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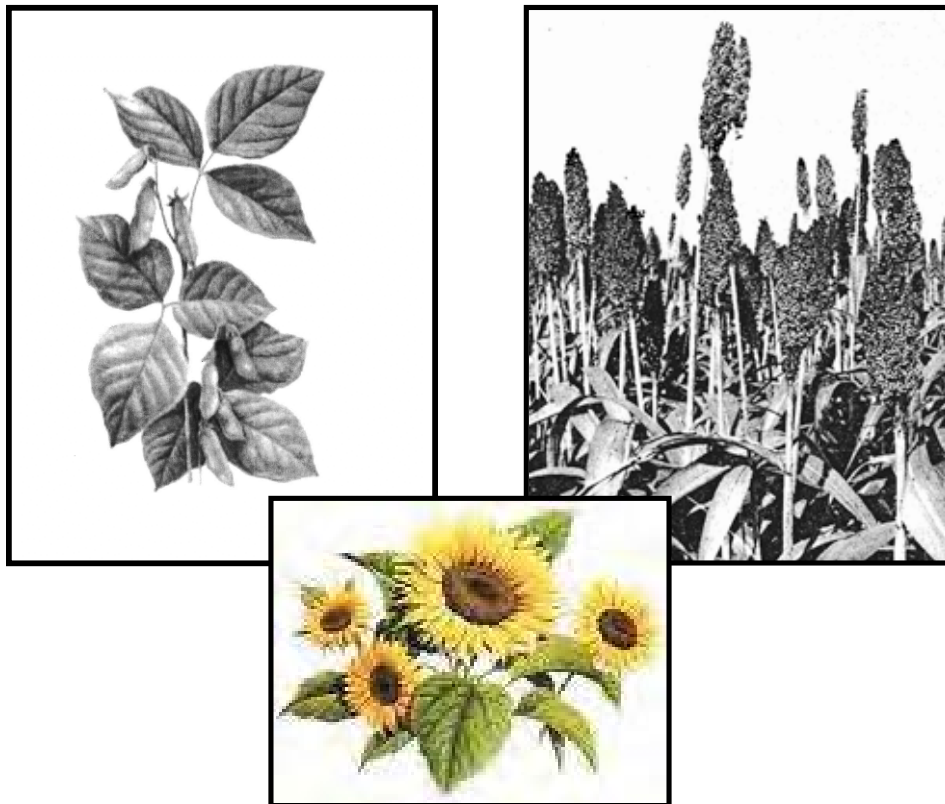
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# GEORGIA

## 2009 Performance Tests

### Soybean, Sorghum Grain and Silage, Summer Annual Forages and Sunflower

*J. LaDon Day, Anton E. Coy  
and John D. Gassett, Editors*



Department of Crop and Soil Sciences  
Griffin Campus

## Conversion Table

<b>U.S. Abbr.</b>	<b>Unit</b>	<b>Approximate Metric Equivalent</b>
<b>Length</b>		
mi	mile	1.609 kilometers
yd	yard	0.9144 meters
ft or'	foot	30.48 centimeters
in or"	inch	2.54 centimeters
<b>Area</b>		
sq mi or mi <sup>2</sup>	square mile	2.59 square kilometers
acre	acre	0.405 hectares or 4047 square meters
sq ft or ft <sup>2</sup>	square foot	0.093 square meters
<b>Volume/Capacity</b>		
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 <sup>3</sup>	cubic foot	0.028 cubic meters
<b>Mass/Weight</b>		
ton	ton	0.907 metric ton
lb	pound	0.453 kilogram
oz	ounce	28.349 grams

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



J. Scott Angle  
*Dean and Director*

Gerald F. Arkin  
*Assistant Dean  
Northern Region*

Robert N. Shulstad  
*Associate Dean and  
Senior Associate Director*

## PREFACE

This research report presents the results of the 2009 statewide performance tests of soybean, sorghum grain and silage, sunflower and summer annual forages. The tests for various evaluations were conducted at several or all of the following locations: Tifton, Plains and Midville in the Coastal Plain region; Griffin and Athens in the Piedmont region; and Calhoun in the Limestone Valley region. To identify the test site locations, consult the map inside the back cover of this report.

Agronomic information, such as plant height, lodging, disease occurrence, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes. Since the average yield for several years gives a better indication of a variety's potential than one year's data, multiple-year yield summaries have been included.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the trials, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose, and agreed upon by College of Agricultural and Environmental Sciences agronomists, are presented in the 2009 Spring Planting Schedule for Georgia (available from your county Extension office). Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by the University of Georgia Agricultural Experiment Station. For additional information, contact your local county Extension agent or the nearest experiment station.

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

This report is one of four publications presenting the 2009 performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2009 Corn Performance Tests (Annual Publication #101), 2008-2009 Small Grains Performance Tests (Annual Publication #100), 2008-2009 Canola data ([www.swvt.uga.edu/canola.html](http://www.swvt.uga.edu/canola.html)) and 2008 Peanut, Cotton and Tobacco Performance Tests (Research Report 719).

This report, along with performance test information on other crops, is also available on our Web site: [www.swvt.uga.edu](http://www.swvt.uga.edu). Additional information may be obtained by writing J. LaDon Day, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

## **Cooperators**

Dr. H. R. Boerma, College Station, Athens, Georgia  
Dr. D. Buntin, Georgia Station, Griffin, Georgia  
Dr. W. W. Hanna, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia  
Dr. G. Hoogenboom, Georgia Station, Griffin, Georgia  
Dr. R. S. Hussey, College Station, Athens, Georgia  
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia  
Dr. X. Ni, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia  
Mr. R. R. Pines, Southwest Research & Education Center, Plains, Georgia  
Mr. J. Stubbs, Northwest Research & Education Center, Calhoun, Georgia  
Dr. J. P. Wilson, USDA-ARS, Coastal Plain Experiment Station, Tifton, Georgia  
Mr. E. D. Wood, College Station, Athens, Georgia  
Mr. P. C. Worley, Northwest Research & Education Center, Calhoun, Georgia

## **Contributors**

The following individuals contributed to the gathering of data and to the preparation of this report: R. Baerne, W. Baxter, G. Bishop, R. Black, R. Brooke, H. Chambers, C. Collins, J. Cox, R. Davis, M. Dolan, D. Dunn, S. Finnerty, M. Flynn, M. Gilmer, D. Gresham, C. Harris, J. Head, Jr., L. Hitson, R. Jackson, C. Mullis, W. Pope, T. Robinson, R. Stephens, T. Strickland, P. Tapp, G. Ware, P. Williams, Jr., and H. Yeomans.

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# 2009 SOYBEAN, SORGHUM GRAIN AND SILAGE, SUMMER ANNUAL FORAGES AND SUNFLOWER PERFORMANCE TESTS

*J. LaDon Day, Anton E. Coy and John D. Gassett, Editors*

## The Season

Unlike the three previous droughty springs, 2009 was slowed by wet and cold conditions in late March and early April. Wet conditions and low soil temperatures continued during mid-spring to late spring, causing planting delays. Overall, this was the latest planted spring crop in many years. Spring temperatures were cooler than normal until late May into June when there was a period of near record high temperatures, especially during the first two weeks of June. This period challenged irrigation systems to continue supplying adequate moisture for germinating crops. Wet and cool conditions returned in late fall, causing a virtual halt in harvest and reducing quality of a late maturing crop. At the end of the year, up to 30% of most commodities remained in the field unharvested due to saturated soil unable to support combine equipment.

Rainfall amounts recorded monthly at the six test locations in Georgia during the 2009 growing season are presented in the following table. On June 10, 2009, water restrictions were cancelled across the state for the first time in three years. This was due to above-normal rainfall during late winter and spring (the second wettest spring on record in Georgia). Many monthly total and seasonal rainfall amounts at all of the Variety Research locations were above normal for the first time in many years. The surplus, averaged across sites, was over 10 inches for the nine-month reporting period.

### 2009 Rainfall<sup>1</sup>

Month	Athens <sup>2</sup>	Calhoun <sup>3</sup>	Griffin	Midville	Plains	Tifton
	----- inches -----					
March	8.05	5.90	8.52	4.54	7.67	8.23
April	4.43	4.11	3.89	5.84	5.09	8.26
May	4.03	6.09	3.71	9.54	7.09	6.54
June	0.98	0.91	1.73	1.99	2.71	1.98
July	2.09	3.88	4.40	3.69	2.65	7.78
August	3.96	5.50	3.34	7.64	6.90	7.02
September	10.74	6.10	3.24	3.74	1.66	1.70
October	8.98	8.96	8.81	3.68	5.46	4.01
November	5.43	5.19	6.59	4.31	2.65	2.64
Total	48.69	46.64	44.23	44.97	41.88	48.16
Normal (9 mo)	36.76	38.89	36.77	33.95	35.29	35.11

1. Georgia data provided in part by Dr. G. Hoogenboom, Georgia Station, Griffin, GA.
2. Plant Sciences Farm.
3. Floyd County location.

Crop maturity progressed at 15 to 20% below the five-year average, and persistent rain and wet soil throughout the fall delayed an already late harvest season. Soybean producers increased acreage 10% above last year, which was 60% greater than two years ago. State yield per acre of 33 bushels for soybeans matched the 2003 record and production was almost 15 million bushels, the most produced in the state since 1994. Grain sorghum planting remained the same at 55,000 acres. Sorghum silage harvest held steady, but yields of 14 tons/acre pushed production up 17%. All other forage production was up 25% more than last year. Although commodities' prices remain higher than the long-term average, high production costs continue to reduce profit margins, due mainly to high energy prices.

Soybean rust was again found in Georgia this growing season, but as in 2008 did not spread into a limiting factor. Rust did not develop into a major problem, apparently due to an increase in spraying fungicide coupled with the hot weather conditions. The threat remains very serious to soybean production in Georgia due mainly to the ease at which this rust overwinters in deep south Georgia and in north Florida.



# SOYBEAN

## Summary of Early-Planted Soybean Variety Performance at Six Locations, 2009

Company/Brand	Variety	2009 Yield <sup>1</sup>						Average	
		Athens	Calhoun	Griffin	Midville	Plains	Tifton	2009	2-Year
----- bu/acre -----									
<b>Maturity Group V</b>									
AgSouth	AGS 568RR	<b>72.1</b>	61.8	53.8	71.5	59.4	52.4	<b>61.8</b>	<b>58.4</b>
AsGrow	DP5915RR	<b>70.5</b>	63.6	<b>62.1</b>	72.2	53.1	49.6	<b>61.9</b>	.
Asgrow	AG5905	<b>74.2</b>	60.3	54.3	70.8	<b>65.1</b>	<b>55.0</b>	<b>63.3</b>	<b>58.7</b>
DynaGro	32B57	<b>69.4</b>	54.9	56.4	<b>82.4</b>	<b>68.2</b>	<b>60.7</b>	<b>65.3</b>	.
DynaGro	33C59	<b>72.2</b>	59.7	<b>61.8</b>	<b>81.2</b>	60.9	51.9	<b>64.6</b>	.
DynaGro	33X55	<b>69.5</b>	65.1	<b>62.2</b>	<b>75.7</b>	<b>61.5</b>	54.0	<b>64.7</b>	57.3
DynaGro	35F55	58.9	62.7	56.6	72.1	57.7	40.3	58.1	.
Pioneer	95Y20	<b>72.7</b>	61.5	55.2	69.1	58.3	<b>55.2</b>	<b>62.0</b>	57.8
Pioneer	95Y70	<b>73.6</b>	59.7	<b>65.7</b>	<b>84.0</b>	<b>63.2</b>	42.6	<b>64.8</b>	.
Progeny	P5622RR	<b>69.0</b>	49.9	48.8	56.8	60.4	47.8	55.4	54.6
Progeny	P5650RR	<b>73.8</b>	63.4	<b>64.5</b>	<b>74.3</b>	59.9	47.4	<b>63.9</b>	<b>61.0</b>
Progeny	P5706RR	59.3	61.7	<b>66.5</b>	72.2	56.2	54.6	<b>61.7</b>	57.7
Public Variety	Osage	66.2	66.7	<b>61.7</b>	<b>79.1</b>	49.6	47.6	<b>61.8</b>	53.8
SS	LL511N	64.6	66.0	57.4	<b>80.3</b>	57.3	53.0	<b>63.1</b>	.
SS	LL595N	<b>70.0</b>	54.9	<b>66.4</b>	<b>76.3</b>	55.5	53.0	<b>62.7</b>	.
SS	RT5160N	62.5	65.8	55.8	<b>75.4</b>	53.8	<b>57.0</b>	<b>61.7</b>	57.4
SS	RT5471N	61.1	64.3	50.1	70.9	55.7	52.6	59.1	.
SS	RT5760N	63.1	<b>76.3</b>	52.3	62.5	58.8	52.9	61.0	57.6
SS	RT5930N	<b>68.8</b>	55.4	53.0	67.2	<b>63.9</b>	53.0	60.2	57.5
SS	RT5951N	66.1	57.5	<b>59.5</b>	72.3	60.5	52.9	61.5	56.1
SS	RT5960N	65.8	68.1	46.8	65.9	53.3	52.1	58.6	55.3
Schillinger	5440R	55.5	66.0	45.4	67.5	61.1	47.6	57.2	.
Schillinger	557RC	62.3	64.3	56.0	65.7	59.0	52.7	60.0	55.5
Terral	TV47R18	52.9	47.9	30.9	50.4	39.1	37.6	43.1	.
Terral	TV49R17	56.6	53.7	51.0	49.6	40.1	45.1	49.4	.
Terral	TV49R19	47.5	59.8	42.9	60.4	35.0	39.9	47.6	.
Terral	TV54R28	<b>72.5</b>	61.3	43.4	<b>75.9</b>	45.2	44.6	57.1	.
Terral	TV55R15	<b>73.2</b>	63.4	58.4	70.0	54.1	43.2	60.4	.
UGA	R04-357	<b>71.3</b>	53.4	<b>61.7</b>	<b>77.9</b>	55.2	47.1	61.1	.
US Seeds	HALO 4:65	63.7	45.0	36.9	52.9	19.9	36.2	42.4	.
US Seeds	HALO 4:94	<b>77.1</b>	<b>69.5</b>	54.0	66.9	57.2	50.1	<b>62.5</b>	.
US Seeds	HALO 5:25	65.7	67.8	54.6	69.9	55.6	51.6	60.9	.
US Seeds	HALO 5:65	<b>69.1</b>	62.0	<b>62.1</b>	69.2	57.0	<b>55.8</b>	<b>62.5</b>	.
USG	75Z98	66.9	<b>75.8</b>	57.4	<b>75.5</b>	58.2	47.7	<b>63.6</b>	57.7
USG	Allen	<b>68.6</b>	58.1	51.5	<b>72.9</b>	49.0	54.3	59.1	54.8
Average		66.5	61.4	54.8	70.2	54.8	49.7	59.5	57.0
LSD at 10% Level		10.0	7.7	7.7	11.5	6.7	6.0	3.7	2.6
Std. Err. of Entry Mean		4.2	3.3	3.3	4.8	2.8	2.5	11.3	11.7

## Summary of Early-Planted Soybean Variety Performance at Six Locations, 2009 (Continued)

Company/Brand	Variety	2009 Yield <sup>1</sup>						Average	
		Athens	Calhoun	Griffin	Midville	Plains	Tifton	2009	2-Year
----- bu/acre -----									
<u>Maturity Group VI</u>									
AR	R01-2346	<b>46.9</b>	<b>56.0</b>	<b>61.0</b>	<b>67.6</b>	47.7	<b>48.4</b>	<b>54.6</b>	55.6
AR	R01-327	<b>49.1</b>	52.1	<b>66.7</b>	<b>71.3</b>	<b>60.9</b>	<b>49.9</b>	<b>58.3</b>	<b>60.4</b>
AR	R03-1232	<b>45.4</b>	<b>59.8</b>	<b>63.2</b>	<b>72.0</b>	52.7	43.7	<b>56.1</b>	56.9
AgSouth	AGS606RR	<b>42.7</b>	46.5	<b>67.0</b>	<b>80.8</b>	54.5	<b>52.1</b>	<b>57.3</b>	<b>58.0</b>
Asgrow	AG6301	<b>39.3</b>	41.0	<b>67.1</b>	<b>71.8</b>	53.0	43.8	<b>52.7</b>	55.7
Asgrow	AG6702	<b>47.6</b>	<b>54.0</b>	<b>67.0</b>	<b>77.8</b>	51.5	39.4	<b>56.2</b>	57.0
DynaGro	SX09667	<b>43.9</b>	49.2	57.2	<b>81.0</b>	<b>55.2</b>	46.3	<b>55.5</b>	.
DynaGro	V622NRR	<b>49.6</b>	<b>55.4</b>	<b>66.1</b>	<b>74.0</b>	<b>57.6</b>	47.5	<b>58.3</b>	.
NK	S61-Q2	<b>45.1</b>	47.4	48.9	<b>75.8</b>	<b>63.1</b>	<b>52.7</b>	<b>55.5</b>	56.1
Progeny	P6208RR	<b>42.8</b>	51.9	47.7	<b>77.4</b>	44.5	<b>55.0</b>	<b>53.2</b>	54.0
Progeny	P6708RR	<b>43.3</b>	<b>52.3</b>	58.0	<b>70.8</b>	<b>59.1</b>	46.2	<b>55.0</b>	.
Public Variety	Desha	<b>44.0</b>	48.3	57.2	<b>75.5</b>	53.3	46.1	<b>54.1</b>	.
Public Variety	Musen	<b>48.2</b>	49.8	56.2	<b>76.4</b>	<b>58.8</b>	<b>50.6</b>	<b>56.7</b>	55.0
Public Variety	NC Roy	<b>41.3</b>	46.8	<b>60.4</b>	<b>82.4</b>	<b>58.8</b>	43.3	<b>55.5</b>	.
SC	SC02-011RR	<b>50.2</b>	46.8	<b>64.1</b>	<b>68.3</b>	52.6	<b>49.2</b>	<b>55.2</b>	.
SS	RT6207N	<b>51.9</b>	<b>53.9</b>	53.7	<b>69.9</b>	<b>59.2</b>	<b>54.1</b>	<b>57.1</b>	<b>58.4</b>
SS	RT6451N	<b>48.4</b>	40.0	57.5	<b>80.5</b>	49.6	<b>52.4</b>	<b>54.7</b>	55.7
SS	RT6988N	<b>47.6</b>	45.7	54.1	<b>66.0</b>	47.5	41.3	<b>50.4</b>	54.3
UGA	G05-1102RR	<b>47.6</b>	51.7	<b>67.5</b>	<b>86.5</b>	52.6	<b>49.7</b>	<b>59.3</b>	.
USG	620nRR	<b>46.9</b>	48.6	<b>64.5</b>	<b>79.5</b>	51.5	<b>54.0</b>	<b>57.5</b>	<b>58.0</b>
USG	7635nRR	<b>43.3</b>	51.4	<b>60.6</b>	<b>66.9</b>	<b>60.1</b>	<b>52.8</b>	<b>55.9</b>	56.7
USG	76S17	<b>47.3</b>	<b>56.0</b>	<b>62.8</b>	<b>70.1</b>	50.2	<b>54.7</b>	<b>56.9</b>	<b>58.0</b>
USG	76S79	<b>42.3</b>	42.0	<b>62.7</b>	<b>81.8</b>	<b>62.7</b>	<b>52.9</b>	<b>57.4</b>	.
Average		45.9	49.9	60.5	75.0	54.6	49.0	55.8	56.7
LSD at 10% Level		N.S. <sup>2</sup>	7.6	7.6	N.S.	8.3	7.3	N.S.	2.4
Std. Err. of Entry Mean		2.6	3.2	3.2	<b>4.7</b>	3.4	3.1	10.9	10.7
<u>Maturity Group VII and VIII</u>									
AU	AU02-2814	48.6	.	.	72.4	<b>57.0</b>	41.4	54.9	.
AgSouth	AGS 747RR	51.6	.	.	70.4	<b>55.1</b>	42.8	55.0	.
AgSouth	AGS 758RR	51.7	.	.	68.3	<b>53.1</b>	<b>50.0</b>	55.8	55.7
AgSouth	AGS Benning	53.5	.	.	71.7	<b>51.6</b>	<b>49.4</b>	56.5	56.0
AgSouth	AGS Prichard RR	53.2	.	.	61.5	<b>56.0</b>	35.0	51.4	51.8
AgSouth	AGS Woodruff	<b>57.4</b>	.	.	<b>91.2</b>	<b>65.0</b>	<b>53.6</b>	<b>66.8</b>	<b>66.6</b>
AsGrow	DP7330RR	50.8	.	.	71.9	<b>60.5</b>	45.0	57.0	56.3
AsGrow	DP7870RR	52.1	.	.	<b>82.6</b>	<b>51.8</b>	42.3	57.2	56.6
Asgrow	AG7501	54.0	.	.	<b>81.7</b>	<b>50.2</b>	47.5	58.3	58.9
Asgrow	AG7502	52.5	.	.	<b>85.8</b>	<b>51.5</b>	46.1	59.0	58.1
Asgrow	H7242RR	47.9	.	.	71.1	<b>54.4</b>	<b>48.2</b>	55.4	54.7
DynaGro	35K73	50.7	.	.	78.0	<b>51.9</b>	41.5	55.5	54.7
DynaGro	V76N9RR	<b>58.4</b>	.	.	72.0	<b>55.2</b>	46.6	58.1	59.9
NK	S74-W6	<b>56.2</b>	.	.	77.1	<b>58.0</b>	45.7	59.3	57.9
NK	S78-G6	<b>58.0</b>	.	.	72.0	<b>50.6</b>	45.7	56.5	58.0

