 6520LL	6.5	62.5	.	10/13	41	2.0	.	.
Asgrow	AG69X0 RR2X	6.9	62.1	.	10/18	42	2.0	.	.
AGSouth	AGS 61G19	6.1	61.5	.	10/10	44	2.0	.	.
Dyna-Gro	S69XT57	6.9	60.7	66.7	10/19	43	1.7	.	.
Local Seed	LS6457XS	6.4	59.3	.	10/10	43	2.0	.	.
Dyna-Gro	SX19867XS	6.7	58.6	.	10/13	43	2.0	.	.
UGA	G15PR-340	6	57.9	62.1	10/11	38	2.0	.	.
Credenz	CZ 6770X	6.7	57.7	.	10/10	41	2.0	.	.
Asgrow	AG64X8 RR2X	6.4	56.9	.	10/16	43	2.0	.	.
UniSouth	USG 7698XT	6.9	56.0	.	10/18	43	2.0	.	.

Midville, Georgia:
MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 -----bu/acre-----	2-Yr Avg					
Maturity Group VI - continued									
Southern Harvest	SH 6815 LL	6.8	56.0	62.1	10/13	45	2.0	.	.
SCCIA	Musen (Public)	6	50.9	.	10/17	49	4.0	.	.
Average			63.3 ⁵	69.5	10/12	40	2.0	-	-
LSD at 10% Level			5.4	3.9	1	2	0.4	-	-
Std. Err. of Entry Mean			2.3	1.6	-	1	0.2	-	-
Model R-square			0.74	0.73	-	0.89	0.78	-	-
Maturity Groups VII and VIII									
AGSouth	AGS 738RR	7.3	75.8	75.2	10/14	34	1.7	.	.
Southern Harvest	SH 7418 LL	7.4	74.4	73.9	10/17	45	2.0	.	.
Credenz	CZ 7380X	7.3	74.1	.	10/18	41	2.3	.	.
AGSouth	AGS 730R2X	7.3	73.4	.	10/19	39	2.0	.	.
UGA	G15PRL-989	7	68.2	69.0	10/19	41	1.7	.	.
UGA	G00-3213	7	67.8	.	10/17	38	1.7	.	.
UGA	G14-4396R2	7	67.7	73.0	10/15	41	3.0	.	.
Pioneer	P72A21X	7.2	66.9	67.9	10/20	37	1.7	.	.
UGA	G15PRL-953	7	66.5	70.6	10/22	41	1.7	.	.
UGA	G13-3461R2	7	65.8	67.4	10/17	39	2.0	.	.
UGA	G17PR-1060HOLNR1	7	65.0	.	10/16	35	1.3	.	.
Credenz	CZ 7570LL	7.5	64.5	.	10/18	38	2.3	.	.
UGA	G17PR-1207HOLN	7	64.5	.	10/18	37	1.7	.	.
NK Brand	S74-M3	7.4	63.8	70.5	10/22	42	2.7	.	.
UGA	G17PR-1053HOLNR1	7	63.7	.	10/15	35	2.0	.	.
Dyna-Gro	S72XT80	7.2	62.2	.	10/20	41	1.3	.	.
Pioneer	P76T54R2	7.6	62.2	68.4	10/18	47	2.7	.	.
UGA	G15LL-9205	7	61.8	.	10/21	43	1.7	.	.
SCCIA	Santee (Public)	7	60.9	.	10/16	40	2.7	.	.
AGSouth	AGS 747LL	7.4	59.9	65.3	10/20	41	2.3	.	.
SCCIA	Paul (Public)	8	59.8	69.4	10/19	43	4.0	.	.
Dyna-Gro	S75XT26	7.5	59.5	66.9	10/20	45	2.0	.	.
REV	7100X	7.1	59.2	.	10/22	40	2.0	.	.
MorSoy	MS 7057 RXT	7	58.4	66.0	10/19	43	2.0	.	.
Credenz	CZ 6515LL	6.5	57.7	66.3	10/17	45	2.0	.	.
NK Brand	S77-Y4X	7.7	56.9	.	10/20	45	2.0	.	.
Credenz	CZ 7007LL	7	52.9	62.2	10/18	46	2.7	.	.
UGA	G14-4364R2	7	52.6	64.9	10/21	39	2.0	.	.
SCCIA	Cheraw (Public)	8	52.3	61.2	10/24	45	1.7	.	.
UGA	G14-2622R2	7	51.7	59.8	10/18	47	2.0	.	.
GSDC	Cook (Public)	8	46.6	57.7	10/17	43	2.7	.	.
Average			62.5 ⁶	67.1	10/18	41	2.1	-	-
LSD at 10% Level			8.5	6.8	1	3	0.8	-	-
Std. Err. of Entry Mean			3.6	2.9	-	1	0.4	-	-
Model R-square			0.69	0.6	-	0.83	0.63	-	-

Midville, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 10.1% and df for EMS = 39.
5. CV = 6.3% and df for EMS = 52.
6. CV = 10.0% and df for EMS = 60.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 20, 2019.
Harvested: November 12, 2019.
Seeding Rate: 140,000 seeds per acre in 36" rows.
Soil Type: Dothan sandy loam.
Previous Crop: Cotton.
Soil Test: P = Medium, K = High, pH = 6.3
Fertilization: 30 lb N, 90 lb P₂O₅, and 120 lb K₂O/acre.
Management: Conventional tillage. Warrant, Storm, and Select used for weed control. Karate and Dimilin used for insect control. Telone II used for nematode control. Headline used for disease control. Irrigated 17 inches.

Test conducted by R. Brooke, K. Cawley, M. Cofield, D. Dunn, J. Lanier, R. Milton, and T. Woodward.

Plains, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg					
<u>Maturity Group V</u>									
Dyna-Gro	SX19858XT	5.8	48.7	.	.	28	1.0	.	.
NK Brand	S57-A7X	5.7	46.6	51.5	.	29	1.0	.	.
Local Seed	LS5588X	5.5	46.2	.	.	29	1.3	.	.
Credenz	CZ 5700X	5.7	45.3	.	.	27	1.0	.	.
Dyna-Gro	S56XT99	5.6	41.9	.	.	29	1.3	.	.
Pioneer	P55A49X	5.5	41.8	42.3	.	23	1.0	.	.
Asgrow	AG59X9 RR2X	5.9	40.9	45.6	.	28	1.3	.	.
UniSouth	USG 7568XT	5.6	40.6	.	.	27	1.3	.	.
MorSoy	MS 5607 RXT	5.6	40.4	45.6	.	31	1.3	.	.
Credenz	CZ 5299X	5.2	36.2	.	.	33	1.3	.	.
AGSouth	AGS 52X19S	5.2	35.6	.	.	35	2.0	.	.
VA Tech	V12-1416	5.1	35.0	43.4	.	24	1.0	.	.
MU	S15-10434C	5.5	34.7	35.5	.	24	1.7	.	.
MU	S13-1955C	5.5	32.2	38.2	.	27	2.0	.	.
Credenz	CZ 5859LL	5.8	30.2	41.5	.	26	1.0	.	.
Local Seed	LS5386X	5.3	26.6	.	.	37	1.3	.	.
MU	S11-20242C	5.1	26.2	38.5	.	24	2.0	.	.
Asgrow	AG55X0 RR2X/SR	5.5	25.8	.	.	25	1.0	.	.
Credenz	CZ 5515LL	5.5	20.1	30.6	.	41	3.0	.	.
MU	S14-9017R	5.3	15.7	29.3	.	31	1.3	.	.
Asgrow	AG53X0 RR2X	5.3	12.8	.	.	35	1.7	.	.
Average			34.5 ⁴	40.2	-	29	1.4	-	-
LSD at 10% Level			8.9	6.3	-	2	0.6	-	-
Std. Err. of Entry Mean			3.8	2.7	-	1	0.2	-	-
Model R-square			0.79	0.72	-	0.92	0.58	-	-
<u>Maturity Group VI</u>									
Credenz	CZ 6730LL	6.7	47.8	.	.	27	1.3	.	.
Asgrow	AG69X0 RR2X	6.9	46.4	.	.	27	1.0	.	.
Credenz	CZ 6020X	6.0	46.3	.	.	25	1.3	.	.
Dyna-Gro	S69XT57	6.9	45.5	52.7	.	30	1.0	.	.
Dyna-Gro	S62XT09	6.2	44.6	.	.	27	1.3	.	.
Credenz	CZ 6770X	6.7	43.4	.	.	27	1.0	.	.
Asgrow	AG64X8 RR2X	6.4	43.3	.	.	28	1.7	.	.
Local Seed	LSX6501XS	6.5	43.0	.	.	31	1.7	.	.
SCCIA	Musen (Public)	6	42.6	.	.	39	2.0	.	.
MorSoy	MS 6208 RXT	6.2	41.5	50.7	.	24	1.7	.	.
Dyna-Gro	SX19867XS	6.7	41.4	.	.	31	1.0	.	.
Local Seed	LS6457XS	6.4	41.0	.	.	31	2.0	.	.
REV	6989X	6.9	39.1	.	.	25	1.0	.	.
Southern Harvest	SH 6815 LL	6.8	38.2	46.7	.	28	2.0	.	.
UniSouth	USG 7698XT	6.9	37.6	.	.	26	1.3	.	.
Credenz	CZ 6520LL	6.5	37.5	.	.	25	1.0	.	.
Credenz	CZ 6260LL	6.2	37.3	.	.	25	1.0	.	.
Southern Harvest	SH 6020 LL/STS	6.1	37.0	.	.	22	1.3	.	.
UGA	G13-2842R2	6	36.7	47.9	.	25	1.0	.	.
Credenz	CZ 6109LL	6.1	36.5	44.7	.	23	1.0	.	.
UGA	G14-6063	6	34.3	41.1	.	29	1.3	.	.
UniSouth	USG 76G45LS	6.4	34.0	.	.	23	1.0	.	.
NK Brand	S64-T4X	6.4	33.7	45.1	.	28	1.3	.	.
AGSouth	AGS 61G19	6.1	31.3	.	.	29	1.7	.	.
Southern Harvest	SH 6515 LL/STS	6.5	31.1	43.1	.	21	1.0	.	.

