

Preliminary Results, December 2, 2019.

Statewide Yield Summary: MG IV Soybean Variety Performance, 2019

Company or Brand Name	Variety	MG	Tifton	Calhoun	Blairsville	Statewide Average
			----- bu/acre -----			
<u>Maturity Group IV</u>						
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
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: 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	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: Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield bu/acre	Plant Height in	Lodging rating ¹	Seed Size no./lb	Seed Quality rating ²
<u>Maturity Group IV</u>							
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
Credenz	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
Credenz	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	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, M. Tucker.

Blairsville, Georgia: Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield bu/acre	Plant Height in	Lodging rating ¹	Seed Size no./lb	Seed Quality rating ²
<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	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 -----									
<u>Maturity Group V</u>									
AGSouth	AGS 52X19S	5.2	70.9	66.4	.	.	65.0	43.2	42.8
Asgrow	AG53X0 RR2X	5.3	56.8	48.9	.	.	74.0	49.3	40.2
Asgrow	AG55X0 RR2X/SR	5.5	68.6	63.1	.	.	60.3	38.2	39.4
Asgrow	AG59X9 RR2X	5.9	72.8	56.6	.	.	59.7	42.4	37.0
Credenz	CZ 5299X	5.2	73.7	64.8	.	.	66.4	43.5	43.0
Credenz	CZ 5515LL	5.5	62.6	57.7	.	.	45.2	45.0	38.1
Credenz	CZ 5700X	5.7	.	68.1	.	.	.	48.8	42.9
Credenz	CZ 5859LL	5.8	61.2	53.0	.	.	58.5	44.8	46.4
Dyna-Gro	S56XT99	5.6	69.2	65.8	.	.	64.9	40.0	50.9
Dyna-Gro	SX19858XT	5.8	66.3	68.7	.	.	60.2	53.1	40.6
GSDC	Cook (Public)	8	70.9	.	.	.	39.7	.	.
Local Seed	LS5386X	5.3	53.9	49.5	.	.	75.5	48.9	49.6
Local Seed	LS5588X	5.5	71.9	61.6	.	.	65.6	40.2	46.1
MU	S11-20242C	5.1	69.9	59.5	.	.	61.6	26.9	48.7
MU	S13-1955C	5.5	57.1	50.8	.	.	45.5	44.5	41.0
MU	S14-9017R	5.3	35.6	28.8	.	.	73.0	47.9	45.0
MU	S15-10434C	5.5	75.2	60.3	.	.	61.5	41.3	40.7
MorSoy	MS 5607 RXT	5.6	76.9	61.4	.	.	69.5	39.5	49.3
NK Brand	S57-A7X	5.7	72.4	65.0	.	.	65.8	52.1	49.0
Pioneer	P55A49X	5.5	69.8	59.2	.	.	71.8	41.8	41.8
UniSouth	USG 7568XT	5.6	73.4	65.9	.	.	61.1	45.6	46.6
VA Tech	V12-1416	5.1	62.1	62.9	.	.	67.3	30.1	29.2
Average			66.3	59.0	.	.	63.1	43.2	43.3
LSD at 10% Level			7.2	8.3			10.2	6.9	9.1
Model R-square			0.83	0.78			0.79	0.76	0.57
<u>Maturity Group VI</u>									
AGSouth	AGS 61G19	6.1	77.4	61.0	.	.	41.3	52.3	56.7
Asgrow	AG64X8 RR2X	6.4	84.7	63.0	.	.	30.9	55.4	33.2
Asgrow	AG69X0 RR2X	6.9	71.4	63.2	.	.	29.4	56.2	41.2
Credenz	CZ 5859LL	5.8	68.3	53.9	.	.	33.2	55.9	53.3
Credenz	CZ 6020X	6	.	56.9	.	.	.	64.8	38.1
Credenz	CZ 6109LL	6.1	77.9	67.6	.	.	40.8	56.8	48.8
Credenz	CZ 6260LL	6.2	75.4	73.7	.	.	35.2	57.7	45.4
Credenz	CZ 6520LL	6.5	81.1	67.1	.	.	39.7	55.7	46.2
Credenz	CZ 6730LL	6.7	74.8	59.0	.	.	42.9	57.8	43.9
Credenz	CZ 6770X	6.7	.	65.6	.	.	.	52.8	34.1
Dyna-Gro	S62XT09	6.2	82.1	65.8	.	.	38.1	55.3	37.5
Dyna-Gro	S69XT57	6.9	79.4	68.7	.	.	30.0	54.0	41.5
Dyna-Gro	SX19867XS	6.7	86.3	67.6	.	.	35.2	58.7	28.7
GSDC	Cook (Public)	8	71.1	.	.	.	30.0	.	.
Local Seed	LS6457XS	6.4	.	66.0	.	.	24.7	52.0	28.4
Local Seed	LSX6501XS	6.5	80.3	66.4	.	.	34.0	55.8	40.2
MorSoy	MS 6208 RXT	6.2	83.8	66.1	.	.	43.9	56.8	36.7
NK Brand	S64-T4X	6.4	73.5	61.8	.	.	42.2	57.6	50.0
REV	6989X	6.9	69.8	57.6	.	.	30.4	60.3	39.7
SCCIA	Musen (Public)	6	75.5	63.7	.	.	24.1	49.0	42.5
Southern Harvest	SH 6020 LL/STS	6.1	74.8	63.5	.	.	38.2	53.0	47.4
Southern Harvest	SH 6515 LL/STS	6.5	77.2	65.3	.	.	42.9	56.5	44.6
Southern Harvest	SH 6815 LL	6.8	72.1	62.2	.	.	32.4	51.7	53.3