## Summary of Early-Planted Soybean Variety Performance at Six Locations, 2009 (Continued)

Company/Brand	Variety	2009 Yield <sup>1</sup>						Average	
		Athens	Calhoun	Griffin	Midville	Plains	Tifton	2009	2-Year
----- bu/acre -----									
Maturity Group VII and VIII - continued									
NK	S80-P2	<b>56.4</b>	.	.	72.2	<b>59.0</b>	43.1	57.7	57.3
Pioneer	97M50	52.4	.	.	73.5	<b>46.9</b>	<b>48.9</b>	55.4	55.2
Progeny	P7208RR	51.7	.	.	76.9	<b>53.1</b>	45.7	56.9	57.1
Public Variety	Cook	49.4	.	.	76.3	<b>54.9</b>	34.6	53.8	54.6
Public Variety	Motte	52.4	.	.	63.5	<b>50.7</b>	39.2	51.4	51.7
Public Variety	NC Raleigh	50.7	.	.	75.4	<b>54.1</b>	39.2	54.9	.
Public Variety	Santee	49.9	.	.	67.9	<b>54.8</b>	<b>54.0</b>	56.6	57.1
SC	SC02-208RR	51.6	.	.	72.2	<b>49.5</b>	46.9	55.0	.
SS	RT7270N	<b>60.7</b>	.	.	<b>85.7</b>	<b>58.2</b>	47.8	<b>63.1</b>	60.5
SS	RT7999N	52.1	.	.	67.1	<b>54.1</b>	43.4	54.2	52.8
UGA	G-Has(4)PHY-1	48.0	.	.	<b>80.7</b>	<b>50.6</b>	37.1	54.1	52.3
UGA	G03-1187RR	53.0	.	.	74.5	<b>53.4</b>	<b>50.3</b>	57.8	58.3
UGA	G04-1618RR	<b>60.4</b>	.	.	71.6	<b>54.1</b>	47.2	58.3	60.3
UGA	G04-2215RR	<b>55.8</b>	.	.	<b>82.4</b>	<b>56.3</b>	<b>50.1</b>	61.1	60.7
UGA	G04-2414RR	<b>56.1</b>	.	.	74.2	<b>58.6</b>	<b>49.6</b>	59.6	59.8
UGA	G04-3248RR	51.4	.	.	62.0	<b>46.8</b>	<b>48.6</b>	52.2	53.6
UGA	G05-1200RR	52.2	.	.	79.9	<b>53.3</b>	47.6	58.3	.
UGA	G05-1209RR	<b>57.5</b>	.	.	74.4	<b>48.7</b>	<b>51.0</b>	57.9	.
UGA	G05-1481RR	53.2	.	.	80.2	<b>57.3</b>	<b>49.3</b>	60.0	.
UGA	G05-2324RR	47.6	.	.	65.3	<b>51.9</b>	41.9	51.7	.
UGA	G05-2468RR	49.9	.	.	66.3	<b>56.4</b>	<b>50.3</b>	55.7	.
UGA	G05-2505RR	51.5	.	.	68.4	<b>56.1</b>	45.0	55.3	.
UGA	G05-3758RR	54.2	.	.	77.4	<b>57.8</b>	43.2	58.2	.
UGA	G05-4237RR	53.5	.	.	76.2	<b>54.5</b>	40.4	56.2	.
UGA	G07PR-443	54.1	.	.	75.0	<b>54.1</b>	38.1	55.3	53.1
USG	7732nRR	52.3	.	.	79.2	<b>52.8</b>	45.4	57.4	56.2
USG	77S09	47.9	.	.	75.5	<b>52.4</b>	45.6	55.4	.
USG	77U28	<b>55.3</b>	.	.	74.0	<b>50.8</b>	43.4	55.9	57.8
Average		53.0	.	.	74.3	54.0	45.3	56.7	56.8
LSD at 10% Level		6.0			10.8	N.S.	5.8	5.2	3.8
Std. Err. of Entry Mean		2.5			4.5	3.6	2.4	13.8	14.2

1. Yields calculated at 13% moisture.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

## Regional Summary of Early-Planted Soybean Variety Performance, 2009

Company or Brand Name	Variety	Yield <sup>1</sup>					
		South <sup>2</sup>		North <sup>3</sup>		Statewide <sup>4</sup>	
		2009	2-Year Average	2009	2-Year Average	2009	2-Year Average
----- bu/acre -----							
<u>Maturity Group V</u>							
AgSouth	AGS 568RR	61.1	<b>61.7</b>	<b>62.5</b>	<b>55.0</b>	<b>61.8</b>	<b>58.4</b>
AsGrow	DP5915RR	58.3	.	<b>65.4</b>	.	<b>61.9</b>	.
Asgrow	AG5905	63.6	<b>64.8</b>	<b>62.9</b>	52.6	<b>63.3</b>	<b>58.7</b>
DynaGro	32B57	<b>70.4</b>	.	60.2	.	<b>65.3</b>	.
DynaGro	33C59	64.7	.	<b>64.6</b>	.	<b>64.6</b>	.
DynaGro	33X55	63.8	<b>61.4</b>	<b>65.6</b>	53.2	<b>64.7</b>	57.3
DynaGro	35F55	56.7	.	59.4	.	58.1	.
Pioneer	95Y20	60.9	<b>63.2</b>	<b>63.1</b>	52.4	<b>62.0</b>	57.8
Pioneer	95Y70	63.2	.	<b>66.3</b>	.	<b>64.8</b>	.
Progeny	P5622RR	55.0	<b>57.9</b>	55.9	51.2	55.4	54.6
Progeny	P5650RR	60.5	<b>63.4</b>	<b>67.2</b>	<b>58.6</b>	<b>63.9</b>	<b>61.0</b>
Progeny	P5706RR	61.0	<b>62.0</b>	<b>62.5</b>	53.3	<b>61.7</b>	57.7
Public Variety	Osage	58.8	<b>57.2</b>	<b>64.9</b>	50.4	<b>61.8</b>	53.8
SS	LL511N	63.6	.	<b>62.7</b>	.	<b>63.1</b>	.
SS	LL595N	61.6	.	<b>63.8</b>	.	<b>62.7</b>	.
SS	RT5160N	62.1	<b>62.2</b>	61.4	52.6	<b>61.7</b>	57.4
SS	RT5471N	59.7	.	58.5	.	59.1	.
SS	RT5760N	58.1	<b>59.5</b>	<b>63.9</b>	<b>55.8</b>	61.0	57.6
SS	RT5930N	61.3	<b>63.3</b>	59.1	51.6	60.2	57.5
SS	RT5951N	61.9	<b>62.7</b>	61.0	49.5	61.5	56.1
SS	RT5960N	57.1	<b>59.1</b>	60.2	51.5	58.6	55.3
Schillinger	5440R	58.8	.	55.6	.	57.2	.
Schillinger	557RC	59.1	<b>60.0</b>	60.9	51.1	60.0	55.5
Terral	TV47R18	42.4	.	43.9	.	43.1	.
Terral	TV49R17	45.0	.	53.8	.	49.4	.
Terral	TV49R19	45.1	.	50.1	.	47.6	.
Terral	TV54R28	55.2	.	59.0	.	57.1	.
Terral	TV55R15	55.8	.	<b>65.0</b>	.	60.4	.
UGA	R04-357	60.1	.	<b>62.1</b>	.	61.1	.
US Seeds	HALO 4:65	36.3	.	48.5	.	42.4	.
US Seeds	HALO 4:94	58.1	.	<b>66.9</b>	.	<b>62.5</b>	.
US Seeds	HALO 5:25	59.0	.	<b>62.7</b>	.	60.9	.
US Seeds	HALO 5:65	60.6	.	<b>64.4</b>	.	<b>62.5</b>	.
USG	75Z98	60.5	<b>59.6</b>	<b>66.7</b>	<b>55.8</b>	<b>63.6</b>	57.7
USG	Allen	58.7	<b>58.9</b>	59.4	50.7	59.1	54.8
Average		58.2	61.1	60.9	52.8	59.5	57.0
LSD at 10% Level		4.8	N.S. <sup>5</sup>	5.6	3.7	3.7	2.6
Std. Err. of Entry Mean		10.6	11.0	11.8	12.6	11.3	11.7

## Regional Summary of Early-Planted Soybean Variety Performance, 2009 (Continued)

Company or Brand Name	Variety	Yield <sup>1</sup>					
		South <sup>2</sup>		North <sup>3</sup>		Statewide <sup>4</sup>	
		2009	2-Year Average	2009	2-Year Average	2009	2-Year Average
----- bu/acre -----							
<u>Maturity Group VI</u>							
AR	R01-2346	<b>54.6</b>	56.5	<b>54.6</b>	<b>54.7</b>	<b>54.6</b>	55.6
AR	R01-327	<b>60.7</b>	<b>64.1</b>	<b>56.0</b>	<b>56.8</b>	<b>58.3</b>	<b>60.4</b>
AR	R03-1232	<b>56.1</b>	57.8	<b>56.1</b>	<b>56.0</b>	<b>56.1</b>	56.9
AgSouth	AGS606RR	<b>62.5</b>	<b>63.5</b>	<b>52.1</b>	52.4	<b>57.3</b>	<b>58.0</b>
Asgrow	AG6301	<b>56.2</b>	59.1	<b>49.1</b>	52.2	<b>52.7</b>	55.7
Asgrow	AG6702	<b>56.2</b>	59.6	<b>56.2</b>	<b>54.3</b>	<b>56.2</b>	57.0
DynaGro	SX09667	<b>60.8</b>	.	<b>50.1</b>	.	<b>55.5</b>	.
DynaGro	V622NRR	<b>59.7</b>	.	<b>57.0</b>	.	<b>58.3</b>	.
NK	S61-Q2	<b>63.8</b>	60.6	<b>47.2</b>	51.6	<b>55.5</b>	56.1
Progeny	P6208RR	<b>59.0</b>	59.5	<b>47.5</b>	48.5	<b>53.2</b>	54.0
Progeny	P6708RR	<b>58.7</b>	.	<b>51.2</b>	.	<b>55.0</b>	.
Public Variety	Desha	<b>58.3</b>	.	<b>49.8</b>	.	<b>54.1</b>	.
Public Variety	Musen	<b>61.9</b>	<b>62.5</b>	<b>51.4</b>	47.6	<b>56.7</b>	55.0
Public Variety	NC Roy	<b>61.5</b>	.	<b>49.5</b>	.	<b>55.5</b>	.
SC	SC02-011RR	<b>56.7</b>	.	<b>53.7</b>	.	<b>55.2</b>	.
SS	RT6207N	<b>61.1</b>	<b>62.4</b>	<b>53.2</b>	<b>54.4</b>	<b>57.1</b>	<b>58.4</b>
SS	RT6451N	<b>60.8</b>	<b>61.6</b>	<b>48.7</b>	49.9	<b>54.7</b>	55.7
SS	RT6988N	<b>51.6</b>	56.4	<b>49.1</b>	52.3	<b>50.4</b>	54.3
UGA	G05-1102RR	<b>62.9</b>	.	<b>55.6</b>	.	<b>59.3</b>	.
USG	620nRR	<b>61.7</b>	<b>62.1</b>	<b>53.3</b>	<b>54.0</b>	<b>57.5</b>	<b>58.0</b>
USG	7635nRR	<b>59.9</b>	<b>62.2</b>	<b>51.8</b>	51.3	<b>55.9</b>	56.7
USG	76S17	<b>58.3</b>	<b>61.3</b>	<b>55.4</b>	<b>54.8</b>	<b>56.9</b>	<b>58.0</b>
USG	76S79	<b>65.8</b>	.	<b>49.0</b>	.	<b>57.4</b>	.
Average		59.5	60.6	52.1	52.7	55.8	56.7
LSD at 10% Level		N.S.	3.4	N.S.	3.2	N.S.	2.4
Std. Err. of Entry Mean		11.2	10.3	10.4	11.2	10.9	10.7
<u>Maturity Groups VII and VIII</u>							
AU	AU02-2814	56.9	.	48.6	.	54.9	.
AgSouth	AGS 747RR	56.1	.	51.6	.	55.0	.
AgSouth	AGS 758RR	57.1	57.9	51.7	49.1	55.8	55.7
AgSouth	AGS Benning	57.6	57.5	53.5	51.4	56.5	56.0
AgSouth	AGS Prichard RR	50.8	53.4	53.2	46.9	51.4	51.8
AgSouth	AGS Woodruff	<b>70.0</b>	<b>68.7</b>	<b>57.4</b>	<b>60.4</b>	<b>66.8</b>	<b>66.6</b>
AsGrow	DP7330RR	59.1	59.0	50.8	48.3	57.0	56.3
AsGrow	DP7870RR	58.9	58.2	52.1	51.9	57.2	56.6
Asgrow	AG7501	59.8	61.0	54.0	52.6	58.3	58.9
Asgrow	AG7502	61.2	60.5	52.5	51.0	59.0	58.1
Asgrow	H7242RR	57.9	56.7	47.9	48.7	55.4	54.7
DynaGro	35K73	57.1	56.8	50.7	48.5	55.5	54.7
DynaGro	V76N9RR	57.9	61.6	<b>58.4</b>	<b>55.1</b>	58.1	59.9
NK	S74-W6	60.3	59.6	<b>56.2</b>	53.1	59.3	57.9
NK	S78-G6	56.1	58.6	<b>58.0</b>	<b>56.5</b>	56.5	58.0

## Regional Summary of Early-Planted Soybean Variety Performance, 2009 (Continued)

Company or Brand Name	Variety	Yield <sup>1</sup>					
		South <sup>2</sup>		North <sup>3</sup>		Statewide <sup>4</sup>	
		2009	2-Year Average	2009	2-Year Average	2009	2-Year Average
----- bu/acre -----							
Maturity Groups VII and VIII - continued							
NK	S80-P2	58.1	58.3	<b>56.4</b>	54.5	57.7	57.3
Pioneer	97M50	56.4	57.2	52.4	49.4	55.4	55.2
Progeny	P7208RR	58.6	58.7	51.7	52.2	56.9	57.1
Public Variety	Cook	55.3	56.2	49.4	49.9	53.8	54.6
Public Variety	Motte	51.1	52.9	52.4	48.1	51.4	51.7
Public Variety	NC Raleigh	56.2	.	50.7	.	54.9	.
Public Variety	Santee	58.9	60.4	49.9	47.1	56.6	57.1
SC	SC02-208RR	56.2	.	51.6	.	55.0	.
SS	RT7270N	63.9	62.5	<b>60.7</b>	54.5	<b>63.1</b>	60.5
SS	RT7999N	54.9	54.7	52.1	47.3	54.2	52.8
UGA	G-Has(4)PHY-1	56.1	54.8	48.0	45.0	54.1	52.3
UGA	G03-1187RR	59.4	59.5	53.0	54.7	57.8	58.3
UGA	G04-1618RR	57.6	61.0	<b>60.4</b>	<b>58.3</b>	58.3	60.3
UGA	G04-2215RR	62.9	63.3	<b>55.8</b>	52.8	61.1	60.7
UGA	G04-2414RR	60.8	62.4	<b>56.1</b>	52.2	59.6	59.8
UGA	G04-3248RR	52.5	54.5	51.4	50.9	52.2	53.6
UGA	G05-1200RR	60.3	.	52.2	.	58.3	.
UGA	G05-1209RR	58.0	.	<b>57.5</b>	.	57.9	.
UGA	G05-1481RR	62.3	.	53.2	.	60.0	.
UGA	G05-2324RR	53.0	.	47.6	.	51.7	.
UGA	G05-2468RR	57.7	.	49.9	.	55.7	.
UGA	G05-2505RR	56.5	.	51.5	.	55.3	.
UGA	G05-3758RR	59.5	.	54.2	.	58.2	.
UGA	G05-4237RR	57.1	.	53.5	.	56.2	.
UGA	G07PR-443	55.7	54.3	54.1	49.6	55.3	53.1
USG	7732nRR	59.1	59.1	52.3	47.7	57.4	56.2
USG	77S09	57.9	.	47.9	.	55.4	.
USG	77U28	56.1	58.8	<b>55.3</b>	54.8	55.9	57.8
Average		57.9	58.6	53.0	51.5	56.7	56.8
LSD at 10% Level		5.0	3.4	6.0	5.4	5.2	3.8
Std. Err. of Entry Mean		11.1	10.6	2.5	2.0	13.8	14.2

1. Yields calculated at 13% moisture.
2. Plains.. Midville, Plains and Tifton.
3. Maturity Groups V & VI: Athens, Calhoun and Griffin. Maturity Groups VII & VIII: Athens.
4. Maturity Groups V & VI: All six locations. Maturity Groups VII & VIII: Four locations (Athens, Midville, Plains, and Tifton).
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a LSD value was not calculated.

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

## Regional Summary of Late-Planted Soybean Variety Performance, 2009

Company or Brand Name	Variety	Yield <sup>1</sup>					
		South <sup>2</sup>		North <sup>3</sup>		Statewide <sup>4</sup>	
		2009	2-Year Average	2009	2-Year Average	2009	2-Year Average
----- bu/acre -----							
<u>Maturity Groups VII and VIII</u>							
AU	AU02-2814	46.7	.	45.1	.	<b>45.9</b>	.
AgSouth	AGS 747RR	<b>49.5</b>	.	43.7	.	<b>46.6</b>	.
AgSouth	AGS 758RR	43.7	<b>49.0</b>	48.8	<b>41.1</b>	<b>46.2</b>	45.1
AgSouth	AGS Benning	22.7	<b>35.3</b>	39.0	<b>31.9</b>	<b>30.8</b>	33.6
AgSouth	AGS Prichard RR	<b>50.6</b>	<b>49.4</b>	49.5	<b>38.8</b>	<b>50.1</b>	44.1
AgSouth	AGS Woodruff	<b>47.7</b>	<b>50.8</b>	<b>53.9</b>	<b>41.3</b>	<b>50.8</b>	46.0
AsGrow	DP7330RR	<b>48.3</b>	<b>51.3</b>	49.2	<b>39.5</b>	<b>48.7</b>	45.4
AsGrow	DP7870RR	<b>50.6</b>	<b>50.2</b>	48.8	<b>40.1</b>	<b>49.7</b>	45.1
Asgrow	AG7501	<b>51.8</b>	<b>56.5</b>	<b>56.8</b>	<b>42.0</b>	<b>54.3</b>	<b>49.2</b>
Asgrow	AG7502	45.9	<b>47.6</b>	49.5	<b>40.7</b>	<b>47.7</b>	44.2
Asgrow	H7242RR	43.5	<b>46.4</b>	<b>52.7</b>	<b>42.2</b>	<b>48.1</b>	44.3
DynaGro	35K73	<b>53.3</b>	<b>52.6</b>	45.8	<b>36.9</b>	<b>49.5</b>	44.8
DynaGro	V76N9RR	<b>55.7</b>	<b>57.3</b>	<b>58.3</b>	<b>44.9</b>	<b>57.0</b>	<b>51.1</b>
NK	S74-W6	34.9	<b>44.7</b>	42.2	<b>36.6</b>	<b>38.5</b>	40.7
NK	S78-G6	42.6	<b>48.0</b>	<b>54.9</b>	<b>40.1</b>	<b>48.7</b>	44.1
NK	S80-P2	46.4	<b>48.5</b>	50.6	<b>37.2</b>	<b>48.5</b>	42.9
Pioneer	97M50	45.5	<b>46.2</b>	51.8	<b>42.6</b>	<b>48.6</b>	44.4
Progeny	P7208RR	<b>52.6</b>	<b>53.7</b>	47.9	<b>37.3</b>	<b>50.3</b>	45.5
Public Variety	Cook	<b>50.4</b>	<b>49.9</b>	50.7	<b>37.8</b>	<b>50.6</b>	43.9
Public Variety	Motte	47.0	<b>47.9</b>	39.9	<b>38.7</b>	<b>43.5</b>	43.3
Public Variety	NC Raleigh	<b>54.3</b>	.	38.6	.	<b>46.4</b>	.
Public Variety	Santee	43.9	<b>45.4</b>	39.9	<b>34.5</b>	<b>41.9</b>	40.0
SC	SC02-208RR	42.7	.	50.8	.	<b>46.7</b>	.
SS	RT7270N	<b>50.4</b>	<b>48.5</b>	<b>51.9</b>	<b>41.8</b>	<b>51.1</b>	45.2
SS	RT7999N	<b>50.1</b>	<b>48.4</b>	47.8	<b>36.5</b>	<b>49.0</b>	42.5
UGA	G-Has(4)PHY-1	37.3	<b>42.0</b>	41.7	<b>34.3</b>	<b>39.5</b>	38.2
UGA	G03-1187RR	47.2	<b>51.3</b>	51.7	<b>40.6</b>	<b>49.5</b>	46.0
UGA	G04-1618RR	37.7	<b>45.8</b>	48.6	<b>39.9</b>	<b>43.1</b>	42.9
UGA	G04-2215RR	43.7	<b>51.1</b>	<b>53.3</b>	<b>42.4</b>	<b>48.5</b>	46.7
UGA	G04-2414RR	44.6	<b>47.5</b>	49.6	<b>35.9</b>	<b>47.1</b>	41.7
UGA	G04-3248RR	45.7	<b>45.3</b>	49.7	<b>39.3</b>	<b>47.7</b>	42.3
UGA	G05-1200RR	40.1	.	<b>55.1</b>	.	<b>47.6</b>	.
UGA	G05-1209RR	42.9	.	48.9	.	<b>45.9</b>	.
UGA	G05-1481RR	35.4	.	<b>53.0</b>	.	<b>44.2</b>	.
UGA	G05-2324RR	39.9	.	47.7	.	<b>43.8</b>	.
UGA	G05-2468RR	<b>55.6</b>	.	46.2	.	<b>50.9</b>	.
UGA	G05-2505RR	40.5	.	48.8	.	<b>44.6</b>	.
UGA	G05-3758RR	<b>51.7</b>	.	48.5	.	<b>50.1</b>	.
UGA	G05-4237RR	<b>54.8</b>	.	48.0	.	<b>51.4</b>	.
UGA	G07PR-443	<b>48.1</b>	<b>46.2</b>	44.9	<b>36.5</b>	<b>46.5</b>	41.3
USG	7732nRR	39.0	<b>43.3</b>	<b>51.9</b>	<b>44.0</b>	<b>45.4</b>	43.7
USG	77S09	47.3	.	<b>54.6</b>	.	<b>50.9</b>	.
USG	77U28	<b>50.4</b>	<b>54.3</b>	48.9	<b>37.2</b>	<b>49.6</b>	45.8
Average		45.9	48.6	48.8	39.1	47.3	43.8
LSD at 10% Level		8.3	N.S. <sup>4</sup>	6.4	N.S.	N.S.	3.4
Std. Err. of Entry Mean		13.3	11.7	9.7	10.7	11.6	11.4

## Regional Summary of Late-Planted Soybean Variety Performance, 2009 (Continued)

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1. Yields calculated at 13% moisture.
2. Plains.
3. Griffin.
4. The F-test indicated no statistical differences at the  $\alpha = .10$  probability level; therefore a LSD value was not calculated.