Plains, Georgia:
MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating		
			2019	2-Yr Avg							
			-----bu/acre-----								
Maturity Group VI - continued											
UGA	G15PR-340	6	28.4	44.3	.	25	1.3	.	.		
Credenz	CZ 5859LL	5.8	24.8	40.7	.	26	1.0	.	.		
Average			38.7 ⁵	45.7	-	27	1.3	-	-		
LSD at 10% Level			10.6	NS	-	3	0.5	-	-		
Std. Err. of Entry Mean			4.5	3.1	-	1	0.2	-	-		
Model R-square			0.48	0.73	-	0.82	0.58	-	-		
Maturity Groups VII and VIII											
SCCIA	Paul (Public)	8	56.5	58.0	.	32	2.0	.	.		
Pioneer	P72A21X	7.2	55.7	57.8	.	28	1.7	.	.		
Dyna-Gro	S75XT26	7.5	55.3	59.8	.	37	1.7	.	.		
UGA	G13-3461R2	7	53.9	57.6	.	30	2.0	.	.		
UGA	G15LL-9205	7	52.9	.	.	33	1.7	.	.		
Southern Harvest	SH 7418 LL	7.4	52.8	59.0	.	30	1.3	.	.		
Credenz	CZ 7380X	7.3	51.7	.	.	31	2.0	.	.		
UGA	G14-4396R2	7	51.3	50.5	.	33	2.0	.	.		
Credenz	CZ 6515LL	6.5	51.2	51.8	.	30	1.7	.	.		
UGA	G15PRLL-953	7	50.8	60.6	.	33	1.7	.	.		
UGA	G14-4364R2	7	50.4	56.0	.	35	1.7	.	.		
UGA	G00-3213	7	49.9	.	.	31	2.0	.	.		
UGA	G15PRLL-989	7	49.9	55.9	.	33	1.7	.	.		
Pioneer	P76T54R2	7.6	49.8	55.5	.	36	2.0	.	.		
MorSoy	MS 7057 RXT	7.0	49.0	52.7	.	35	2.0	.	.		
REV	7100X	7.1	48.4	.	.	30	1.7	.	.		
UGA	G17PR-1207HOLN	7	47.9	.	.	30	2.0	.	.		
NK Brand	S74-M3	7.4	47.5	52.8	.	31	1.3	.	.		
NK Brand	S77-Y4X	7.7	46.0	.	.	32	1.7	.	.		
AGSouth	AGS 747LL	7.4	45.6	50.8	.	31	2.0	.	.		
UGA	G17PR-1060HOLNR1	7	45.3	.	.	29	1.7	.	.		
Dyna-Gro	S72XT80	7.2	44.2	.	.	29	1.7	.	.		
AGSouth	AGS 730R2X	7.3	43.7	.	.	29	1.7	.	.		
UGA	G14-2622R2	7	43.6	43.6	.	37	2.0	.	.		
AGSouth	AGS 738RR	7.3	43.4	52.8	.	31	1.7	.	.		
UGA	G17PR-1053HOLNR1	7	42.5	.	.	29	1.7	.	.		
Credenz	CZ 7570LL	7.5	41.9	.	.	34	1.3	.	.		
Credenz	CZ 7007LL	7.0	41.4	43.8	.	33	2.3	.	.		
GSDC	Cook (Public)	8	38.6	43.8	.	37	2.7	.	.		
SCCIA	Cheraw (Public)	8	34.4	44.8	.	36	2.0	.	.		
SCCIA	Santee (Public)	7	21.9	.	.	34	3.0	.	.		
Average			47.0 ⁶	53.0	-	32	1.9	-	-		
LSD at 10% Level			7.6	6.8	-	3	0.6	-	-		
Std. Err. of Entry Mean			3.2	2.9	-	1	0.3	-	-		
Model R-square			0.72	0.55	-	0.75	0.47	-	-		

Plains, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 18.9% and df for EMS = 40.
5. CV = 20.0% and df for EMS = 52.
6. CV = 11.9% and df for EMS = 60.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 22, 2019.
Harvested: November 20, 2019.
Seeding Rate: 140,000 seeds per acre in 36" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: 0 lb N, 40 lb P₂O₅, and 0 lb K₂O/acre.
Previous Crop: Corn.
Management: Conventional tillage. Prowl, Valor, Blazer, and Select used for weed control. Indigo used for insect control. Domark used for disease control. Irrigated 6.8 inches.

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

Plains, Georgia: Late-Planted MG VII-VIII Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating		
			2019	2-Yr Avg							
			-----bu/acre-----								
Maturity Groups VII and VIII											
AGSouth	AGS 730R2X	7.3	37.6	.	.	21	1.7	.	.		
UGA	G13-3461R2	7.0	34.1	41.7	.	25	1.0	.	.		
UGA	G15LL-9205	7.0	34.0	.	.	27	1.7	.	.		
UGA	G14-4364R2	7.0	33.7	42.9	.	24	2.0	.	.		
UGA	G15PRLL-953	7.0	33.7	40.7	.	26	2.0	.	.		
UGA	G14-4396R2	7.0	32.5	39.2	.	23	2.0	.	.		
UGA	G00-3213	7.0	29.9	.	.	23	1.0	.	.		
SCCIA	Paul (Public)	8.0	29.8	36.0	.	19	1.7	.	.		
REV	7100X	7.1	29.7	.	.	23	1.7	.	.		
UGA	G15PRLL-989	7.0	29.0	36.4	.	25	1.7	.	.		
UGA	G17PR-1207HOLN	7.0	28.2	.	.	21	1.3	.	.		
Credenz	CZ 7570LL	7.5	28.1	.	.	24	1.3	.	.		
Dyna-Gro	S72XT80	7.2	27.9	.	.	23	1.3	.	.		
MorSoy	MS 7057 RXT	7.0	26.6	36.4	.	22	1.0	.	.		
Pioneer	P72A21X	7.2	26.6	38.2	.	22	1.0	.	.		
Southern Harvest	SH 7418 LL	7.4	26.4	33.8	.	21	1.3	.	.		
Pioneer	P76T54R2	7.6	26.3	38.1	.	22	1.7	.	.		
NK Brand	S74-M3	7.4	26.0	38.8	.	19	1.3	.	.		
NK Brand	S77-Y4X	7.7	25.7	.	.	24	2.0	.	.		
Dyna-Gro	S75XT26	7.5	25.4	32.8	.	25	1.3	.	.		
Credenz	CZ 7007LL	7.0	25.4	36.0	.	26	2.0	.	.		
Credenz	CZ 7380X	7.3	24.7	.	.	17	1.0	.	.		
UGA	G17PR-1053HOLNR1	7.0	23.4	.	.	19	1.3	.	.		
UGA	G17PR-1060HOLNR1	7.0	22.1	.	.	19	1.3	.	.		
UGA	G14-2622R2	7.0	21.4	32.2	.	24	2.0	.	.		
Credenz	CZ 6515LL	6.5	20.8	32.5	.	19	1.0	.	.		
SCCIA	Cheraw (Public)	8.0	19.7	27.6	.	23	1.3	.	.		
AGSouth	AGS 738RR	7.3	18.0	29.2	.	17	1.3	.	.		
AGSouth	AGS 747LL	7.4	17.3	27.4	.	23	1.7	.	.		
GSDC	Cook (Public)	8.0	16.5	25.5	.	23	1.7	.	.		
SCCIA	Santee (Public)	7.0	.	.	.	18	1.0	.	.		
Average			26.7 ⁴	35.0	-	22	1.5	-	-		
LSD at 10% Level			6.3	5.9	-	2	0.5	-	-		
Std. Err. of Entry Mean			2.6	2.5	-	1	0.2	-	-		
Model R-square			0.70	0.78	-	0.77	0.59	-	-		

1. Maturity date indicates when 95% of pods are dried.

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

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

4. CV = 17.2% and df for EMS = 58.

Note: Yields for 'Santee' were too low to reliably measure in this test.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: June 25, 2019.

Harvested: November 20, 2019.

Seeding Rate: 140,000 seeds per acre in 36" rows.

Soil Type: Greenville sandy loam.

Soil Test: P = Medium, K = High, and pH = 6.2.

Fertilization: 0 lb N, 40 lb P₂O₅, and 0 lb K₂O/acre.

Previous Crop: Corn.

Management: Conventional tillage. Prowl, Valor, Blazer, and Select used for weed control. Indigo used for insect control. Domark used for disease control. Irrigated 6.8 inches.