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

Company or Brand Name	Variety	MG	Tifton					Griffin	Athens	Calhoun	Statewide Average	
			Early	Late	Midville	Plains	2019				2-Year	
----- bu/acre -----												
UGA	G13-2842R2	6	85.2	66.3	.	.	39.0	57.3	39.9			
UGA	G14-6063	6	78.6	70.3	.	.	32.8	57.8	50.8			
UGA	G15PR-340	6	68.7	55.3	.	.	28.9	55.2	34.3			
UniSouth	USG 7698XT	6.9	81.1	65.1	.	.	30.0	53.6	40.4			
UniSouth	USG 76G45LS	6.4	81.9	66.8	.	.	39.3	56.2	49.6			
Average			76.9	64.1	.	.	34.8	55.8	42.5			
LSD at 10% Level			7.6	6.3			8.3	NS	6.7			
Model R-square			0.56	0.60			0.57	0.44	0.78			

Company or Brand Name	Variety	MG	Tifton			Plains		Griffin	Athens	Statewide Average	
			Early	Late	Midville	Early	Late			2019	2-Year
----- bu/acre -----											

Maturity Group VII and VII

AGSouth	AGS 730R2X	7.3	80.1	69.5	.	.	.	.	54.1		
AGSouth	AGS 738RR	7.3	71.3	60.8	.	.	.	.	56.1		
AGSouth	AGS 747LL	7.4	77.0	60.9	.	.	.	.	56.2		
Credenz	CZ 6515LL	6.5	67.4	59.5	.	.	.	.	57.3		
Credenz	CZ 7007LL	7	74.0	57.6	.	.	.	.	56.3		
Credenz	CZ 7380X	7.3	.	71.0	.	.	.	.	.
Credenz	CZ 7570LL	7.5	73.2	62.4	.	.	.	.	53.8		
Dyna-Gro	S72XT80	7.2	62.0	57.1	.	.	.	.	57.3		
Dyna-Gro	S75XT26	7.5	86.1	65.5	.	.	.	.	54.5		
GSDC	Cook (Public)	8	69.1	55.2	.	.	.	.	56.4		
MorSoy	MS 7057 RXT	7	75.2	67.2	.	.	.	.	58.2		
NK Brand	S74-M3	7.4	74.6	63.3	.	.	.	.	51.7		
NK Brand	S77-Y4X	7.7	74.4	57.8	.	.	.	.	58.3		
Pioneer	P72A21X	7.2	76.9	65.5	.	.	.	.	50.2		
Pioneer	P76T54R2	7.6	83.9	64.9	.	.	.	.	56.5		
REV	7100X	7.1	66.4	62.9	.	.	.	.	51.2		
SCCIA	Cheraw (Public)	8	64.8	57.6	.	.	.	.	60.6		
SCCIA	Paul (Public)	8	61.6	57.5	.	.	.	.	51.4		
SCCIA	Santee (Public)	7	67.9	36.4	.	.	.	.	58.2		
Southern Harvest	SH 7418 LL	7.4	74.7	70.2	.	.	.	.	61.3		
UGA	G00-3213	7	75.5	68.3	.	.	.	.	51.5		
UGA	G13-3461R2	7	75.5	64.2	.	.	.	.	53.2		
UGA	G14-2622R2	7	68.8	55.9	.	.	.	.	57.7		
UGA	G14-4364R2	7	75.4	68.1	.	.	.	.	57.1		
UGA	G14-4396R2	7	79.2	65.9	.	.	.	.	54.6		
UGA	G15LL-9205	7	83.6	69.5	.	.	.	.	57.4		
UGA	G15PRLL-953	7	79.5	65.5	.	.	.	.	49.6		
UGA	G15PRLL-989	7	81.0	60.0	.	.	.	.	57.3		
UGA	G17PR-1053HOLNR1	7	74.2	67.6	.	.	.	.	56.4		
UGA	G17PR-1060HOLNR1	7	72.1	59.9	.	.	.	.	54.8		
UGA	G17PR-1207HOLN	7	74.3	67.5	.	.	.	.	55.1		
Average			73.8	62.4	.	.	.	.	55.5		
LSD at 10% Level			6.7	6.1					NS		
Model R-square			0.70	0.77					0.32		

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: Cook was substituted for late-arriving entries at some locations.