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



## Tifton, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group V</u>										
Asgrow	AG5905	<b>61.1</b>	5	<b>55.0</b>	.	39	1.0	13.8	1.5	1.0
Pioneer	95Y20	<b>60.5</b>	4	<b>55.2</b>	.	29	1.0	14.5	1.5	1.0
SS	RT5951N	<b>60.4</b>	10 <sup>T</sup>	52.9	.	33	1.3	17.9	1.7	1.0
Progeny	5706RR	<b>60.2</b>	6	54.6	.	39	1.7	15.8	1.3	1.0
AgSouth	AGS568RR	<b>57.5</b>	13	52.4	.	28	1.0	15.7	1.5	1.0
Schillinger	557RC	<b>57.4</b>	11	52.7	.	31	1.0	16.9	1.7	1.0
SS	RT5160N	<b>57.0</b>	2	<b>57.0</b>	.	37	1.0	16.0	1.8	1.0
USG	Allen	<b>57.0</b>	7	54.3	.	36	2.0	15.7	1.7	1.0
Progeny	5650RR	<b>56.3</b>	22	47.4	.	40	2.3	13.8	1.3	1.0
SS	RT5960N	<b>56.1</b>	14	52.1	.	34	1.0	17.1	1.7	1.0
SS	RT5760N	<b>55.5</b>	10 <sup>T</sup>	52.9	.	27	1.0	16.4	1.7	1.0
SS	RT5930N	<b>54.8</b>	9 <sup>T</sup>	53.0	.	34	1.0	16.6	2.0	1.0
USG	75Z98	<b>52.4</b>	20	47.7	.	33	2.0	17.8	1.8	1.0
DynaGro	33X55	<b>50.6</b>	8	54.0	.	31	1.3	17.1	1.7	1.0
Progeny	5622RR	<b>50.2</b>	19	47.8	.	33	1.0	17.7	1.7	1.0
Public Variety	Osage	<b>50.0</b>	21 <sup>T</sup>	47.6	.	29	1.0	15.2	1.8	1.0
DynaGro	32B57	.	1	<b>60.7</b>	.	35	1.0	19.7	1.8	1.0
US Seeds	HALO 5:65	.	3	<b>55.8</b>	.	34	1.7	15.2	1.3	1.0
SS	LL511N	.	9 <sup>T</sup>	53.0	.	29	1.0	16.3	1.8	1.0
SS	LL595N	.	9 <sup>T</sup>	53.0	.	33	1.3	15.4	1.5	1.0
SS	RT5471N	.	12	52.6	.	32	1.7	14.4	1.5	1.0
DynaGro	33C59	.	15	51.9	.	34	1.3	16.9	1.3	1.0
US Seeds	HALO 5:25	.	16	51.6	.	27	1.0	15.2	1.7	1.0
US Seeds	HALO 4:94	.	17	50.1	.	38	1.3	15.4	2.0	1.0
Asgrow	DP5915RR	.	18	49.6	.	36	2.3	15.1	1.8	1.0
Schillinger	5440R	.	21 <sup>T</sup>	47.6	.	25	1.3	14.4	1.7	1.0
UGA	R04-357	.	23	47.1	.	34	2.7	15.8	1.8	1.0
Terral	TV49R17	.	24	45.1	.	45	2.7	15.8	1.8	1.0
Terral	TV54R28	.	25	44.6	.	33	1.0	16.3	1.8	1.0
Terral	TV55R15	.	26	43.2	.	37	3.0	17.2	1.5	1.0
Pioneer	95Y70	.	27	42.6	.	41	2.7	14.9	1.5	1.0
DynaGro	35F55	.	28	40.3	.	39	2.0	16.1	2.2	1.0
Terral	TV49R19	.	29	39.9	.	37	1.0	16.4	2.7	1.0
Terral	TV47R18	.	30	37.6	.	37	2.7	15.0	2.3	1.0
US Seeds	HALO 4:65	.	31	36.2	.	38	1.0	17.4	3.7	1.0
Average		56.1		49.7 <sup>5</sup>	.	34	1.5	16.0	1.8	1.0
LSD at 10% Level		N.S. <sup>6</sup>		6.0		4	0.5	-	0.5	-
Std. Err. of Entry Mean		2.4		2.5		2	0.2	-	0.2	-

**Tifton, Georgia:**  
**Early-Planted Soybean Variety Performance, 2009, Irrigated**  
**(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VI</u>										
AR	R01-327	<b>61.6</b>	11	<b>49.9</b>	.	31	1.0	19.3	1.7	1.0
USG	7635nRR	<b>58.4</b>	6	<b>52.8</b>	.	32	1.3	16.9	1.7	1.0
Public Variety	Musen	<b>58.4</b>	10	<b>50.6</b>	.	37	2.7	13.4	1.5	1.0
USG	620nRR	<b>58.2</b>	4	<b>54.0</b>	.	37	2.3	15.9	1.5	1.0
USG	76S17	<b>58.1</b>	2	<b>54.7</b>	.	31	1.0	17.3	1.5	1.0
AgSouth	AGS606RR	<b>57.2</b>	9	<b>52.1</b>	.	31	1.0	14.1	1.7	1.0
SS	RT6207N	<b>56.4</b>	3	<b>54.1</b>	.	31	1.0	14.9	1.7	1.0
Progeny	6208RR	<b>56.2</b>	1	<b>55.0</b>	.	35	1.0	16.2	1.5	1.0
NK	S61-Q2	<b>55.3</b>	7	<b>52.7</b>	.	33	1.0	19.2	1.7	1.0
SS	RT6451N	<b>54.9</b>	8	<b>52.4</b>	.	33	1.7	14.9	1.5	1.0
SS	RT6988N	<b>51.7</b>	22	41.3	.	33	1.0	15.0	1.7	1.0
Asgrow	AG6702	<b>50.1</b>	23	39.4	.	37	2.7	12.6	1.7	1.0
AR	R01-2346	<b>49.0</b>	14	<b>48.4</b>	.	31	1.0	16.8	1.8	1.0
Asgrow	AG6301	<b>48.2</b>	19	43.8	.	33	1.3	17.0	1.5	1.0
AR	R03-1232	<b>45.9</b>	20	43.7	.	29	1.0	18.2	1.7	1.0
USG	76S79	.	5	<b>52.9</b>	.	35	1.3	13.0	1.5	1.0
UGA	G05-1102RR	.	12	<b>49.7</b>	.	41	1.0	13.9	1.5	1.0
SC	SC02-011RR	.	13	<b>49.2</b>	.	39	1.3	14.2	1.7	1.0
DynaGro	V622NRR	.	15	47.5	.	34	2.7	14.6	1.5	1.0
DynaGro	SX09667	.	16	46.3	.	29	1.0	16.3	1.5	1.0
Progeny	6708RR	.	17	46.2	.	31	1.3	15.9	1.5	1.0
Public Variety	Desha	.	18	46.1	.	37	1.3	16.3	1.5	1.0
Public Variety	NC Roy	.	21	43.3	.	36	2.3	13.5	1.5	1.0
Average		54.6		49.0 <sup>7</sup>	.	34	1.4	15.6	1.6	1.0
LSD at 10% Level		N.S.		7.3		N.S.	N.S.	-	N.S.	-
Std. Err. of Entry Mean		2.3		3.1		2	0.5	-	0.1	-

**Tifton, Georgia:**  
**Early-Planted Soybean Variety Performance, 2009, Irrigated**  
**(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
AgSouth	AGS Woodruff	<b>60.1</b>	2	<b>53.6</b>	.	39	2.3	16.4	2.0	1.0
Public Variety	Santee	<b>59.3</b>	1	<b>54.0</b>	.	42	3.3	16.1	1.3	1.0
DynaGro	V76N9RR	<b>58.9</b>	18	46.6	.	45	3.7	12.5	1.7	1.0
UGA	G04-2215RR	<b>57.6</b>	5	<b>50.1</b>	.	41	1.3	11.3	1.5	1.0
Asgrow	AG7502	<b>57.4</b>	19	46.1	.	40	3.3	12.0	1.8	1.0
UGA	G04-1618RR	<b>57.3</b>	16	47.2	.	37	3.0	11.3	1.8	1.0
UGA	G03-1187RR	<b>56.4</b>	4 <sup>T</sup>	<b>50.3</b>	.	38	1.3	14.6	1.8	1.0
AgSouth	AGS Benning	<b>55.7</b>	8	<b>49.4</b>	.	38	2.3	16.0	1.5	1.0
AgSouth	AGS758RR	<b>55.1</b>	6	<b>50.0</b>	.	37	1.7	16.1	1.8	1.0
UGA	G04-3248RR	<b>54.9</b>	11	<b>48.6</b>	.	40	1.7	12.5	1.7	1.0
UGA	G04-2414RR	<b>54.8</b>	7	<b>49.6</b>	.	41	1.0	13.5	1.8	1.0
Asgrow	AG7501	<b>54.6</b>	15	47.5	.	42	2.7	15.1	1.7	1.0
NK	S78-G6	<b>54.5</b>	20 <sup>T</sup>	45.7	.	41	2.3	17.3	1.7	1.0
Pioneer	97M50	54.1	10	<b>48.9</b>	.	37	2.3	14.4	2.0	1.0
NK	S74-W6	54.1	20 <sup>T</sup>	45.7	.	35	2.0	17.2	1.8	1.0
SS	RT7270N	53.3	13	47.8	.	41	2.3	12.8	1.7	1.0
Asgrow	H7242RR	52.5	12	<b>48.2</b>	.	43	1.3	16.0	2.0	1.0
NK	S80-P2	52.2	26	43.1	.	42	2.0	14.6	1.7	1.0
USG	7732nRR	51.0	22	45.4	.	41	3.3	15.5	1.7	1.0
Asgrow	DP7330RR	50.8	23 <sup>T</sup>	45.0	.	37	1.7	16.4	1.7	1.0
SS	RT7999N	50.7	24 <sup>T</sup>	43.4	.	45	1.3	12.6	2.0	1.0
USG	77U28	48.9	24 <sup>T</sup>	43.4	.	31	1.0	16.9	2.0	1.0
Asgrow	DP7870RR	48.4	28	42.3	.	46	3.3	14.2	2.0	1.0
DynaGro	35K73	48.2	30	41.5	.	39	4.0	15.4	1.8	1.0
Progeny	7208RR	48.1	20 <sup>T</sup>	45.7	.	35	1.3	16.8	2.0	1.0
Public Variety	Motte	47.7	33 <sup>T</sup>	39.2	.	41	3.7	14.0	2.5	1.0
AgSouth	AGS Prichard RR	47.0	36	35.0	.	44	3.7	12.5	1.5	1.0
UGA	G-Has(4)PHY-1	44.6	35	37.1	.	40	3.7	16.8	1.8	1.0
Public Variety	Cook	43.8	37	34.6	.	42	4.0	14.5	2.2	1.0
UGA	G07PR-443	42.2	34	38.1	.	41	3.7	14.9	1.7	1.0
UGA	G05-1209RR	.	3	<b>51.0</b>	.	45	2.7	12.7	2.2	1.0
UGA	G05-2468RR	.	4 <sup>T</sup>	<b>50.3</b>	.	40	1.7	12.5	1.8	1.0
UGA	G05-1481RR	.	9	<b>49.3</b>	.	40	1.0	12.1	1.5	1.0
UGA	G05-1200RR	.	14	47.6	.	36	1.0	13.5	1.8	1.0
SC	SC02-208RR	.	17	46.9	.	43	1.3	13.3	1.7	1.0
USG	77S09	.	21	45.6	.	41	2.0	15.1	1.7	1.0
UGA	G05-2505RR	.	23 <sup>T</sup>	45.0	.	42	1.7	13.3	1.7	1.0
UGA	G05-3758RR	.	25	43.2	.	43	2.0	12.0	1.5	1.0
AgSouth	AGS747RR	.	27	42.8	.	43	1.0	15.0	1.7	1.0
UGA	G05-2324RR	.	29	41.9	.	49	3.0	12.3	1.8	1.0
AU	AU02-2814	.	31	41.4	.	37	3.0	12.0	1.8	1.0
UGA	G05-4237RR	.	32	40.4	.	40	3.0	12.8	1.7	1.0
Public Variety	NC Raleigh	.	33 <sup>T</sup>	39.2	.	34	3.7	13.5	1.8	1.0
Average		52.5		45.3 <sup>B</sup>	.	40	2.4	14.2	1.8	1.0
LSD at 10% Level		5.6		5.8		3	0.8	-	0.4	-
Std. Err. of Entry Mean		1.8		2.4		0	0.3	-	0.2	-

**Tifton, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

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\* 2008-2009.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 8.8% and df for EMS = 68.
6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
7. CV = 10.8% and df for EMS = 44.
8. CV = 0/4% and df for EMS = 84.

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

Planted: June 1, 2009.

Harvested: Maturity Groups V and VI - October 22, 2009  
Maturity Group VII and VIII - November 3, 2009

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

Soil Type: Tifton loamy sand.

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

Fertilization: 0 lb N, 0 lb P<sub>2</sub>O<sub>5</sub>, and 96 lb K<sub>2</sub>O/acre.

Previous Crop: Corn.

Management: Disked, subsoiled and bedded, rototilled; Treflan, Storm, Select, Poast and Classic used for weed control; Temik, Tracer and Mustang Max used for insect control; irrigated 6.0 inches.

Test conducted by A. E. Coy, R. E. Brooke, and D. G. Dunn.

## Plains, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group V</u>										
SS	RT5930N	<b>64.6</b>	3	<b>63.9</b>	.	42	1.7	.	.	1.0
Asgrow	AG5905	<b>61.0</b>	2	<b>65.1</b>	.	45	1.7	.	.	1.0
Progeny	5650RR	<b>60.7</b>	10	59.9	.	39	3.7	.	.	1.0
Progeny	5622RR	<b>60.6</b>	9	60.4	.	41	2.0	.	.	1.0
DynaGro	33X55	<b>59.9</b>	5	<b>61.5</b>	.	37	3.0	.	.	1.0
AgSouth	AGS568RR	58.5	11	59.4	.	38	2.3	.	.	1.0
SS	RT5951N	58.4	8	60.5	.	39	2.7	.	.	1.0
Progeny	5706RR	56.7	20	56.2	.	45	1.7	.	.	1.0
SS	RT5760N	56.6	13	58.8	.	37	3.0	.	.	1.0
Schillinger	557RC	56.3	12	59.0	.	35	1.0	.	.	1.0
Pioneer	95Y20	55.9	14	58.3	.	37	2.0	.	.	1.0
USG	75Z98	55.0	15	58.2	.	36	2.7	.	.	1.0
SS	RT5960N	54.8	27	53.3	.	42	1.3	.	.	1.0
SS	RT5160N	53.5	26	53.8	.	41	2.0	.	.	1.0
USG	Allen	52.8	30	49.0	.	38	2.7	.	.	1.0
Public Variety	Osage	46.5	29	49.6	.	35	1.0	.	.	1.0
DynaGro	32B57	.	1	<b>68.2</b>	.	41	2.0	.	.	1.0
Pioneer	95Y70	.	4	<b>63.2</b>	.	41	2.7	.	.	1.0
Schillinger	5440R	.	6	61.1	.	31	1.0	.	.	1.0
DynaGro	33C59	.	7	60.9	.	38	3.0	.	.	1.0
DynaGro	35F55	.	16	57.7	.	39	3.7	.	.	1.0
SS	LL511N	.	17	57.3	.	32	1.7	.	.	1.0
US Seeds	HALO 4:94	.	18	57.2	.	37	1.0	.	.	1.0
US Seeds	HALO 5:65	.	19	57.0	.	39	2.3	.	.	1.0
SS	RT5471N	.	21	55.7	.	37	3.3	.	.	1.0
US Seeds	HALO 5:25	.	22	55.6	.	34	1.0	.	.	1.0
SS	LL595N	.	23	55.5	.	39	2.3	.	.	1.0
UGA	R04-357	.	24	55.2	.	37	3.3	.	.	1.0
Terral	TV55R15	.	25	54.1	.	38	3.3	.	.	1.0
Asgrow	DP5915RR	.	28	53.1	.	40	3.3	.	.	1.0
Terral	TV54R28	.	31	45.2	.	38	1.7	.	.	1.0
Terral	TV49R17	.	32	40.1	.	45	1.7	.	.	1.0
Terral	TV47R18	.	33	39.1	.	41	2.0	.	.	1.0
Terral	TV49R19	.	34	35.0	.	37	1.0	.	.	1.0
US Seeds	HALO 4:65	.	35	19.9	.	36	1.0	.	.	1.0
Average		57.0		54.8 <sup>5</sup>	.	39	2.2	.	.	1.0
LSD at 10% Level		5.2		6.7		3	0.6			-
Std. Err. of Entry Mean		2.2		2.8		1	0.3			-

**Plains, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
Maturity Group VI										
SS	RT6207N	<b>61.5</b>	5	<b>59.2</b>	.	39	1.3	.	.	1.0
USG	7635nRR	<b>60.4</b>	4	<b>60.1</b>	.	40	3.0	.	.	1.0
AR	R01-327	<b>58.5</b>	3	<b>60.9</b>	.	39	2.3	.	.	1.0
Public Variety	Musen	<b>57.7</b>	7 <sup>T</sup>	<b>58.8</b>	.	42	2.0	.	.	1.0
Asgrow	AG6301	<b>57.4</b>	12	53.0	.	41	2.3	.	.	1.0
NK	S61-Q2	<b>56.7</b>	1	<b>63.1</b>	.	43	2.0	.	.	1.0
AgSouth	AGS606R	<b>55.7</b>	10	54.5	.	31	2.0	.	.	1.0
USG	76S17	<b>55.4</b>	16	50.2	.	40	2.3	.	.	1.0
AR	R03-1232	<b>53.5</b>	13	52.7	.	39	1.3	.	.	1.0
SS	RT6451N	<b>53.4</b>	17	49.6	.	41	3.0	.	.	1.0
USG	620nRR	<b>52.7</b>	15 <sup>T</sup>	51.5	.	39	2.7	.	.	1.0
AR	R01-2346	<b>51.2</b>	18	47.7	.	35	2.7	.	.	1.0
Asgrow	AG6702	<b>50.9</b>	15 <sup>T</sup>	51.5	.	35	2.3	.	.	1.0
SS	RT6988N	<b>50.6</b>	19	47.5	.	43	2.0	.	.	1.0
Progeny	6208RR	<b>49.8</b>	20	44.5	.	41	2.7	.	.	1.0
USG	76S79	.	2	<b>62.7</b>	.	41	2.3	.	.	1.0
Progeny	6708RR	.	6	<b>59.1</b>	.	40	2.3	.	.	1.0
Public Variety	NC Roy	.	7 <sup>T</sup>	<b>58.8</b>	.	36	2.7	.	.	1.0
DynaGro	V622NRR	.	8	<b>57.6</b>	.	39	3.0	.	.	1.0
DynaGro	SX09667	.	9	<b>55.2</b>	.	38	2.0	.	.	1.0
Public Variety	Desha	.	11	53.3	.	42	2.3	.	.	1.0
SC	SC02-011RR	.	14 <sup>T</sup>	52.6	.	47	2.0	.	.	1.0
UGA	G05-1102RR	.	14 <sup>T</sup>	52.6	.	41	2.0	.	.	1.0
Average		55.0		54.6 <sup>6</sup>	.	40	2.3	.	.	1.0
LSD at 10% Level		N.S. <sup>7</sup>		8.3		3	N.S.			-
Std. Err. of Entry Mean		2.2		3.4		1	0.2			-