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

Griffin, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg					
<u>Maturity Group V</u>									
Local Seed	LS5386X	5.3	75.5	.	09/22	43	1.5	2711	3.0
Asgrow	AG53X0 RR2X	5.3	74.0	.	09/21	44	1.0	3052	3.5
MU	S14-9017R	5.3	73.0	70.2	09/26	34	1.2	2933	3.8
Pioneer	P55A49X	5.5	71.8	75.6	09/22	27	1.0	3562	2.3
MorSoy	MS 5607 RXT	5.6	69.5	75.7	09/26	39	1.3	2791	3.0
VA Tech	V12-1416	5.1	67.3	73.0	09/24	31	1.0	2966	2.7
Credenz	CZ 5299X	5.2	66.4	.	09/25	47	2.2	2947	2.0
NK Brand	S57-A7X	5.7	65.8	65.0	09/30	35	1.0	2903	2.7
Local Seed	LS5588X	5.5	65.6	.	09/24	36	1.2	2752	3.2
AGSouth	AGS 52X19S	5.2	65.0	.	09/25	42	1.7	3038	2.2
Dyna-Gro	S56XT99	5.6	64.9	.	09/22	36	1.0	2681	3.0
MU	S11-20242C	5.1	61.6	58.2	09/23	38	2.2	3248	2.3
MU	S15-10434C	5.5	61.5	65.2	09/28	32	1.3	3370	2.5
UniSouth	USG 7568XT	5.6	61.1	.	09/24	34	1.5	2812	3.0
Asgrow	AG55X0 RR2X/SR	5.5	60.3	.	09/20	33	1.0	3538	2.0
Dyna-Gro	SX19858XT	5.8	60.2	.	09/28	35	1.0	3119	3.3
Asgrow	AG59X9 RR2X	5.9	59.7	61.8	10/01	32	1.0	3866	3.0
Credenz	CZ 5859LL	5.8	58.5	65.7	09/30	33	1.2	2766	4.3
MU	S13-1955C	5.5	45.5	66.0	09/26	31	2.3	3282	4.0
Credenz	CZ 5515LL	5.5	45.2	57.0	09/28	47	3.0	2911	3.0
GSDC	Cook (Public)	8	39.7	.	.	.	.	3064	3.0
Average			63.1 ⁴	66.7	09/25	36	1.4	3062	2.9
LSD at 10% Level			10.2	10.0	2	4	0.5	268	0.7
Std. Err. of Entry Mean			3.6	3.9	1	2	0.2	113	0.3
Model R-square			0.79	0.41	0.83	0.85	0.79	0.80	0.69
<u>Maturity Group VI</u>									
MorSoy	MS 6208 RXT	6.2	43.9	.	10/01	34	1.0	3791	4.0
Credenz	CZ 6730LL	6.7	42.9	.	09/27	32	1.0	3659	3.2
Southern Harvest	SH 6515 LL/STS	6.5	42.9	.	09/26	37	1.0	3640	3.3
NK Brand	S64-T4X	6.4	42.2	.	09/28	35	2.7	3631	4.3
AGSouth	AGS 61G19	6.1	41.3	.	09/25	30	4.0	3596	3.8
Credenz	CZ 6109LL	6.1	40.8	.	09/26	34	1.3	3336	3.8
Credenz	CZ 6520LL	6.5	39.7	.	09/29	35	1.0	3648	2.8
UniSouth	USG 76G45LS	6.4	39.3	.	09/26	36	1.0	3588	3.5
UGA	G13-2842R2	6	39.0	.	10/01	34	1.0	3809	2.8
Southern Harvest	SH 6020 LL/STS	6.1	38.2	.	09/27	34	1.0	3454	3.0
Dyna-Gro	S62XT09	6.2	38.1	.	10/01	34	1.0	3760	3.8
Credenz	CZ 6260LL	6.2	35.2	.	09/25	33	1.3	3441	4.2
Dyna-Gro	SX19867XS	6.7	35.2	.	10/01	41	1.0	4327	3.0
Local Seed	LSX6501XS	6.5	34.0	.	09/28	38	1.7	4219	3.8
Credenz	CZ 5859LL	5.8	33.2	.	09/28	32	2.0	3108	5.0
UGA	G14-6063	6	32.8	.	09/26	38	1.7	3235	3.2
Southern Harvest	SH 6815 LL	6.8	32.4	.	10/03	36	2.0	3816	3.7
Asgrow	AG64X8 RR2X	6.4	30.9	.	09/30	36	1.3	4350	3.3
REV	6989X	6.9	30.4	.	10/03	30	1.0	4289	4.0
UniSouth	USG 7698XT	6.9	30.0	.	10/07	39	1.7	3886	2.5

Griffin, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg					
<u>Maturity Group VI - continued</u>									
GSDC	Cook (Public)	8	30.0	.	09/28	34	1.0	4365	3.4
Dyna-Gro	S69XT57	6.9	30.0	.	10/10	36	1.3	3704	4.0
Asgrow	AG69X0 RR2X	6.9	29.4	.	10/05	37	1.0	3855	4.0
UGA	G15PR-340	6	28.9	.	10/01	38	2.3	4334	3.8
Local Seed	LS6457XS	6.4	24.7	.	10/05	37	2.3	3856	3.7
SCCIA	Musen (Public)	6	24.1	.	10/04	42	2.7	4018	2.7
Average			34.8 ⁵	-	09/30	35	1.5	3819	3.6
LSD at 10% Level			8.3	-	5	4	0.9	276	0.8
Std. Err. of Entry Mean			3.5	0.0	2	2	0.4	117	0.3
Model R-square			0.57	-	0.63	0.61	0.66	0.83	0.62

Maturity Groups VII and VIII

Due to inconsistent plot yields, results are omitted.

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. CV = 9.9% and df for EMS = 26.
5. CV = 17.6% and df for EMS = 53.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

	<u>MG V</u>	<u>MG VI</u>
Planted:	May 5, 2019.	May 9, 2019
Harvested:	October 17, 2019.	November 5, 2019
Seeding Rate:	140,000 seeds per acre in 30" rows.	
Soil Type:	Cecil sandy loam.	
Previous Crop:	Fallow.	Corn.
Soil Test:	P =Medium, K =High pH = 6.0	pH = 6.1
Fertilization:	0 lb N, 120 lb P ₂ O ₅ , and 130 lb K ₂ O/acre.	
Management:	Conventional tillage. Warrant, Prowl, Poast, Classic, and Storm used for weed control.	

Test conducted by H. Jordan, G. Ware, S. Brannon, and H. Jackson.

Athens, Georgia: MG V-Vill Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	Yield		Mat. ¹ date	Plant Ht. in	Green Lodg. ² rating	Green Stem ³ rating	Petiole Retention ³ rating	Shatter %	Seed Size no./lb	Seed Quality ⁴ rating
		2019 ----bu/acre----	2-Yr Avg								
Maturity Group V											
Dyna-Gro	SX19858XT	53.1	.	10/13	34	1.3	0.3	0.0	0	2554	4.3
NK Brand	S57-A7X	52.1	57.6	10/10	38	1.0	1.0	1.0	0	2467	3.5
Asgrow	AG53X0 RR2X	49.3	.	09/27	42	1.0	0.3	0.3	5	2884	5.0
Local Seed	LS5386X	48.9	.	09/29	37	1.0	0.0	0.0	3	2358	4.7
Credenz	CZ 5700X	48.8	.	10/15	34	1.0	1.0	0.3	0	2447	3.8
MU	S14-9017R	47.9	60.9	09/28	30	1.0	0.3	0.3	7	2508	5.0
UniSouth	USG 7568XT	45.6	.	09/27	34	1.3	0.3	0.3	6	2456	3.7
Credenz	CZ 5515LL	45.0	49.3	10/02	47	2.0	0.7	0.7	3	2533	3.5
Credenz	CZ 5859LL	44.8	63.0	10/05	37	1.3	0.7	0.0	1	2422	3.8
MU	S13-1955C	44.5	60.6	09/26	37	2.7	0.7	0.7	7	2973	5.0
Credenz	CZ 5299X	43.5	.	09/25	33	1.0	0.3	0.3	13	2835	3.7
AGSouth	AGS 52X19S	43.2	.	09/25	35	1.0	0.0	0.0	23	2930	4.0
Asgrow	AG59X9 RR2X	42.4	47.0	10/15	36	1.0	0.0	0.0	1	2939	4.0
Pioneer	P55A49X	41.8	61.6	09/21	30	1.0	0.0	0.0	10	3081	4.3
MU	S15-10434C	41.3	52.9	09/30	34	1.7	0.7	0.7	2	2489	3.8
Local Seed	LS5588X	40.2	.	09/28	34	1.0	0.7	0.7	4	2360	3.7
Dyna-Gro	S56XT99	40.0	.	09/27	33	1.0	0.7	0.3	8	2380	3.2
MorSoy	MS 5607 RXT	39.5	60.0	09/28	34	1.0	1.0	0.7	7	2466	3.3
Asgrow	AG55X0 RR2X/SR	38.2	.	09/23	36	1.3	0.0	0.0	17	2762	4.2
VA Tech	V12-1416	30.1	45.8	09/23	31	1.7	0.0	0.0	50	3022	4.5
MU	S11-20242C	26.9	47.6	09/25	41	3.0	0.7	0.0	57	2917	4.0
Average		43.2 ⁵	55.1	09/30	36	1.4	0.4	0.3	11	2655	4.1
LSD at 10% Level		6.9	8.3	3	4	0.5	-	-	7	158	0.6
Std. Err. of Entry Mean		2.9	3.5	1	1	0.2	0.2	0.2	3	65	0.3
Model R-square		0.76	0.79	0.95	0.79	0.77	0.59	0.49	0.93	0.89	0.73
Maturity Group VI											
Credenz	CZ 6020X	64.8	.	10/15	36	1.0	0.0	0.0	0	2899	2.8
REV	6989X	60.3	.	10/15	36	1.0	0.0	0.0	0	2672	3.2
Dyna-Gro	SX19867XS	58.7	.	10/16	42	1.0	0.0	0.0	0	2731	2.7
Credenz	CZ 6730LL	57.8	.	10/14	40	1.0	0.0	0.0	0	2686	2.0
UGA	G14-6063	57.8	56.8	10/06	42	2.3	0.3	0.3	0	2401	2.3
Credenz	CZ 6260LL	57.7	.	10/06	38	2.0	0.0	0.0	0	2094	3.2
NK Brand	S64-T4X	57.6	60.3	10/04	39	2.3	0.3	0.0	0	2303	4.0
UGA	G13-2842R2	57.3	55.3	10/18	37	1.0	0.7	0.3	0	2265	3.0
MorSoy	MS 6208 RXT	56.8	58.7	10/16	37	1.0	0.0	0.0	0	2664	3.3
Credenz	CZ 6109LL	56.8	61.5	10/14	43	1.7	1.0	0.7	0	2398	3.2
Southern Harvest	SH 6515 LL/STS	56.5	58.6	10/14	43	1.3	0.7	0.7	0	2417	2.7
UniSouth	USG 76G45LS	56.2	.	10/13	39	1.0	0.7	0.0	0	2470	3.8
Asgrow	AG69X0 RR2X	56.2	.	10/24	40	1.0	0.0	0.0	0	2376	2.7
Credenz	CZ 5859LL	55.9	64.0	09/30	39	1.7	0.0	0.0	0	2265	3.3
Local Seed	LSX6501XS	55.8	.	10/16	40	1.7	0.0	0.0	0	2511	4.0
Credenz	CZ 6520LL	55.7	.	10/19	37	1.0	0.7	0.3	0	2484	3.2
Asgrow	AG64X8 RR2X	55.4	.	10/18	42	1.7	0.0	0.0	0	2985	3.0
Dyna-Gro	S62XT09	55.3	.	10/16	38	1.3	0.0	0.0	0	2604	3.2
UGA	G15PR-340	55.2	54.2	10/21	42	2.0	1.0	1.0	0	2855	3.7
Dyna-Gro	S69XT57	54.0	50.7	10/24	44	1.0	0.0	0.0	0	2660	3.0
UniSouth	USG 7698XT	53.6	.	10/24	43	1.0	0.0	0.0	0	2637	2.8
Southern Harvest	SH 6020 LL/STS	53.0	.	10/12	39	1.0	1.0	0.7	0	2329	3.2
Credenz	CZ 6770X	52.8	.	10/18	43	1.0	0.0	0.0	0	2680	2.2
AGSouth	AGS 61G19	52.3	.	10/01	53	3.3	0.3	0.3	0	2658	4.0
Local Seed	LS6457XS	52.0	.	10/20	42	1.0	0.0	0.0	0	2665	3.2