Tifton, Georgia: Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem rating	Petiole Retention rating	Seed Size no./lb	Seed Quality ³ 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			⁴	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			⁵	-	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: Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem rating	Petiole Retention rating	Seed Size no./lb	Seed Quality ³ rating	
			2019	2-Yr Avg								
			----bu/acre----									
<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			⁶	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	
NK Brand	S64-T4X	6.4	61.8	.	10/14	35	1.7	1.0	3.3	2852	5.0	

Tifton, Georgia: Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem rating	Petiole Retention rating	Seed Size no./lb	Seed Quality ³ rating
			2019 ----bu/acre----	2-Yr Avg							
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			7	-	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
<u>Maturity Groups VII and VIII-Early planted</u>											
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	G17PR-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	G17PR-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			8	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: Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	MG	Yield		Maturity ¹ date	Plant Height in	Lodg. ² rating	Green Stem rating	Petiole Retention rating	Seed Size no./lb	Seed Quality ³ rating
			2019 ----bu/acre----	2-Yr Avg							
Maturity Groups VII and VIII-Late planted											
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	G17PR-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	G17PR-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			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

- Maturity date indicates when 95% of pods are dried.
- Lodging rating: 1 (all plants erect) to 5 (over 80% of plants down).
- Seed quality rating: Rated 1 (very good) to 5 (very poor).
- CV = 7.9% and df for EMS = 40.
- CV = 10.2% and df for EMS = 40.
- CV = 7.3% and df for EMS = 54.
- CV = 7.2% and df for EMS = 52.
- CV = 6.7% and df for EMS = 61.
- CV = 7.2% and df for EMS = 60.

Greenstem: 0=absent, 1=present.

Petiole: 1=absent, 5=most severe.

"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.

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

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

Previous Crop: Corn.

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.

Griffin, Georgia: 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 ⁴ 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
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

Griffin, Georgia: 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 ⁴ rating
			2019 ----bu/acre----	2-Yr Avg					
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

Awaiting harvest

Average
LSD at 10% Level
Std. Err. of Entry Mean
Model R-square

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>	<u>MG VII + VIII</u>
Planted:	May 5, 2019.	May 9, 2019	June 20, 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.	Sorghum.
Soil Test:	P =Medium, K =High pH = 6.0	pH = 6.1	pH = 6.2
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: Soybean Variety Performance, 2019, Irrigated

Company or Brand Name	Variety	Yield		Maturity ¹ date	Plant		Green	Petiole	Shatter %	Seed	Seed
		2019 ----bu/acre----	2-Yr Avg		Height in	Lodg. ² rating	Stem rating	Retention rating		Size no./lb	Quality ³ rating
<u>Maturity Group V</u>											
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 ⁴	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
<u>Maturity Group VI</u>											
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

Athens, Georgia: Soybean Variety Performance, 2019, Irrigated (Continued)

Company or Brand Name	Variety	Yield		Maturity ¹ date	Plant		Green	Petiole	Shatter	Seed	Seed
		2019 ----bu/acre----	2-Yr Avg		Height in	Lodg. ² rating	Stem rating	Retention rating		Size no./lb	Quality ³ rating
Local Seed	LS6457XS	52.0	.	10/20	42	1.0	0.0	0.0	0	2665	3.2
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 ^b	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	G15PRL-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	G15PRL-953	49.6	.	10/23	46	2.3	0.0	0.0	0	2448	2.0
Average		55.5 ^b	-	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

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 = 11.6% and df for EMS = 40.
5. CV = 7.8% and df for EMS = 52.
6. CV = 11.2% and df for EMS = 61.

Note: green stem and petiole retention rated as 0 (absent) to 1 (most severe) for Athens.

Athens, Georgia: Soybean Variety Performance, 2019, Irrigated (Continued)

"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: 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 ³ rating
			2019 ----bu/acre----	2-Yr Avg					
<u>Maturity Group V</u>									
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
<u>Maturity Group VI</u>									
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
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

**Calhoun, Georgia:
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 ³ rating
			2019 -----bu/acre-----	2-Yr Avg					
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 for weed control. Irrigated 10.3 inches.

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