**Plains, Georgia:**  
**Early-Planted Soybean Variety Performance, 2009, Irrigated**  
**(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
AgSouth	AGS Woodruff	<b>60.8</b>	1	<b>65.0</b>	.	41	2.7	.	.	1.0
UGA	G04-2414RR	<b>56.1</b>	4	<b>58.6</b>	.	39	2.0	.	.	1.0
USG	77U28	<b>56.0</b>	29	<b>50.8</b>	.	45	2.0	.	.	1.0
UGA	G04-1618RR	<b>55.8</b>	20 <sup>T</sup>	<b>54.1</b>	.	37	3.0	.	.	1.0
UGA	G04-2215RR	<b>55.5</b>	11	<b>56.3</b>	.	38	1.7	.	.	1.0
Asgrow	DP7330RR	<b>55.4</b>	2	<b>60.5</b>	.	41	2.0	.	.	1.0
SS	RT7270N	<b>55.3</b>	5	<b>58.2</b>	.	47	2.0	.	.	1.0
NK	S78-G6	<b>55.3</b>	31 <sup>T</sup>	<b>50.6</b>	.	41	2.0	.	.	1.0
Progeny	7208RR	<b>55.1</b>	23 <sup>T</sup>	<b>53.1</b>	.	44	2.0	.	.	1.0
DynaGro	V76N9RR	<b>54.9</b>	14	<b>55.2</b>	.	40	3.7	.	.	1.0
NK	S74-W6	<b>54.8</b>	6	<b>58.0</b>	.	36	1.7	.	.	1.0
NK	S80-P2	<b>53.1</b>	3	<b>59.0</b>	.	41	2.3	.	.	1.0
Asgrow	DP7870RR	<b>52.7</b>	26 <sup>T</sup>	<b>51.8</b>	.	49	2.7	.	.	1.0
Public Variety	Cook	<b>52.3</b>	16	<b>54.9</b>	.	41	3.3	.	.	1.0
UGA	G03-1187RR	<b>52.3</b>	21	<b>53.4</b>	.	41	2.3	.	.	1.0
Public Variety	Santee	<b>52.2</b>	17	<b>54.8</b>	.	47	2.0	.	.	1.0
DynaGro	35K73	<b>52.0</b>	26 <sup>T</sup>	<b>51.9</b>	.	42	3.0	.	.	1.0
AgSouth	AGS Prichard RR	<b>51.5</b>	13	<b>56.0</b>	.	43	3.3	.	.	1.0
Asgrow	H7242RR	<b>51.0</b>	19	<b>54.4</b>	.	42	1.3	.	.	1.0
Asgrow	AG7502	<b>51.0</b>	28	<b>51.5</b>	.	39	3.3	.	.	1.0
AgSouth	AGS Benning	<b>50.9</b>	27	<b>51.6</b>	.	44	2.0	.	.	1.0
Asgrow	AG7501	<b>49.8</b>	32	<b>50.2</b>	.	44	3.7	.	.	1.0
AgSouth	AGS758RR	<b>49.7</b>	23 <sup>T</sup>	<b>53.1</b>	.	38	2.0	.	.	1.0
Public Variety	Motte	<b>49.7</b>	30	<b>50.7</b>	.	43	3.3	.	.	1.0
SS	RT7999N	<b>49.3</b>	20 <sup>T</sup>	<b>54.1</b>	.	48	2.3	.	.	1.0
USG	7732nRR	<b>49.2</b>	24	<b>52.8</b>	.	42	3.0	.	.	1.0
UGA	G07PR-443	<b>49.1</b>	20 <sup>T</sup>	<b>54.1</b>	.	39	2.7	.	.	1.0
Pioneer	97M50	<b>48.8</b>	35	<b>46.9</b>	.	37	2.7	.	.	1.0
UGA	G04-3248RR	<b>46.6</b>	36	<b>46.8</b>	.	41	3.3	.	.	1.0
UGA	G-Has(4)PHY-1	<b>44.8</b>	31 <sup>T</sup>	<b>50.6</b>	.	41	2.3	.	.	1.0
UGA	G05-3758RR	.	7	<b>57.8</b>	.	48	2.7	.	.	1.0
UGA	G05-1481RR	.	8	<b>57.3</b>	.	40	1.0	.	.	1.0
AU	AU02-2814	.	9	<b>57.0</b>	.	41	2.7	.	.	1.0
UGA	G05-2468RR	.	10	<b>56.4</b>	.	43	2.0	.	.	1.0
UGA	G05-2505RR	.	12	<b>56.1</b>	.	45	2.7	.	.	1.0
AgSouth	AGS747RR	.	15	<b>55.1</b>	.	45	1.7	.	.	1.0
UGA	G05-4237RR	.	18	<b>54.5</b>	.	44	3.0	.	.	1.0
Public Variety	NC Raleigh	.	20 <sup>T</sup>	<b>54.1</b>	.	39	3.7	.	.	1.0
UGA	G05-1200RR	.	22	<b>53.3</b>	.	41	1.0	.	.	1.0
USG	77S09	.	25	<b>52.4</b>	.	43	1.3	.	.	1.0
UGA	G05-2324RR	.	26 <sup>T</sup>	<b>51.9</b>	.	45	2.7	.	.	1.0
SC	SC02-208RR	.	33	<b>49.5</b>	.	44	1.0	.	.	1.0
UGA	G05-1209RR	.	34	<b>48.7</b>	.	50	2.3	.	.	1.0
Average		52.4		54.0 <sup>8</sup>	.	42	2.4	.	.	1.0
LSD at 10% Level		N.S.		N.S.		3	0.7			-
Std. Err. of Entry Mean		2.1		3.6		1	0.3			-

**Plains, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

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\* 2008-2009.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 8.9% and df for EMS = 68.
6. CV = 11.1% and df for EMS = 44.
7. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
8. CV = 11.9% and df for EMS = 84.

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

Planted: June 17, 2009.

Harvested: November 20, 2009.

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

Soil Type: Greenville sandy loam.

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

Fertilization: 20 lb N, 80 lb P<sub>2</sub>O<sub>5</sub>, and 80 lb K<sub>2</sub>O/acre.

Previous Crop: Cotton.

Management: Disked, subsoiled, and rototilled; Reflex, Prowl, and First Rate used for weed control; irrigated 1.0 inch.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.



**Plains, Georgia:**  
**Late-Planted Soybean Variety Performance, 2009, Irrigated**

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
DynaGro	V76N9RR	<b>57.3</b>	1	<b>55.7</b>	.	31	2.7	.	.	1.0
Asgrow	AG7501	<b>56.5</b>	7	<b>51.8</b>	.	33	2.3	.	.	1.0
USG	77U28	<b>54.3</b>	10 <sup>T</sup>	<b>50.4</b>	.	31	3.0	.	.	1.0
Progeny	7208RR	<b>53.7</b>	6	<b>52.6</b>	.	30	1.7	.	.	1.0
DynaGro	35K73	<b>52.6</b>	5	<b>53.3</b>	.	26	2.7	.	.	1.0
Asgrow	DP7330RR	<b>51.3</b>	13	<b>48.3</b>	.	28	2.7	.	.	1.0
UGA	G03-1187RR	<b>51.3</b>	17	47.2	.	25	2.0	.	.	1.0
UGA	G04-2215RR	<b>51.1</b>	26 <sup>T</sup>	43.7	.	20	1.0	.	.	1.0
AgSouth	AGS Woodruff	<b>50.8</b>	15	<b>47.7</b>	.	27	1.7	.	.	1.0
Asgrow	DP7870RR	<b>50.2</b>	9 <sup>T</sup>	<b>50.6</b>	.	31	3.0	.	.	1.0
Public Variety	Cook	<b>49.9</b>	10 <sup>T</sup>	<b>50.4</b>	.	27	3.0	.	.	1.0
AgSouth	AGS Prichard RR	<b>49.4</b>	9 <sup>T</sup>	<b>50.6</b>	.	33	3.7	.	.	1.0
AgSouth	AGS758RR	49.0	26 <sup>T</sup>	43.7	.	28	3.7	.	.	1.0
SS	RT7270N	48.5	10 <sup>T</sup>	<b>50.4</b>	.	30	3.0	.	.	1.0
NK	S80-P2	48.5	20	46.4	.	25	1.7	.	.	1.0
SS	RT7999N	48.4	11	<b>50.1</b>	.	31	1.7	.	.	1.0
NK	S78-G6	48.0	30	42.6	.	26	2.0	.	.	1.0
Public Variety	Motte	47.9	18	47.0	.	26	2.3	.	.	1.0
Asgrow	AG7502	47.6	21	45.9	.	29	2.7	.	.	1.0
UGA	G04-2414RR	<b>47.5</b>	24	44.6	.	25	1.0	.	.	1.0
Asgrow	H7242RR	46.4	27	43.5	.	27	1.7	.	.	1.0
UGA	G07PR-443	46.2	14	<b>48.1</b>	.	24	1.7	.	.	1.0
Pioneer	97M50	46.2	23	45.5	.	23	1.3	.	.	1.0
UGA	G04-1618RR	45.8	35	37.7	.	24	2.3	.	.	1.0
Public Variety	Santee	45.4	25	43.9	.	23	1.7	.	.	1.0
UGA	G04-3248RR	45.3	22	45.7	.	23	2.0	.	.	1.0
NK	S74-W6	44.7	38	34.9	.	20	2.3	.	.	1.0
USG	7732nRR	43.3	34	39.0	.	23	1.7	.	.	1.0
UGA	G-Has(4)PHY-1	42.0	36	37.3	.	25	3.0	.	.	1.0
AgSouth	AGS Benning	35.3	39	22.7	.	19	1.3	.	.	1.0
UGA	G05-2468RR	.	2	<b>55.6</b>	.	29	2.0	.	.	1.0
UGA	G05-4237RR	.	3	<b>54.8</b>	.	27	1.7	.	.	1.0
Public Variety	NC Raleigh	.	4	<b>54.3</b>	.	23	1.7	.	.	1.0
UGA	G05-3758RR	.	8	<b>51.7</b>	.	25	2.3	.	.	1.0
AgSouth	AGS747RR	.	12	<b>49.5</b>	.	28	1.0	.	.	1.0
USG	77S09	.	16	47.3	.	30	2.3	.	.	1.0
AU	AU02-2814	.	19	46.7	.	25	1.7	.	.	1.0
UGA	G05-1209RR	.	28	42.9	.	29	1.3	.	.	1.0
SC	SC02-208RR	.	29	42.7	.	24	1.0	.	.	1.0
UGA	G05-2505RR	.	31	40.5	.	26	1.3	.	.	1.0
UGA	G05-1200RR	.	32	40.1	.	24	1.0	.	.	1.0
UGA	G05-2324RR	.	33	39.9	.	26	2.3	.	.	1.0
UGA	G05-1481RR	.	37	35.4	.	23	1.0	.	.	1.0
Average		48.5		45.9 <sup>5</sup>	.	26	2.0	.	.	1.0
LSD at 10% Level		8.2		8.3		3	0.7			-
Std. Err. of Entry Mean		2.0		3.5		1	0.3			-

**Plains, Georgia:  
Late-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

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\* 2008-2009.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 13.3% and df for EMS = 84.
7. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

Planted: July 10, 2009.

Harvested: November 20, 2009.

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

Soil Type: Greenville sandy loam.

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

Fertilization: 20 lb N, 80 lb P<sub>2</sub>O<sub>5</sub>, and 80 lb K<sub>2</sub>O/acre.

Previous Crop: Cotton.

Management: Disked, subsoiled, rototilled; Prowl and Reflex used for weed control; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

## Midville, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group V</u>										
SS	RT5160N	<b>76.2</b>	11	<b>75.4</b>	10/23	37	1.0	.	.	1.0
Public Variety	Osage	<b>75.1</b>	5	<b>79.1</b>	10/25	29	1.0	.	.	1.0
DynaGro	33X55	<b>73.6</b>	9	<b>75.7</b>	10/25	36	1.0	.	.	1.0
Progeny	5650RR	<b>73.2</b>	12	<b>74.3</b>	10/28	43	3.0	.	.	1.0
Pioneer	95Y20	<b>73.2</b>	23	69.1	10/23	35	1.0	.	.	1.0
Asgrow	AG5905	<b>72.4</b>	19	70.8	10/27	44	1.7	.	.	1.0
USG	75Z98	<b>71.3</b>	10	<b>75.5</b>	10/27	35	2.3	.	.	1.0
SS	RT5930N	<b>70.4</b>	25	67.2	10/26	37	1.0	.	.	1.0
SS	RT5951N	<b>69.2</b>	14	72.3	10/23	35	1.0	.	.	1.0
Progeny	5706RR	<b>69.0</b>	15 <sup>T</sup>	72.2	10/26	41	1.7	.	.	1.0
AgSouth	AGS568RR	<b>69.0</b>	17	71.5	10/23	35	1.0	.	.	1.0
USG	Allen	<b>67.0</b>	13	<b>72.9</b>	10/29	37	1.3	.	.	1.0
SS	RT5760N	<b>66.5</b>	29	62.5	10/23	29	1.0	.	.	1.0
SS	RT5960N	<b>66.4</b>	27	65.9	10/21	39	1.0	.	.	1.0
Schillinger	557RC	<b>66.1</b>	28	65.7	10/20	35	1.0	.	.	1.0
Progeny	5622RR	<b>63.0</b>	31	56.8	10/25	38	1.3	.	.	1.0
Pioneer	95Y70	.	1	<b>84.0</b>	10/24	41	2.0	.	.	1.0
DynaGro	32B57	.	2	<b>82.4</b>	10/24	37	1.0	.	.	1.0
DynaGro	33C59	.	3	<b>81.2</b>	10/27	36	2.7	.	.	1.0
SS	LL511N	.	4	<b>80.3</b>	10/24	27	1.0	.	.	1.0
UGA	R04-357	.	6	<b>77.9</b>	10/25	37	2.7	.	.	1.0
SS	LL595N	.	7	<b>76.3</b>	10/25	35	1.3	.	.	1.0
Terral	TV54R28	.	8	<b>75.9</b>	10/21	35	1.3	.	.	1.0
Asgrow	DP5915RR	.	15 <sup>T</sup>	72.2	10/29	36	2.0	.	.	1.0
DynaGro	35F55	.	16	72.1	10/25	41	2.7	.	.	1.0
SS	RT5471N	.	18	70.9	10/22	35	1.3	.	.	1.0
Terral	TV55R15	.	20	70.0	10/23	38	2.7	.	.	1.0
US Seeds	HALO 5:25	.	21	69.9	10/23	28	1.0	.	.	1.0
US Seeds	HALO 5:65	.	22	69.2	10/31	36	1.0	.	.	1.0
Schillinger	5440R	.	24	67.5	10/20	31	1.0	.	.	1.0
US Seeds	HALO 4:94	.	26	66.9	10/21	39	1.0	.	.	1.0
Terral	TV49R19	.	30	60.4	10/15	35	1.0	.	.	1.0
US Seeds	HALO 4:65	.	32	52.9	10/18	37	1.0	.	.	1.0
Terral	TV47R18	.	33	50.4	10/14	39	1.7	.	.	1.0
Terral	TV49R17	.	34	49.6	10/14	46	2.0	.	.	1.0
Average		70.1		70.2 <sup>5</sup>	10/23	36	1.5	.	.	1.0
LSD at 10% Level		N,S. <sup>6</sup>		11.5	04	3	0.6			-
Std. Err. of Entry Mean		3.4		4.8	02	1	0.2			-

**Midville, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VI</u>										
Asgrow	AG6702	<b>77.7</b>	8	<b>77.8</b>	11/07	39	2.3	.	.	1.0
AgSouth	AGS606RR	<b>77.4</b>	5	<b>80.8</b>	10/27	35	1.7	.	.	1.0
SS	RT6451N	<b>76.3</b>	6	<b>80.5</b>	10/27	39	2.3	.	.	1.0
USG	620nRR	<b>75.3</b>	7	<b>79.5</b>	11/03	40	3.0	.	.	1.0
AR	R03-1232	<b>74.0</b>	14	<b>72.0</b>	10/29	38	2.0	.	.	1.0
Progeny	6208RR	<b>72.4</b>	9	<b>77.4</b>	10/28	42	2.7	.	.	1.0
AR	R01-327	<b>72.3</b>	16	<b>71.3</b>	10/31	33	1.3	.	.	1.0
Asgrow	AG6301	<b>71.8</b>	15	<b>71.8</b>	10/28	39	2.0	.	.	1.0
Public Variety	Musen	<b>71.3</b>	10	<b>76.4</b>	11/03	41	3.3	.	.	1.0
USG	76S17	<b>70.2</b>	18	<b>70.1</b>	10/30	39	2.0	.	.	1.0
NK	S61-Q2	<b>69.8</b>	11	<b>75.8</b>	10/26	41	1.3	.	.	1.0
SS	RT6207N	<b>69.4</b>	19	<b>69.9</b>	10/29	39	1.3	.	.	1.0
AR	R01-2346	<b>69.3</b>	21	<b>67.6</b>	10/27	36	2.7	.	.	1.0
USG	7635nRR	<b>67.7</b>	22	<b>66.9</b>	10/30	41	1.7	.	.	1.0
SS	RT6988N	<b>66.9</b>	23	<b>66.0</b>	10/31	44	5.3	.	.	1.0
UGA	G05-1102RR	.	1	<b>86.5</b>	11/06	42	1.7	.	.	1.0
Public Variety	NC Roy	.	2	<b>82.4</b>	11/04	36	3.7	.	.	1.0
USG	76S79	.	3	<b>81.8</b>	10/31	41	2.0	.	.	1.0
DynaGro	SX09667	.	4	<b>81.0</b>	11/02	37	1.7	.	.	1.0
Public Variety	Desha	.	12	<b>75.5</b>	11/02	41	2.0	.	.	1.0
DynaGro	V622NRR	.	13	<b>74.0</b>	11/01	39	3.0	.	.	1.0
Progeny	6708RR	.	17	<b>70.8</b>	11/02	37	2.3	.	.	1.0
SC	SC02-011RR	.	20	<b>68.3</b>	11/01	45	2.0	.	.	1.0
Average		72.1		75.0 <sup>7</sup>	10/31	39	2.3	.	.	1.0
LSD at 10% Level		N.S.		N.S.	03	3	N.S.			-
Std. Err. of Entry Mean		3.0		4.7	01	1	0.8			-

**Midville, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
AgSouth	AGS Woodruff	<b>85.3</b>	1	<b>91.2</b>	.	37	1.7	.	.	1.0
SS	RT7270N	<b>79.0</b>	3	<b>85.7</b>	.	40	1.7	.	.	1.0
Asgrow	AG7501	<b>78.5</b>	6	<b>81.7</b>	.	41	2.7	.	.	1.0
USG	7732nRR	77.0	10	79.2	.	40	2.7	.	.	1.0
UGA	G04-2215RR	76.9	5	<b>82.4</b>	.	36	1.3	.	.	1.0
UGA	G04-2414RR	76.3	22	74.2	.	41	2.0	.	.	1.0
UGA	G-Has(4)PHY-1	74.9	7	<b>80.7</b>	.	38	3.0	.	.	1.0
Asgrow	DP7870RR	73.5	4	<b>82.6</b>	.	40	3.0	.	.	1.0
Asgrow	AG7502	73.1	2	<b>85.8</b>	.	39	2.7	.	.	1.0
Progeny	7208RR	72.9	14	76.9	.	41	2.0	.	.	1.0
Public Variety	Cook	72.3	15	76.3	.	37	3.3	.	.	1.0
UGA	G07PR-443	71.6	19	75.0	.	37	3.0	.	.	1.0
USG	77U28	71.6	23	74.0	.	40	2.3	.	.	1.0
DynaGro	V76N9RR	70.9	27 <sup>T</sup>	72.0	.	39	3.0	.	.	1.0
Asgrow	DP7330RR	70.7	28	71.9	.	38	2.3	.	.	1.0
DynaGro	35K73	70.2	11	78.0	.	37	2.3	.	.	1.0
NK	S74-W6	69.8	13	77.1	.	35	1.7	.	.	1.0
UGA	G03-1187RR	69.8	20	74.5	.	38	1.7	.	.	1.0
UGA	G04-1618RR	69.8	30	71.6	.	37	2.0	.	.	1.0
Public Variety	Santee	69.8	35	67.9	.	40	1.7	.	.	1.0
NK	S80-P2	69.5	26 <sup>T</sup>	72.2	.	38	1.7	.	.	1.0
AgSouth	AGS758RR	68.8	34	68.3	.	34	2.0	.	.	1.0
Pioneer	97M50	68.5	24	73.5	.	37	2.0	.	.	1.0
Asgrow	H7242RR	66.7	31	71.1	.	39	2.0	.	.	1.0
NK	S78-G6	65.9	27 <sup>T</sup>	72.0	.	39	1.7	.	.	1.0
AgSouth	AGS Benning	65.9	29	71.7	.	39	2.0	.	.	1.0
SS	RT7999N	64.0	36	67.1	.	43	1.7	.	.	1.0
UGA	G04-3248RR	62.1	40	62.0	.	38	3.3	.	.	1.0
AgSouth	AGS Prichard RR	61.8	41	61.5	.	42	3.0	.	.	1.0
Public Variety	Motte	61.3	39	63.5	.	39	2.7	.	.	1.0
UGA	G05-1481RR	.	8	80.2	.	35	1.3	.	.	1.0
UGA	G05-1200RR	.	9	79.9	.	35	1.7	.	.	1.0
UGA	G05-3758RR	.	12	77.4	.	42	1.7	.	.	1.0
UGA	G05-4237RR	.	16	76.2	.	37	2.3	.	.	1.0
USG	77S09	.	17	75.5	.	37	2.0	.	.	1.0
Public Variety	NC Raleigh	.	18	75.4	.	37	2.7	.	.	1.0
UGA	G05-1209RR	.	21	74.4	.	43	2.0	.	.	1.0
AU	AU02-2814	.	25	72.4	.	39	2.7	.	.	1.0
SC	SC02-208RR	.	26 <sup>T</sup>	72.2	.	36	1.3	.	.	1.0
AgSouth	AGS747RR	.	32	70.4	.	40	1.0	.	.	1.0
UGA	G05-2505RR	.	33	68.4	.	43	1.7	.	.	1.0
UGA	G05-2468RR	.	37	66.3	.	41	2.0	.	.	1.0
UGA	G05-2324RR	.	38	65.3	.	41	2.7	.	.	1.0
Average		70.9		74.3 <sup>8</sup>	.	39	2.2	.	.	1.0
LSD at 10% Level		7.9		10.8		3	0.7			-
Std. Err. of Entry Mean		2.6		4.5		1	8.3			-

**Midville, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

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\* 2008-2009.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 12.0% and df for EMS = 68.
6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
7. CV = 11.0% and df for EMS = 44.
8. CV = 10.7% and df for EMS = 84.

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

Planted: June 10, 2009.

Harvested: November 17, 2009.

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

Soil Type: Tifton loamy sand.

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

Fertilization: 18 lb N, 46 lb  $P_2O_5$ , and 80 lb  $K_2O$ /acre.

Previous Crop: Cotton.