Athens, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	Yield		Mat. ¹ date	Plant Ht. in	Lodg. ² rating	Green Stem ³ rating	Petiole Retention ³ rating	Shatter %	Seed Size no./lb	Seed Quality ⁴ rating
		2019 ----bu/acre----	2-Yr Avg								
Maturity Group VI - continued											
Southern Harvest	SH 6815 LL	51.7	56.3	10/17	50	1.7	0.0	0.0	0	2422	3.0
SCCIA	Musen (Public)	49.0	.	10/23	52	2.3	0.0	0.0	0	2534	2.0
Average		55.8 ⁶	57.6	10/15	41	1.5	0.3	0.2	-	2546	3.1
LSD at 10% Level		NS	5.9	4	2	0.5	-	-	-	128	0.7
Std. Err. of Entry Mean		0.2	2.5	2	1	0.2	0.2	0.2	-	52	0.3
Model R-square		0.44	0.35	0.88	0.92	0.81	0.69	0.59	-	0.90	0.65
Maturity Groups VII and VIII											
Southern Harvest	SH 7418 LL	61.3	.	10/21	45	1.7	0.0	0.0	0	2283	2.5
SCCIA	Cheraw (Public)	60.6	.	10/25	46	1.7	0.0	0.0	0	2954	2.8
NK Brand	S77-Y4X	58.3	.	10/23	47	1.3	0.0	0.0	0	2968	3.5
SCCIA	Santee (Public)	58.2	.	10/19	48	2.0	0.0	0.0	0	2574	2.0
MorSoy	MS 7057 RXT	58.2	.	10/21	42	1.0	0.0	0.0	0	2766	3.0
UGA	G14-2622R2	57.7	.	10/24	46	1.7	0.0	0.0	0	2471	3.8
UGA	G15LL-9205	57.4	.	10/20	47	3.3	0.0	0.0	0	2648	2.7
Credenz	CZ 6515LL	57.3	.	10/22	45	1.7	0.0	0.0	0	2973	3.0
UGA	G15PRLL-989	57.3	.	10/20	45	2.0	0.0	0.0	0	2436	2.8
Dyna-Gro	S72XT80	57.3	.	10/22	39	1.0	0.0	0.0	0	2879	3.7
UGA	G14-4364R2	57.1	.	10/21	43	1.3	0.0	0.0	0	2319	3.3
Pioneer	P76T54R2	56.5	.	10/23	46	1.3	0.0	0.0	0	2909	3.0
UGA	G17PR-1053HOLNR1	56.4	.	10/24	39	1.0	0.0	0.0	0	2727	4.3
GSDC	Cook (Public)	56.4	.	10/21	46	2.0	0.0	0.0	0	2318	3.3
Credenz	CZ 7007LL	56.3	.	10/21	43	4.0	0.0	0.0	0	2590	3.3
AGSouth	AGS 747LL	56.2	.	10/24	47	2.0	0.0	0.0	0	2695	3.7
AGSouth	AGS 738RR	56.1	.	10/23	42	2.0	0.0	0.0	0	2931	3.8
UGA	G17PR-1207HOLN	55.1	.	10/22	43	2.3	0.0	0.0	0	2404	4.0
UGA	G17PR-1060HOLNR1	54.8	.	10/22	36	1.7	0.0	0.0	0	2835	4.0
UGA	G14-4396R2	54.6	.	10/21	45	2.0	0.0	0.0	0	2570	3.3
Dyna-Gro	S75XT26	54.5	.	10/24	46	1.0	0.0	0.0	0	2588	3.0
AGSouth	AGS 730R2X	54.1	.	10/22	43	1.7	0.0	0.0	0	2268	3.0
Credenz	CZ 7570LL	53.8	.	10/24	42	2.0	0.0	0.0	0	2314	4.7
UGA	G13-3461R2	53.2	.	10/19	39	2.0	0.0	0.0	0	2312	3.0
NK Brand	S74-M3	51.7	.	10/20	41	1.3	0.0	0.0	0	2418	3.2
UGA	G00-3213	51.5	.	10/20	44	2.0	0.0	0.0	0	2371	2.8
SCCIA	Paul (Public)	51.4	.	10/22	40	2.0	0.0	0.0	0	2849	2.7
REV	7100X	51.2	.	10/23	40	1.0	0.0	0.0	0	2675	4.2
Pioneer	P72A21X	50.2	.	10/21	37	1.0	0.0	0.0	0	2235	5.0
UGA	G15PRLL-953	49.6	.	10/23	46	2.3	0.0	0.0	0	2448	2.0
Average		55.5 ⁷	-	10/22	43	1.8	-	-	-	2577	3.3
LSD at 10% Level		NS	-	2	2	0.6	-	-	-	116	0.4
Std. Err. of Entry Mean		3.6	-	1	1	0.3	-	-	-	48	0.2
Model R-square		0.32	-	0.68	0.82	0.77	-	-	-	0.93	0.88

Athens, Georgia: MG V-VIII Soybean Variety Performance, 2019, Irrigated (Continued)

1. Maturity date indicates when 95% of pods are dried.
2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
3. Green stem and petiole retention rated as 0 = absent to 1 = most severe for Athens.
4. Seed quality rating: Rated 1 (very good) to 5 (very poor).
5. CV = 11.6% and df for EMS = 40.
6. CV = 7.8% and df for EMS = 52.
7. CV = 11.2% and df for EMS = 61.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 16, 2019
Harvested: November 7, 2019.
Seeding Rate: 140,000 seed per acre in 30" rows.
Soil Type: Wickham sandy loam.
Previous Crop: Sorghum.
Soil Test: P = Low, K = Low, and pH = 6.3
Fertilization: 16 lb N, 86 lb P₂O₅, and 99 lb K₂O/acre.
Management: Conventional tillage. Prowl H2O, Valor, Poast, Reflex, Classic, and cultivated once for weed control.
Irrigated 12.5 inches.

Test conducted by Z. Li, E.D. Wood, S.L. Finnerty, W.E. Baxter, B.F. Wilson, G.T. Gokalp, K.L. Yeargin, E.A. Eleruja, B.A. Little, T.O. Bouswma, S.D. Strickland, H. Jordan, G. Ware, J. Griffin, and P.K. Roach.

Calhoun, Georgia: MG V-VI Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 -----bu/acre-----	2-Yr Avg					
Maturity Group V									
Dyna-Gro	S56XT99	5.6	50.9	.	09/24	37	1.0	3257	1.8
Local Seed	LS5386X	5.3	49.6	.	09/24	30	1.0	3315	2.0
MorSoy	MS 5607 RXT	5.6	49.3	48.2	09/24	32	1.0	3557	1.8
NK Brand	S57-A7X	5.7	49.0	55.2	10/01	38	1.0	3424	2.7
MU	S11-20242C	5.1	48.7	38.6	09/17	33	2.3	3823	2.3
UniSouth	USG 7568XT	5.6	46.6	.	09/20	35	1.0	3376	1.7
Credenz	CZ 5859LL	5.8	46.4	49.2	09/26	34	1.0	3288	3.0
Local Seed	LS5588X	5.5	46.1	.	09/20	38	1.0	3284	2.2
MU	S14-9017R	5.3	45.0	43.6	09/25	33	1.0	3304	4.3
Credenz	CZ 5299X	5.2	43.0	.	09/15	37	1.0	3738	1.7
Credenz	CZ 5700X	5.7	42.9	.	10/02	38	1.0	3551	2.8
AGSouth	AGS 52X19S	5.2	42.8	.	09/23	38	1.0	3900	2.2
Pioneer	P55A49X	5.5	41.8	46.7	09/15	27	1.3	3710	3.0
MU	S13-1955C	5.5	41.0	41.4	09/18	27	1.0	3765	3.0
MU	S15-10434C	5.5	40.7	39.4	09/16	25	1.3	4004	2.5
Dyna-Gro	SX19858XT	5.8	40.6	.	09/30	36	1.0	3698	2.7
Asgrow	AG53X0 RR2X	5.3	40.2	.	09/21	38	1.0	3529	3.7
Asgrow	AG55X0 RR2X/SR	5.5	39.4	.	09/27	31	1.3	3628	3.5
Credenz	CZ 5515LL	5.5	38.1	37.6	09/23	43	1.7	3574	2.7
Asgrow	AG59X9 RR2X	5.9	37.0	48.4	10/04	33	1.0	4177	3.7
VA Tech	V12-1416	5.1	29.2	38.8	09/20	27	1.0	3686	3.0
Average			43.3 ⁴	44.3	09/23	34	1.1	3600	2.7
LSD at 10% Level			9.1	9.4	7	6	0.4	358	0.7
Std. Err. of Entry Mean			3.8	4.0	3	2	0.2	150	0.3
Model R-square			0.57	0.30	0.66	0.67	0.67	0.60	0.74
Maturity Group VI									
AGSouth	AGS 61G19	6.1	56.7	.	10/03	26	3.3	3299	3.8
Credenz	CZ 5859LL	5.8	53.3	53.7	09/30	31	2.0	3049	2.8
Southern Harvest	SH 6815 LL	6.8	53.3	59.0	09/27	29	2.3	3632	3.0
UGA	G14-6063	6	50.8	57.3	10/04	30	2.0	2865	1.7
NK Brand	S64-T4X	6.4	50.0	54.9	09/30	32	3.3	3693	3.7
UniSouth	USG 76G45LS	6.4	49.6	.	09/25	30	3.0	3365	2.2
Credenz	CZ 6109LL	6.1	48.8	49.4	09/30	31	2.7	3491	2.3
Southern Harvest	SH 6020 LL/STS	6.1	47.4	.	09/24	36	2.0	3614	2.0
Credenz	CZ 6520LL	6.5	46.2	.	10/04	35	2.0	3503	2.7
Credenz	CZ 6260LL	6.2	45.4	.	09/27	27	3.0	3162	2.0
Southern Harvest	SH 6515 LL/STS	6.5	44.6	53.8	09/27	34	2.3	3598	2.0
Credenz	CZ 6730LL	6.7	43.9	.	09/25	33	2.7	3881	3.3
SCCIA	Musen (Public)	6	42.5	.	10/07	39	3.7	4018	2.8
Dyna-Gro	S69XT57	6.9	41.5	49.1	10/07	35	2.0	3801	3.7
Asgrow	AG69X0 RR2X	6.9	41.2	.	10/04	37	1.3	3953	3.8
UniSouth	USG 7698XT	6.9	40.4	.	10/11	33	2.3	4125	3.0
Local Seed	LSX6501XS	6.5	40.2	.	10/05	40	2.0	4427	3.3
UGA	G13-2842R2	6	39.9	51.9	09/27	32	1.3	4014	2.7
REV	6989X	6.9	39.7	.	09/28	35	1.3	3868	3.0
Credenz	CZ 6020X	6.0	38.1	.	09/27	28	1.3	4485	3.0

Calhoun, Georgia:
MG V-VI Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 ----bu/acre----	2-Yr Avg					
Maturity Group VI - continued									
Dyna-Gro	S62XT09	6.2	37.5	.	10/03	36	2.3	3784	3.3
MorSoy	MS 6208 RXT	6.2	36.7	47.8	09/30	27	3.0	3680	2.8
UGA	G15PR-340	6	34.3	47.9	10/01	33	4.0	4531	2.8
Credenz	CZ 6770X	6.7	34.1	.	10/03	46	1.0	4819	3.7
Asgrow	AG64X8 RR2X	6.4	33.2	.	10/01	42	2.3	4763	3.2
Dyna-Gro	SX19867XS	6.7	28.7	.	09/27	44	1.0	4777	3.2
Local Seed	LS6457XS	6.4	28.4	.	09/30	39	1.0	4570	3.3
Average			42.5 ⁵	52.5	09/30	34	2.3	3880	2.9
LSD at 10% Level			6.7	7.7	8	4	1.1	330	0.7
Std. Err. of Entry Mean			2.8	3.2	3	2	0.5	139	0.3
Model R-square			0.78	0.56	0.45	0.80	0.62	0.88	0.68

1. Maturity date indicates when 95% of pods are dried.

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

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

4. CV = 15.3% and df for EMS = 40.

5. CV = 11.6% and df for EMS = 52.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 15, 2019.

Harvested: MG V: October 18, 2019.

MG VI: October 24, 2019.

Seeding Rate: 140,000 seeds per acre in 30" rows.

Soil Type: Wax loam.

Previous Crop: Corn.

Soil Test: P = High, K = Very High, and pH = 5.9

Fertilization: None.

Management: Conventional tillage. Prowl, Warrant, and Select Max used for weed control.

Irrigated 10.3 inches.

Test conducted by H. Jordan, G. Ware, M. Tucker, and T. Turnquist.

Yield Summary: Ultra-Late Plantings at Two Locations Soybean Variety Performance, 2016-2019

Company or Brand Name	Variety	Yields							
		Attapulcus		Midville			Across sites		
		2017	2019	2016	2017	2018	2019	2019	
AGSouth	AGS 61G19	6.1	.	32.4	.	.	.	33.9	33.2
AGSouth	AGS 730R2X	7.3	.	16.4	.	.	.	27.8	22.1
Asgrow	AG53X0 RR2X	5.3	.	28.9	.	.	.	28.6	28.8
Asgrow	AG55X0 RR2X/SR	5.5	.	30.4	.	.	.	28.0	29.2
Asgrow	AG59X9 RR2X	5.9	.	21.7	.	.	.	37.9	29.8
Asgrow	AG64X8 RR2X	6.4	.	24.8	.	.	.	25.7	25.2
Clemson	SC10-179	-	.	29.9	55.2	.	.	30.1	30.0
Clemson	SC10-406RR	-	.	35.8	58.8	.	.	24.2	30.0
Credenz	CZ 5299X	5.2	.	25.8	.	.	.	24.9	25.4
Credenz	CZ 5515LL	5.5	.	20.8	.	.	.	25.6	23.2
Credenz	CZ 5700X	5.7	.	19.7	.	.	.	16.7	18.2
Credenz	CZ 5859LL	5.8	.	37.5	.	.	.	36.0	36.7
Credenz	CZ 6020X	6.0	.	12.6	.	.	.	31.1	21.9
Credenz	CZ 6260LL	6.2	.	29.3	.	.	.	31.0	30.1
Credenz	CZ 6515LL	6.5	.	14.6	.	.	.	27.8	21.2
Credenz	CZ 6520LL	6.5	.	20.6	.	.	.	31.2	25.9
Credenz	CZ 6730LL	6.7	.	21.4	.	.	.	42.4	31.9
Dyna-Gro	S49XT39	4.9	.	30.7	.	.	.	31.3	31.0
Dyna-Gro	S56XT99	5.6	.	27.1	.	.	.	29.8	28.4
Dyna-Gro	S62XT09	6.2	.	32.8	.	.	.	33.5	33.1
Dyna-Gro	S69XT57	6.9	.	24.0	.	.	.	38.1	31.1
Local Seed	LS5588X	5.5	.	28.0	.	.	.	36.2	32.1
Local Seed	LSX6501XS	6.5	.	28.9	.	.	.	31.8	30.3
MorSoy	MS 5607 RXT	5.6	.	28.0	.	.	.	37.1	32.6
MorSoy	MS 6208 RXT	6.2	.	33.1	.	.	.	26.6	29.8
MorSoy	MS 7057 RXT	7.0	.	31.3	.	.	.	24.5	27.9
MU	S11-20242C	5.1	.	21.3	.	.	.	19.2	20.2
NK Brand	S57-A7X	5.7	.	26.7	.	.	.	19.4	23.0
NK Brand	S64-T4X	6.4	.	31.0	.	.	.	31.9	31.4
NK Brand	S74-M3	7.4	16.3	23.6	16.2	35.6	22.3	26.6	25.1
NK Brand	S77-Y4X	7.7	.	24.5	.	.	.	22.7	23.6
Pioneer	95Y70	-	.	20.8	.	.	.	26.4	23.6
Pioneer	P55A49X	5.5	.	20.3	.	.	.	33.1	26.7
Pioneer	P72A21X	7.2	.	21.3	.	.	.	23.5	22.4
REV	6989X	6.9	.	24.3	.	.	.	36.6	30.4
REV	7100X	7.1	.	25.1	.	.	.	36.1	30.6
SCCIA	Cheraw (Public)	8	.	16.8	.	.	.	22.6	19.7
SCCIA	Musen (Public)	6	.	28.7	.	.	.	34.4	31.6
SCCIA	Paul (Public)	8	.	.	.	.	.	22.2	.
Southern Harvest	SH 6020 LL/STS	6.1	.	15.7	.	.	.	40.2	27.9
Southern Harvest	SH 6815 LL	6.8	.	21.5	.	.	21.5	19.2	20.3
UniSouth	USG 7568XT	5.6	.	25.0	.	.	.	26.6	25.8
UniSouth	USG 7698XT	6.9	.	25.1	.	.	.	34.6	29.8
UniSouth	USG 76G45LS	6.4	.	14.8	.	.	.	25.5	20.1
Average				24.9				29.4	27.2
LSD at 10% Level				7.4				7.6	7.7
Model R-square				0.86				0.79	0.65

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry. Yields are calculated as 60 pounds per bushel at 13% moisture.