Management: Disked, subsoiled and bedded, rototilled; Valor and Prefix used for weed control; irrigated 6.0 inches.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

## Griffin, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3,**</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group V</u>										
Progeny	5650RR	<b>63.8</b>	4	<b>64.5</b>	10/05	34	1.3	18.7	2.2	1.0
Progeny	5706RR	<b>61.4</b>	1	<b>66.5</b>	10/08	33	1.0	20.7	1.7	1.0
USG	75Z98	<b>57.0</b>	11 <sup>T</sup>	57.4	09/27	30	1.0	22.1	2.7	1.0
SS	RT5760N	<b>56.5</b>	22	52.3	09/22	32	1.0	21.5	3.0	1.0
AgSouth	AGS568RR	<b>56.4</b>	20	53.8	10/05	32	1.0	21.3	2.2	1.0
Schillinger	557RC	<b>56.2</b>	14	56.0	09/29	31	1.0	18.4	3.2	1.0
DynaGro	33X55	<b>56.0</b>	5	<b>62.2</b>	09/27	33	1.0	18.4	1.8	1.0
SS	RT5160N	<b>55.3</b>	15	55.8	09/22	31	1.0	17.6	3.0	1.0
Asgrow	AG5905	<b>54.7</b>	18	54.3	10/03	34	1.0	19.0	2.3	1.0
SS	RT5951N	<b>53.8</b>	9	<b>59.5</b>	10/05	32	1.0	23.6	1.8	1.0
SS	RT5960N	<b>53.4</b>	27	46.8	09/25	34	1.0	20.9	2.3	1.0
Progeny	5622RR	<b>53.1</b>	26	48.8	09/29	32	1.0	17.1	2.3	1.0
Pioneer	95Y20	<b>52.5</b>	16	55.2	09/25	31	1.0	19.1	2.7	1.0
SS	RT5930N	<b>52.5</b>	21	53.0	10/02	35	1.0	18.5	2.3	1.0
USG	Allen	<b>50.8</b>	23	51.5	10/11	33	1.0	19.5	1.8	1.0
Public Variety	Osage	<b>50.4</b>	8 <sup>T</sup>	<b>61.7</b>	09/23	30	1.0	17.6	3.7	1.0
SS	LL595N	.	2	<b>66.4</b>	10/07	33	1.0	18.8	2.5	1.0
Pioneer	95Y70	.	3	<b>65.7</b>	10/10	37	1.3	18.5	1.5	1.0
US Seeds	HALO 5:65	.	6 <sup>T</sup>	<b>62.1</b>	10/07	32	1.0	20.1	2.3	1.0
Asgrow	DP5915RR	.	6 <sup>T</sup>	<b>62.1</b>	10/09	36	1.0	19.3	1.5	1.0
DynaGro	33C59	.	7	<b>61.8</b>	09/28	31	1.0	21.4	2.5	1.0
UGA	R04-357	.	8 <sup>T</sup>	<b>61.7</b>	09/22	35	1.3	17.6	3.0	1.0
Terral	TV55R15	.	10	58.4	09/30	35	1.7	21.5	2.5	1.0
SS	LL511N	.	11 <sup>T</sup>	57.4	09/22	26	1.0	18.7	4.0	1.0
DynaGro	35F55	.	12	56.6	09/30	35	2.7	20.9	2.5	1.0
DynaGro	32B57	.	13	56.4	09/26	35	1.0	20.5	2.0	1.0
US Seeds	HALO 5:25	.	17	54.6	09/23	27	1.0	17.5	3.7	1.0
US Seeds	HALO 4:94	.	19	54.0	09/21	30	1.0	19.0	4.2	1.0
Terral	TV49R17	.	24	51.0	09/10	39	1.3	19.5	4.2	1.0
SS	RT5471N	.	25	50.1	09/23	28	1.0	19.7	3.2	1.0
Schillinger	5440R	.	28	45.4	09/22	27	1.0	14.6	3.3	1.0
Terral	TV54R28	.	29	43.4	09/14	29	1.0	19.2	3.3	1.0
Terral	TV49R19	.	30	42.9	09/09	26	1.0	18.2	4.3	1.0
US Seeds	HALO 4:65	.	31	36.9	09/21	30	1.0	18.1	5.0	1.0
Terral	TV47R18	.	32	30.9	09/08	29	1.0	16.4	4.8	1.0
Average		55.2		54.8 <sup>5</sup>	09/27	32	1.1	19.2	2.8	1.0
LSD at 10% Level		N.S. <sup>6</sup>		7.7	05	3	0.4	-	0.6	-
Std. Err. of Entry Mean		2.4		3.3	02	1	0.2	-	0.2	-

\*\* Seed quality rating higher than normal on Maturity Group V due to delayed harvest caused by prolonged rainfall and wet soil conditions.

**Griffin, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VI</u>										
Asgrow	AG6301	<b>66.1</b>	2	<b>67.1</b>	10/16	33	1.0	20.8	1.7	1.0
AR	R01-327	<b>65.9</b>	4	<b>66.7</b>	10/08	36	1.0	25.1	2.0	1.0
USG	620nRR	<b>63.2</b>	6	<b>64.5</b>	10/12	37	1.0	20.6	1.7	1.0
AR	R03-1232	<b>62.8</b>	8	<b>63.2</b>	09/27	34	1.0	18.1	2.3	1.0
Asgrow	AG6702	<b>60.8</b>	3 <sup>T</sup>	<b>67.0</b>	10/22	38	1.0	17.8	2.0	1.0
USG	76S17	<b>60.3</b>	9	<b>62.8</b>	10/07	37	1.0	18.5	1.7	1.0
AgSouth	AGS606RR	<b>59.6</b>	3 <sup>T</sup>	<b>67.0</b>	10/07	33	1.0	19.6	1.5	1.0
AR	R01-2346	<b>58.9</b>	11	<b>61.0</b>	09/26	32	1.0	19.9	2.2	1.0
USG	7635nRR	<b>57.9</b>	12	<b>60.6</b>	10/10	36	1.0	22.0	1.8	1.0
SS	RT6988N	<b>56.7</b>	18	54.1	10/21	35	1.0	18.7	2.2	1.0
SS	RT6207N	<b>56.5</b>	19	53.7	10/06	32	1.0	17.5	2.0	1.0
NK	S61-Q2	<b>56.2</b>	20	48.9	10/06	35	1.0	15.5	2.3	1.0
Public Variety	Musen	<b>54.9</b>	17	56.2	10/22	35	2.3	16.1	1.5	1.0
SS	RT6451N	<b>54.6</b>	15	57.5	10/11	34	1.0	17.8	2.0	1.0
Progeny	6208RR	<b>48.5</b>	21	47.7	10/11	35	1.0	24.0	2.2	1.0
UGA	G05-1102RR	.	1	<b>67.5</b>	10/20	35	1.0	18.3	1.7	1.0
DynaGro	V622NRR	.	5	<b>66.1</b>	10/14	37	1.0	21.2	1.8	1.0
SC	SC02-011RR	.	7	<b>64.1</b>	10/18	36	1.0	19.3	1.2	1.0
USG	76S79	.	10	<b>62.7</b>	10/20	42	1.0	17.0	1.7	1.0
Public Variety	NC Roy	.	13	<b>60.4</b>	10/20	35	1.0	16.4	1.7	1.0
Progeny	6708RR	.	14	58.0	10/16	35	1.3	20.8	1.7	1.0
Public Variety	Desha	.	16 <sup>T</sup>	57.2	10/06	33	1.0	19.5	1.5	1.0
DynaGro	SX09667	.	16 <sup>T</sup>	57.2	10/14	34	1.7	20.5	2.0	1.0
Average		58.9		60.5 <sup>7</sup>	10/12	35	1.1	19.3	1.8	1.0
LSD at 10% Level		N.S.		7.6	03	3	0.5	-	0.4	-
Std. Err. of Entry Mean		2.8		3.2	01	1	0.2	-	0.2	-

\* 2008-2009

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 10.4% and df for EMS = 68.
6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
7. CV = 9.2% and df for EMS = 44.

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

Planted: May 15, 2009.

Harvested: October 26, 2009

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

Soil Type: Pacolet coarse sandy loam.

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

Fertilization: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre.

Previous Crop: Corn.

Management: Chisel plowed, disked and rototilled; Roundup used on RR lines, Lasso and Poast used on conventional lines for weed control; irrigated 10.0 inches.

Test conducted by J. Gassett and G. Ware.



**Griffin, Georgia:**  
**Late-Planted Soybean Variety Performance, 2009, Irrigated**

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3,**</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
DynaGro	V76N9RR	<b>44.9</b>	1	<b>58.3</b>	11/01	34	2.0	14.5	1.5	1.0
USG	7732nRR	<b>44.0</b>	10 <sup>T</sup>	<b>51.9</b>	11/03	34	2.5	18.5	1.5	1.0
Pioneer	97M50	<b>42.6</b>	11	51.8	11/02	31	1.7	15.3	1.3	1.0
UGA	G04-2215RR	<b>42.4</b>	7	<b>53.3</b>	11/02	27	1.0	13.7	2.0	1.0
Asgrow	H7242RR	<b>42.2</b>	9	<b>52.7</b>	10/21	34	1.8	16.3	1.8	1.0
Asgrow	AG7501	<b>42.0</b>	2	<b>56.8</b>	11/05	36	1.3	18.6	1.5	1.0
SS	RT7270N	<b>41.8</b>	10 <sup>T</sup>	<b>51.9</b>	11/04	34	2.8	15.0	1.5	1.0
AgSouth	AGS Woodruff	<b>41.3</b>	6	<b>53.9</b>	11/04	28	1.5	17.5	1.8	1.0
AgSouth	AGS 758RR	<b>41.1</b>	21 <sup>T</sup>	48.8	10/31	31	2.3	16.1	1.8	1.0
Asgrow	AG7502	<b>40.7</b>	18 <sup>T</sup>	49.5	11/06	32	1.8	15.9	1.7	1.0
UGA	G03-1187RR	<b>40.6</b>	12	51.7	11/03	29	1.2	16.1	2.0	1.0
NK	S78-G6	<b>40.1</b>	4	<b>54.9</b>	11/05	33	1.0	19.0	1.8	1.0
Asgrow	DP7870RR	<b>40.1</b>	21 <sup>T</sup>	48.8	11/02	33	1.7	16.9	2.0	1.0
UGA	G04-1618RR	<b>39.9</b>	22	48.6	11/01	30	2.5	16.4	1.3	1.0
Asgrow	DP7330RR	<b>39.5</b>	19	49.2	10/29	30	1.5	16.6	1.7	1.0
UGA	G04-3248RR	<b>39.3</b>	16	49.7	11/06	31	1.5	17.0	2.0	1.0
AgSouth	AGS Prichard RR	<b>38.8</b>	18 <sup>T</sup>	49.5	11/06	34	2.7	15.1	1.5	1.0
Public Variety	Motte	<b>38.7</b>	35 <sup>T</sup>	39.9	11/04	33	3.0	17.4	2.0	1.0
Public Variety	Cook	<b>37.8</b>	14	50.7	11/02	29	1.8	17.4	1.8	1.0
Progeny	P7208RR	<b>37.3</b>	25	47.9	11/06	32	1.5	16.9	1.8	1.0
NK	S80-P2	<b>37.2</b>	15	50.6	11/02	31	1.0	19.1	1.7	1.0
USG	77U28	<b>37.2</b>	20 <sup>T</sup>	48.9	11/05	33	1.8	18.2	1.7	1.0
DynaGro	35K73	<b>36.9</b>	29	45.8	10/31	35	1.7	18.9	1.8	1.0
NK	S74-W6	<b>36.6</b>	33	42.2	11/01	28	1.3	18.3	1.8	1.0
SS	RT7999N	<b>36.5</b>	26	47.8	11/02	38	1.5	16.4	1.8	1.0
UGA	G07PR-443	<b>36.5</b>	31	44.9	11/03	30	2.0	15.9	1.8	1.0
UGA	G04-2414RR	<b>35.9</b>	17	49.6	11/03	28	1.0	14.6	1.8	1.0
Public Variety	Santee	<b>34.5</b>	35 <sup>T</sup>	39.9	11/02	28	1.2	18.0	1.8	1.0
UGA	G-Has(4)PHY-1	<b>34.3</b>	34	41.7	11/03	26	2.3	18.2	1.8	1.0
AgSouth	AGS Benning	<b>31.9</b>	36	39.0	11/02	26	1.0	16.7	2.2	1.0
UGA	G05-1200RR	.	3	<b>55.1</b>	11/04	33	1.2	14.5	1.8	1.0
USG	77S09	.	5	<b>54.6</b>	10/30	31	1.2	17.9	1.7	1.0
UGA	G05-1481RR	.	8	<b>53.0</b>	10/31	28	1.0	16.5	2.0	1.0
SC	SC02-208RR	.	13	50.8	11/03	32	1.0	16.7	1.5	1.0
UGA	G05-1209RR	.	20 <sup>T</sup>	48.9	11/04	34	2.0	15.8	2.0	1.0
UGA	G05-2505RR	.	21 <sup>T</sup>	48.8	11/02	31	1.5	15.9	1.5	1.0
UGA	G05-3758RR	.	23	48.5	11/02	36	1.5	15.0	1.3	1.0
UGA	G05-4237RR	.	24	48.0	11/06	31	1.2	16.4	1.5	1.0
UGA	G05-2324RR	.	27	47.7	11/03	34	1.5	17.1	1.8	1.0
UGA	G05-2468RR	.	28	46.2	11/03	31	1.7	15.1	1.8	1.0
AU	AU02-2814	.	30	45.1	11/03	29	1.7	16.3	1.7	1.0
AgSouth	AGS747RR	.	32	43.7	11/05	32	1.0	17.6	1.3	1.0
Public Variety	NC Raleigh	.	37	38.6	10/31	25	1.0	18.1	1.8	1.0
Average		39.1		48.8 <sup>5</sup>	11/02	31	1.6	16.7	1.7	1
LSD at 10% Level		N.S. <sup>6</sup>		6.4	04	4	0.7	-	0.4	-
Std. Err. of Entry Mean		1.5		2.7	02	2	0.2	-	0.2	-

**Griffin, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

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\* 2008-2009

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 9.7% and df for EMS = 84.
6. The F-test indicated no statistical differences at the  $\alpha = .10$  probability level; therefore, a LSD value was not calculated.

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

Planted: July 9, 2009.

Harvested: November 20, 2009.

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

Soil Type: Cecil sandy clay loam.

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

Fertilization: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre.

Previous Crop: Corn.

Management: Chisel plowed, disked and rototilled; Roundup used on RR lines, Lasso and Poast used on conventional lines for weed control; irrigated 8.0 inches.

Test conducted by J. Gassett and G. Ware.

## Athens, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group V</u>										
Progeny	5650RR	<b>57.4</b>	3	<b>73.8</b>	10/11	32	1.3	13.6	2.0	1.0
AgSouth	AGS568RR	<b>56.7</b>	9	<b>72.1</b>	10/10	27	1.0	17.0	1.7	1.0
Pioneer	95Y20	<b>55.1</b>	6	<b>72.7</b>	10/07	25	1.0	15.3	2.0	1.0
Progeny	5622RR	<b>54.7</b>	16	<b>69.0</b>	10/08	27	1.0	14.9	2.2	1.0
Asgrow	AG5905	<b>54.6</b>	2	<b>74.2</b>	10/16	34	1.0	16.1	2.0	1.0
DynaGro	33X55	<b>53.8</b>	13	<b>69.5</b>	10/09	25	1.0	16.6	1.7	1.0
SS	RT5930N	53.0	17	<b>68.8</b>	10/12	27	1.0	15.6	2.2	1.0
USG	Allen	53.0	18	<b>68.6</b>	10/19	31	1.0	15.4	2.0	1.0
USG	75Z98	51.7	19	66.9	10/09	27	1.0	16.8	2.5	1.0
Public Variety	Osage	50.5	20	66.2	10/04	22	1.0	12.9	2.3	1.0
SS	RT5960N	50.2	22	65.8	10/09	27	1.0	16.2	1.8	1.0
SS	RT5760N	49.4	26	63.1	10/04	23	1.0	18.0	2.5	1.0
SS	RT5951N	49.3	21	66.1	10/10	25	1.0	18.0	2.0	1.0
SS	RT5160N	48.6	27	62.5	10/04	26	1.0	16.4	2.5	1.0
Progeny	5706RR	47.5	30	59.3	10/15	27	1.0	14.5	1.8	1.0
Schillinger	557RC	47.2	28	62.3	10/09	26	1.0	15.5	2.7	1.0
US Seeds	HALO 4:94	.	1	<b>77.1</b>	10/01	35	1.0	14.6	2.3	1.0
Pioneer	95Y70	.	4	<b>73.6</b>	10/17	36	1.0	14.9	2.0	1.0
Terral	TV55R15	.	5	<b>73.2</b>	10/06	37	2.0	18.2	2.0	1.0
Terral	TV54R28	.	7	<b>72.5</b>	10/03	32	1.7	16.9	2.0	1.0
DynaGro	33C59	.	8	<b>72.2</b>	10/11	28	1.0	17.2	2.0	1.0
UGA	R04-357	.	10	<b>71.3</b>	10/09	29	1.3	15.8	2.7	1.0
Asgrow	DP5915RR	.	11	<b>70.5</b>	10/14	27	1.0	15.7	2.0	1.0
SS	LL595N	.	12	<b>70.0</b>	10/15	26	1.0	14.9	2.3	1.0
DynaGro	32B57	.	14	<b>69.4</b>	10/07	28	1.0	18.6	1.8	1.0
US Seeds	HALO 5:65	.	15	<b>69.1</b>	10/18	26	1.0	14.4	2.3	1.0
US Seeds	HALO 5:25	.	23	65.7	10/08	20	1.0	17.4	2.7	1.0
SS	LL511N	.	24	64.6	10/07	22	1.0	16.7	2.7	1.0
US Seeds	HALO 4:65	.	25	63.7	09/18	21	1.0	15.2	5.0	1.0
SS	RT5471N	.	29	61.1	10/03	24	1.0	15.2	2.2	1.0
DynaGro	35F55	.	31	58.9	10/04	31	1.3	16.7	2.2	1.0
Terral	TV49R17	.	32	56.6	09/18	41	1.0	15.5	5.0	1.0
Schillinger	5440R	.	33	55.5	10/05	24	1.0	13.8	2.5	1.0
Terral	TV47R18	.	34	52.9	09/18	31	1.3	13.9	5.0	1.0
Terral	TV49R19	.	35	47.5	09/18	19	1.0	14.6	5.0	1.0
Average		52.0		66.5 <sup>5</sup>	10/06	28	1.1	15.8	2.5	1.0
LSD at 10% Level		4.2		10.0	04	6	0.3	1.2	0.4	-
Std. Err. of Entry Mean		2.6		4.2	02	3	0.1	0.5	0.2	-

**Athens, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VI</u>										
SS	RT6207N	<b>53.7</b>	1	<b>51.9</b>	10/16	27	1.0	14.0	2.0	1.0
AR	R01-327	<b>53.5</b>	4	<b>49.1</b>	10/12	26	1.0	18.0	2.2	1.0
SS	RT6988N	<b>52.6</b>	7 <sup>T</sup>	<b>47.6</b>	10/20	30	1.0	14.9	1.5	1.0
Asgrow	AG6702	<b>51.6</b>	7 <sup>T</sup>	<b>47.6</b>	10/23	28	1.0	15.7	1.7	1.0
SS	RT6451N	<b>51.4</b>	5	<b>48.4</b>	10/18	28	1.0	13.9	2.2	1.0
AR	R01-2346	<b>51.1</b>	9 <sup>T</sup>	<b>46.9</b>	10/03	23	1.0	16.3	2.3	1.0
NK	S61-Q2	<b>50.2</b>	11	<b>45.1</b>	10/07	28	1.0	16.6	1.8	1.0
USG	76S17	<b>49.8</b>	8	<b>47.3</b>	10/11	27	1.0	15.4	2.0	1.0
USG	620nRR	48.3	9 <sup>T</sup>	<b>46.9</b>	10/16	27	1.7	15.7	2.0	1.0
AgSouth	AGS606RR	48.1	16	<b>42.7</b>	10/08	23	1.0	16.4	2.2	1.0
Progeny	6208RR	47.3	15	<b>42.8</b>	10/11	29	1.3	16.4	1.7	1.0
Public Variety	Musen	47.2	6	<b>48.2</b>	10/24	31	1.7	13.5	1.7	1.0
AR	R03-1232	47.2	10	<b>45.4</b>	10/09	24	1.0	16.5	2.8	1.0
Asgrow	AG6301	45.2	19	<b>39.3</b>	10/08	26	1.0	16.0	1.8	1.0
USG	7635nRR	44.9	14 <sup>T</sup>	<b>43.3</b>	10/13	28	1.0	17.4	1.8	1.0
SC	SC02-011RR	.	2	<b>50.2</b>	10/13	30	1.3	14.7	1.5	1.0
DynaGro	V622NRR	.	3	<b>49.6</b>	10/16	27	1.3	15.1	2.3	1.0
UGA	G05-1102RR	.	7 <sup>T</sup>	<b>47.6</b>	10/23	26	1.0	13.6	1.7	1.0
Public Variety	Desha	.	12	<b>44.0</b>	10/08	27	1.0	14.7	2.0	1.0
DynaGro	SX09667	.	13	<b>43.9</b>	10/18	27	1.0	15.2	1.8	1.0
Progeny	6708RR	.	14 <sup>T</sup>	<b>43.3</b>	10/19	27	1.0	15.8	1.7	1.0
USG	76S79	.	17	<b>42.3</b>	10/21	32	1.0	12.2	1.5	1.0
Public Variety	NC Roy	.	18	<b>41.3</b>	10/19	27	1.3	14.6	1.5	1.0
Average		49.5		45.9 <sup>6</sup>	10/14	27	1.1	15.3	1.9	1.0
LSD at 10% Level		4.7		N.S. <sup>7</sup>	01	2	N.S.	1.4	0.4	-
Std. Err. of Entry Mean		1.7		2.6	01	1	0.2	0.6	0.2	-