NOTE: Prior year yields are listed when available to show variability across time and locations. Descriptive statistics are omitted in prior years due to the small number of entries retested.

**Midville, Georgia:
Ultra-Late Planted Soybean Variety Performance, 2019, Irrigated**

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Seed Size no./lb	Seed Quality ⁵ rating
			2019 -----bu/acre-----	2-Yr Avg					
Credenz	CZ 6730LL	6.7	42.4	.	.	14	1.0	2497	3.5
Southern Harvest	SH 6020 LL/STS	6.1	40.2	.	.	14	1.0	2204	3.0
Dyna-Gro	S69XT57	6.9	38.1	.	.	16	1.0	2615	3.8
Asgrow	AG59X9 RR2X	5.9	37.9	.	.	16	1.0	2693	3.3
MorSoy	MS 5607 RXT	5.6	37.1	.	.	17	1.0	2635	3.5
REV	6989X	6.9	36.6	.	.	12	1.0	2878	3.3
Local Seed	LS5588X	5.5	36.2	.	.	14	1.0	2584	3.5
REV	7100X	7.1	36.1	.	.	16	1.0	2929	3.8
Credenz	CZ 5859LL	5.8	36.0	.	.	17	1.0	2827	4.0
UniSouth	USG 7698XT	6.9	34.6	.	.	15	1.0	2741	3.5
SCCIA	Musen (Public)	6	34.4	.	.	18	1.0	2630	3.0
AGSouth	AGS 61G19	6.1	33.9	.	.	20	1.0	2890	4.3
Dyna-Gro	S62XT09	6.2	33.5	.	.	15	1.0	2800	3.5
Pioneer	P55A49X	5.5	33.1	.	.	12	1.0	3026	4.0
NK Brand	S64-T4X	6.4	31.9	.	.	16	1.0	2579	4.0
Local Seed	LSX6501XS	6.5	31.8	.	.	15	1.0	2527	4.0
Dyna-Gro	S49XT39	4.9	31.3	.	.	16	1.0	2507	4.0
Credenz	CZ 6520LL	6.5	31.2	.	.	15	1.0	2462	2.8
Credenz	CZ 6020X	6.0	31.1	.	.	11	1.0	2587	3.8
Credenz	CZ 6260LL	6.2	31.0	.	.	17	1.0	2541	3.8
Clemson	SC10-179	-	30.1	.	.	23	2.0	3362	3.3
Dyna-Gro	S56XT99	5.6	29.8	.	.	17	1.0	2542	3.3
Asgrow	AG53X0 RR2X	5.3	28.6	.	.	15	1.0	2770	3.5
Asgrow	AG55X0 RR2X/SR	5.5	28.0	.	.	17	1.0	2711	3.3
AGSouth	AGS 730R2X	7.3	27.8	.	.	13	1.0	2502	4.0
Credenz	CZ 6515LL	6.5	27.8	.	.	15	1.0	2692	3.0
NK Brand	S74-M3	7.4	26.6	24.4	.	12	1.0	2855	4.0
MorSoy	MS 6208 RXT	6.2	26.6	.	.	13	1.0	2895	3.3
UniSouth	USG 7568XT	5.6	26.6	.	.	17	1.0	2614	3.3
Pioneer	95Y70	-	26.4	.	.	16	1.0	2761	2.8
Asgrow	AG64X8 RR2X	6.4	25.7	.	.	15	1.0	2832	3.3
Credenz	CZ 5515LL	5.5	25.6	.	.	19	1.0	2603	3.5
UniSouth	USG 76G45LS	6.4	25.5	.	.	14	1.0	2381	3.5
Credenz	CZ 5299X	5.2	24.9	.	.	15	1.0	2853	3.0
MorSoy	MS 7057 RXT	7.0	24.5	.	.	14	1.0	2885	4.0
Clemson	SC10-406RR	-	24.2	.	.	19	1.0	3285	3.5
Pioneer	P72A21X	7.2	23.5	.	.	14	1.0	2409	3.8
NK Brand	S77-Y4X	7.7	22.7	.	.	14	1.0	3016	3.5
SCCIA	Cheraw (Public)	8	22.6	.	.	15	1.0	2880	4.3
SCCIA	Paul (Public)	8	22.2	.	.	12	1.0	2797	3.3
NK Brand	S57-A7X	5.7	19.4	.	.	13	1.0	2766	3.8
MU	S11-20242C	5.1	19.2	.	.	18	1.0	2839	2.8
Southern Harvest	SH 6815 LL	6.8	19.2	20.3	.	16	1.0	2647	3.5
Credenz	CZ 5700X	5.7	16.7	.	.	12	1.0	2669	3.3
Average			29.4 ⁴	22.4	-	15	1.0	2715	3.5
LSD at 10% Level			7.6	3.9	-	3	-	261	0.7
Std. Err. of Entry Mean			3.2	2.2	-	1	-	110	0.3
Model R-square			0.79	0.51	-	0.80	-	0.81	0.68

Midville, Georgia:
Ultra-Late Planted Soybean Variety Performance, 2019, Irrigated (Continued)

1. Maturity date indicates when 95% of pods are dried.
 2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
 3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
 4. CV = 15.4% and df for EMS = 43.
- Bolded** yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: August 7, 2019.
Harvested: December 10, 2019.
Seeding Rate: 225,000 seeds per acre in 7" rows.
Soil Type: Dothan sandy loam.
Previous Crop: Corn.
Soil Test: P = High, K = Medium, and pH = 6.5.
Fertilization: 30 lbs of N and 0.25 lbs of B/acre.
Management: Conventional tillage. Warrant, Basagran, and Blazer used for weed control. Prevathon used for insect control. Irrigated 6.9 inches.

Test conducted by R. Brooke, K. Cawley, M. Cofield, D. Dunn, J. Lanier, R. Milton, and T. Woodward.

Attapulgu, Georgia: Ultra-Late Planted Soybean Variety Performance, 2019 Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant		Seed Size no./lb	Seed Quality ⁵ rating
			2019 -----bu/acre-----	2-Yr Avg		Height in	Lodg. ² rating		
Credenz	CZ 5859LL	5.8	37.5	.	.	15	1.0	2887	3.5
Clemson	SC10-406RR	-	35.8	.	.	21	1.0	3140	2.3
MorSoy	MS 6208 RXT	6.2	33.1	.	.	13	1.0	3158	3.3
Dyna-Gro	S62XT09	6.2	32.8	.	.	13	1.0	3220	3.3
AGSouth	AGS 61G19	6.1	32.4	.	.	17	1.0	3240	2.8
MorSoy	MS 7057 RXT	7.0	31.3	.	.	11	1.0	3285	3.3
NK Brand	S64-T4X	6.4	31.0	.	.	14	1.0	2775	4.8
Dyna-Gro	S49XT39	4.9	30.7	.	.	13	1.0	2900	3.5
Asgrow	AG55X0 RR2X/SR	5.5	30.4	.	.	14	1.0	3342	4.3
Clemson	SC10-179	-	29.9	.	.	18	1.0	3005	2.5
Credenz	CZ 6260LL	6.2	29.3	.	.	14	1.0	2815	2.3
Asgrow	AG53X0 RR2X	5.3	28.9	.	.	16	1.0	3098	3.0
Local Seed	LSX6501XS	6.5	28.9	.	.	13	1.0	3124	4.5
SCCIA	Musen (Public)	6	28.7	.	.	13	1.0	2966	3.0
MorSoy	MS 5607 RXT	5.6	28.0	.	.	13	1.0	2688	2.8
Local Seed	LS5588X	5.5	28.0	.	.	12	1.0	2765	3.3
Dyna-Gro	S56XT99	5.6	27.1	.	.	13	1.0	2558	3.0
NK Brand	S57-A7X	5.7	26.7	.	.	11	1.0	3118	2.8
Credenz	CZ 5299X	5.2	25.8	.	.	14	1.0	3336	3.3
REV	7100X	7.1	25.1	.	.	11	1.0	3385	4.0
UniSouth	USG 7698XT	6.9	25.1	.	.	11	1.0	3151	2.8
UniSouth	USG 7568XT	5.6	25.0	.	.	14	1.0	2857	3.0
Asgrow	AG64X8 RR2X	6.4	24.8	.	.	11	1.0	3360	3.0
NK Brand	S77-Y4X	7.7	24.5	.	.	12	1.0	3375	2.8
REV	6989X	6.9	24.3	.	.	9	1.0	3150	3.0
Dyna-Gro	S69XT57	6.9	24.0	.	.	12	1.0	3200	3.5
NK Brand	S74-M3	7.4	23.6	.	.	11	1.0	2761	3.3
Asgrow	AG59X9 RR2X	5.9	21.7	.	.	11	1.0	3660	3.0
Southern Harvest	SH 6815 LL	6.8	21.5	.	.	13	1.0	3167	4.0
Credenz	CZ 6730LL	6.7	21.4	.	.	13	1.0	3119	4.0
Pioneer	P72A21X	7.2	21.3	.	.	11	1.0	2931	4.0
MU	S11-20242C	5.1	21.3	.	.	12	1.0	3364	3.0
Credenz	CZ 5515LL	5.5	20.8	.	.	16	1.0	3000	3.8
Pioneer	95Y70	-	20.8	.	.	14	1.0	3153	3.5
Credenz	CZ 6520LL	6.5	20.6	.	.	11	1.0	2759	2.8
Pioneer	P55A49X	5.5	20.3	.	.	11	1.0	3851	4.3
Credenz	CZ 5700X	5.7	19.7	.	.	9	1.0	3167	3.3
SCCIA	Cheraw (Public)	8	16.8	.	.	12	1.0	3185	4.0
AGSouth	AGS 730R2X	7.3	16.4	.	.	10	1.0	2724	3.8
Southern Harvest	SH 6020 LL/STS	6.1	15.7	.	.	10	1.0	2917	3.0
UniSouth	USG 76G45LS	6.4	14.8	.	.	9	1.0	3065	2.8
Credenz	CZ 6515LL	6.5	14.6	.	.	9	1.0	3434	3.8
Credenz	CZ 6020X	6.0	12.6	.	.	9	1.0	3539	3.3
SCCIA	Paul (Public)	8	. ⁴	.	.	8	1.0	3392	3.5
Average			24.9 ⁵	-	-	12	1.0	3105	3.3
LSD at 10% Level			7.4	-	-	2	-	245	1.1
Std. Err. of Entry Mean			3.1	-	-	1	-	103	0.5
Model R-square			0.86	-	-	0.91	-	0.89	0.61

Attapulgus, Georgia:
Ultra-Late Planted Soybean Variety Performance, 2019 Irrigated
(Continued)

1. Maturity date indicates when 95% of pods are dried.
 2. Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
 3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
 4. Stands of 'Paul' were inadequate to provide yield data at this site.
 5. CV = 17.7% and df for EMS = 42.
- Bolded** yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: August 9, 2019.
Harvested: December 16, 2019.
Seeding Rate: 225,000 seeds per acre in 7" rows.
Soil Type: Dothan sandy loam.
Previous Crop: Corn.
Soil Test: P = High, K = Low, and pH = 6.8.
Fertilization: 50 lb N, 50 lb P₂O₅, and 50 lb K₂O/acre.
Management: Conventional tillage. Valor, Warrant, Select, and Basagran used for weed control. Lorsban, Assail, and Knack used for insect control. Agrimycin used for disease control. Irrigated 4.0 inches.

Test conducted by R. Brooke, K. Cawley, M. Cofield, D. Dunn, A. Austinson, B. Brock, and D. Darley.

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2019

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 9 ⁵
		----- rating ⁶ -----				
AGSouth	AGS 52X19S	4.5	5.0	4.8	1.3	5.0
AGSouth	AGS 61G19	5.0	5.0	4.0	1.0	1.0
AGSouth	AGS 730R2X	1.0	1.0	2.3	3.0	4.8
AGSouth	AGS 738 RR	1.0	1.0	2.3	1.0	4.0
AGSouth	AGS 747 LL	1.5	1.0	2.0	1.0	1.0
AGSouth	AGS GS49X19	2.0	4.3	3.0	5.0	4.3
Asgrow	AG53X0 RR2X	4.0	5.0	1.0	1.0	1.0
Asgrow	AG55X0 RR2X/SR	1.3	1.0	1.0	3.3	4.8
Asgrow	AG59X9 RR2X	1.0	1.0	1.0	4.8	3.8
Asgrow	AG64X8 RR2X	1.3	1.0	1.3	1.0	2.3
Asgrow	AG69X0 RR2X	1.0	1.0	1.3	1.0	2.3
Clemson	SC10-179	1.3	4.3	1.0	1.0	4.5
Clemson	SC10-406RR	4.3	4.5	3.8	1.3	1.0
Credenz	CZ 4869X	1.0	1.0	1.0	1.0	1.0
Credenz	CZ 4979X	1.0	1.0	2.8	1.0	1.0
Credenz	CZ 5299X	1.3	1.0	1.0	1.0	2.0
Credenz	CZ 5515LL	1.3	1.0	1.0	1.0	1.3
Credenz	CZ 5700X	1.0	1.0	1.3	1.0	1.8
Credenz	CZ 5859LL	1.0	1.0	1.0	1.0	1.0
Credenz	CZ 6020X	1.0	1.0	1.0	1.0	1.0
Credenz	CZ 6109LL	1.3	1.3	1.0	1.0	1.0
Credenz	CZ 6260LL	1.0	1.0	1.0	1.0	1.0
Credenz	CZ 6515LL	1.0	1.0	1.0	1.0	1.3
Credenz	CZ 6520LL	2.0	1.0	1.0	1.0	1.0
Credenz	CZ 6730LL	1.0	1.0	1.0	1.0	1.3
Credenz	CZ 6770X	1.0	1.3	1.0	1.0	1.0
Credenz	CZ 7007LL	1.3	1.3	1.0	1.0	1.0
Credenz	CZ 7380X	1.0	1.0	1.0	2.5	1.0
Credenz	CZ 7570LL	2.8	1.3	1.3	1.0	1.0
Dyna-Gro	S49XT39	3.3	4.0	3.8	1.3	4.8
Dyna-Gro	S49XT70	5.0	5.0	3.3	1.0	1.8
Dyna-Gro	S56XT99	1.8	1.3	1.5	1.0	2.5
Dyna-Gro	S62XT09	1.3	1.3	1.8	3.0	5.0
Dyna-Gro	S69XT57	1.0	1.0	2.3	5.0	4.5
Dyna-Gro	S72XT80	1.0	1.0	1.3	1.0	5.0
Dyna-Gro	S75XT26	1.0	1.0	1.0	2.5	4.8
Dyna-Gro	SX19858XT	1.3	1.0	1.5	1.0	1.0
Dyna-Gro	SX19867XS	1.3	1.3	1.5	5.0	5.0
GSDC	Cook (Public)	1.3	3.3	1.5	4.5	4.8
Local Seed	LS4565XS	4.0	4.5	2.0	1.0	1.0
Local Seed	LS4583X	3.0	5.0	3.0	-	1.0
Local Seed	LS4677X	5.0	5.0	1.5	1.0	1.0
Local Seed	LS4795XS	5.0	5.0	1.8	1.0	1.0
Local Seed	LS4798X	4.0	4.5	1.5	1.0	1.0
Local Seed	LS4889XS	4.8	5.0	1.0	1.0	1.0
Local Seed	LS4999X	5.0	5.0	3.3	1.0	1.0
Local Seed	LS5386X	4.3	5.0	3.3	1.0	1.3
Local Seed	LS5588X	1.0	1.5	1.0	1.0	5.0
Local Seed	LS6457XS	2.0	2.3	2.0	5.0	5.0
Local Seed	LSX6501XS	1.0	1.0	1.5	5.0	5.0