**Athens, Georgia:**  
**Early-Planted Soybean Variety Performance, 2009, Irrigated**  
**(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VII and VIII</u>										
AgSouth	AGS Woodruff	<b>60.4</b>	6	<b>57.4</b>	10/27	33	3.7	16.6	2.0	1.0
UGA	G04-1618RR	<b>58.3</b>	2	<b>60.4</b>	10/25	32	1.7	13.1	2.0	1.0
NK	S78-G6	<b>56.5</b>	4	<b>58.0</b>	10/26	36	1.3	16.7	2.2	1.0
DynaGro	V76N9RR	<b>55.1</b>	3	<b>58.4</b>	10/28	37	2.3	13.6	2.2	1.0
USG	77U28	54.8	11	<b>55.3</b>	10/21	35	1.0	14.7	1.5	1.0
UGA	G03-1187RR	54.7	17	53.0	10/28	37	1.7	13.4	1.8	1.0
SS	RT7270N	54.5	1	<b>60.7</b>	10/21	33	1.0	12.3	2.2	1.0
NK	S80-P2	54.5	7	<b>56.4</b>	10/26	39	1.0	16.4	2.0	1.0
NK	S74-W6	53.1	8	<b>56.2</b>	10/24	32	1.0	15.8	1.7	1.0
UGA	G04-2215RR	52.8	10	<b>55.8</b>	10/24	28	1.0	10.9	1.5	1.0
Asgrow	AG7501	52.6	14	54.0	10/24	37	1.3	15.9	1.8	1.0
UGA	G04-2414RR	52.2	9	<b>56.1</b>	10/24	35	1.0	11.4	1.5	1.0
Progeny	7208RR	52.2	23 <sup>T</sup>	51.7	10/22	33	1.0	14.0	1.7	1.0
Asgrow	DP7870RR	51.9	22 <sup>T</sup>	52.1	10/24	31	1.3	13.8	2.0	1.0
AgSouth	AGS Benning	51.4	15 <sup>T</sup>	53.5	10/24	34	2.0	14.1	1.7	1.0
Asgrow	AG7502	51.0	18	52.5	10/27	39	1.3	13.5	2.0	1.0
UGA	G04-3248RR	50.9	26	51.4	10/28	34	1.3	11.7	1.7	1.0
Public Variety	Cook	49.9	30	49.4	10/22	37	1.3	14.6	1.8	1.0
UGA	G07PR-443	49.6	13	54.1	10/22	33	1.3	13.4	1.5	1.0
Pioneer	97M50	49.4	19 <sup>T</sup>	52.4	10/23	34	1.3	13.0	1.7	1.0
AgSouth	AGS758RR	49.1	23 <sup>T</sup>	51.7	10/22	34	2.0	12.5	1.8	1.0
Asgrow	H7242RR	48.7	33 <sup>T</sup>	47.9	10/22	38	1.3	13.7	1.5	1.0
DynaGro	35K73	48.5	28 <sup>T</sup>	50.7	10/23	31	2.0	15.2	1.7	1.0
Asgrow	DP7330RR	48.3	27	50.8	10/21	33	1.3	13.4	1.8	1.0
Public Variety	Motte	48.1	19 <sup>T</sup>	52.4	10/29	36	2.0	13.9	1.7	1.0
USG	7732nRR	47.7	20	52.3	10/24	37	1.7	14.5	2.0	1.0
SS	RT7999N	47.3	22 <sup>T</sup>	52.1	10/29	40	1.0	13.5	1.8	1.0
Public Variety	Santee	47.1	29 <sup>T</sup>	49.9	10/23	36	1.3	14.0	2.3	1.0
AgSouth	AGS Prichard RR	46.9	16 <sup>T</sup>	53.2	10/30	40	2.0	12.8	1.7	1.0
UGA	G-Has(4)PHY-1	45.0	32	48.0	10/21	38	2.3	15.2	1.7	1.0
UGA	G05-1209RR	.	5	<b>57.5</b>	10/28	40	1.3	12.2	1.8	1.0
UGA	G05-3758RR	.	12	54.2	10/27	36	1.3	12.8	1.8	1.0
UGA	G05-4237RR	.	15 <sup>T</sup>	53.5	10/29	33	1.0	13.2	1.7	1.0
UGA	G05-1481RR	.	16 <sup>T</sup>	53.2	10/24	28	1.0	12.4	1.5	1.0
UGA	G05-1200RR	.	21	52.2	10/25	28	1.0	13.8	2.0	1.0
AgSouth	AGS 747RR	.	24 <sup>T</sup>	51.6	10/28	36	1.0	15.5	1.5	1.0
SC	SC02-208RR	.	24 <sup>T</sup>	51.6	10/24	34	1.0	12.8	1.7	1.0
UGA	G05-2505RR	.	25	51.5	10/26	35	1.3	13.0	1.7	1.0
Public Variety	NC Raleigh	.	28 <sup>T</sup>	50.7	10/26	31	1.3	13.7	2.0	1.0
UGA	G05-2468RR	.	29 <sup>T</sup>	49.9	10/28	32	1.3	12.4	1.8	1.0
AU	AU02-2814	.	31	48.6	10/24	36	1.3	12.6	2.0	1.0
USG	77S09	.	33 <sup>T</sup>	47.9	10/22	38	1.0	13.4	1.5	1.0
UGA	G05-2324RR	.	34	47.6	10/26	38	2.3	14.0	1.7	1.0
Average		51.4		53.0 <sup>8</sup>	10/25	35	1.4	13.7	1.8	1.0
LSD at 10% Level		5.3		6.0	03	4	0.6	1.1	0.4	-
Std. Err. of Entry Mean		1.7		2.5	01	2	0.3	0.5	0.2	-

**Athens, Georgia:**  
**Early-Planted Soybean Variety Performance, 2009, Irrigated**  
**(Continued)**

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\* 2008-2009.

1. Yields calculated at 13% moisture.
2. Lodging rating: Rated 1 (all plants erect) to 5 (over 80% of plants down).
3. Seed quality rating: Rated 1 (very good) to 5 (very poor).
4. Shattering rating: Rated 1 (no shattering) to 5 (>50% pods shattered).
5. CV = 11.0% and df for EMS = 68.
6. CV = 10.0% and df for EMS = 44.
7. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.
8. CV = 8.4% and df for EMS = 84.

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

Planted: May 15, 2009.

Harvested: Maturity Group V - October 26, 2009  
Maturity Group VI - November 9, 2009.  
Maturity Group VII & VIII - November 7, 2009.

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

Soil Type: Maturity Groups V, VII and VIII: Wedowee coarse sandy loam.  
Maturity Group VI: Appling coarse sandy loam.

Soil Test: Maturity Groups V, VII and VIII: P = Medium, K = Medium, and pH = 6.4.  
Maturity Group VI: P = High, K = Low, and pH = 5.7.

Fertilization: 0 lb N, 52 lb P<sub>2</sub>O<sub>5</sub>, and 105 lb K<sub>2</sub>O/acre.

Previous Crop: Maturity Groups V, VII and VIII: Wheat.  
Maturity Group VI: Cotton.

Management: Chiseled and disked; First Rate, Dual Magnum, Classic, and one cultivation used for weed control; subsoiled between rows after cultivation; Telone II used for nematode control; Domark 230e used for rust control; Maturity Groups V, VII and VIII irrigated 5.0 inches; Maturity Group VI irrigated 6.0 inches.

Test conducted by E. D. Wood, G. B. Bishop, S. L. Finnerty, W. E. Baxter, H. B. Chambers, C. T. Collins, H. J. Yeomans and R. B. Baerne.

## Calhoun, Georgia: Early-Planted Soybean Variety Performance, 2009, Irrigated

Company or Brand Name	Variety	2-Year* Average Yield bu/acre	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<b>Maturity Group V</b>										
SS	RT5760N	<b>61.3</b>	1	<b>76.3</b>	10/04	36	1.5	19.7	1.2	1.0
USG	75Z98	<b>58.7</b>	2	<b>75.8</b>	10/07	33	1.3	17.7	1.7	1.0
Progeny	5650RR	<b>54.6</b>	12 <sup>T</sup>	63.4	10/09	36	4.2	14.8	1.7	1.0
SS	RT5160N	<b>53.8</b>	8	65.8	10/05	40	1.0	17.0	1.8	1.0
AgSouth	AGS568RR	<b>51.8</b>	15	61.8	10/04	38	1.0	18.3	1.2	1.0
Progeny	5706RR	<b>51.0</b>	16	61.7	10/08	36	1.8	18.1	2.0	1.0
SS	RT5960N	<b>50.9</b>	4	68.1	10/04	39	1.8	17.3	1.5	1.0
Public Variety	Osage	<b>50.3</b>	6	66.7	10/05	35	1.7	15.4	1.7	1.0
DynaGro	33X55	<b>49.8</b>	9	65.1	10/04	38	1.7	18.0	1.2	1.0
Schillinger	557RC	<b>49.6</b>	10 <sup>T</sup>	64.3	10/07	35	1.3	15.3	1.3	1.0
Pioneer	95Y20	<b>49.4</b>	17	61.5	10/04	36	1.3	15.1	1.8	1.0
SS	RT5930N	<b>49.3</b>	24	55.4	10/04	37	2.2	16.3	1.5	1.0
Asgrow	AG5905	<b>48.3</b>	19	60.3	10/08	44	1.0	14.7	1.5	1.0
USG	Allen	<b>48.0</b>	22	58.1	10/10	40	1.0	17.6	1.7	1.0
Progeny	5622RR	<b>45.8</b>	28	49.9	10/05	41	3.5	15.4	1.5	1.0
SS	RT5951N	<b>45.3</b>	23	57.5	10/06	37	1.7	18.9	2.0	1.0
US Seeds	HALO 4:94	.	3	<b>69.5</b>	10/03	41	1.7	16.8	2.0	1.0
US Seeds	HALO 5:25	.	5	67.8	10/06	31	1.0	15.3	1.7	1.0
SS	LL511N	.	7 <sup>T</sup>	66.0	10/04	30	1.0	14.7	1.7	1.0
Schillinger	5440R	.	7 <sup>T</sup>	66.0	10/08	34	1.5	14.9	1.5	1.0
SS	RT5471N	.	10 <sup>T</sup>	64.3	10/06	36	1.0	17.1	1.7	1.0
Asgrow	DP5915RR	.	11	63.6	10/10	40	1.2	17.3	1.5	1.0
Terral	TV55R15	.	12 <sup>T</sup>	63.4	10/01	43	4.3	17.8	1.5	1.0
DynaGro	35F55	.	13	62.7	10/08	42	3.0	19.0	1.7	1.0
US Seeds	HALO 5:65	.	14	62.0	10/10	36	1.2	16.6	1.8	1.0
Terral	TV54R28	.	18	61.3	10/05	40	4.0	17.3	1.7	1.0
Terral	TV49R19	.	20	59.8	09/20	40	1.3	16.1	2.3	1.2
DynaGro	33C59	.	21 <sup>T</sup>	59.7	10/06	36	1.5	18.3	1.7	1.0
Pioneer	95Y70	.	21 <sup>T</sup>	59.7	10/06	43	4.5	16.5	1.8	1.0
DynaGro	32B57	.	25 <sup>T</sup>	54.9	10/04	39	1.7	18.5	1.5	1.0
SS	LL595N	.	25 <sup>T</sup>	54.9	10/09	40	1.8	15.6	1.7	1.0
Terral	TV49R17	.	26	53.7	09/22	46	2.0	17.7	2.7	1.0
UGA	R04-357	.	27	53.4	10/07	39	2.0	15.3	2.3	1.0
Terral	TV47R18	.	29	47.9	10/01	38	4.3	16.8	3.5	1.3
US Seeds	HALO 4:65	.	30	45.0	09/28	38	1.0	19.2	2.5	1.0
Average		51.1		61.4 <sup>5</sup>	10/05	38	1.9	16.9	1.8	1.0
LSD at 10% Level		N.S. <sup>6</sup>		7.7	04	3	0.9	-	0.4	0.1
Std. Err. of Entry Mean		2.1		3.3	02	1	0.4	-	0.2	0.1
<b>Maturity Group VI</b>										
AR	R03-1232	<b>57.7</b>	1	<b>59.8</b>	10/12	37	1.0	17.5	1.2	1.0
USG	76S17	<b>54.1</b>	2 <sup>T</sup>	<b>56.0</b>	10/13	37	1.0	18.0	1.7	1.0
AR	R01-2346	<b>53.9</b>	2 <sup>T</sup>	<b>56.0</b>	10/11	36	1.3	18.6	1.8	1.0
SS	RT6207N	<b>52.8</b>	5	<b>53.9</b>	10/13	39	1.3	14.6	1.5	1.0
AR	R01-327	<b>50.9</b>	7	52.1	10/15	39	1.0	19.8	1.3	1.0

**Calhoun, Georgia:  
Early-Planted Soybean Variety Performance, 2009, Irrigated  
(Continued)**

Company or Brand Name	Variety	2-Year* Average Yield	2009 Data							
			Rank	Yield <sup>1</sup> bu/acre	Maturity date	Plant Ht in	Lodg. <sup>2</sup> rating	Wt of 100 Seed gm	Seed Quality <sup>3</sup> rating	Shatt. <sup>4</sup> rating
<u>Maturity Group VI - continued</u>										
USG	7635nRR	<b>50.9</b>	10	51.4	10/11	37	1.2	19.3	1.2	1.0
Asgrow	AG6702	<b>50.4</b>	4	<b>54.0</b>	10/19	41	1.7	16.4	1.5	1.0
USG	620nRR	<b>50.2</b>	13	48.6	10/11	37	1.0	18.2	1.7	1.0
Progeny	6208RR	<b>49.7</b>	8	51.9	10/12	40	1.0	19.2	1.8	1.0
AgSouth	AGS606RR	<b>49.5</b>	17	46.5	10/06	37	2.2	17.5	1.2	1.0
NK	S61-Q2	<b>48.1</b>	15	47.4	10/06	36	1.3	17.4	1.3	1.0
SS	RT6988N	<b>47.3</b>	18	45.7	10/21	44	1.7	17.4	1.0	1.0
Asgrow	AG6301	<b>45.2</b>	20	41.0	10/12	35	1.7	16.7	1.5	1.0
SS	RT6451N	<b>43.4</b>	21	40.0	10/08	43	1.0	12.8	1.7	1.0
Public Variety	Musen	<b>40.6</b>	11	49.8	10/17	41	3.3	15.1	1.7	1.0
DynaGro	V622NRR	.	3	<b>55.4</b>	10/10	40	1.3	16.8	1.8	1.0
Progeny	6708RR	.	6	<b>52.3</b>	10/17	36	1.3	17.7	1.3	1.0
UGA	G05-1102RR	.	9	51.7	10/20	37	1.0	15.2	1.0	1.0
DynaGro	SX09667	.	12	49.2	10/15	37	1.2	15.8	1.3	1.0
Public Variety	Desha	.	14	48.3	10/10	40	2.0	15.2	1.7	1.0
SC	SC02-011RR	.	16 <sup>T</sup>	46.8	10/17	42	2.2	15.8	1.3	1.0
Public Variety	NC Roy	.	16 <sup>T</sup>	46.8	10/12	37	2.3	13.6	1.5	1.0
USG	76S79	.	19	42.0	10/12	45	1.8	13.2	1.5	1.0
Average		49.7		49.9 <sup>7</sup>	10/13	39	1.5	16.6	1.5	1.0
LSD at 10% Level		N.S.		7.6	04	3	1.0	-	0.3	-
Std. Err. of Entry Mean		2.2		3.2	02	2	0.4	-	0.1	-

\* 2008-2009.

1. Yields calculated at 13% moisture.

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

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

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

5. CV = 9.2% and df for EMS = 63.

6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

7. CV = 11.1% and df for EMS = 44.

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

Planted: May 21, 2009.

Harvested: Maturity Group V - November 4, 2009

Maturity Group VI - November 5, 2009

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

Soil Type: Waynesboro loam.

Soil Test: Maturity Group V: P = High, K = High, and pH = 5.4.

Maturity Group VI: P = Very High, K = High, and pH = 6.2.

Fertilization: 18 lb N, 45 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre.

Previous Crop: Maturity Group V: Corn

Maturity Group VI: Soybeans

Management: Moldboard plowed, disked, and rototilled; Roundup used on RR lines, Treflan, Classic, Arrow, Basagran and one cultivation used on conventional lines for weed control; irrigated 8.0 inches; Maturity Group V - applied 1 ton lime/acre.

Test conducted by J. Gasset, G. Ware and J. Stubbs.



## Attapulcus, Georgia: Late-Planted Soybean Variety Performance, 2009, Irrigated

		2009 Data							
Company or Brand Name	Variety	Maturity Group						Seed	
			Yield <sup>1</sup> bu/acre	Maturity date	Plant Height in	Lodging <sup>2</sup> rating	Wt of 100 Seed gm	Quality <sup>3</sup> rating	Shatter. <sup>4</sup> rating
Asgrow	AG6301	6.3	<b>36.0</b>	.	20	1.0	.	.	1.0
AgSouth	AGS 568RR	5.7	<b>35.3</b>	.	23	1.0	.	.	1.0
Asgrow	AG5905	5.9	<b>33.9</b>	.	22	1.0	.	.	1.0
Asgrow	H7242RR	7.2	<b>31.7</b>	.	19	1.0	.	.	1.0
AgSouth	AGS 758RR	7.6	<b>31.7</b>	.	21	1.0	.	.	1.0
SS	RT6207N	6.2	<b>30.3</b>	.	18	1.0	.	.	1.0
AgSouth	AGS Prichard RR	8.0	<b>29.5</b>	.	21	1.0	.	.	1.0
NK	S80-P2	8.0	<b>28.9</b>	.	18	1.0	.	.	1.0
Average			32.2 <sup>5</sup>	.	20	1.0	.	.	1
LSD at 10% Level			N.S. <sup>6</sup>	.	3	-	.	.	-
Std. Err. of Entry Mean			2.5	.	1	-	.	.	-

1. Yields calculated at 13% moisture.

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

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

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

5. CV = 13.5% and df for EMS = 14.

6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

Planted: August 5, 2009.

Harvested: November 19, 2009.

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

Soil Type: Dothan loamy sand.

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

Fertilization: 50 lb N, 50 lb P<sub>2</sub>O<sub>5</sub>, and 50 lb K<sub>2</sub>O/acre; sidedress: 67 lb N/acre.

Previous Crop: Sweet corn.

Management: Disked, chisel plowed, and rototilled; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. E. Brooke, D. G. Dunn and L. Hitson.

## Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2009

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern <sup>1</sup>	Peanut <sup>2</sup>	Javanese <sup>3</sup>	Race 3 <sup>4</sup>	Race 9 <sup>5</sup>
		----- rating <sup>6</sup> -----			---- reaction <sup>7</sup> ----	
AgSouth	AGS 568 RR	2.0	4.5	5.0	R	R
AgSouth	AGS 606RR	4.5	5.0	4.5	R	S
AgSouth	AGS 747RR	1.5	4.8	3.0	R	S
AgSouth	AGS 758 RR	1.0	2.3	1.5	R	S
AgSouth	AGS Prichard RR	1.0	5.0	3.8	R	R
AgSouth	AGS Woodruff	2.8	4.8	4.0	R	S
AR	R01-2346	1.5	3.0	1.8	S	S
AR	R01-327	5.0	4.5	5.0	R	R
AR	R03-1232	5.0	2.5	3.0	S	S
AR	R04-357	5.0	5.0	3.5	S	S
Asgrow	AG5905	5.0	5.0	5.0	R	R
Asgrow	AG6301	1.0	5.0	5.0	S	S
Asgrow	AG6702	3.8	4.8	4.8	R	R
Asgrow	AG7501	2.8	5.0	4.8	R	S
Asgrow	AG7502	1.3	4.8	4.8	S	S
Asgrow	H7242 RR	1.3	3.8	2.0	R	S
Asgrow	DP5915RR	4.8	5.0	4.3	R	R
Asgrow	DP7330RR	1.0	4.0	4.3	S	S
Asgrow	DP7870RR	5.0	4.8	5.0	S	S
AU	Au02-2814	1.8	4.8	3.5	S	S
DynaGro	32B57	1.8	5.0	3.3	R	R
DynaGro	33C59	5.0	4.8	4.8	R	S
DynaGro	33X55	2.3	5.0	5.0	R	R
DynaGro	35F55	4.5	5.0	5.0	S	S
DynaGro	35K73	5.0	5.0	4.5	S	S
DynaGro	SX09667	2.3	4.5	4.8	S	S
DynaGro	V622NRR	4.8	5.0	4.3	R	R
DynaGro	V76N9RR	4.8	3.5	5.0	R	R
NK	S61-Q2	1.8	4.8	4.5	R	R
NK	S74-W6	4.5	3.3	3.3	R	R
NK	S78-G6	1.5	4.5	4.8	R	R
NK	S80-P2	3.0	4.5	3.8	R	R
Pioneer	95Y20	1.3	3.8	5.0	R	R
Pioneer	95Y70	1.3	4.3	5.0	S	S
Pioneer	97M50	1.5	4.8	4.8	R	S
Progeny	P5622RR	5.0	5.0	5.0	R	R
Progeny	P5650RR	3.8	5.0	5.0	R	R
Progeny	P5706RR	4.5	5.0	5.0	R	R
Progeny	P6208RR	5.0	4.8	3.3	R	R
Progeny	P6708RR	4.0	4.0	4.5	R	S
Progeny	P7208RR	5.0	3.5	2.8	S	S
Public Variety	Desha	5.0	3.5	5.0	S	S
Public Variety	Motte	2.0	3.8	2.5	R	S
Public Variety	Musen	1.8	5.0	5.0	R	R
Public Variety	NC Raleigh	4.8	5.0	5.0	S	S

**Greenhouse Ratings for Resistance to Three Species of  
Root-knot Nematode and Soybean Cyst Nematode, 2009  
(Continued)**

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern <sup>1</sup>	Peanut <sup>2</sup>	Javanese <sup>3</sup>	Race 3 <sup>4</sup>	Race 9 <sup>5</sup>
		----- rating <sup>6</sup> -----			---- reaction <sup>7</sup> ----	
Public Variety	NC Roy	4.8	4.8	5.0	S	S
Public Variety	OSAGE	5.0	4.5	1.5	S	S
Public	Santee	2.8	5.0	5.0	R	S
SC	SC02-011	4.8	5.0	4.8	R	S
SC	SC02-200	1.3	5.0	4.5	R	S
Schillinger	5440.R	4.8	4.3	5.0	R	S
Schillinger	557.RC	2.8	3.8	2.5	R	R
Southern States	LL 511 N	5.0	4.0	3.8	S	S
Southern States	LL 595 N	5.0	5.0	3.3	S	S
Southern States	RT 5160 N	4.8	5.0	4.8	R	R
Southern States	RT 5471 N	5.0	5.0	4.0	R	R
Southern States	RT 5760 N	3.0	3.3	2.0	R	R
Southern States	RT 5930 N	5.0	5.0	5.0	R	R
Southern States	RT 5951 N	5.0	5.0	5.0	R	R
Southern States	RT 5960 N	2.3	4.0	2.8	R	R
Southern States	RT 6207 N	4.3	5.0	5.0	R	R
Southern States	RT 6451 N	1.5	4.8	4.5	R	S
Southern States	RT 6988 N	5.0	3.3	1.8	S	S
Southern States	RT 7270 N	5.0	5.0	3.5	R	S
Southern States	RT 7999 N	1.3	5.0	4.8	R	R
Terral	TV47R18	4.3	2.5	4.8	S	S
Terral	TV49R17	5.0	3.8	4.8	S	S
Terral	TV49R19	5.0	4.8	5.0	S	S
Terral	TV54R28	3.0	4.5	5.0	S	S
Terral	TV55R15	3.3	4.8	5.0	S	S
UGA	G03-1187RR	1.3	1.5	1.0	R	S
UGA	G04-1618 RR	1.3	3.8	4.8	R	R
UGA	G04-2215 RR	1.0	4.8	3.5	R	S
UGA	G04-2414 RR	1.0	4.5	3.5	R	S
UGA	G04-3248 RR	1.5	2.5	2.5	R	S
UGA	G05-1102 RR	1.0	2.3	2.5	R	S
UGA	G05-1200 RR	1.3	3.3	3.8	R	S
UGA	G05-1209 RR	1.0	2.5	2.3	R	S
UGA	G05-1481 RR	1.0	3.5	5.0	R	S
UGA	G05-2324 RR	1.0	3.8	2.0	R	S
UGA	G05-2468 RR	1.3	3.3	4.5	R	R
UGA	G05-2505 RR	1.8	3.3	3.5	R	S
UGA	G05-3758 RR	1.0	4.0	5.0	R	R
UGA	G05-4237 RR	1.3	3.0	4.3	R	R
UGA	G07PR-443	1.8	2.0	1.3	S	S
UGA	G-Has(4)PHY-1	1.5	3.5	1.3	S	S
US Seeds	HALO 4:94	5.0	4.3	2.0	S	S
US Seeds	HALO 5:65	5.0	5.0	4.8	S	S
US Seeds	HALO 4:65	5.0	5.0	2.8	R	R
US Seeds	HALO 5:25	5.0	2.8	3.5	R	S

**Greenhouse Ratings for Resistance to Three Species of  
Root-knot Nematode and Soybean Cyst Nematode, 2009  
(Continued)**

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern <sup>1</sup>	Peanut <sup>2</sup>	Javanese <sup>3</sup>	Race 3 <sup>4</sup>	Race 9 <sup>5</sup>
		----- rating <sup>6</sup> -----			---- reaction <sup>7</sup> ----	
USG	620nRR	4.8	5.0	5.0	R	R
USG	75Z98	4.8	4.5	5.0	S	S
USG	7635nRR	2.5	3.5	1.3	R	R
USG	76S17	5.0	4.8	5.0	R	R
USG	76S79	2.3	4.5	2.8	S	S
USG	7732nRR	1.5	1.8	2.0	S	S
USG	77S09	5.0	4.3	2.5	S	S
USG	77U28	5.0	2.5	1.5	S	S
USG	Allen	3.0	4.8	5.0	S	S
<u>CHECK VARIETIES</u>	AGS Benning	1.0	3.3	2.0	R	S
	Boggs	1.0	2.5	1.0	R	S
	Bossier	5.0	3.8	2.8	S	S
	CNS	5.0	5.0	5.0	S	S
	Cook	3.3	4.8	4.8	S	S
	G93-9009	1.0	1.0	1.0	R	R
	G93-9106	1.0	1.0	1.0	R	R
	GaSoy17	5.0	5.0	5.0	S	S
	Hagood	1.5	4.8	4.8	R	S
	Hartwig	1.8	4.5	3.5	R	R
	Haskell	1.8	2.5	2.3	S	S
	Prichard	1.0	4.8	4.5	R	R
	LSD (0.10)	0.7	0.6	0.8		

1. *Meloidogyne incognita*.

2. *Meloidogyne arenaria*.

3. *Meloidogyne javanica*.

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

5. The cyst indices on the differentials were: Peking = 66(+), Pickett = 70(+), PI88788 = 0(-), PI90763 = 1(-).

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

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

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

M = Mixed reaction.

Ratings for soybean cyst nematode and root-knot nematode provided by S.L. Finnerty, R.S. Hussey, G.E. Bishop, E.D. Wood, and H.R. Boerma.

## Sources of Seed for the 2009 Soybean Variety Tests

Brand or Variety Name	Company and Address
AR	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701
AgSouth, AGS	AGSouth Genetics, LLC, PO Box 72246, Albany, GA 31708-2246.
Asgrow	Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167.
AU	Auburn University, Agronomy and Soils Dept., 201 Funchess Hall, Auburn, AL 36849.
DynaGro	Crop Production Services, 544 Pridgen Pond Rd., Kinston, AL 36453.
NK	Syngenta NK Brand Seeds, 13760 Appomattox Circle, Laurinburg, NC 28352.
Pioneer	Pioneer Hi-Bred International, Inc., 700 Boulevard South, Suite 302, Huntsville, AL 35806.
Progeny	Progeny Ag Products, 1529 Hwy 193 South, Wynne, AR 72396.
SC	Clemson University, Dept. ESPS, Room 213-B P&AS, Box 340315, Clemson, SC 29634.
Schillinger	Schillinger Seed Co., 4200 Corporate Drive, Suite 106, West Des Moines, IA 50266
SS	Southern States Coop, P.O. Box 26234, Richmond, VA 23260.
UGA	University of Georgia, CAGT, 111 Riverbend Rd., Athens, GA 30602.
USG	UniSouth Genetics, Inc., 2640-C Nolensville Road, Nashville, TN 37211.
US Seeds, HALO	Hornbeck Seed Co., Inc., PO Box 472, DeWitt, AR 72042.
<u>Public Varieties</u>	
Cook	Georgia Seed Development Commission, 2420 South Milledge Road, Athens, GA 30605.
Desha & Osage	University of Arkansas, 115 Plant Science Bldg., Fayetteville, AR 72701
Motte, Musen, Santee	Clemson University, Dept. ESPS, Room 213-B P&AS, Box 340315, Clemson, SC 29634.
NC Raleigh & NC Roy	NC Foundation Seed, 8220 Riley Hill Rd., Zebulon, NC 27597.

# GRAIN SORGHUM

## Tifton, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year Average Yield bu/acre	Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
DeKalb	DKS53-67	<b>95.8</b>	<b>88.8</b>	55.2	63	44	.
DeKalb	DKS54-00	<b>86.4</b>	82.0	53.6	67	47	.
DeKalb	DKS44-20	<b>85.8</b>	.	50.7	65	46	.
DynaGro	730B	<b>85.1</b>	.	53.0	57	41	.
SS	SS800	<b>82.9</b>	<b>89.4</b>	48.7	66	41	.
SS	SS650	<b>80.3</b>	.	49.4	65	46	.
Pioneer	83G66	<b>76.5</b>	<b>81.7</b>	50.7	64	51	.
Sorghum Partners	NK8416	72.8	.	51.8	63	60	.
DynaGro	758B	69.5	.	49.7	63	46	.
Southern States	SS560	68.1	65.7	49.7	58	44	.
Asgrow	A571	68.0	<b>78.3</b>	48.6	62	45	.
DynaGro	720B	67.2	.	45.6	60	35	.
DeKalb	DKS54-03	66.0	70.7	51.9	68	46	.
DynaGro	778B	60.6	.	49.9	70	50	.
DynaGro	732B	58.7	.	52.6	60	42	.
DynaGro	771B	55.9	.	47.2	65	42	.
FL	FGS-06BK13	47.3	32.9	50.8	.	.	.
FL	FGS-0620	24.3	28.1	.	.	.	.
Average		69.5 <sup>3</sup>	68.6	50.5	63	45	.
LSD at 10% Level		19.7	15.3	2.9	3	4	.
Std. Err. of Entry Mean		8.3	6.5	1.2	1	2	.

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. CV = 23.9% and df for EMS = 51.

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

Planted: April 24, 2009.

Harvested: September 2, 2009.

Seeding Rate: 140,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 75 lb N, 75 lb P<sub>2</sub>O<sub>5</sub>, and 75 lb K<sub>2</sub>O/acre. Sidedress: 125 lb N/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled and bedded, rototilled; one cultivation used for weed control; Lorsban used for insect control.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

**Tifton, Georgia:**  
**Late-Planted Grain Sorghum Hybrid Performance, 2009**  
**Nonirrigated**

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year		50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Disease <sup>3</sup> rating	Bird Damage <sup>4</sup> %
			Average Yield bu/acre	Test Wt. lb/bu					
Sorghum Partners	NK8416	<b>58.3</b>	.	51.6	.	64	.	1.4	33
DeKalb	DKS54-03	<b>50.4</b>	<b>58.8</b>	37.1	.	47	.	2.3	50
Pioneer	83G66	<b>47.0</b>	<b>64.4</b>	35.7	.	53	.	2.3	35
DeKalb	DKS54-00	<b>47.0</b>	<b>68.9</b>	37.8	.	54	.	1.9	33
Asgrow	A571	43.3	<b>55.1</b>	41.1	.	53	.	2.5	35
DeKalb	DKS53-67	42.1	<b>56.3</b>	42.4	.	50	.	2.5	33
DynaGro	730B	42.0	.	36.7	.	48	.	2.8	65
SS	SS800	40.8	<b>66.0</b>	42.6	.	53	.	2.8	28
DeKalb	DKS44-20	34.2	.	44.5	.	47	.	2.0	25
DynaGro	758B	32.3	.	42.0	.	50	.	2.3	38
Southern States	SS560	32.1	42.6	36.4	.	47	.	2.5	48
DynaGro	771B	28.6	.	40.3	.	54	.	2.5	38
DynaGro	720B	25.0	.	31.6	.	44	.	2.3	53
SS	SS650	25.0	.	47.1	.	52	.	2.5	20
DynaGro	732B	20.5	.	41.7	.	48	.	3.8	63
DynaGro	778B	15.8	.	42.0	.	62	.	2.3	25
FL	FGS-06BK13	6.3	7.5	51.3	.	52	.	1.9	75
FL	FGS-0620	5.5	36.7	51.0	.	53	.	1.5	.
Average		33.1 <sup>5</sup>	50.7	41.8	.	52	.	2.3	41
LSD at 10% Level		13.2	15.1	3.2		4		0.5	20
Std. Err. of Entry Mean		5.6	6.4	1.4		2		0.2	8

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Rated 1 = resistant to 5 = susceptible to foliar diseases.
4. Percent of grain head damaged.
5. CV = 33.7% and df for EMS = 51.

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

Planted: June 19, 2009.  
Harvested: October 9, 2009.  
Seeding Rate: 140,000 seed/acre in 30" rows.  
Soil Type: Tifton loamy sand.  
Soil Test: P = Low, K = Medium, and pH = 6.3.  
Fertilization: Preplant: 75 lb N, 75 lb P<sub>2</sub>O<sub>5</sub>, and 75 lb K<sub>2</sub>O/acre. Sidedress: 125 lb N/acre.  
Previous Crop: Peanuts.  
Management: Disked, subsoiled and bedded, rototilled; one cultivation used for weed control; Lorsban used for insect control.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

**Plains, Georgia:  
Early-Planted Grain Sorghum Hybrid Performance, 2009  
Nonirrigated**

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year		50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Disease <sup>3</sup> rating	Bird Damage <sup>4</sup> %
			Average Yield bu/acre	Test Wt. lb/bu					
DeKalb	DKS53-67	<b>52.1</b>	<b>50.9</b>	.	.	42	2	.	38
DeKalb	DKS54-00	33.4	<b>37.9</b>	.	.	42	1	.	30
DeKalb	DKS44-20	32.8	.	.	.	40	5	.	20
DynaGro	720B	28.6	.	.	.	33	23	.	13
FL	FGS-06BK13	27.8	<b>18.8</b>	.	.	39	0	.	14
DeKalb	DKS54-03	26.0	<b>36.9</b>	.	.	39	0	.	29
DynaGro	758B	24.6	.	.	.	42	14	.	44
Asgrow	A571	24.2	<b>32.5</b>	.	.	37	12	.	17
Sorghum Partners	NK8416	19.5	.	.	.	41	45	.	29
SS	SS800	16.4	<b>29.3</b>	.	.	34	26	.	13
DynaGro	730B	15.6	.	.	.	42	58	.	20
Pioneer	83G66	15.5	<b>31.8</b>	.	.	39	38	.	50
DynaGro	771B	14.5	.	.	.	38	48	.	29
FL	FGS-0620	13.4	<b>15.8</b>	.	.	42	0	.	25
DynaGro	778B	13.0	.	.	.	40	0	.	22
Southern States	SS560	12.5	<b>25.2</b>	.	.	37	48	.	22
SS	SS650	9.7	.	.	.	38	53	.	29
DynaGro	732B	7.3	.	.	.	36	78	.	25
Average		21.5 <sup>5</sup>	31.0	.	.	39	25	.	26
LSD at 10% Level		6.0	N.S. <sup>6</sup>			3	15		-
Std. Err. of Entry Mean		2.5	3.2			1	6		-

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Rated 1 = resistant to 5 = susceptible to foliar diseases.
4. Percent of grain head damaged.
5. CV = 23.5% and df for EMS = 51.
6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

Planted: April 27, 2009.  
Harvested: September 1, 2009.  
Seeding Rate: 140,000 seed/acre in 30" rows.  
Soil Type: Greenville sandy loam.  
Soil Test: P = Medium, K = Medium, and pH = 6.1.  
Fertilization: Preplant: 65 lb N, 66 lb P<sub>2</sub>O<sub>5</sub>, and 18 lb K<sub>2</sub>O/acre. Sidedress: 50 lb N/acre.  
Previous Crop: Soybeans.  
Management: Disked, chiseled and bedded; Atrazine and Permit used for weed control.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.



**Plains, Georgia:  
Late-Planted Grain Sorghum Hybrid Performance, 2009  
Nonirrigated**

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year	Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
			Average Yield bu/acre				
FL	FGS-0620	<b>88.6</b>	<b>66.8</b>	54.3	70	64	0
Sorghum Partners	NK8416	67.0	.	56.4	54	66	0
DeKalb	DKS54-00	50.2	<b>61.6</b>	44.7	53	59	0
FL	FGS-06BK13	43.6	<b>44.1</b>	51.9	59	55	0
DynaGro	730B	43.3	.	51.2	43	50	0
Southern States	SS560	38.4	<b>43.6</b>	51.1	43	46	0
Pioneer	83G66	35.5	<b>52.3</b>	42.3	43	56	0
DeKalb	DKS53-67	32.8	<b>45.5</b>	49.0	53	52	3
DynaGro	758B	28.7	.	45.7	46	51	9
Asgrow	A571	24.9	<b>40.4</b>	41.0	46	54	15
DynaGro	720B	22.3	.	45.1	42	39	0
SS	SS650	21.2	.	40.6	46	55	93
SS	SS800	21.1	<b>27.4</b>	43.6	43	51	93
DeKalb	DKS44-20	20.4	.	47.0	53	58	17
DynaGro	771B	19.3	.	39.4	43	50	86
DeKalb	DKS54-03	18.0	<b>30.0</b>	48.0	53	55	22
DynaGro	778B	14.9	.	35.9	52	63	3
DynaGro	732B	8.5	.	48.0	43	48	94
Average		33.3 <sup>3</sup>	45.7	46.4	49	54	24
LSD at 10% Level		9.3	N.S. <sup>4</sup>	2.2	-	3	12
Std. Err. of Entry Mean		3.9	4.7	0.9	-	1	5

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 23.6% and df for EMS = 51.
4. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

Planted: June 17, 2009.  
 Harvested: October 21, 2009.  
 Seeding Rate: 140,000 seed/acre in 30" rows.  
 Soil Type: Greenville sandy loam.  
 Soil Test: P = Medium, K = Medium, and pH = 6.1.  
 Fertilization: Preplant: 65 lb N, 66 lb P<sub>2</sub>O<sub>5</sub>, and 18 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.  
 Previous Crop: Cotton.  
 Management: Disked, chiseled and bedded; Atrazine used for weed control.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

**Griffin, Georgia:  
Early-Planted Grain Sorghum Hybrid Performance, 2009  
Nonirrigated**

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year Average Yield bu/acre	Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Bird Damage <sup>3</sup> rating
Asgrow	A571	<b>75.9</b>	<b>59.1</b>	53.9	71	39	0	15
DynaGro	771B	<b>70.1</b>	.	55.9	67	37	0	26
DeKalb	DKS54-03	<b>67.7</b>	<b>57.6</b>	57.0	72	42	0	23
DeKalb	DKS53-67	<b>63.0</b>	<b>57.0</b>	58.2	70	43	0	23
DynaGro	758B	<b>60.4</b>	.	53.1	65	36	0	21
DynaGro	778B	<b>60.3</b>	.	54.9	73	47	0	26
DeKalb	DKS54-00	<b>60.2</b>	<b>57.2</b>	57.2	76	42	0	19
Pioneer	83G66	<b>59.6</b>	<b>63.0</b>	55.6	69	41	0	20
Sorghum Partners	NK8416	<b>59.6</b>	.	56.6	79	45	0	26
SS	SS650	56.7	.	58.0	69	40	0	23
DeKalb	DKS44-20	56.6	.	54.4	70	39	0	23
DynaGro	732B	55.6	.	55.9	59	32	0	24
DynaGro	730B	53.1	.	55.0	59	30	0	21
SS	SS800	51.8	<b>59.5</b>	52.1	66	37	0	16
Southern States	SS560	50.5	49.9	56.1	59	31	0	16
FL	FGS-06BK13	36.1	27.6	54.6	81	38	0	21
DynaGro	720B	33.9	.	49.8	57	29	0	29
Average		57.1 <sup>4</sup>	53.9	55.2	68	38	0	22
LSD at 10% Level		16.3	11.3	2.8	3	3	-	N.S. <sup>5</sup>
Std. Err. of Entry Mean		6.9	4.8	1.2	1	1	-	4

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 24.1% and df for EMS = 48.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

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

Planted: June 2, 2009.  
Harvested: October 2, 2009.  
Seeding Rate: 100,000 seed/acre in 30" rows.  
Soil Type: Cecil sandy loam.  
Soil Test: P = Low, K = High, and pH = 6.5.  
Fertilization: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.  
Previous Crop: Fallow.  
Management: Chisel plowed, disked, and rototilled; Atrazine and two cultivations use for weed control.

Test conducted by J. Gassett and G. Ware.

**Griffin, Georgia:**  
**Late-Planted Grain Sorghum Hybrid Performance, 2009**  
**Nonirrigated**

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year	Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
			Average Yield bu/acre				
Asgrow	A571	<b>51.9</b>	<b>66.9</b>	53.2	69	47	0
DynaGro	771B	<b>40.8</b>	.	53.2	67	43	0
Sorghum Partners	NK8416	40.2	.	54.0	81	54	0
DeKalb	DKS44-20	38.5	.	53.5	67	43	0
DeKalb	DKS54-03	34.2	<b>62.1</b>	51.5	73	45	0
DeKalb	DKS53-67	33.6	<b>60.2</b>	55.3	72	46	0
Pioneer	83G66	32.5	<b>63.5</b>	52.3	70	49	0
DeKalb	DKS54-00	29.9	<b>59.2</b>	51.6	73	46	0
SS	SS650	29.3	.	54.5	76	43	0
SS	SS800	27.5	<b>47.8</b>	49.0	69	44	0
DynaGro	758B	27.1	.	53.5	71	40	0
DynaGro	732B	26.9	.	51.7	64	38	0
DynaGro	778B	17.0	.	50.0	81	51	0
FL	FGS-0620	16.6	34.2	44.4	89	54	0
FL	FGS-06BK13	16.4	15.9	57.6	83	51	0
DynaGro	730B	16.0	.	49.3	61	42	0
Southern States	SS560	9.7	25.6	47.8	59	37	0
DynaGro	720B	2.8	.	44.4	58	33	0
Average		27.3 <sup>3</sup>	48.4	51.5	71	45	0
LSD at 10% Level		11.4	20.5	2.4	4	3	-
Std. Err. of Entry Mean		5.0	8.6	1.0	2	1	-

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. CV = 35.3% and df for EMS = 51.

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

Planted: July 2, 2009.

Harvested: November 30, 2009.

Seeding Rate: 150,000 seed/acre in 30" rows.

Soil Type: Cecil sandy loam.

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

Fertilization: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Corn.

Management: Chisel plowed, disked, rototilled; Atrazine and one cultivation used for weed control.

Test conducted by J. Gassett and G. Ware.

## **Sorghum Midge Resistance in 18 Grain Sorghum Hybrids, 2009**

Xinzhi Ni and Jeffrey P. Wilson

Grain sorghum is a good rotation crop in the southern Coastal Plain region, where it is impacted by a variety of cyclic insects and pathogens from the seedling stage through maturity. Diseases were of minimal importance in 2009. Although their damage was not as high as in 2008, 10 insect pests were recorded on sorghum in southern Georgia in 2009. They were, in order of importance for 2009: fall armyworm, sorghum webworm, sorghum midge, stink bugs (southern green and brown stink bugs), leaf-footed bug, chinch bug, corn earworm and aphids (corn leaf aphid and greenbug).