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2019 (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 -----				
MorSoy	MS 5607 RXT	1.0	1.0	1.0	1.0	2.3
MorSoy	MS 6208 RXT	1.0	1.0	1.0	1.3	3.0
MorSoy	MS 7057 RXT	1.0	1.0	1.0	2.0	4.0
MU	S11-20242C	1.0	1.0	2.3	1.8	1.0
MU	S13-1955C	1.0	1.3	1.0	1.0	1.0
MU	S14-9017R	5.0	5.0	2.0	1.0	2.8
MU	S15-10434C	2.0	3.8	1.5	1.0	1.0
NK Brand	S57-A7X	5.0	5.0	2.3	1.0	1.0
NK Brand	S64-T4X	5.0	5.0	3.5	1.0	1.0
NK Brand	S74-M3	1.0	1.0	3.0	1.0	5.0
NK Brand	S77-Y4X	1.8	1.3	3.3	1.0	1.0
Pioneer	P48A60X	5.0	5.0	2.0	1.3	1.0
Pioneer	P55A49X	1.0	1.0	2.5	1.0	1.0
Pioneer	P72A21X	1.0	1.0	3.8	1.0	1.0
Pioneer	P76T54R2	1.0	1.0	3.8	1.8	4.0
REV	6989X	1.0	1.5	3.8	4.8	4.0
REV	7100X	1.0	2.0	3.5	1.0	1.0
SCCIA	Cheraw (Public)	1.0	2.0	2.0	1.0	5.0
SCCIA	Musen (Public)	1.3	2.0	4.5	1.0	4.3
SCCIA	Paul (Public)	1.0	1.8	4.3	5.0	4.0
SCCIA	Santee (Public)	1.8	1.3	3.5	1.0	2.8
Southern Harvest	SH 6020 LL/STS	1.0	1.0	1.0	1.0	1.0
Southern Harvest	SH 6515 LL/STS	1.3	5.0	1.0	3.8	4.3
Southern Harvest	SH 6815 LL	2.0	3.5	1.0	3.0	4.3
Southern Harvest	SH 7418 LL	1.3	1.0	1.0	1.0	2.8
UGA	G00-3213	1.8	2.3	2.5	1.0	5.0
UGA	G13-2842R2	1.0	1.0	2.0	1.0	1.3
UGA	G13-3461R2	1.0	3.5	2.8	1.0	1.5
UGA	G14-2622R2	1.0	1.0	1.0	1.3	1.0
UGA	G14-4364R2	1.0	1.3	2.3	1.3	3.3
UGA	G14-4396R2	1.3	3.8	1.0	5.0	4.8
UGA	G14-6063	4.5	5.0	4.0	5.0	3.8
UGA	G15LL-9205	1.0	1.3	1.0	2.8	4.0
UGA	G15PR-340	1.5	1.0	1.3	2.3	5.0
UGA	G15PRLL-953	1.5	3.0	2.0	1.0	2.8
UGA	G15PRLL-989	1.0	1.8	1.0	5.0	4.5
UGA	G17PR-1053HOLNR1	1.0	1.0	1.0	1.0	1.0
UGA	G17PR-1060HOLNR1	1.0	1.0	1.3	1.8	2.0
UGA	G17PR-1207HOLN	5.0	4.5	1.0	5.0	1.5
UniSouth	7496XTS	1.0	1.0	1.0	1.0	1.0
UniSouth	7568XT	1.0	1.0	1.0	1.3	1.5
UniSouth	7698XT	1.5	1.0	1.0	1.3	1.3
UniSouth	76G45LS	1.0	1.0	1.0	1.0	1.0
VA Tech	V12-1416	3.3	4.5	3.5	5.0	5.0
VA Tech	V14-0988	4.0	5.0	1.8	5.0	4.5
VA Tech	V14-2116	4.3	5.0	5.0	2.8	4.8
VA Tech	V15-2259ST	5.0	5.0	4.5	1.0	1.3
VA Tech	V15-2261ST	5.0	5.0	5.0	1.0	1.0
VA Tech	V15-2287ST	4.3	4.0	4.5	3.8	5.0

**Greenhouse Ratings for Resistance to Three Species of
Root-knot Nematode and Soybean Cyst Nematode, 2019
(Continued)**

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 9 ⁵
<u>Check Varieties</u>		----- rating ⁶ -----				
	Benning	1.0	1.0	1.3	1.0	4.0
	BOGGS	1.8	2.8	1.0	1.0	4.5
	Bossier	2.8	5.0	1.5	5.0	5.0
	CNS	4.8	5.0	3.8	5.0	4.5
	G93-9009	1.0	1.0	1.0	1.0	1.3
	G93-9106	1.0	1.0	1.0	1.0	1.0
	GaSoy17	4.8	5.0	5.0	2.3	5.0
	Hagood	1.0	3.0	3.8	1.0	5.0
	Hartwig	1.5	2.5	2.3	1.0	1.0
	Haskell	1.5	3.3	1.0	5.0	5.0
	Prichard	1.0	3.0	2.5	1.0	1.3
	LSD (0.10)	0.4	0.9	0.7	0.2	0.2

1. *Meloidogyne incognita*.

2. *Meloidogyne arenaria*.

3. *Meloidogyne javanica*.

4. The cyst indices on the differentials were: Peking = 1 (-), Pickett = 2 (-), PI88788 = 1 (-), PI90763 = 0 (-).

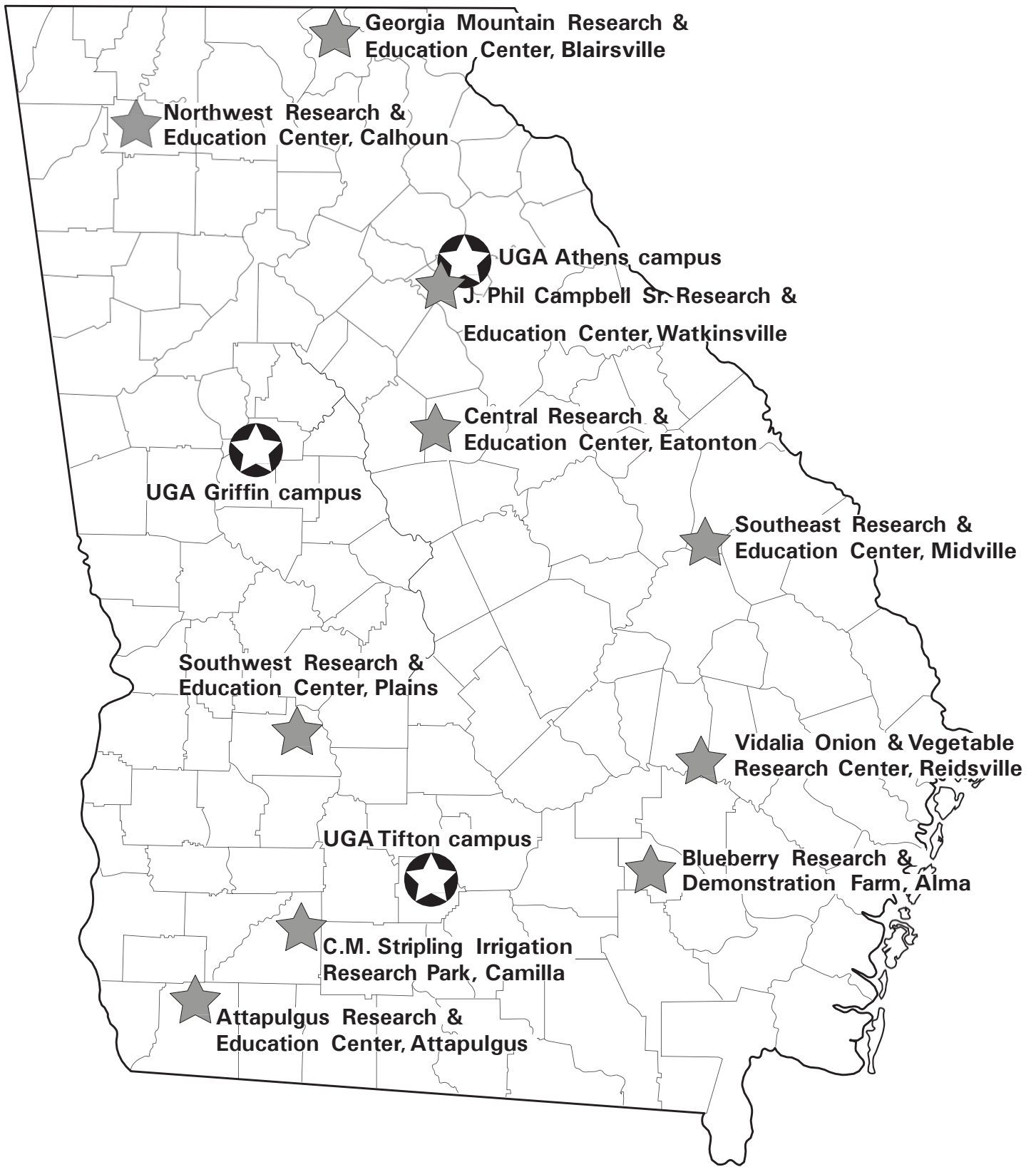
5. The cyst indices on the differentials were: Peking = 19 (+), Pickett = 19 (+), PI88788 = 2 (-), PI90763 = 10 (+).

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

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

Sources of Seed for the 2019 Soybean Performance Tests

Brand or Variety Name	Company and Address
AGSouth	AGSouth Genetics, LLC, PO Box 72246, Albany, GA 31708-2246
Asgrow	Bayer, 800 North Lindbergh Blvd., Creve Coeur, MO 63141
Clemson	Clemson University, Clemson PDREC, 2200 Pocket Road, Florence, SC 29506
Credenz	BASF, 5569 Liberty Drive, Spring Hope, NC 37882
Dyna-Gro	Nutrien Ag Solutions, 100 Industrial Court, Colquitt, GA 39837
Local Seed	Local Seed Company, 802 Rozelle Street, Memphis, TN 38104
MorSoy	SeedKoz, 1725 Windward Concourse, Suite 410, Alpharetta, GA 30005
MU	University of Missouri, PO Box 160, Portageville, MO 63873
NK Brand	Syngenta Seeds, Inc., 4013 Fairmount Pike, Signal Mountain, TN 37377
Pioneer	Corteva Agriscience, 276 Bells Cabin Rd, Fitzgerald, GA 31750
REV	Terral Seed, 117 Ellington Dr., Rayville, LA 71269
Southern Harvest	Meherrin Ag and Chemical Company, PO Box 200, Severn, NC 27877
UGA	University of Georgia, CAGT, 111 Riverbend Road, Athens, GA 30602
UniSouth	UniSouth Genetics, Inc., 2305 C Hwy 46 S, Dickson, TN 37055
VA Tech	Virginia Tech, 220 Ag Quad Ln., Blacksburg, VA 24060
<u>Public Varieties</u>	
GSDC - Cook	Georgia Seed Development Commission, 2420 S. Milledge Avenue, Athens, GA 30605
SCCIA - Cheraw, Musen, Paul, Santee	SC Crop Improvement Association, 1162 Old Cherry Road, Clemson, SC 29634



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