Eighteen hybrids were evaluated for resistance to sorghum midge in 2009. The hybrids were planted with four replications on May 7, 2009. The flowering date (or days to anthesis) was recorded during July. Sorghum midge damage was rated on August 10, 2009. Midge damage was rated according to the visual estimates of grain loss. Grain loss caused by midge infestation can be separated from other factors using the whitish-cast skins hanging at the tip of glumes during pre-harvest examination. Sorghum midge damage was assessed according to the following rating scale: Very Good = 0 - 15% of empty glumes on any of the sorghum panicles in an experimental plot; Good = a few empty glumes (16-30%) observed on a panicle; Fair = 31-75% of empty glumes on a sorghum panicle; and Poor = majority of sorghum panicles with more than three quarters (> 75%) of empty glumes.

The sorghum midge is a cyclic insect pest in grain sorghum production in the southern Coastal Plain region. The overall damage caused by sorghum midge is usually high on late flowering hybrids. Midge damage was low in general for 2009, which could be the result of earlier planting in 2009. The current test was planted on May 7, 2009, while the planting date for previous year was June 16, 2008. Most of the entries (14 of the 18 entries) were rated as Very Good (VG). Three hybrids were rated good (G), one hybrid was rated as Fair (F), and no hybrids were rated Poor for 2009. Please refer to the table on next page for more details.

It is highly recommended that growers use available insect and disease-resistant hybrids, which is one of the most economical pest management strategies for sorghum production in our region. For further integrated insect management information, consult with your local county agent and/or Extension entomologists.

This test was maintained and flowering-date data were collected by Charles Mullis and Penny Tapp from the Crop Genetics and Breeding Research Unit, USDA-ARS, Coastal Plain Experiment Station, UGA-Tifton, Georgia.

**Evaluation of Grain Sorghum Hybrids for  
Resistance to the Sorghum Midge, 2009,  
Tifton, Georgia<sup>1</sup>**

Brand	Hybrid	Days to Anthesis <sup>2</sup>	Midge Resistance <sup>3</sup>
Asgrow	A571	63	VG
Pioneer	83G66	63	VG
Southern States	SS560	68	VG
Southern States	SS800	67	VG
DeKalb	DKS54-00	61	VG
University of Florida	NK8416	64	VG
University of Florida	FGS-0620	62	VG
DeKalb	DKS54-03	64	VG
University of Florida	FGS-06BK13	65	VG
DeKalb	DKS44-20	61	VG
DynaGro	771B	62	VG
DynaGro	720B	62	VG
DynaGro	730B	65	VG
Southern States	SS650	61	VG
DeKalb	DKS53-67	63	G
DynaGro	778B	70	G
DynaGro	732B	65	G
DynaGro	758B	67	F

1. The test plots were maintained with irrigation.

2. Days from planting to 50% bloom.

3. For sorghum midge resistance, VG = very good, G = good, F = fair, and P = poor.

# SORGHUM FOR SILAGE

## Tifton, Georgia:

### Evaluation of Sorghum Hybrids for Silage, 2009, Irrigated

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height	Dry Matter	2-Yr. Avg Dry Yield
		Dry	Green			
		--- tons/acre ---		in	%	tons/acre
Advanta	SG26837	<b>7.0</b>	<b>30.2</b>	72	23	.
Southern States	SS1515F	<b>6.3</b>	25.2	78	25	6.2
Coffey	Exp816BMR	<b>6.0</b>	20.2	82	30	6.8
FL	Fla.R27	<b>5.7</b>	25.1	82	22	.
Average		6.2 <sup>1</sup>	25.2 <sup>2</sup>	78	25	6.5
LSD at 10% Level		N.S. <sup>3</sup>	4.1	7	3	N.S.
Std. Err. of Entry Mean		0.4	1.6	2	1	0.3
<u>Ratoon or Regrowth Crop</u>						
Southern States	SS1515F	<b>5.0</b>	<b>15.1</b>	84	33	5.5
Coffey	Exp816BMR	<b>4.0</b>	<b>14.0</b>	98	29	5.3
Advanta	SG26837	<b>5.0</b>	<b>16.5</b>	75	30	.
FL	Fla.R27	<b>4.8</b>	<b>18.4</b>	76	26	.
Average		4.7 <sup>4</sup>	16.0 <sup>5</sup>	83	30	5.4
LSD at 10% Level		N.S.	N.S.	9	3	-
Std. Err. of Entry Mean		0.7	2.4	4	1	-

1. CV = 14.6% and df for EMS = 9.

2. CV = 12.6% and df for EMS = 9.

3. The F-test indicates no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

4. CV = 28.4% and df for EMS = 9.

5. CV = 26.2% and df for EMS = 9.

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

Planted: April 30, 2009.

Harvested: August 6, 2009.

Ratoon: November 19, 2009.

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

Soil Type: Tifton sandy loam.

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

Fertilization: Preplant: 34 lb N, 34 lb P<sub>2</sub>O<sub>5</sub>, and 101 lb K<sub>2</sub>O/acre.

Sidedress: 100 lb N/acre, plus 50 lb N/acre after 1st harvest..

Previous Crop: Summer annuals.

Management: Disked, subsoiled and bedded, rototilled; Atrazine and one cultivation used for weed control; irrigated 8.0 inches.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.

## Griffin, Georgia: Evaluation of Sorghum Hybrids for Silage, 2009

Company or Brand Name	Hybrid Name or Number	Forage Yields		Plant Height in	Dry Matter %	2-Yr. Avg Dry Yield tons/acre
		Dry --- tons/acre ---	Green			
Southern States	SS1515F	<b>5.3</b>	<b>20.7</b>	56	25	5.1
Coffey	Exp816BMR	4.6	16.6	72	28	4.4
Advanta	SG26837	4.5	<b>21.1</b>	52	22	.
FL	Fla.R27	3.7	<b>20.0</b>	62	18	.
Average		4.5 <sup>1</sup>	19.6 <sup>2</sup>	61	23	4.8
LSD at 10% Level		0.6	1.9	4	2	0.6
Std. Err. of Entry Mean		0.2	0.7	2	1	0.2
<u>Ratoon or Regrowth Crop</u>						
Southern States	SS1515F	<b>1.6</b>	10.8	56	14	.
Coffey	Exp816BMR	<b>1.5</b>	<b>13.3</b>	72	11	.
Advanta	SG26837	1.1	9.1	52	12	.
FL	Fla.R27	0.6	4.6	62	13	.
Average		1.2 <sup>3</sup>	9.5 <sup>4</sup>	61	13	.
LSD at 10% Level		0.4	2.3	4	1	
Std. Err. of Entry Mean		0.2	0.8	2	1	

1. CV = 10.3% and df for EMS = 9.

2. CV = 7.4% and df for EMS = 9.

3. CV = 28.4% and df for EMS = 8.

4. CV = 18.4% and df for EMS = 8.

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

Planted: June 2, 2009.

Harvested: September 8, 2009.

Ratoon: November 18, 2009.

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

Soil Type: Pacolet coarse sandy loam.

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

Fertilization: Preplant: 75 lb N, 150 lb P<sub>2</sub>O<sub>5</sub>, and 225 lb K<sub>2</sub>O/acre.

Sidedress: 100 lb N/acre, plus 50 lb N/acre after 1st harvest.

Previous Crop: Soybean.

Management: Chisel plowed, disked, rototilled; Atrazine and two cultivations used for weed control.

Test conducted by J. Gassett and G. Ware.

# SUMMER ANNUAL FORAGES

## Tifton, Georgia: Evaluation of Summer Annual Forage, 2009 and Two-Year Average Yields, 2008-2009

Company or Brand Name	Hybrid Name or Number	Clipping Dates			Season Total	2-Year Average
		6-29-09	7-20-09			
----- dry matter yield - pounds per acre -----						
<u>Sorghum x Sudangrass</u>						
SS	SS211A	<b>10015</b>	<b>8827</b>	.	<b>18843</b>	.
Advanta	SGxS22053	<b>9516</b>	6389	.	15904	.
Coffey	Exp3010BMR	<b>7901</b>	6640	.	14541	13921
SS	SS220BMR	<b>7721</b>	6157	.	13878	.
Coffey	Exp2010BMR	<b>7662</b>	6180	.	13843	13188
Advanta	SGxS23431	<b>7327</b>	5719	.	13045	.
SS	SS130BMR	<b>7670</b>	2683	.	10353	.
Average		8259	6085	.	14344 <sup>1</sup>	13555
LSD at 10% Level		N.S. <sup>2</sup>	1228		2574	-
Std. Err. of Entry Mean		748	500		1050	-
<u>Pearl Millet</u>						
		Clipping Dates				
		6-30-09	8-06-09	9-18-09		
Ga CPES	Tifleaf 3	<b>7503</b>	<b>4239</b>	<b>2937</b>	<b>14679</b>	15599
SS	SS635	<b>7053</b>	<b>4477</b>	<b>3127</b>	<b>14656</b>	.
SS	SS501	<b>6569</b>	<b>4675</b>	<b>3232</b>	<b>14477</b>	.
Average		7042	4464	3099	14604	15599
LSD at 10% Level		N.S.	N.S.	N.S.	N.S.	-
Std. Err. of Entry Mean		783	246	474	711	-

1. CV = 14.6% and df for EMS = 18.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

3. CV = 22.2% and df for EMS = 6.

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

Planted: Sorghum x Sudangrass: April 30, 2009.  
Millet: May 4, 2009.

Seeding Rate Sorghum x Sudangrass: 150,000 seed/acre in 30" rows.  
Millet: 4 lb seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 34 lb N, 34 lb P<sub>2</sub>O<sub>5</sub>, and 101 lb K<sub>2</sub>O/acre.

Sorghum x Sudangrass - Sidedress: 50 lb N/acre, plus 50 lb N/acre after 1st harvest.

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

Previous Cro Summer annuals.

Management Disked, subsoiled and bedded, rototilled: Atrazine and one cultivations used for weed control.

Test conducted by A. E. Coy, R. E. Brooke and D. G. Dunn.



**Griffin, Georgia:  
Evaluation of Summer Annual Forage, 2009  
and Two-Year Average Yields, 2008-2009**

Company or Brand Name	Hybrid Name or Number	Clipping Dates		Quality Factors				Season Total	2-Year Average
		8-06-09	9-25-09	Protein	NDF	ADF	TDN		
----- dry matter yield - pounds per acre -----									
<u>Sorghum x Sudangrass</u>									
SS	SS211A	<b>6309</b>	<b>5844</b>	11.4	60.6	34.9	55.2	<b>12153</b>	.
Coffey	Exp3010BMR	<b>5992</b>	<b>5607</b>	13.2	59.0	34.4	56.3	<b>11599</b>	<b>9209</b>
Advanta	SGxS22053	<b>6175</b>	<b>4662</b>	11.1	60.9	35.5	54.8	<b>10837</b>	.
SS	SS220BMR	5508	<b>4661</b>	11.5	62.0	36.9	53.4	10168	.
Coffey	Exp2010BMR	<b>5598</b>	4257	13.1	59.5	34.3	56.2	9855	7679
Advanta	SGxS23431	4608	3535	12.1	62.5	36.8	53.6	8144	.
SS	SS130BMR	3942	3392	11.6	62.6	36.6	54.0	7334	.
Coffey	SB7382-Hbmr	3763	2116	10.9	63.3	37.9	52.2	5878	.
Average		5237	4259	11.9	61.3	35.9	54.5	9496 <sup>1</sup>	8444
LSD at 10% Level		769	1186	N.S. <sup>2</sup>	N.S.	N.S.	N.S.	1651	909
Std. Err. of Entry Mean		316	488	0.8	1.1	1.4	1.6	678	331
<u>Pearl Millet</u>									
Ga CPES	Tifleaf 3	6574	<b>4527</b>	.	.	.	.	<b>11101</b>	.
SS	SS635	<b>7340</b>	3494	.	.	.	.	<b>10834</b>	.
SS	SS501	<b>8481</b>	2338	.	.	.	.	<b>10819</b>	.
Average		7465	3453	.	.	.	.	10918 <sup>3</sup>	.
LSD at 10% Level		1145	733					N.S.	
Std. Err. of Entry Mean		416	266					340	

1. CV = 14.3% and df for EMS = 21.

2. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

3. CV = 6.2% and df for EMS = 6.

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

Planted: Sorghum x Sudangrass: June 2, 2009.  
Millet: June 8, 2009.

Seeding Rat Sorghum x Sudangrass: 100,000 seed/acre in 30" rows.  
Millet: 4 lb seed/acre in 30" rows.

Soil Type: Sorghum x Sudangrass: Pacolet coarse sandy loam.  
Millet: Cecil sandy loam.

Soil Test: Sorghum x Sudangrass: P = High, K = Very High, and pH = 5.9.  
Millet: P = Very High, K = Very High, and pH = 6.3.

Fertilization: Sorghum x Sudangrass: Preplant: 75 lb N, 150 lb P<sub>2</sub>O<sub>5</sub>, and 225 lb K<sub>2</sub>O/acre.  
Millet: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre.  
Sidedress (both): 100 lb N/acre, plus 50 lb N/acre after 1st harvests.

Previous Cro Sorghum x Sudangrass: Soybeans.  
Millet: Corn.

Management Sorghum x Sudangrass: Chisel plowed, disked, rototilled; Atrazine and two cultivations used for weed control.  
Millet: Chisel plowed, disked, rototilled; Atrazine and one cultivation used for weed control.

Test conducted by J. Gassett and G. Ware.

## Sources of Seed for the 2009 Grain Sorghum, Silage Sorghum, and Summer Annual Forage Tests

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Brand or Variety Name	Company and Address
Advanta	Advanta U.S., P.O. Drawer 2420, Hereford, TX 79015.
Asgrow, DeKalb	Monsanto Company, 982 U.S. Hwy. 77, Bishop, TX 78343.
Coffey	Coffey Forage Seeds, Inc., 2106 S. Date St., Plainview, TX 79072.
DynaGro	Crop Production Services, 544 Pridgen Pond Rd., Kinston, AL 36453.
FL	University of Florida, NFREC, 3925 Hwy 71, Marianna, FL 32446.
Ga CPES	The University of Georgia, Crop & Soil Sciences Dept., Tifton Campus, P.O. Box 748, Tifton, GA 31793-0748.
Sorghum Partners, NK	Sorghum Partners Inc., P.O. Box 189, New Deal, TX 79350.
Pioneer	Pioneer Hi-Bred International, Inc., 700 Boulevard South, Suite 302, Huntsville, AL 35802.
SS, Southern States	Southern States Coop, P.O. Box 26234, Richmond, VA 23260.

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# SUNFLOWER

## Calhoun, Georgia:

### Early-Planted Sunflower Performance, 2009, Nonirrigated

Company or Brand Name	Hybrid Name or Number	Yield <sup>1</sup> lb/acre	Test Wt. lb/bu	Plant Height in	Erect Plants %	50% Bloom days	Phys. Maturity <sup>2</sup> days	Bird Damage <sup>3</sup> %
ProSeed	E-8	<b>1470</b>	.	72	30	.	80	6
Pannar Seed	8560NS/CL	<b>1388</b>	.	55	1	.	76	9
DeKalb	DKF39-80CL	<b>1323</b>	.	57	2	.	76	6
Pannar Seed	Pan 7924NS	<b>1253</b>	.	64	4	.	79	4
Triumph	s671	<b>1240</b>	.	46	28	.	78	26
DeKalb	DKF38-45	<b>1235</b>	.	63	1	.	78	4
Triumph	636	<b>1197</b>	.	65	30	.	79	10
Pannar Seed	Pan 7813NS	<b>1139</b>	.	67	3	.	78	5
ProSeed	E-9	1033	.	65	2	.	78	3
DeKalb	DKF38-75NS	1008	.	60	4	.	77	14
Triumph	845HO	1003	.	71	4	.	78	9
Triumph	R664	988	.	67	3	.	79	16
Pannar Seed	Pan 7986NS	922	.	67	26	.	80	1
ProSeed	7001CL	875	.	53	1	.	77	10
Triumph	859HOCL	868	.	62	30	.	81	16
Triumph	660CL	853	.	72	31	.	79	30
Triumph	S878ho	806	.	51	0	.	77	20
ProSeed	9001CL	805	.	56	3	.	75	6
DeKalb	DKF37-32	781	.	59	2	.	75	15
Pannar Seed	Pan 9501	762	.	74	1	.	79	9
DeKalb	DKF37-31	599	.	49	8	.	78	5
DeKalb	DKF34-80CL	404	.	51	4	.	75	18
Average		998 <sup>4</sup>	.	61	10	.	78	11
LSD at 10% Level								
Std. Err. of Entry Mean								

1. Yields calculated at 10% moisture.
2. Days from planting.
3. Percent of grain head damaged.
4. CV = 32.9% and df for EMS = 63.

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

Planted: May 13, 2009, replanted July 15, 2009.  
 Harvested: October 22, 2009.  
 Seeding Rate: 20,000 seed/acre in 30" rows.  
 Soil Type: Waynesboro loam.  
 Soil Test: P = High, K = Very High, and pH = 6.6.  
 Fertilization: Preplant: 21 lb N, 54 lb P<sub>2</sub>O<sub>5</sub>, and 108 lb K<sub>2</sub>O/acre.  
 Previous Crop: Soybeans.  
 Management: Moldboard plowed, disked and rototilled; Prowl and three cultivations used for weed control.

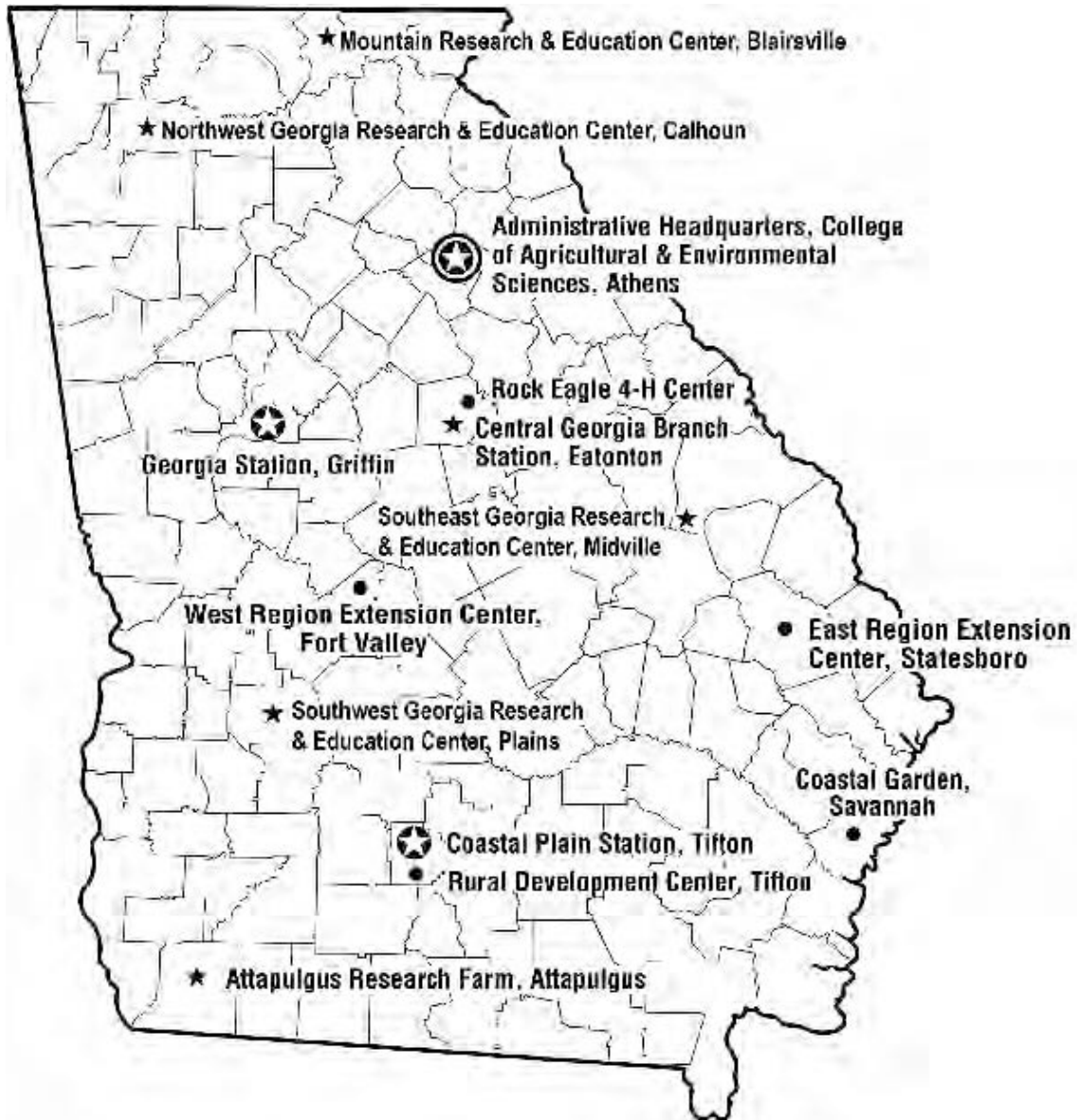
Test conducted by J. Gassett, G. Ware, and J. Stubbs.

## Sources of Seed for the 2009 Sunflower Tests

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<b>Brand or Variety Name</b>	<b>Company and Address</b>
DeKalb	Monsanto, 304 Center Street, West Fargo, ND 58078.
Pannar Seed	Pannar Seed, 40329 US Highway 14 East, Huron, SD 57350.
ProSeed	ProSeed, Inc., 705 E. Brewster, Harvey, ND 58341.
Triumph	Triumph Seed Co., Inc., P. O. Box 1050, Ralls, TX 79357.

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